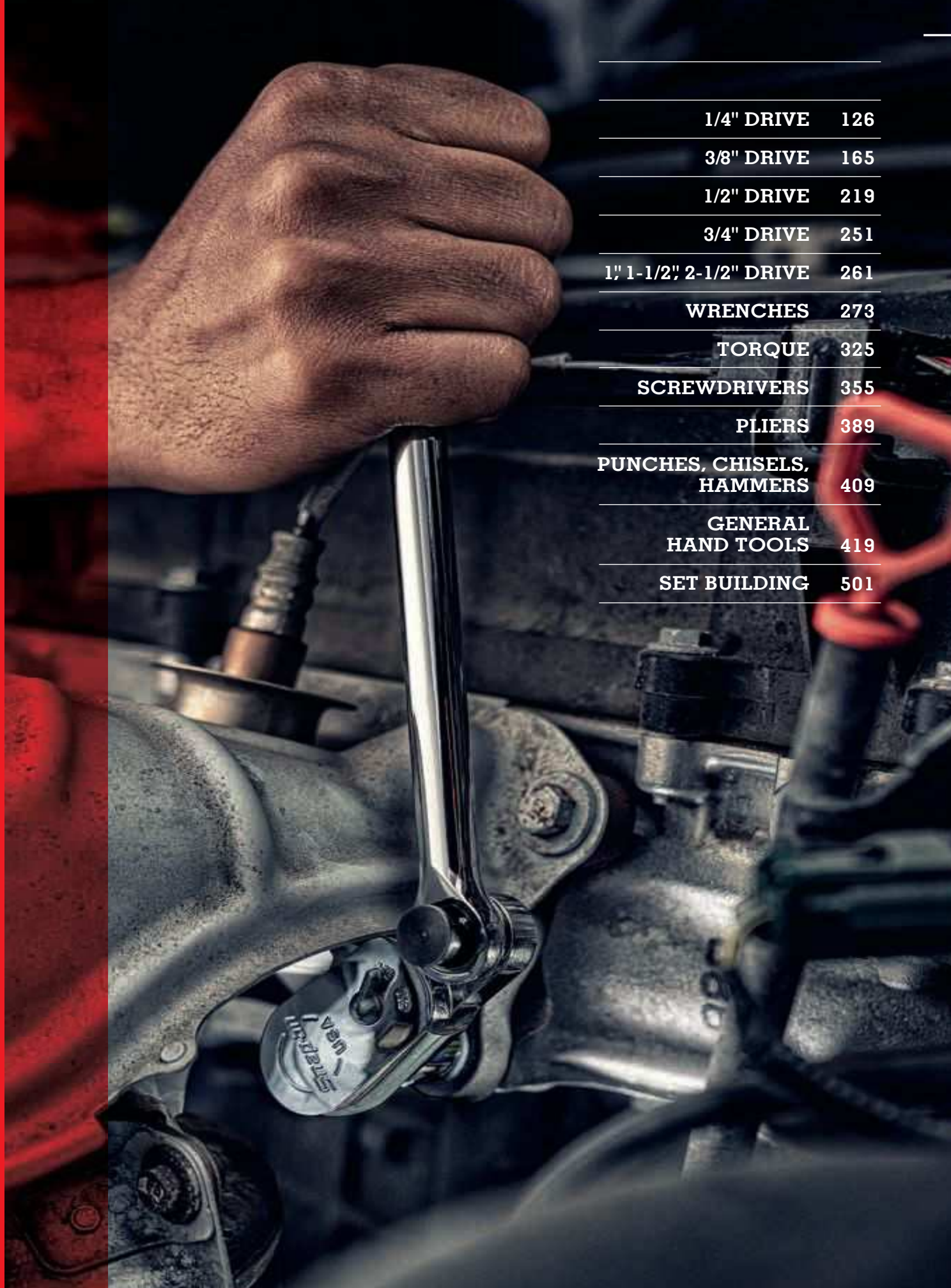

100
Snap-on
Snap-on
Snap-on

HAND TOOLS



1/4" DRIVE	126
3/8" DRIVE	165
1/2" DRIVE	219
3/4" DRIVE	251
1", 1-1/2", 2-1/2" DRIVE	261
WRENCHES	273
TORQUE	325
SCREWDRIVERS	355
PLIERS	389
PUNCHES, CHISELS, HAMMERS	409
GENERAL HAND TOOLS	419
SET BUILDING	501

1/4" DRIVE TOOLS

THE SMALLEST DETAILS CAN MAKE THE BIGGEST DIFFERENCE WHEN YOU'RE WORKING IN CHALLENGING SPACES. THAT'S WHY OUR 1/4" DRIVE TOOLS ARE ENGINEERED TO HELP YOU ACCESS TIGHT SPOTS OTHER TOOLS CAN'T. AFTER ALL, YOU CAN ONLY FIX WHAT YOU CAN GET TO.

A LOW-PROFILE DESIGN THAT INCORPORATES HIGH-PROFILE FEATURES.

Our 1/4" ratchets, sockets and extensions (like our exclusive Wobble Plus extensions that provide 16° of additional accessibility) not only let you reach the tight spaces, they help you finish the job. Our Dual 80® Technology ratchets and Flank Drive® sockets offer advantages like a smaller ratcheting arc and up to 20% more torque, while preventing the rounding of fasteners. And while they're designed for all fasteners, our FDX® sockets also provide 50% more turning power on damaged ones.




T72


TL72


TLL72


THL72


THLL72


TF72


TLLF72


TSLF72


THLF72


THLLF72


TX72


THLX72




GT72

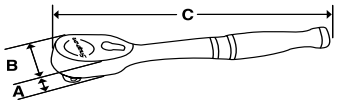

TM72


TXM72

Dual 80® Technology Ratchets

Stop, turn and listen. A smoother, stronger ratchet. Try them to believe them.
Dual 80® Technology Ratchets feature:

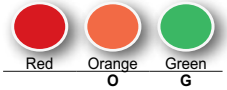
- 72-tooth gear
- Six teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Cover Plate	Joint Repair Kit	Replacement Grip	Locking Mechanism Repair Kit
T72	Standard Handle	72	5	7/16	15/16	4-7/16	**RKRT72A**	**T72-2**	—	—	—
TL72	Long Handle	72	5	7/16	15/16	6-1/2	**RKRT72A**	**T72-2**	—	—	—
TLL72	Extra-Long Handle	72	5	7/16	15/16	9	**RKRT72A**	**T72-2**	—	—	—
THL72	Long Soft Grip Handle	72	5	7/16	15/16	6-7/8	**RKRT72A**	**T72-2**	—	**TH936-12**	—
THLL72	Extra-Long Soft Grip Handle	72	5	7/16	15/16	9-3/4	**RKRT72A**	**T72-2**	—	**TH936-12**	—
TF72	Standard Handle Flex Head	72	5	7/16	15/16	6-1/4	**RKRT72A**	**T72-2**	**RKRT841JT**	—	—
TLLF72	Extra-Long Handle Flex Head	72	5	7/16	15/16	10-1/2	**RKRTLLF72A**	**TLLF72-2**	**RKRT841JT**	—	—
TSLF72	Speeder Handle Flex Head	72	5	3/8	4	1-1/2	**RKRTLLF72A**	**T72-2**	**RKRT841JT**	—	—
THLF72	Long Soft Grip Handle Flex Head	72	5	7/16	15/16	8-1/4	**RKRT72A**	**T72-2**	**RKRT841JT**	**TH936-12**	—
THLLF72	Extra-Long Soft Grip Handle Flex Head	72	5	7/16	15/16	12-13/32	**RKRTLLF72A**	**TLLF72-2**	**RKRT841JT**	**TH936-12**	—
TX72	Standard Handle Locking Flex Head	72	5	7/16	15/16	6-1/4	**RKRT72A**	**T72-2**	**RKRT841JT**	—	**RKRT841LM**
THLX72	Long Soft Grip Handle Locking Flex Head	72	5	7/16	15/16	8-1/4	**RKRT72A**	**T72-2**	**RKRT841JT**	**TH936-12**	**RKRT841LM**
GT72	Standard Handle Industrial	72	5	7/16	15/16	4-7/16	**RKRT72A**	**T72-2**	—	—	—
TM72	Standard Handle Bit Driver	72	5	7/16	15/16	4-7/16	**RKRTM72A**	—	—	—	—
TXM72	Standard Handle Locking Flex Bit Driver	72	5	7/16	15/16	6-1/4	**RKRTM72A**	—	—	—	—

ASME®/ANSI® B107.10
TH936-12 Soft Grip Replacement Handle

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

⚠WARNING

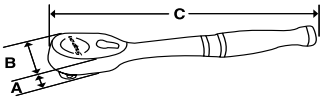
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

RATCHETS


TR72


TRLL72


THR72




TRF72


THRLF72


TRX72


THRLX72

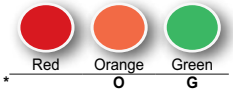
DUAL 80 TECHNOLOGY


THRLLF72

Quick-Release Ratchets

- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Contoured handle for comfort and control
- Chrome finish for easy cleanup

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Cover Plate	Joint Repair Kit	Replacement Grip	Locking Mechanism Repair Kit
TR72	Standard Quick-Release Handle	72	5	7/16	15/16	4-7/16	RKRTR72A	T72-2	—	—	—
TRLL72	Extra-Long Handle Quick-Release	72	5	7/16	15/16	9	RKRTR72A	T72-2	—	—	—
THR72*†	Standard Soft Grip Quick-Release	72	5	7/16	15/16	6-7/8	RKRTR72A	T72-2	—	TH936-12	—
TRF72	Standard Handle Quick-Release Flex Head	72	5	7/16	15/16	6-1/4	RKRTR72A	T72-2	RKRT841JT	—	—
THRLF72*†	Long Handle Quick-Release Flex Head	72	5	7/16	15/16	8-1/4	RKRTR72A	T72-2	RKRT841JT	TH936-12	—
TRX72	Standard Handle Locking Flex Head	72	5	7/16	15/16	6-1/4	RKRTR72A	T72-2	RKRT841JT	—	RKRT841LM
THRLX72*†	Long Handle Quick-Release Locking Flex Head	72	5	7/16	15/16	6-7/8	RKRTR72A	T72-2	RKRT841JT	TH936-12	RKRT841LM
THRLLF72†	Extra-Long Soft Grip Handle Quick-Release Flex Head	72	5	7/16	15/16	12-13/32	RKRTRLLF72A	TLLF72-2	RKRT841JT	TH936-12	—

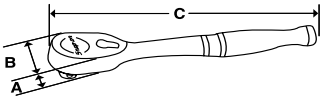
ASME®/ANSI® B107.10
†TH936-12 Soft Grip Replacement Handle


TS72


TKN72


TN72


TNF72




THNF72


TNFM72

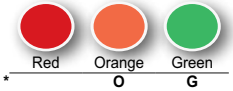

THNFM72


TZERO

Round Head Ratchets

- Compact round head provides better access into tight quarters
- 72-tooth gear for 5° of swing arc means shorter movement between tooth engagement

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

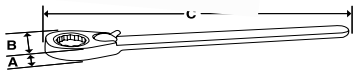
Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Grip
TS72	Fingertip Round Head	72	5	7/16	1-1/4	1-1/4	RKRTHNF72	—
TKN72	Stubby Handle Round Head	72	5	7/16	1-1/4	3-1/4	RKRTHNF72	—
TN72	Standard Handle Round Head	72	5	7/16	1-1/4	4-1/2	RKRTHNF72	—
TNF72	Standard Handle Round Swivel Head	72	5	7/16	1-1/4	5-7/16	RKRTHNF72	—
THNF72*†	Soft Grip Round Swivel Head	72	5	7/16	1-1/4	6-7/8	RKRTHNF72	TH936-12
TNFM72	Standard Handle Round Swivel Bit	72	5	7/16	1-1/4	5-7/16	RKRTNFM72	—
THNFM72†	Soft Grip Round Swivel Bit Ratchet	72	5	7/16	1-1/4	6-7/8	RKRTNFM72	TH936-12
TZERO	1/4" Drive Standard Gearless Round Head Ratchet	0	—	7/16	1-1/4	4-1/2	RKRTZERO	—

ASME®/ANSI® B107.10
†Uses TH936-12 Soft Grip Replacement Handle

Low-Profile Ratchets (11 mm Internal Hex Drive)



- Square drive design works with low-profile sockets to access restricted clearance areas without loss of strength
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth
- Six teeth in contact with gear to provide strength and durability



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C
RAT72A	11 mm Internal Hex Low-Profile	72	5	3/8	15/16	4-7/8



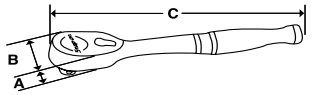






Foreign Object Damage (FOD) Ratchet (1/4″)

- Designed to help prevent foreign object damage in sensitive work environments
- Cover plate and reverse lever permanently affixed to ratchet head with rivets to prevent chance of small parts debris



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C
GT72FOD	Industrial Handle Foreign Object Damage	72	5	7/16	15/16	4-11/16
GTL72FOD	Long Industrial Handle Foreign Object Damage	72	5	7/16	15/16	6-1/2
T72FOD	Standard Handle Foreign Object Damage	72	5	7/16	15/16	4-11/16
TL72FOD	Long Handle Foreign Object Damage	72	5	7/16	15/16	6-1/2

ASME®/ANSI® B107.10

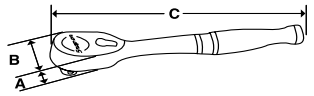
Special Application Ratchets

Snap-on® ratchets are put through rigorous testing to perform in the real world and provide trouble-free performance that stands the test of time Snap-on® ratchets are designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas

- Dual 80® Ratchet Technology features dual pawls and a 72 tooth gear providing for more power in less lateral space
- Six teeth in full contact with gear to provide strength and durability
- A mere 5° ratcheting arc
- Sealed head keeps dirt and other contaminants out of the head mechanism
- For use with standard or Hi-Lok® sockets



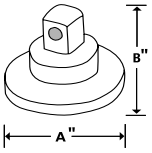




Stock No.	Description	Gear Teeth	Swing Arc	A	B	C
TFY72	Standard Handle Hi-Lok® Flex Head	72	5	7/16	15/16	6-1/4
TY72	Standard Handle Hi-Lok®	72	5	7/16	15/16	4-5/8

ASME®/ANSI® B107.10



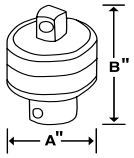


Ratchet Spinners (1/4″)

Stock No.	Description	A	B
TMS70A	Spinner	1	7/8

ASME®/ANSI® B107.10





Ratchet Adaptor, Chrome (1/4″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B
TM77	20-Tooth Adaptor	20	18	15/16	1-5/8

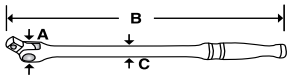
ASME®/ANSI® B107.10

BREAKER BARS









Breaker Bars, Chrome (1/4″)

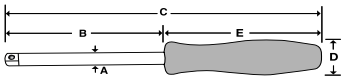
Stock No.	Description	A	B	C	Repair Kit
TM10G	1/4″ Drive 6″	5/8	6	5/16	RKBB1
THBB10	1/4″ Drive 6-1/2″ Soft Grip Handle	5/8	6-1/2	5/16	RKBB1
TM9G	1/4″ Drive 9″	5/8	9	5/16	RKBB1

ASME®/ANSI® B107.10

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

DRIVE HANDLES





SGT4BR



SGTL4BR

Handled Drivers/Instinct® Handle

- Provides maximum turning power and increased comfort
- Six specially designed curves and flutes provide fingertip control and aid in spinning
- Nickel-chrome plating helps protect against corrosion and makes cleaning easy

Stock No.	A	B	C
SGT4BR*	5/16	2	6-13/16
SGTL4BR	5/16	3-1/4	8-1/8

SGTL4BR features a locking pin for better socket retention.

Colors Available

Red (R) Orange (O) Green (G)

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



TM40ASA

Handled Driver/Stubby

Stock No.	C	E
TM40ASA	2-1/8	1-3/4



TM9CSA

TM4CSA

Handled Drivers / Square Drive Handle

- Internal square drive in handle allows use with various handles

Stock No.	A	B	C
TM9CSA	5/16	6-3/8	10
TM4CSA*	5/16	2-3/8	6

Colors Available

Black (R) Red (O) Orange (G) Green

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



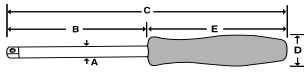
TMR4



TMRT8

Ratcheting Drivers

- Use with any 1/4″ drive socket to create a ratcheting nut driver
- 3-position ratchet mechanism works in forward, reverse or lock out the ratcheting action completely



Stock No.	A	B	C	E
TMR4*	5/16	3-7/8	8-31/32	5-3/32
TMRT8	5/16	8	10	2

Colors Available

Black (R) Red (O) Orange (G) Green

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



TM62B



TM63A



TM615



TM615

Flexible Drivers

- For low-torque applications
- Flexible shank allows better access around obstructions

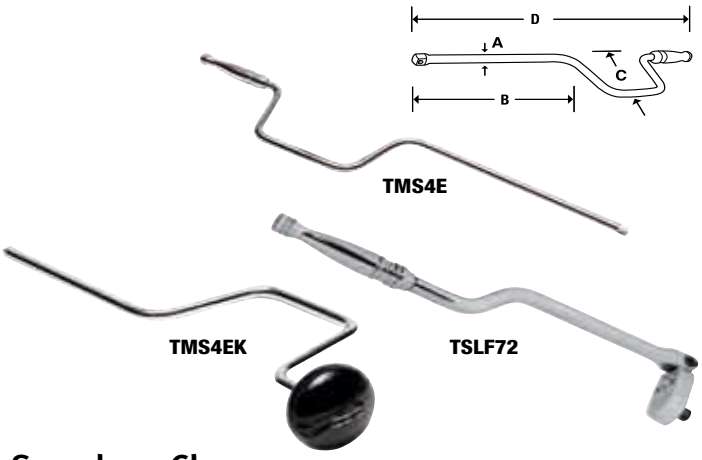
Stock No.	A	B	C
TM62B	1/4	2-7/32	6-3/4
TM63A	1/4	4-21/32	9-3/16
TM615	1/4	15	18-9/16

Carburetor Adjustment Tools

1/4″ Drive Standard Handle Extra-Long Flexible Driver

- Designed for carburetor work; this driver can also access recessed distributors
- 1/4″ drive at the end of a tough but flexible spring steel shank
- Ideal to access hard-to-reach adjusting screws
- Intended for low-torque applications

Stock No.	A	B	C
TM615	1/4	15	18-9/16



Speeders, Chrome

Stock No.	A	B	C	D
TMS4E	5/16	7-1/8	3	16
TMS4EK	5/16	7-1/8	3	15-1/32
TSLF72	3/8	4	1-1/2	9-5/8



Sliding T-Handle, Chrome

- Designed for heavier applications
- For use as a T-handle or offset wrench
- Spring and friction ball holds head in position

Stock No.	A	B	C
TM5	13/16	5/16	4-1/2

ASME®/ANSI® B107.10

Knurled Extensions, Chrome

- Chamfered drive ends for easy engagement
- Small diameter shank for maximum accessibility
- Cold formed for robust performance and made from a single piece of steel
- Knurled shaft provides fingertip control
- Includes plastic storage tray



Stock No.	Industrial Stock No.†	A	B	Set Contains: 106BTMX	106ATMXWPFR^
TMX1*	GTMX1	5/16	1-1/4	•	•
TMXK2**	GTMX2*	5/16	2	•	•
TMXK3	—	5/16	3		
TMXK4	GTMX4*	5/16	4	•	•
TMXK60**	GTMX60	5/16	6	•	•
TMXK80**	GTMXK80	5/16	8	•	•
TMXK110	GTMXK110	5/16	11	•	•
TMXK140	GTMX140	5/16	14		
TMX240*	—	3/8	24		
TMX360	—	3/8	36		

*Not knurled
**ASME®/ANS®I B107.10

Set shown includes storage tray.
†Industrial finish products not included in the set
^Includes foam organizer



106BTMX



TMXK80

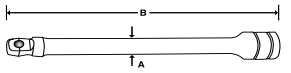
Wobble Extensions, Chrome

- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Stock No.	A	B	Set Contains: 106ATMXW
TMXW1*	5/16	1-1/4	•
TMXWK2	5/16	2	•
TMXWK4	5/16	4	•
TMXWK60	5/16	6	•
TMXWK80	5/16	8	•
TMXWK110	5/16	11	•

*Not knurled

Set shown includes storage tray.





106ATMXW

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

EXTENSIONS



106ATMXWP

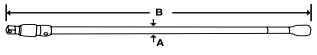
Wobble Plus Extensions, Chrome

- Provides 16° of additional accessibility
- Useable in both wobble and rigid functionality

Stock No.	A	B	Set Contains: 106ATMXWP	106ATMXWPFR †
TMXWP1*	5/16	1-1/4	•	•
TMXWP2	5/16	2	•	•
TMXWP4	5/16	4	•	•
TMXWP6	5/16	6	•	•
TMXWP8	5/16	8	•	•
TMXWP11	5/16	11	•	•

*Not knurled

Set shown includes storage tray.
†Includes foam tray





103TMXKLA

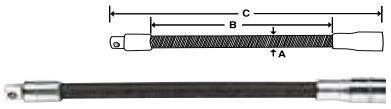
Locking Extensions, Chrome

- Quick-release sleeve releases socket quickly and easily
- Knurling at the drive end provides for easy fingertip turning

Stock No.	A	B	Set Contains: 103TMXKLA
TMXKL2	5/16	2	
TMXKL3	5/16	3	
TMXKL60A	5/16	6	•
TMXKL110A	5/16	11	•
TMXKL114A	5/16	14	
TMXKL240A	3/8	24	•

TMXKLRK—Extension Repair Kit (for TMXKLP)
TMXKLP—Locking Pin

Set shown includes storage tray.



TM61A

Flexible Extension

Stock No.	A	B	C
TM61A	5/16	5	6

ASME®/ANSI® B107.10



TZ1

Extension Connectors, Chrome

TZ1 1/4″ Drive Extension Connector

- 1/4″ drive extension connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited-access fasteners
- For use in marine, heavy truck, plumbing and manufacturing applications

TZ2 2 pc 1/4″ Drive Extension Connector Set

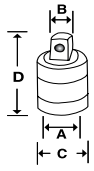
- Female and male 90° connectors add versatility to extensions, breaker bars, ratchets and crowfoots when accessing hard-to-reach fasteners

SOCKET/RATCHET ACCESSORIES



TA3

1206GS



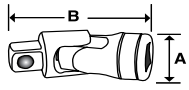
Square Drive Adaptors, Industrial (3/8″)

Stock No.	Industrial Stock No.	A	B	C	D
—	GFAT1E	3/8	1/4	11/16	1-1/4
TA3	GTA3	1/4	3/8	1/2	15/16

1206GS 6 pc Combination Drive Square Drive Adaptor Set

- Includes 1/4″ drive GFAT1E and TA3 adaptors, 3/8″ drive A2A and GSAF1F adaptors and 1/2″ drive GLA12B and GLAS1E adaptors (6 pc) in storage tray





103UFTS

Universal Joints, Chrome

TMU8B 1/4″ Drive 1-1/8″ Friction Ball Universal Joint

- Universal joints help increase access to hard-to-reach fastener applications
- Pins in the universal joint are laser-welded and will not walk out over time

TMUL8 Locking Collar Universal Joint

- Locking pin to ensure better socket retention

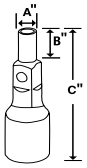
Stock No.	A	B
TMU8B	1/2	1-5/16
TMUL8	1/2	2-1/4

103UFTS 3 pc Combination Drive Universal Joint Set

- Includes (1) 1/4″ Drive Universal Joint, (1) 3/8″ Drive Universal Joint and (1) 1/2″ Drive Universal Joint in storage tray



TMXM114

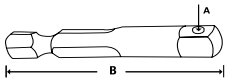


Magnetic Adaptors

Stock No.	A	B	C
TMXM17	7/32	13/32	1-21/32
TMXM114	7/32	9/32	1-17/32



GMB3041



Hex-to-Square Adaptors

Stock No.	A	B
GMB3041	Ball Detent	1
GMB3046	Ball Detent	6

Insert bit style, non-impact

FLANK DRIVE® XTRA SOCKETS

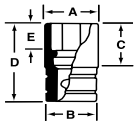


112YTMMY

Shallow, mm, Chrome

mm	6	A	B	C	D	E	Set Contains: 112YTMMY 6	Set Contains: 114YTMMY 6
4	YTMM4	7.1	12.7	13.3	22.2	4.0		•
4.5	YTMM4.5	7.9	12.7	13.3	22.2	4.0		•
5	YTMM5	7.9	12.7	13.3	22.2	4.0	•	•
5.5	YTMM5.5	8.7	12.7	13.3	22.2	4.0	•	•
6	YTMM6	9.5	12.7	13.3	22.2	5.6	•	•
7	YTMM7	11.1	12.7	13.3	22.2	5.6	•	•
8	YTMM8	11.9	12.7	13.3	22.2	6.4	•	•
9	YTMM9	12.7	12.7	13.3	22.2	7.1	•	•
10	YTMM10	14.3	14.3	12.7	22.2	7.1	•	•
11	YTMM11	15.9	15.9	12.5	22.2	8.7	•	•
12	YTMM12	16.7	16.7	12.8	22.2	8.7	•	•
13	YTMM13	18.3	18.3	12.3	22.2	8.7	•	•
14	YTMM14	19.1	19.1	13.5	23.0	10.3	•	•
15	YTMM15	20.6	20.6	13.2	23.0	8.7	•	•
16	YTMM16	21.4	21.4	14.8	25.4	9.5		

Sets shown include magnetic storage tray.





YTMM5



YTMM15



110YTMY

Shallow, Inches, Chrome

11	6	A	B	C	D	E	Set Contains: 110YTMY 6	Set Contains: 113YTMY 6
1/8	YTM04	1/4	1/2	1/2	7/8	1/8		•
5/32	YTM05	9/32	1/2	1/2	7/8	5/32		•
3/16	YTM6	5/16	1/2	1/2	7/8	5/32	•	•
7/32	YTM7	11/32	1/2	1/2	7/8	5/32	•	•
1/4	YTM8	3/8	1/2	1/2	7/8	7/32	•	•
9/32	YTM9	7/16	1/2	1/2	7/8	7/32	•	•
5/16	YTM10	15/32	1/2	1/2	7/8	1/4	•	•
11/32	YTM11	1/2	1/2	1/2	7/8	9/32	•	•
3/8	YTM12	9/16	9/16	1/2	7/8	9/32	•	•
7/16	YTM14	5/8	5/8	15/32	7/8	11/32	•	•
1/2	YTM16	11/16	11/16	15/32	7/8	11/32	•	•
9/16	YTM18	3/4	3/4	1/2	29/32	13/32	•	•
5/8	YTM20	27/32	27/32	17/32	1	3/8		•

Sets shown include magnetic storage tray.



YTM04



YTM6

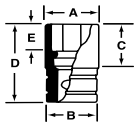


YTM14

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® XTRA SOCKETS





YTMMS4



YTMMS15

Semi-Deep, mm, Chrome



112YTMMSY

Set Contains:

mm	6	A	B	C	D	E	6
4	YTMMS4	7.1	12.7	22.9	31.8	4.0	
4.5	YTMMS4.5	7.9	12.7	22.9	31.8	4.0	
5	YTMMS5	7.9	12.7	22.9	31.8	4.8	•
5.5	YTMMS5.5	8.7	12.7	22.9	31.8	4.8	•
6	YTMMS6	9.5	12.7	22.9	31.8	5.6	•
7	YTMMS7	11.1	12.7	22.9	31.8	5.6	•
8	YTMMS8	11.9	12.7	22.9	31.8	6.4	•
9	YTMMS9	12.7	11.9	22.9	31.8	7.1	•
10	YTMMS10	14.3	13.5	18.5	31.8	7.1	•
11	YTMMS11	15.9	15.1	18.3	31.8	8.7	•
12	YTMMS12	16.7	15.9	18.1	31.8	8.7	•
13	YTMMS13	18.3	17.5	18.1	31.8	8.7	•
14	YTMMS14	19.1	18.3	17.9	31.8	9.5	•
15	YTMMS15	20.6	19.8	18.1	31.8	9.5	•

Sets shown include magnetic storage tray.



110YTMSY

Set Contains:

Semi-Deep, Inches, Chrome



YTMS10

11	6	A	B	C	D	E	6
1/8	YTMS04	1/4	1/2	7/8	1-1/4	5/32	
5/32	YTMS05	9/32	1/2	7/8	1-1/4	5/32	
3/16	YTMS6	5/16	1/2	7/8	1-1/4	3/16	•
7/32	YTMS7	11/32	1/2	7/8	1-1/4	3/16	•
1/4	YTMS8	3/8	1/2	7/8	1-1/4	3/16	•
9/32	YTMS9	7/16	1/2	7/8	1-1/4	7/32	•
5/16	YTMS10	15/32	1/2	7/8	1-1/4	1/4	•
11/32	YTMS11	1/2	15/32	7/8	1-1/4	9/32	•
3/8	YTMS12	9/16	17/32	23/32	1-1/4	9/32	•
7/16	YTMS14	5/8	19/32	23/32	1-1/4	11/32	•
1/2	YTMS16	11/16	21/32	11/16	1-1/4	11/32	•
9/16	YTMS18	3/4	23/32	11/16	1-1/4	3/8	•
5/8	YTMS20	27/32	13/16	21/32	1-1/4	13/32	

ASME® B107.1
Conventional hex

Sets shown include magnetic storage tray.



112YSTMMY

114YSTMMY

Set Contains:

Deep, mm, Chrome



YSTMM15

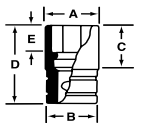
mm	6	A	B	C	D	E	6	6
4	YSTMM4	7.1	12.7	41.9	50.8	4.0		•
4.5	YSTMM4.5	7.9	12.7	41.9	50.8	4.0		•
5	YSTMM5	7.9	12.7	41.9	50.8	4.8	•	•
5.5	YSTMM5.5	8.7	12.7	41.9	50.8	4.8	•	•
6	YSTMM6	9.5	12.7	41.9	50.8	5.6	•	•
7	YSTMM7	11.1	12.7	41.9	50.8	5.6	•	•
8	YSTMM8	11.9	12.7	41.9	50.8	6.4	•	•
9	YSTMM9	12.7	12.7	41.9	50.8	7.1	•	•
10	YSTMM10	14.3	14.3	37.6	50.8	7.1	•	•
11	YSTMM11	15.9	15.9	37.3	50.8	8.7	•	•
12	YSTMM12	16.7	16.7	37.2	50.8	8.7	•	•
13	YSTMM13	18.3	18.3	37.2	50.8	8.7	•	•
14	YSTMM14	19.1	19.1	37.0	50.8	10.3	•	•
15	YSTMM15	20.6	20.6	37.2	50.8	8.7	•	•

Sets shown include magnetic storage tray.

FLANK DRIVE® XTRA SOCKETS

Deep, Inches, Chrome

Set Contains:							110YSTMY	113YSTMY
	6	A	B	C	D	E	6	6
1/8	YSTM04	1/4	1/2	1-5/8	2	5/32		•
5/32	YSTM05	9/32	1/2	1-5/8	2	5/32		•
3/16	YSTM6	5/16	1/2	1-5/8	2	3/16	•	•
7/32	YSTM7	11/32	1/2	1-5/8	2	3/16	•	•
1/4	YSTM8	3/8	1/2	1-5/8	2	7/32	•	•
9/32	YSTM9	7/16	1/2	1-5/8	2	7/32	•	•
5/16	YSTM10	15/32	1/2	1-5/8	2	1/4	•	•
11/32	YSTM11	1/2	1/2	1-5/8	2	9/32	•	•
3/8″	YSTM12	9/16	9/16	1-15/32	2	9/32	•	•
7/16	YSTM14	5/8	5/8	1-15/32	2	11/32	•	•
1/2	YSTM16	11/16	11/16	1-7/16	2	11/32	•	•
9/16	YSTM18	3/4	3/4	1-7/16	2	13/32	•	•
5/8	YSTM20	27/32	13/16	1-7/16	2	13/32		•





110YSTMY



YSTM18

FLANK DRIVE® SOCKETS



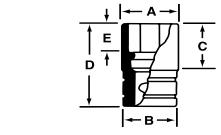
111TMMDY

Shallow, mm, Chrome

Set Contains:								112TMMY	111TMMDY
mm	6	12	A	B	C	D	E	6	12
4	TMM4*	TMMD4	6.7	12.1	13.3	22.2	4.6		
4.5	TMM4.5*	TMMD4.5*	7.2	12.1	13.3	22.2	4.3		
5	TMM5*	TMMD5*	7.7	12.1	13.3	22.2	4.3	•	•
5.5	TMM5.5	TMMD5.5	8.3	12.1	13.3	22.2	4.6	•	•
6	TMM6	TMMD6	9.3	12.1	13.3	22.2	5.6	•	•
7	TMM7	TMMD7	10.5	12.1	13.3	22.2	6.1	•	•
8	TMM8	TMMD8	11.5	12.1	13.3	22.2	6.9	•	•
9	TMM9	TMMD9	12.7	12.1	13.3	22.2	7.4	•	•
10	TMM10	TMMD10	13.2	13.2	13.3	22.2	7.4	•	•
11	TMM11	TMMD11	15.2	14.6	13.3	22.2	9.4	•	•
12	TMM12	TMMD12	16.5	15.6	13.3	22.2	9.4	•	•
13	TMM13	TMMD13	17.6	16.7	13.3	22.2	9.4	•	•
14	TMM14	TMMD14	18.8	17.8	14.1	22.2	9.7	•	•
15	TMM15	TMMD15	20.4	19.4	14.1	23.0	9.1	•	•
16	TMM16	—	21.0	20.2	16.1	25.0	10.2		

ASME® B107.5m
*Conventional hex

Sets shown include magnetic storage tray.





TMM14



110TMDY

Shallow, Inches, Chrome

Set Contains:										110TMY**	110TMDY**	113TM
	6	12	6	12	A	B	C	D	E	6	12	6
1/8	TM04	TMD4	—	—	7/32	7/16	1/2	7/8	1/8			•
5/32	TM05*	TMD5	—	—	9/32	15/32	1/2	7/8	5/32			•
3/16	TM6*	TMD6*	GTM6	GTMD6	9/32	15/32	1/2	7/8	5/32	•	•	•
7/32	TM7*	TMD7*	GTM7	GTMD7	11/32	15/32	1/2	7/8	3/16	•	•	•
1/4	TM8	TMD8	GTM8	GTMD8	3/8	15/32	1/2	7/8	7/32	•	•	•
9/32	TM9	TMD9	GTM9	GTMD9	13/32	15/32	1/2	7/8	1/4	•	•	•
5/16	TM10	TMD10	GTM10	GTMD10	15/32	15/32	1/2	7/8	9/32	•	•	•
11/32	TM11	TMD11	GTM11	GTMD11	1/2	15/32	5/16	7/8	9/32	•	•	•
3/8	TM12	TMD12	GTM12	GTMD12	17/32	1/2	1/2	7/8	9/32	•	•	•
7/16	TM14	TMD14	GTM14	GTMD14	19/32	9/16	1/2	7/8	3/8	•	•	•
1/2	TM16	TMD16	GTM16	GTMD16	11/16	21/32	1/2	7/8	3/8	•	•	•
9/16	TM18	TMD18	—	GTMD18	25/32	23/32	1/2	29/32	3/8	•	•	•
5/8	TM20	TMD20	—	—	27/32	25/32	19/32	31/32	13/32			•

ASME B107.1
*Conventional hex

**Sets shown include magnetic storage tray.



TM16



GTMD18

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SOCKETS



Semi-Deep, mm, Chrome

112TMMDSY

Set Contains: 112TMMSY, 112TMMDSY



TMMDS14

mm	6	12	A	B	C	D	E	6	12
4	TMMS4	TMMDS4	7.1	12.7	23.0	31.8	4.0		
4.5	TMMS4.5	TMMDS4.5	7.9	12.7	23.0	31.8	4.0		
5	TMMS5*	TMMDS5*	7.7	12.1	22.9	31.8	5.1	•	•
5.5	TMMS5.5*	TMMDS5.5	8.3	12.1	22.9	31.8	5.3	•	•
6	TMMS6	TMMDS6	9.3	12.1	22.9	31.8	5.8	•	•
7	TMMS7	TMMDS7	10.5	12.1	22.9	31.8	6.1	•	•
8	TMMS8	TMMDS8	11.5	12.1	18.4	31.8	6.9	•	•
9	TMMS9	TMMDS9	12.7	12.1	18.4	31.8	7.4	•	•
10	TMMS10	TMMDS10	14.0	13.2	18.4	31.8	7.4	•	•
11	TMMS11	TMMDS11	15.4	14.6	18.4	31.8	9.4	•	•
12	TMMS12	TMMDS12	16.5	15.6	18.4	31.8	9.4	•	•
13	TMMS13	TMMDS13	17.6	16.7	18.4	31.8	9.4	•	•
14	TMMS14	TMMDS14	18.8	17.8	18.4	31.8	9.7	•	•
15	TMMS15	TMMDS15	20.4	19.4	18.4	31.8	9.7	•	•

*Conventional hex

Sets shown include magnetic storage tray.



Semi-Deep, Inches, Chrome

110TMDSY

Set Contains: 110TMSY, 110TMDSY



TMDS14

11	6	12	A	B	C	D	E	6	12
1/8	TMS04	TMDS04	15/32	15/32	23/32	1-1/4	9/32		
5/32	TMS05	TMDS05	15/32	15/32	23/32	1-1/4	9/32		
3/16	TMS6*	TMDS6*	5/16	15/32	29/32	1-1/4	7/32	•	•
7/32	TMS7*	TMDS7*	11/32	15/32	29/32	1-1/4	7/32	•	•
1/4	TMS8	TMDS8	3/8	15/32	29/32	1-1/4	1/4	•	•
9/32	TMS9	TMDS9	13/32	15/32	23/32	1-1/4	1/4	•	•
5/16	TMS10	TMDS10	15/32	15/32	23/32	1-1/4	9/32	•	•
11/32	TMS11	TMDS11	1/2	15/32	23/32	1-1/4	5/16	•	•
3/8	TMS12	TMDS12	9/16	1/2	23/32	1-1/4	5/16	•	•
7/16	TMS14	TMDS14	5/8	19/32	23/32	1-1/4	3/8	•	•
1/2	TMS16	TMDS16	11/16	21/32	23/32	1-1/4	3/8	•	•
9/16	TMS18	TMDS18	3/4	23/32	23/32	1-1/4	3/8	•	•
5/8	TMS20	TMDS20	15/32	15/32	23/32	1-1/4	9/32		

ASME® B107.1
*Conventional hex

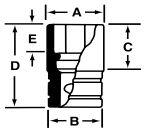
Sets shown include magnetic storage tray.



Deep, mm, Chrome

112STMMY

Set Contains: 111STMMDY, 112STMMY





STMMD14

mm	6	12	A	B	C	D	E	12	6
4	STMM4*	STMMD4	6.7	12.1	42.2	50.8	4.6		
4.5	STMM4.5*	STMMD4.5	7.2	12.1	42.2	50.8	4.6		
5	STMM5*	STMMD5*	7.7	12.1	42.2	50.8	5.1	•	•
5.5	STMM5.5	STMMD5.5	8.3	12.1	42.2	50.8	5.3	•	•
6	STMM6	STMMD6	9.3	12.1	42.2	50.8	5.8	•	•
7	STMM7	STMMD7	10.5	12.1	42.2	50.8	6.1	•	•
8	STMM8	STMMD8	11.5	12.1	42.2	50.8	6.9	•	•
9	STMM9	STMMD9	12.7	12.1	38.1	50.8	7.4	•	•
10	STMM10	STMMD10	14.0	13.2	38.1	50.8	7.4	•	•
11	STMM11	STMMD11	15.2	14.6	38.1	50.8	9.4	•	•
12	STMM12	STMMD12	16.5	15.6	38.1	50.8	9.4	•	•
13	STMM13	STMMD13	17.6	16.7	38.1	50.8	9.4	•	•
14	STMM14	STMMD14	18.8	17.8	38.1	50.8	9.7	•	•
15	STMM15	STMMD15	20.4	19.4	38.1	50.8	9.1		•

*Conventional hex

Sets shown include magnetic storage tray.

Deep, Inches, Chrome



110STMY

Set Contains: 110STMY | 110STMDY

	6	12	6	12	A	B	C	D	E	6	12
1/8	STM04*	STMD04	—	—	7/32	7/16	1-21/32	2	1/8		
5/32	STM05*	STMD05	—	—	1/4	15/32	1-21/32	2	3/16		
3/16	STM6*	STMD6*	GSTM6	GSTMD6*	5/16	15/32	1-21/32	2	3/16	•	•
7/32	STM7*	STMD7*	GSTM7	GSTMD7*	11/32	15/32	1-21/32	2	7/32	•	•
1/4	STM8	STMD8	GSTM8	GSTMD8	3/8	15/32	1-21/32	2	7/32	•	•
9/32	STM9	STMD9	GSTM9	GSTMD9**	13/32	15/32	1-21/32	2	1/4	•	•
5/16	STM10	STMD10	GSTM10	GSTMD10**	15/32	15/32	1-21/32	2	7/32	•	•
11/32	STM11	STMD11	GSTM11	GSTMD11	1/2	15/32	1-21/32	2	9/32	•	•
3/8	STM12	STMD12	GSTM12	GSTMD12	17/32	9/16	1-21/32	2	9/32	•	•
7/16	STM14	STMD14	GSTM14	GSTMD14	5/8	9/16	1-21/32	2	3/8	•	•
1/2	STM16	STMD16	GSTM16	GSTMD16	11/16	21/32	1-21/32	2	3/8	•	•
9/16	STM18	STMD18	—	GSTMD18	3/4	23/32	1-21/32	2	3/8	•	•
5/8	STM20A	STMD20	—	—	27/32	13/16	1-7/16	2	13/32		

*Conventional hex
**Larger bolt clearance diameter for servicing aerospace fastener

Sets shown include magnetic storage tray.



STMD16



GSTMD16

Long, mm, Chrome

Set Contains: 102STMML

mm	6	A	B	C	D	E	6
10	STMML10	14	13.2	33.0	101.6	7.4	•
11	STMML11	15.2	14.6	30.6	101.6	9.4	•



102STMML

Application:
For bumper cover bolts found on most European, Asian and US vehicles.

Shallow/Deep Sets, Inches, Chrome (1/4″)

120STTM 20 pc 1/4″ Drive 6-Point SAE Flank Drive® Shallow/Deep Socket Set
- Includes TM6–TM18 shallow sockets and STM6–STM18 deep sockets
- Includes (20 pc) 3/16–9/16″
- Includes magnetic storage tray



120STTM

Shallow/Deep Sets, mm, Chrome (1/4″)

124STTMM 24 pc 1/4″ Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set
- Includes (24) shallow/deep sockets (5–15 mm)
- Includes magnetic storage tray



124STTMM

FLANK DRIVE® LOW-PROFILE SOCKETS

Low-Profile Socket Sets, mm

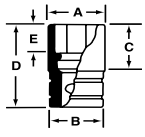


110RTSMA

Set Contains: 110RTSMA | 112RTSMA | 112RTMA

mm	6	12	A	B	C	D	E	6	6	12
5	RTSM5	RTM5	7.7	12.1	7.7	17.7	2.2	•	•	•
5.5	RTSM5.5	RTM5.5	8.3	12.1	7.7	17.7	2.6	•	•	•
6	RTSM6	RTM6	9.3	12.1	7.7	17.7	2.7	•	•	•
7	RTSM7	RTM7	10.5	12.1	7.7	17.7	2.8	•	•	•
8	RTSM8	RTM8	11.5	12.1	7.7	17.7	3.6	•	•	•
9	RTSM9	RTM9	12.7	12.1	7.7	17.7	3.9	•	•	•
10	RTSM10	RTM10	14.0	12.1	9.4	19.0	4.7	•	•	•
11	RTSM11	RTM11	15.4	12.1	6.2	17.3	4.5	•	•	•
12	RTSM12	RTM12	16.5	12.1	6.1	17.8	4.9	•	•	•
13	RTSM13	RTM13	17.6	12.1	5.9	18.1	5.1	•	•	•
14	RTSM14	—	18.7	12.1	6.4	19.3	5.8			
15	RTSM15	—	20.3	12.1	6.3	20.3	6.4			
	RAT72A	—	11 mm Internal Hex Low-Profile						•	•
	RTMBS8	—	Magnetic Bit Holder for the Low Profile RAT72						•	•

Sets shown include storage tray.





RTM9



RTSM14

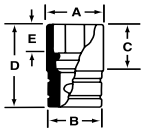


RTSM15

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® LOW-PROFILE SOCKETS





RT101

Low-Profile Socket Sets, Inches



110RT

							110RT	112RTA
12	12	A	B	C	D	E	12	12
3/16	RT61	5/16	15/32	11/32	25/32	3/32	•	•
7/32	RT71	11/32	15/32	3/8	13/16	3/32	•	•
1/4	RT81	3/8	15/32	5/16	3/4	1/8	•	•
9/32	RT91	13/32	15/32	5/16	3/4	1/8	•	•
5/16	RT101	15/32	15/32	5/16	3/4	5/32	•	•
11/32	RT111	1/2	15/32	13/32	9/32	3/16	•	•
3/8	RT121	17/32	15/32	9/32	11/16	3/16	•	•
7/16	RT141	19/32	15/32	1/4	11/16	3/16	•	•
1/2	RT161	11/16	15/32	7/32	23/32	7/32	•	•
9/16	RT181	3/4	15/32	1/4	3/4	1/4	•	•
	RAT72A	11 mm Internal Hex Low-Profile						•
	RTMBS8	Magnetic Bit Holder for the Low Profile RAT72A						•

Sets shown include storage tray.



RAT72A

Low-Profile Socket Sets, mm

- Special low-profile ratchet square drive design works with low-profile sockets to access tight clearance areas with no loss of strength
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes easy to wipe clean
- Sockets can be used with 1/4″ extensions or any 1/4″ ratchet

RAT72A 1/4″ Drive Dual 80® Technology 11 mm Internal Hex Low-Profile Ratchet

- Special low-profile square drive design works with low-profile sockets to access restricted clearance areas with no loss of strength
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth to provide extra access in confined areas
- Six teeth in contact with gear to provide strength and durability



SDMS17



RTMBS8

Stubby Bits and Bit Holder for Low-Profile Ratchets

RTMBS8 Low-Profile Magnetic 1/4″ Shank Bit Holder

- Magnetic Bit Holder for the Low-Profile RAT72A Ratcheting Wrench
- Special alloy steel provides the highest match of strength and durability
- Nickel-chrome plating provides corrosion resistance
- Holds any 1/4″ shank bit: SAE and metric hex bits, TORX®, and ball TORX®, PHILLIPS® and straight bits
- Fits in any 11 mm ratcheting wrench
- Perfect for tight and compact applications found on automotive, motorcycle, ATV and aviation. Examples of some automotive applications: heater boxes and motor actuators in dash of vehicle, A/C work and on top of dashboard where the windshield meets the dash

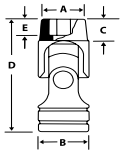
Stubby Bits and Bit Holder for Low-Profile Ratchets

Description	Stock No.	Size	Set Contains: SDMS17
Flat Tip	SDMS213	1/4″	•
PHILLIPS®	SDMS222IR	#2	•
Metric Hex	SDMSM3	3 mm	•
	SDMSM4	4 mm	•
	SDMSM5	5 mm	•
	SDMSM6	6 mm	•
	SDMSM8	8 mm	•
Inch Hex	SDMS8	1/8″	•
	SDMS9	9/64	•
	SDMS10	5/32″	•
	SDMS12	3/16″	•
	SDMS16	1/4″	•
TORX®	SDMST15	T15	•
	SDMST20	T20	•
	SDMST25	T25	•
	SDMST27	T27	•
	SDMST30	T30	•

Set includes storage tray.



111TMUSMA



Shallow Universal, mm, Chrome

Set Contains:							111TMUSMA	106TMUSMA
mm	6	12	A	B	D	E	6	6
5	TMUSM5A*	TMUM5A*	8.3	12.7	28.6	3.2		
5.5	TMUSM5.5A	—	8.5	12.7	29.2	3.6	•	
6	TMUSM6A	TMUM6A	9.6	12.7	29.7	3.8	•	
7	TMUSM7A	TMUM7A	10.7	12.7	30.5	4.3	•	
8	TMUSM8A	TMUM8A	11.8	12.7	30.5	4.8	•	•
9	TMUSM9A	TMUM9A	12.7	12.7	31.2	4.8	•	
10	TMUSM10A	TMUM10A	14.0	12.7	32.5	5.8	•	•
11	TMUSM11A	—	15.4	12.7	33.0	6.6	•	
12	TMUSM12A	TMUM12A	16.5	12.7	34.5	6.9	•	•
13	TMUSM13A	TMUM13A	17.3	12.7	36.8	7.6	•	•
14	TMUSM14A	—	19.1	12.7	38.9	8.3	•	•
15	TMUSM15A	—	20.6	12.7	41.3	8.7	•	•

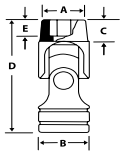
Sets shown include storage tray.



TMUM8A



106TMUSA



Shallow Universal, Inches, Chrome

Set Contains:									106TMUA	106TMUSA
	6	12	12	A	B	C	D	E	6	12
3/16	—	TMU61A*	—	5/16	1/2	25/64	1-1/4	15/64		
7/32	—	TMU71A*	GTMU71A	11/32	1/2	25/64	1-1/4	15/64		
1/4	TMUS81A	TMU81B	—	25/64	1/2	25/64	1-1/4	7/32	•	•
9/32	—	TMU91A	—	27/64	1/2	33/64	1 9/32	17/64		
5/16	TMUS101A	TMU101A	—	15/32	1/2	35/64	1-5/16	17/64	•	•
11/32	—	TMU111A	—	1/2	1/2	9/16	1-11/32	17/64		
3/8	TMUS121A	TMU121A	—	9/16	1/2	39/64	1-3/8	17/64	•	•
7/16	TMUS141A	TMU141A	GTMU141A	39/64	1/2	41/64	1-7/16	21/64	•	•
1/2	TMUS161A	TMU161A	—	5/16	1/2	25/64	1-1/4	15/64	•	•
9/16	TMUS181A	TMU181A	—	3/4	1/2	3/4	1-17/32	7/32	•	•

*Conventional hex

Sets shown include storage tray.



TMUS161A



GTMU141A

Deep Universal, mm, Chrome

mm	12	A	B	D	E
10	STMUM10A	14.3	12.7	40.5	5.6



STMUM10A

Deep Universal, Inches, Industrial

	12	A	B	D	E
5/16	GSTMU101A	1/2	1/2	1-25/32	17/64



GSTMU101A

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

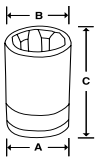
TORX® SOCKETS



213AFLEY



106RTLE



Shallow TORX®, Chrome

#	Stock No.	A	B	C	Set Contains: 210AFLEY	Set Contains: 213AFLEY
E4	TLE40A	7/16	7/8	17/64	•	•
E5	TLE50A	7/16	7/8	19/64	•	•
E6	TLE60A	7/16	7/8	21/64	•	•
E7	TLE70A	7/16	7/8	23/64	•	•
E8	TLE80A	7/16	7/8	27/64	•	•
E10	TLE100A	1/2	7/8	7/16		•
E12	TLE120A	35/64	35/64	7/8		

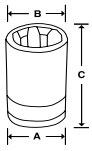
Sets shown include magnetic storage tray.

210AFLEY 10 pc Combination Drive TORX® Shallow Socket Set
- Includes (10) sockets—1/4″ drive (E4–E8) and 3/8″ drive (E10–E18)

213AFLEY 13 pc Combination Drive TORX® Shallow Socket Set
- Includes (13) sockets– 1/4″ drive (E4–E10), 3/8″ drive (E11–E14), and 1/2″ drive (E16–E24)



STLE70



Deep TORX®, Chrome

#	Stock No.	A	B	C
E4	STLE40	15/32	9/32	2
E5	STLE50	15/32	5/16	2
E7	STLE70	31/64	3/8	2
E8	STLE80	15/16	13/32	2

STLE70 1/4″ Drive TORX® E7 Deep Socket
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- For removing and installing vacuum pumps on BMW® N63 V8 engines without removing the catalytic converter, saving technician an average of two hours

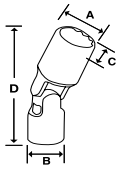
Low-Profile Inverted TORX®, Chrome

#	Stock No.	A	B	C	Set Contains: 106RTLE
E4	RTLE40	12.1	6.7	16.5	•
E5	RTLE50	12.1	7.7	16.5	•
E6	RTLE60	12.1	8.4	16.5	•
E7	RTLE70	12.1	9.3	16.5	•
E8	RTLE80	12.1	10.5	16.6	•
E10	RTLE100	12.1	12.1	17.4	•

Set shown includes storage tray.



TSE120



Universal TORX®, Chrome

#	Stock No.	A	B	D
E8	TSE80	27/64	1/2	1-9/32
E10	TSE100	1/2	1/2	1-11/32
E12	TSE120	9/16	1/2	1-3/8

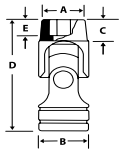
TSE80 1/4″ Drive TORX® E8 Universal Socket
- Applications include Mercedes-Benz® turbo chargers, crankshaft position sensor, sensors and intake bolts, bell housing bolts and ignitions switch
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability

TSE100 1/4″ Drive TORX® E10 Universal Socket
- Applications include Mercedes-Benz® oil pan bolts, interior and engine fasteners, water pumps, power steering pumps and engine covers on newer models
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability

FLANK DRIVE® HIGH-PERFORMANCE SOCKETS



TDHU81B



Universal, Inches, Chrome (1/4″)

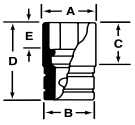
Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

12	Stock No.	A	B	D	E
1/4	TDHU101B	15/32	1/2	1-11/32	1/4
5/16	TDHU121B	17/32	1/2	1-7/16	5/16
3/8	TDHU81B	13/32	1/2	1-7/32	1/4

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.



TES10B



Shallow, Inches, Chrome (1/4″)

		A	B	C	D	E
#7	**TES7B**	11/32	7/16	15/32	15/16	7/32
#8	**TES8B**	3/8	7/16	15/32	15/16	9/32
#9	**TES9B**	7/16	7/16	—	15/16	—
#10	**TES10B**	15/32	15/32	—	15/16	11/32
#12	**TES12B**	35/64	35/64	19/32	59/64	23/64
#14	**TES14B**	5/8	39/64	23/32	1-3/64	7/16



TESU10B



TESU8B

Shallow Universal, Inches, Chrome (1/4″)

		A	B	C	D	E
1/4	**TESU8B**	3/8	1/2	13/32	1-7/32	7/32
5/16	**TESU10B**	15/32	1/2	1/2	1-11/32	9/32



209TFES

Shallow, Inches, Chrome (3/8″)

209TFES 9 pc Combination Drive
SAE Shallow Spline Socket Set

- Includes 1/4″ drive TES7B–TES10B and 3/8″ drive FES120B–FES200B Shallow Spline Sockets (9 pc) (#7–20, 7/32–5/8″) in magnetic socket tray

Torque Adaptors, mm (1/4″ Drive)



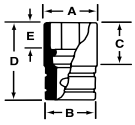
TRDHM6

		A	B	C	D	E
6	**TRDHM6**	9.5	11.9	6.6	6.6	25.4
7	**TRDHM7**	9.5	11.9	6.6	6.6	25.4
8	**TRDHM8**	9.5	11.9	6.6	6.6	25.4

Chrome tools comply with AS954, Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the *Snap-on* Flank Drive® wrenching system.



TEL10B



Deep, Inches, Chrome (1/4″)

		A	B	C	D	E
#7	**TEL7B**	11/32	7/16	1-17/32	2	7/32
#8	**TEL8B**	3/8	7/16	1-17/32	2	9/32
#10	**TEL10B**	15/32	15/32	1-17/32	2	11/32



207TFEL

Deep, Inches, Chrome (3/8″)

207TFEL 7 pc Combination Drive
SAE Deep Spline Socket Set

- Includes 1/4″ drive TEL7B–TEL10B and 3/8″ drive FEL120B–FEL200B Deep Spline Sockets (7 pc) (#7–20, 7/32–5/8″) in magnetic socket tray



TELM7B

Deep, Metric, Chrome (1/4″)

		A	B	C	D	E
#7	**TELM7B**	10.4	10.9	36.3	50.8	7.3
#8	**TELM8B**	11.7	11.7	36.3	50.8	8.8
#10	**TELM10B**	11.7	11.7	36.3	50.8	8.8



TTA35

Torque Adaptor

TTA35 1/4″ Drive Female/Male Torque Adaptor

- Manufactured from special steel with higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability
- 3.5″ long, center to center

SPECIAL APPLICATION SOCKETS

Swivel Ball Extension Sockets, mm, Industrial

PTSXM607 1/4″ Drive 6-Point Metric 7 mm Swivel Ball Extension Power Socket

- Designed to be used on Ford® coilover plug retaining screws on V6, V8 and V10 Triton® engines
- Great for difficult-to-access-areas, where the use of one tool works better than three (socket, swivel, and extension)
- 30° uninterrupted swivel action means greater accessibility in tight quarters, allowing easier, faster removal of stubborn fasteners and time savings
- Laser welded pivot pin allows smooth, full 30° swivel action for efficient power transfer at any angle with no loss in torque output, prolonging the life of the socket
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion



PTSXM607

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION SOCKETS



S6810



106FLIPSET

Flip Sockets

106FLIPSET 6 pc 1/4″ Drive 12-Point Metric Semi-Deep Flip Socket Set

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12 pt) allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Set includes 8/10, 9/11, 12/14 and 13/15 mm flip sockets, 2 and 6″ long Hex-to-Square Adaptors
- Great starter set for cordless screwdrivers
- BMW® vehicles use 30 fasteners that are a combination of 8 mm and 10 mm that hold the underbelly pans on various vehicles, providing the convenience of one tool to work on both sizes
- Lexus® vehicles use 10 mm fasteners
- Infiniti® and Mercedes® vehicles use 8 mm fasteners
- Splash shields on Chevrolet® Cruze® vehicles and Buick® Verano® vehicles use 8 mm fasteners
- S6911 9 mm/11 mm Flip Socket: use on 9 and 11 mm fasteners found in applications for European vehicles
- S61214 12 mm/14 mm Flip Socket: use on 12 and 14 mm fasteners found in numerous applications on Asian vehicles
- S61315 13 mm/15 mm Flip Socket: use on 13 and 15 mm fasteners found in numerous applications on US vehicles

S61214 1/4″ Drive 12-Point Metric 12 and 14 mm Semi-Deep Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 12 and 14 mm fasteners found in numerous applications on Asian vehicles

S61315 1/4″ Drive 12-Point Metric 13 and 15 mm Semi-Deep Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 13 and 15 mm fasteners found in numerous applications on US vehicles

S6810 1/4″ Drive 12-Point Metric 8 and 10 mm Semi-Deep Flip Socket

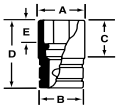
- Double hex (12-point) allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- For removing and installing underbelly pans on various vehicles
- BMW® vehicles use 30 fasteners that are a combination of 8 and 10 mm that hold the underbelly pans on various vehicles, providing the convenience of one tool to work on both sizes
- Lexus® vehicles use 10 mm fasteners
- Infiniti® and Mercedes-Benz® vehicles use 8 mm fasteners
- Splash shields on Chevrolet® Cruze® vehicles and Buick® Verano® vehicles use 8 mm fasteners
- Manufactured from special alloy steel and heat treated for optimum strength
- 1.44″ long

S6911 1/4″ Drive 12-Point Metric 9 and 11 mm Semi-Deep Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 9 and 11 mm fasteners found in numerous applications on European vehicles



TM408

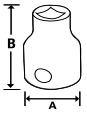


Double Square, Chrome

	Stock No.	A	B	C	D	E
1/4	**TM408**	15/32	15/32	17/32	7/8	1/4
5/16	**TM410**	9/16	17/32	17/32	7/8	9/32
3/8″	**TM412**	21/32	5/8	17/32	7/8	5/16



PMP303



Pipe Plug, mm

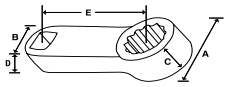
1/4″ Drive Metric 3 mm Pipe Plug Socket

- Used to adjust the intake and exhaust valve rocker arms on Mercury Marine® four-stroke outboard motors
- Motor sizes: 10, 15, 20, 25 and 30 HP
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

Torque Adaptors, mm

1/4″ Drive 12-Point Metric 6 mm Torque Adaptor

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1″ center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks



mm	12	A	B	C	D	E
6	**TRDHM6**	9.5	11.9	6.6	6.6	25.4
7	**TRDHM7**	9.5	11.9	6.6	6.6	25.4
8	**TRDHM8**	9.5	11.9	6.6	6.6	25.4



TRDHM7

Torque Adaptors, SAE (1/4″ Drive)

Stock No.	Description	A	B	C	D	E
TRDHL101	1/4″ Drive 5/16″ SAE Torque Adaptor	1/2 (12.7)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
TRDHL121	1/4″ Drive 3/8″ SAE Torque Adaptor	37/64 (14.68)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
TRDHL141	1/4″ Drive 7/16″ SAE Torque Adaptor	43/64 (17.1)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
TRDHL81	1/4″ Drive 1/4″ SAE Torque Adaptor	13/32 (10.32)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
TRDHLP101	1/4″ Drive 5/16″ SAE DH Low-Profile Torque Adaptor	—	—	—	—	—



TRDHL101

TORX® BIT SOCKETS



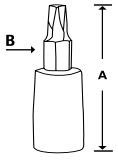
GTTX15E



106TTX



212EFTXY



TORX®/Standard, Chrome (1/4″)

106TTX

Size	Stock No.	Industrial	A	B	
T8	**TTX8E**	**GTTX8E**	1-9/16	**TTX8E2**	•
T10	**TTX10E**	**GTTX10E**	1-9/16	**TTX10E2**	•
T15	**TTX15E**	**GTTX15E**	1-9/16	**TTX15E2**	•
T20	**TTX20E**	**GTTX20E**	1-9/16	**TTX20E2**	•
T25	**TTX25E**	**GTTX25E**	1-9/16	**TTX25E2**	•
T27	**TTX27E**	—	1-9/16	**FTX27E3**	•
T30	**TTX30E**	—	1-9/16	**FTX30E3**	
T40	**TTX40E**	—	1-9/16	**FTX40E3**	

Sets shown include storage tray.

TORX®/Stubby Universal, Chrome (1/4″)

Set Contains: 105TUTX

Size	Stock No.	A	
T20	**TUTX20E**	1-3/4	•
T25	**TUTX25E**	1-3/4	•
T27	**TUTX27E**	1-3/4	•
T30	**TUTX30E**	1-3/4	•
T40	**TUTX40E**	1-3/4	•

Sets shown include storage tray.

TORX®/Standard, Chrome (3/8″)

212EFTXY 12 pc Combination Drive TORX® Bit Standard Socket Set

- Includes 1/4″ drive TTX8E–TTX25E TORX® Drivers plus 3/8″ drive FTX27E–FTX55E TORX® Drivers and FTX47E GM®-style Driver (T8–T55 plus GM®-style T47)



105TUTX

105TUTX 5 pc TORX® Stubby Universal Bit Socket Set

- Numerous other applications for Mercedes-Benz® that require a TORX® Stubby Bit Socket where a TORX® Regular Bit Socket will not fit in T20, T25 and T27
- Includes (5) TORX® Stubby Universal Bit Sockets (T20, T25, T27, T30 and T40)
- Includes storage tray

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

TORX® BIT SOCKETS


TTXB15E


209EFTXBY

TORX®/Heavy-Duty Removal, Chrome (1/4″)

#	Stock No.	A	B
T15	TTXB15E	1-9/16	TTXB15E2
T20	TTXB20E	1-9/16	TTXB20E2
T25	TTXB25E	1-9/16	TTXB25E2

Set shown includes magnetic storage tray.

209EFTXBY 9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set

- Includes 1/4″ drive (T15–T25) and 3/8″ drive (T27–T55) (9 pc)
- Tapered profile provides better engagement on stubborn fasteners


TTXR8E


210EFTXRY

TORX®/Tamper-Resistant, Chrome (1/4″)

#	Stock No.	A	B
TR8	TTXR8E	1-9/16	TTXR8E2
TR10	TTXR10E	1-9/16	TTXR10E2
TR15	TTXR15E	1-9/16	TTXR15E2
TR20	TTXR20E	1-9/16	TTXR20E2
TR25	TTXR25E	1-9/16	TTXR25E2
TR40	TTXR40E	2-1/8	TTXR40E2

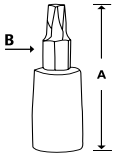
Set shown includes magnetic storage tray.

210EFTXRY 10 pc Combination Drive TORX® Bit Tamper-Resistant Socket Set

- Includes 1/4″ drive (TR8–TR25) and 3/8″ drive (TR27–TR50) (10 pc)


TTXL8E


210EFTXL



TORX®/Long, Chrome (1/4″)

#	Stock No.	A	B
T8	TTXL8E	4-1/16	TTXL8E2
T10	TTXL10E	4-1/16	TTXL10E2
T15	TTXL15E	4-1/16	TTXL15E2
T20	TTXL20E	4-1/16	TTXL20E2
T25	TTXL25E	4-1/16	TTXL25E2

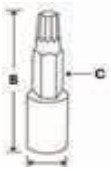
Set shown includes storage tray.

210EFTXL 10 pc Combination Drive TORX® Bit Long Socket Set

- Includes 1/4″ drive (T8–T25) and 3/8″ drive (T27–T50) (10 pc)


TTX8TPE





211EFTXTPY

TORX Plus®/Chrome (1/4″)

TORX Plus® fasteners may be found in almost all vehicles from the 1999 model year to present. Common applications include GM® transmissions bell housing bolts and Ford® seat belt anchors. T27IP size can be used to service Taurus® and Sable® front spring shields. Use of a standard TORX® driver on TORX Plus® fasteners may result in a rounded out fastener head or damaged driver.

#	Stock No.	A	B
8IP	TTX8TPE	1-9/16	TTX8TPE2
10IP	TTX10TPE	1-9/16	TTX10TPE2
15IP	TTX15TPE	1-9/16	TTX15TPE2
20IP	TTX20TPE	1-9/16	TTX20TPE2
25IP	TTX25TPE	1-9/16	TTX25TPE2

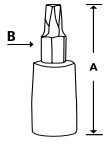
Set shown includes magnetic storage tray.

211EFTXTPY 11 pc Combination Drive TORX® Plus® Bit Socket Driver Set

- Includes 1/4″ drive (8IP–25IP) and 3/8″ drive (27IP–55IP) (11 pc)


TTXR8TPE





211EFTXRTPY

TORX Plus®/Tamper-Resistant, Chrome (1/4″)

#	Stock No.	A	B	211EFTXRTPY Set Contains:
8IPR	TTXR8TPE	1-9/16	TTXR8TPE2	•
10IPR	TTXR10TPE	1-9/16	TTXR10TPE2	•
15IPR	TTXR15TPE	1-9/16	TTXR15TPE2	•
20IPR	TTXR20TPE	1-9/16	TTXR20TPE2	•
25IPR	TTXR25TPE	1-9/16	TTXR25TPE2	•

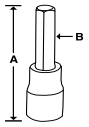
Set shown includes magnetic storage tray.

211EFTXRTPY 11 pc Combination Drive Tamper-Resistant TORX® Plus® Socket Driver Set

- Includes 1/4″ drive (8IPR–55IPR) and 3/8″ Drive (27IPR–55IPR)
- Applications: 2003 Ford® Mustang® transmissions, 2004 Ford® F-150 transfer case, 2004 Porsche® Cayenne® turbo air sensor, Delphi® and Stanadyne® pumps, Cummins® B and C engine injection pumps and John Deere® diesel injector pumps



106ETMAMY



Hex/Standard, mm, Chrome (1/4″)

Set Contains:	106ETMAMY	210EFTAMY

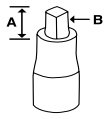
mm		A	B		
2	TMAM2E	47.8	TMAM2E2A	•	•
2.5	TMAM2.5E	47.8	TMAM2.5E2	•	•
3	TMAM3E	47.8	TMAM3E2	•	
4	TMAM4E	47.8	TMAM4E2	•	
5	TMAM5E	47.8	TMAM5E2	•	
6	TMAM6E	47.8	TMAM6E2	•	

Sets include magnetic storage tray.

106ETMAMY 6 pc 1/4″ Drive Metric Standard Hex Bit Socket Set
- Includes (6) metric standard hex bit sockets (2–6 mm)



208EFTAMXSY



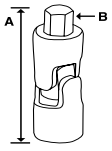
Hex/Stubby, mm, Chrome (1/4″)

Set Contains:	208EFTAMXSY

mm		A	B	
3	TMAMXS3E	26.0	TMAMXS3E2	•
4	TMAMXS4E	27.1	TMAMXS4E2	•
5	TMAMXS5E	28.1	TMAMXS5E2	•
6	TMAMXS6E	29.1	TMAMXS6E2	•

Sets include magnetic storage tray.

208EFTAMXSY 8 pc Combination Drive Metric Hex Bit Stubby Socket Driver Set
- Includes (8) socket drivers—1/4″ drive and 3/8″ drive (3–10 mm)



Hex/Stubby Universal, mm, Chrome (1/4″)

mm		A	B
4	TUAM4E	36.6	TMAMXS4E2
5	TUAM5E	12.7	TMAMXS5E2
6	TUAM6E	12.7	TMAMXS6E2



TUAM4E

Hex/Stubby Universal, Inches, Chrome (1/4″)

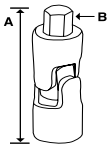
TUA6E 1/4″ Drive 3/16″ Stubby Flex Hex Bit Socket
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Bit TMAXS6E2



TUA6E



208EFTABMY



Ball Hex/Standard, mm, Chrome (1/4″)

Set Contains:	208EFTABMY

mm		A	B	
3	TMABM3E	47.7	TMABM3E2	•
4	TMABM4E	47.6	TMABM4E2	•
5	TMABM5E	47.9	TMABM5E2	•
6	TMABM6E	47.9	TMABM6E2	•

208EFTABMY 8 pc Combination Drive Metric Ball Hex Bit Socket Set
- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4″ drive and 3/8″ drive (3–10 mm), in a magnetic storage tray

Combination Bit Socket Sets

237HEXTORXST 37 pc Combination Drive Socket Driver Set
- Up to 20% stronger than 1 pc bit designs and up to twice ANSI® proof load
- Heat treated for strength and durability
- Precise fit to fasteners and multiple detents for secure drive attachment

- Set includes:

(5) 1/4″ Drive Standard TORX® Bit Sockets
(7) 3/8″ Drive Standard TORX® Bit Sockets
(7) 3/8″ Drive Stubby TORX® Bit Sockets
(3) 3/8″ Drive Triple Square Drivers
(7) 3/8″ Drive Metric Hex Bit Sockets
(4) 1/4″ Drive Stubby Metric Hex Bit Sockets
(4) 3/8″ Drive Stubby Metric Hex Bit Sockets



237HEXTORXST

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

HEX BIT SOCKETS



GTMA3E



110ETMAY



212EFTAY

Hex/Standard, Inches, Chrome (1/4″)

			A	Bit	Optional Long Bit	Optional Long Bit Length, inches	Set Contains: 110ETMAY
1/16	TMA2E	—	1-1/32	TMA2E2	TMAL2E2	6	•
5/64	TMA2.5E	GTMA2.5E	1-1/32	TMA2.5E2A	TMAL2.5E2	6	•
3/32	TMA3E	GTMA3E	1-1/32	TMA3E2A	TMAL3E2	6	•
7/64	TMA3.5E	—	1-1/32	TMA3.5E2A	TMAL3.5E2	6	•
1/8	TMA4E	GTMA4E	1-1/32	TMA4E2	TMAL4E2	6	•
9/64	TMA4.5E	—	1-1/16	TMA4.5E2	TMAL4.5E2	6	•
5/32	TMA5E	GTMA5E	1-1/16	FA5E2	—	—	•
3/16	TMA6E	GTMA6E	1-3/32	FA6E2	—	—	•
7/32	TMA7E	GTMA7E	1-7/8	FA7E2	—	—	•
1/4	TMA8E	GTMA8E	1-7/8	FA8E2	—	—	•

NOTE: Optional long bits are not included in the listed sets. Sets shown include storage tray.

212EFTAY 12 pc Combination Drive SAE Standard Hex Driver Bit Socket Set
- Includes (12) 1/4 and 3/8″ drive Standard Hex Bit Sockets (1/16–3/8″)



208EFTAXSY



208EFTABY

Hex/Stubby, Inches, Chrome (1/4″)

		A	B	Replacement Bit
3/32	TMAXS3E	1-1/32	5/32	TMAXS3E2
9/64	TMAXS4.5E	1-1/16	3/16	TMAXS4.5E2
1/8	TMAXS4E	1-1/32	5/32	TMAXS4E2
5/32	TMAXS5E	1-1/16	3/16	TMAXS5E2
3/16	TMAXS6E	1-3/32	7/32	TMAXS6E2

TMAXS3E 1/4″ Drive SAE 3/32″ Stubby Hex Socket Driver
- For fasteners on Rolls-Royce® commercial aircraft V2500 engines
- A stubby bit socket allows for a positive fit, giving more direct torque when removing or installing these fasteners

208EFTAXSY 8 pc Combination Drive SAE Hex Bit Stubby Socket Driver Set
- Includes (8) 1/4 and 3/8″ drive Stubby Hex Bit Sockets (1/8–3/8″)

Ball Hex/Standard, Inches, Chrome (1/4″)

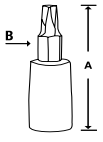
		A	Bit
1/8	TMAB4E	1-7/8	TMAB4E2
9/64	TMAB4.5E	1-7/8	TMAB4.5E2
5/32	TMAB5E	1-7/8	TMAB5E2
3/16	TMAB6E	1-7/8	TMAB6E2

208EFTABY 8 pc Combination Drive SAE Standard Ball Hex Bit Socket Set
- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4″ drive and 3/8″ drive (1/8–3/8″), in a magnetic storage tray

SPECIAL APPLICATION BIT



PTMTS4SE



PTMTS4SE 1/4″ Drive MTS-4 Mortorq® Stubby Bit Socket
- Applications: Connects the fuel cell to the electric motors and other systems on Hyundai® Tucson® IX Fuel Cell Vehicles

Mortorq®/Super Bit

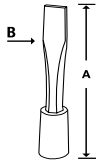
#	Stock No.	A	B
MTS-4	PTMTS4SE	1-11/16	PTMTS4SE2

FLAT TIP AND PHILLIPS® TIP BIT SOCKETS

— Flat Tip/Standard, Chrome (1/4″)

		Stock No.	A	Dimension B, Bit
Standard Length	3/16 x .032	TMC104E	2-7/8	TMC104E2A
	1/4 x .032	TMC105E	2-15/16	TMC105E2A
	3/8 x .042	TMC106E	2-7/8	TMC106E2A
Short	1/4″ x .036	TM82	7/8	TM82-2C


TMC104E



✚ PHILLIPS®/Standard, Chrome (1/4″)

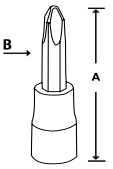
		Stock No.	Industrial Stock No.	A	B, Bit
Standard	#1	TMP12E	GTMP12E	1-7/8	TMP12E2
	#2	TMP22E	—	1-7/8	FP22E2
Short	#2	TMP21E	—	1-1/4	TMP21E2
	#2	TMP82	—	15/16	TMP82-2B
Long	#2	TMP23E	—	3-1/16	TMP23E2


TMP22E


GTMP12E


TMP23E


TMP82

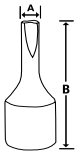


CLUTCH BIT SOCKETS

⬬ Clutch/Standard, Chrome (1/4″)

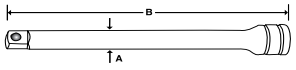
	Stock No.	A	B
3/16″	TM27E	3/16	1-3/8
1/4″	TM30E	1/4	1-3/8
5/32	TM31E	5/32	1-3/8


TM27E



IMPACT ACCESSORIES


103ITMX



Extensions (Impact)

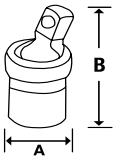
- Features snap-ring anvil for excellent socket-to-extension engagement
- Designed for use with most 1/4" cordless electric and air operated impact tools

Stock No.	Finish	A	B	Set Contains: 103ITMX
ITMX20	Industrial Finish	5/16	2	•
ITMX40	Industrial Finish	5/16	4	•
ITMX60	Industrial Finish	5/16	6	•

Set shown includes storage tray.


IPM80B


IPM800B



Swivel Ball Universal Joint (Impact)

Stock No.	Retention Type	A	B
IPM80B	Lock Button	5/8	1-3/8
IPM800B	Friction Ball	5/8	1-3/8

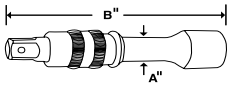
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

IMPACT ACCESSORIES



105TMIXL



Locking Extensions (Impact)

- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands
- Female drive end recessed to accommodate new style impact guns
- Positive pin lock retains socket securely
- Heavy-duty shank for high torque applications

Stock No.	A	B	Set Contains: 105TMIXL
TMIXL122	11/32	11-7/8	•
TMIXL182	11/32	17-3/4	•
TMIXL242	11/32	23-3/4	•
TMIXL32	11/32	2-7/8	•
TMIXL62	11/32	5-7/8	•

Set includes storage tray.

FLANK DRIVE® IMPACT SOCKETS



112IMTMM

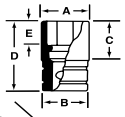
Shallow, mm

mm	6	A	B	C	D	E	Set Contains: 112IMTMM	108IMTMM
4	IMTMM4	7.9	12.7	12.7	22.2	4.0		
4.5	IMTMM4.5	7.9	12.7	12.7	22.2	4.0		
5	IMTMM5	8.5	12.1	13.1	22.2	4.1	•	
5.5	IMTMM5.5	9.3	12.1	13.1	22.2	4.1	•	
6	IMTMM6	10.2	12.1	13.1	22.2	6.1	•	
7	IMTMM7	11.5	12.1	13.1	22.2	6.1	•	
8	IMTMM8	12.7	12.7	13.1	22.2	6.1	•	
9	IMTMM9	14.0	14.0	13.1	22.2	6.1	•	
10	IMTMM10	15.2	15.2	13.0	22.2	6.1	•	
11	IMTMM11	16.4	16.4	12.8	22.2	6.4	•	
12	IMTMM12	17.3	17.3	12.7	22.2	7.1	•	
13	IMTMM13	18.7	18.7	12.5	22.2	7.4	•	
14	IMTMM14	20.3	20.3	13.1	23.0	8.6	•	
15	IMTMM15	21.1	21.1	13.9	23.8	8.9	•	

Set includes magnetic storage tray.



112SIMTMM



Deep, mm

mm	6	A	B	C	D	E	Set Contains: 112SIMTMM
4	SIMTMM4	7.9	12.7	41.3	50.8	4.0	
4.5	SIMTMM4.5	7.9	12.7	41.3	50.8	4.0	
5	SIMTMM5	8.5	12.1	41.9	50.8	4.1	•
5.5	SIMTMM5.5	9.3	12.1	41.9	50.8	4.1	•
6	SIMTMM6	10.2	12.1	41.9	50.8	6.1	•
7	SIMTMM7	11.5	12.1	41.9	50.8	6.1	•
8	SIMTMM8	12.7	12.7	41.9	50.8	6.1	•
9	SIMTMM9	14.0	14.0	41.9	50.8	6.1	•
10	SIMTMM10	15.2	15.2	41.9	50.8	6.1	•
11	SIMTMM11	16.4	16.4	41.9	50.8	6.4	•
12	SIMTMM12	17.3	17.3	41.9	50.8	7.1	•
13	SIMTMM13	18.7	18.7	41.9	50.8	7.4	•
14	SIMTMM14	20.3	20.3	41.9	50.8	8.6	•
15	SIMTMM15	21.1	21.1	41.9	50.8	8.9	•

Set includes magnetic storage tray.



106IMTM

Shallow, inches

"	6	A	B	C	D	E	Set Contains: 106IMTM
1/4	IMTM8A	13/32	1/2	17/32	7/8	1/4	•
5/16	IMTM10A	1/2	1/2	17/32	7/8	1/4	•
3/8	IMTM12A	9/16	1/2	17/32	7/8	1/4	•
7/16	IMTM14A	21/32	1/2	17/32	7/8	1/4	•
1/2	IMTM16A	23/32	1/2	17/32	7/8	9/32	•
9/16	IMTM18A	13/16	1/2	9/16	29/32	11/32	•

Set includes magnetic storage tray.



106SIMTM

Deep, inches

"	6	A	B	C	D	E	Set Contains: 106SIMTM
1/4	SIMTM8	13/32	15/32	1-1/2	2	1/4	•
5/16	SIMTM10	1/2	1/2	1-1/2	2	1/4	•
3/8	SIMTM12	9/16	9/16	1-1/2	2	1/4	•
7/16	SIMTM14	21/32	21/32	1-1/2	2	1/4	•
1/2	SIMTM16	11/16	11/16	1-1/2	2	9/32	•
9/16	SIMTM18	13/16	13/16	1-1/2	2	11/32	•

ASME®/ANSI® B107.2

Set includes magnetic storage tray.

FLANK DRIVE® IMPACT SWIVEL SOCKETS



106IPTMMA

Shallow Swivel, mm

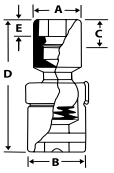
Set Contains: 106IPTMMA

mm	6	A	B	D	E	6
5	**IPTMM5A‡**	8.6	16.6	44.4	4.1	
5.5	**IPTMM5.5A‡**	9.5	16.6	44.8	4.1	
6	**IPTMM6A‡**	10.7	16.6	45.2	4.1	
7	**IPTMM7A‡**	11.5	16.6	46.4	4.3	
8	**IPTMM8A‡**	11.5	16.6	46.4	4.3	•
9	**IPTMM9A‡**	12.8	16.6	47.5	4.8	
10	**IPTMM10A**	14.1	16.6	48.7	5.3	•
11	**IPTMM11A‡**	15.5	16.6	49.9	5.8	
12	**IPTMM12A‡**	17.5	18.9	53.2	6.9	•
13	**IPTMM13A‡**	18.9	18.9	54.4	7.4	•
14	**IPTMM14A‡**	20.5	18.9	56.0	7.9	•
15	**IPTMM15A**	21.3	18.9	56.4	7.9	•

Set includes storage tray.



106IPTMA



Shallow Swivel, inches

Set Contains: 106IPTMA

	6	A	B	C	D	E	6
1/4	**IPTM8A**	7/16	21/32	9/32	1-25/32	5/32	•
5/16	**IPTM10A**	17/32	21/32	11/32	1-7/8	5/32	•
3/8	**IPTM12A**	9/16	21/32	13/32	1-15/16	3/16	•
7/16	**IPTM14A**	21/32	24/32	7/16	2-1/32	1/4	•
1/2	**IPTM16A**	23/32	24/32	9/16	2-5/32	9/32	•
9/16	**IPTM18A**	13/16	24/32	19/32	2-7/32	5/16	•

Set includes storage tray.

SPECIAL APPLICATION IMPACT SOCKETS

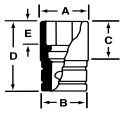
Shallow 10-Point, mm

1/4″ Drive 10-Point Metric 10 mm Shallow Impact Socket
- Body: Remove/install seat tracks on Honda® Odyssey® and Pilot
- Forged from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

DPTM10 1/4″ Drive 10-Point Metric 10 mm Shallow Impact Socket
DPTM8 1/4″ Drive 10-Point Metric 8 mm Shallow Impact Socket



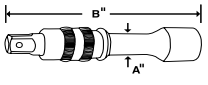
DPTM10



POWER ACCESSORIES

Locking Power Adaptors

- Use with electric/cordless drills and screwdrivers that accept 1/4″ shanks
- Manufactured from the highest quality proprietary steel providing optimum strength and durability
- Knurled sleeve provides easy attachment and removal of sockets even with the greasiest hands
- One-handed lock mechanism with ball retention ensures socket retention and allows for faster socket attachment and removal
- Black oxide finish helps protect against corrosion for longer tool life





103TMLPA

Set Contains: 103TMLPA

Stock No.	A	B	
TMLPA2	1/4	2	•
TMLPA4	1/4	4	•
TMLPA6	1/4	6	•

Set includes storage tray.

⚠WARNING

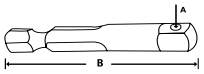
- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use power accessories with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

POWER ACCESSORIES



GM3048

Hex-to-Square Adaptors (Power)



- 1/4" hex size; 1" length of hex

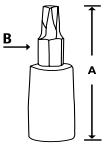
Stock No.	A	B
GM3042A	Lock Button	2
GM3043	Lock Button	4
GM3046	Lock Button	6
GM3048	Lock Button	8



TTX20E2



PTTX20E



TORX®/Standard (Power), Industrial (1/4″)

#	Stock No.	A	B
T20	PTTX20E	1-9/16	TTX20E2
T25	PTTX25E	1-9/16	TTX25E2

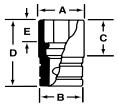
FLANK DRIVE® MAGNETIC SOCKETS

Shallow Magnetic, mm

- Magnetic sockets are perfect for installing and removing a fastener as the magnetic feature will hold the fastener in the socket saving time and frustration
- Square drive side hole works with ball- or pin-type retention
- Flank Drive® wrenching system grips the fastener on the socket flanks (flats) to deliver up to 15–25% more turning power
- MGMM series sockets are not designed to be used with Impact Drivers



110MGMM



Set Contains: 110MGMM

mm	6	A	B	D	E	6
5	MGMM5	8.4	12.1	22.8	4.6	•
5.5	MGMM5.5	9.3	12.1	22.8	5.1	•
6	MGMM6	10.2	12.1	22.8	6.1	•
7	MGMM7	11.5	12.1	22.8	6.1	•
8	MGMM8	12.7	12.7	23.8	6.1	•
10	MGMM10	15.2	15.2	23.8	6.1	•
12	MGMM12	17.3	17.3	23.8	6.4	•
13	MGMM13	18.9	18.9	23.8	7.9	•
14	MGMM14	20.5	20.5	23.8	8.6	•
15	MGMM15	21.3	21.3	23.8	8.6	•

FLANK DRIVE® MAGNETIC POWER SOCKETS



MGM10C

Shallow Magnetic, inches

11	6	A	B	D	E
1/4	MGM8D	7/16	1/2	7/8	3/32
5/16	MGM10C	1/2	1/2	15/16	3/32
3/8	MGM12C	9/16	19/32	15/16	1/8
7/16	MGM14C	11/16	11/16	15/16	1/8



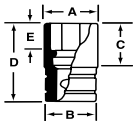
MGMMS10A

Deep Magnetic/ Spring Loaded, mm

mm	6	A	B	D	E
7	MGMMS7A	10.7	12.4	50.8	5.8
8	MGMMS8A	11.8	12.4	50.8	5.8
10	MGMMS10A	14.1	14.1	50.8	6.4
11	MGMMS11B	15.6	15.6	50.8	6.4
12	MGMMS12B	17.3	17.3	50.8	7.1
13	MGMMS13A	18.1	18.1	50.8	7.6



MGMS10A



Deep Magnetic/ Spring Loaded, inches

11	6	A	B	D	E
5/16	MGMS10A	3/8	15/32	2	5/16
1/4	MGMS8A	3/8	7/16	2	3/32



108RATEXFR01



106BTMXFR



RAT2THLLFFR

1/4″ Drive Flex Head Ratchet and Extension Foam Sets

Stock No.	Description	108RATEXFR01	106BTMXFR	RAT2THLLFFR
	Set Contains:			
THLF72	Long Soft Grip Handle Flex Head	•		•
THLLF72	Extra-Long Soft Grip Handle Flex Head	•		•
TMX1	1/4″ Drive 1-1/4″ Extension	•	•	
TMXK110	1/4″ Drive 11″ Knurled Extension	•	•	
TMXK2	1/4″ Drive 2″ Knurled Extension	•	•	
TMXK4	1/4″ Drive 4″ Knurled Extension	•	•	
TMXK60	1/4″ Drive 6″ Knurled Extension	•	•	
TMXK80	1/4″ Drive 8″ Knurled Extension	•	•	

1/8" DRIVE GENERAL SERVICE SET

1605TA General Service Set

	Stock No.	Description
3/32	T6	1/8″ Drive 6-Point SAE 3/32″ Socket
1/8	T8	1/8″ Drive 6-Point SAE 1/8″ Socket
5/32	T10	1/8″ Drive 6-Point SAE 5/32″ Socket
3/16	T12	1/8″ Drive 6-Point SAE 3/16″ Socket
—	T40A	1/8″ Drive Handle



1605TA

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS

Handles, Chrome

Seven Tools, includes:

Stock No.	Description
T72	Standard Handle
TMU8B	1/4" Drive Universal Joint
TMXK2	1/4" Drive 2" Knurled Extension
TMXK4	1/4" Drive 4" Knurled Extension
TMXK60	1/4" Drive 6" Knurled Extension
TM10G	1/4" Drive 6" Breaker Bar
SGT4BR	1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver

107ATMPB Expandable General Service Set and Additions

- Start with the 107ATMPB General Service Set and add any of the suggested socket sets below to custom build exactly the 1/4" drive set you need
- The storage case has a large enough cavity to accommodate two rows of sockets—standard, semi-deep, deep, universal or any combination of these in SAE or metric sizes



107ATMPB

Set (Add-on):

Suggested Additions Not Included in Set:	Stock No.	Description
	110TMY	10 pc 1/4" Drive 6-Point SAE Flank Drive® Shallow Socket Set
	110STMY	10 pc 1/4" Drive 6-Point SAE Flank Drive® Deep Socket Set
	111TMMDY	11 pc 1/4" Drive 12-Point Metric Flank Drive® Shallow Socket Set
	111STMMDY	11 pc 1/4" Drive 12-Point Metric Flank Drive® Deep Socket Set
	106ETMAMY	6 pc 1/4" Drive Metric Standard Hex Bit Socket Set



131TMPB



117TMM

131TMPB 31 pc 1/4" Drive 6-Point Metric Shallow General Service Socket Set

31 Tools, Includes:

mm	6-Point Shallow Sockets	6-Point Deep Sockets
5	TMM5	STMM5
5.5	TMM5.5	STMM5.5
6	TMM6	STMM6
7	TMM7	STMM7
8	TMM8	STMM8
9	TMM9	STMM9
10	TMM10	STMM10
11	TMM11	STMM11
12	TMM12	STMM12
13	TMM13	STMM13
14	TMM14	STMM14
15	TMM15	STMM15

Also Includes:	Stock No.	Description
	TMXK60	1/4" Drive 6" Knurled Extension
	TMXK2	1/4" Drive 2" Knurled Extension
	T72	Standard Handle
	TM10G	1/4" Drive 6" Breaker Bar
	TMU8B	1/4" Drive Universal Joint
	SSDMR4B	8-3/4" Ratcheting Standard Screwdriver
	GMB3041	1/4" Hex-To-1/4" Square Adaptor

117TMM* 17 pc 1/4" Drive 6-Point Metric Starter Socket Set

17 Tools, Includes:

mm	6-Point Shallow Sockets
4	TMM4
5	TMM5
5.5	TMM5.5
6	TMM6
7	TMM7
8	TMM8
9	TMM9
10	TMM10
11	TMM11
12	TMM12
13	TMM13
14	TMM14
15	TMM15

Also Includes:	Stock No.	Description
	T72	Standard Handle
	TMU8B	1/4" Drive Universal Joint
	TMXK2	1/4" Drive 2" Knurled Extension
	TMXK4	1/4" Drive 4" Knurled Extension

*Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



144TMPB

144TMPB 44 pc 1/4″ Drive 6-Point Metric/SAE General Service Set

44 Tools, Includes:

mm	6-Point Shallow Sockets		6-Point Shallow Sockets	mm	6-Point Deep Sockets		6-Point Deep Sockets
5.5	**TMM5.5**	3/16	**TM6***	5.5	**STMM5.5**	3/16	**STM6**
6	**TMM6**	7/32	**TM7***	6	**STMM6**	7/32	**STM7**
7	**TMM7**	1/4	**TM8**	7	**STMM7**	1/4	**STM8**
8	**TMM8**	9/32	**TM9**	8	**STMM8**	9/32	**STM9**
9	**TMM9**	5/16	**TM10**	9	**STMM9**	5/16	**STM10**
10	**TMM10**	11/32	**TM11**	10	**STMM10**	11/32	**STM11**
11	**TMM11**	3/8	**TM12**	11	**STMM11**	3/8	**STM12**
12	**TMM12**	7/16	**TM14**	12	**STMM12**	7/16	**STM14**
13	**TMM13**	1/2	**TM16**	13	**STMM13**	1/2	**STM16**
14	**TMM14**	9/16	**TM18**	14	**STMM14**	9/16	**STM18**

*Conventional hex

Also Includes:	Stock No.	Description
	T72	Standard Handle
	TMU8B	1/4″ Drive Universal Joint
	TMXK2	1/4″ Drive 2″ Knurled Extension
	TMXK60	1/4″ Drive 6″ Knurled Extension
	PB99A	Storage Case





134ATMP

134ATMP 34 pc 1/4″ Drive 6-Point SAE Shallow/Deep General Service Socket Set

34 Tools, Includes:

	6-Point Shallow Sockets		6-Point Deep Sockets
3/16	**TM6***	3/16	**STM6**
7/32	**TM7***	7/32	**STM7**
1/4	**TM8**	1/4	**STM8**
9/32	**TM9**	9/32	**STM9**
5/16	**TM10**	5/16	**STM10**
11/32	**TM11**	11/32	**STM11**
3/8	**TM12**	3/8	**STM12**
7/16	**TM14**	7/16	**STM14**
1/2	**TM16**	1/2	**STM16**
9/16	**TM18**	9/16	**STM18**

Also Includes:	Stock No.	Description
	T72	Standard Handle
	TMU8B	1/4″ Drive Universal Joint
	TMXK2	1/4″ Drive 2″ Knurled Extension
	TMXK4	1/4″ Drive 4″ Knurled Extension
	TMXK60	1/4″ Drive 6″ Knurled Extension
	SGT4BR	1/4″ Drive 6-13/16″ Instinct® Soft Grip Standard Shank Driver
	TM10G	1/4″ Drive 6″ Breaker Bar
	TM61A	1/4″ Drive 6″ Flexible Extension
	TM77	1/4″ Drive 20-Tooth Ratchet Adaptor
	TM82	1/4″ Drive 1/4″ Flat Tip Short Bit Socket
	TM408	1/4″ Drive 8-Point 1/4″ Double Square Socket
	TM410	1/4″ Drive 8-Point 5/16″ Double Square Socket
	TM412	1/4″ Drive 8-Point 3/8″ Double Square Socket
	TMS70A	1/4″ Drive Spinner Ratchet

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS



114ATMP

114ATMP 14 pc 1/4″ Drive 6-point SAE Shallow General Service Socket Set

14 Tools, Includes:

	6-Point Shallow Sockets
3/16	TM6
7/32	TM7
1/4	TM8
9/32	TM9
5/16	TM10
11/32	TM11
3/8	TM12
7/16	TM14
1/2	TM16
9/16	TM18

Also Includes:	Stock No.	Description
	T72	Standard Handle
	TMU8B	1/4″ Drive 1-1/8″ Friction Ball Universal Joint
	TMXK2	1/4″ Drive 2″ Knurled Extension
	TMXK4	1/4″ Drive 4″ Knurled Extension



120DTMPB

120DTMPB 20 pc 1/4″ Drive 6-Point SAE Shallow General Service Socket Set

20 Tools, Includes:

	6-Point Shallow Sockets
3/16	TM6
7/32	TM7
1/4	TM8
9/32	TM9
5/16	TM10
11/32	TM11
3/8	TM12
7/16	TM14
1/2	TM16
9/16	TM18

Also Includes:	Stock No.	Description
	TM4CSA	1/4″ Drive 6″ Standard Shank Driver
	TM10G	1/4″ Drive 6″ Breaker Bar
	TM408	1/4″ Drive 8-Point 1/4″ Double Square Socket
	TM410	1/4″ Drive 8-Point 5/16″ Double Square Socket
	TM412	1/4″ Drive 8-Point 3/8″ Double Square Socket
	T72	Standard Handle
	TMU8B	1/4″ Drive 1-1/8″ Friction Ball Universal Joint
	TMXK2	1/4″ Drive 2″ Knurled Extension
	TMXK4	1/4″ Drive 4″ Knurled Extension
	TMXK60	1/4″ Drive 6″ Knurled Extension

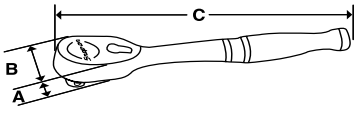
RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



BPRTR936



BPRTR936SG



Quick-Release Ratchets (Blue-Point®) (1/4″)

Stock No.	Description	Gear Teeth	Gear Action	A	B	C	Ratchet Service Kit
BPRTR936	1/4″ Drive Standard Handle Quick-Release Ratchet (Blue-Point®)	36	10°	15/32	31/32	5-5/8	RKRBPRTR936
BPRTR936SG	1/4″ Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®)	36	10°	15/32	31/32	5-5/8	RKRBPRTR936

ASME®/ANSI® B107.10

BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)
- 1/4″ Drive BPRTR936, 3/8″ Drive BPRFR938 and 1/2″ Drive BPRSR940 Ratchets (3 pc) in a storage tray

BPRTR936SG 1/4″ Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®)
- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Corrosion-resistant bi-mold cushion grips for improved comfort and performance
- Chrome finish for easy clean up

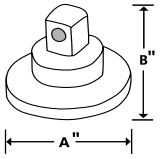

FSDR


FSD14


FSD38


FSDR1


BLPSD14



Ratchet Spinner (Blue-Point®) (1/4″)

Stock No.	Square Drive, inches	Description	A	B
FSDR‡	1/4 Male to 1/4 Female	1/4″ External Drive/1/4″ Internal Square Drive Finger Ratchet (Blue-Point®)	1-1/8	1-7/16
FSD14‡	3/8 Male to 1/4 Female	3/8″ Drive Male to 1/4″ Drive Female Spinner Adaptor (Blue-Point®)	1	1-1/2
FSD38‡	1/4 Male to 3/8 Female	1/4″ Drive Male to 3/8″ Drive Female Spinner Adaptor (Blue-Point®)	1	1-1/2
FSDR1‡	3/4 Male to 1/4 Female	3/8″ External Drive/1/4″ Internal Square Drive Finger Ratchet (Blue-Point®)	1-1/8	1-7/16
BLPSD14	3/8 Male to 1/4 Female	1/4″ Drive Ratchet Spinner (Blue-Point®)	7/8	27/32

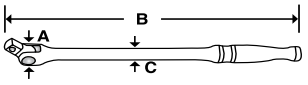
ASME®/ANSI® B107.10

FSD3KT‡ 3 pc Spinner Adaptor Set (Blue-Point®)
- Includes FSD14 (3/8 male to 1/4 female), FSD38 (1/4 male to 3/8 female) and FSD1 (3/8 male to 3/8 male)

FSDR‡ 1/4″ External Drive/1/4″ Internal Square Drive Finger Ratchet (Blue-Point®)
- Reversible finger ratchet; small size works great for extremely tight areas
- Aluminum knurled outer ring for sure grip
- 1/4″ drive on one side and 1/4″ hex drive on other side

Breaker Bars (Blue-Point®) (1/4″)


BLPBB146



Stock No.	Description	A	B	C
BLPBB146	1/4″ Drive 6″ Breaker Bar	5/8	6	3/8

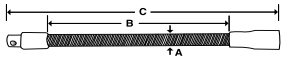

BLPCGHD146


BLPEXTF146

Handled Drivers (Blue-Point®)

Stock No.	Length, inches	Blade Length, inches	Shank Dia., inches	Square Drive, inches
BLPCGHD146	6	2-1/2	5/16	1/4

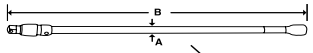
Flexible Extensions (Blue-Point®)



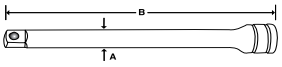
Stock No.	A	B	C
BLPEXTF146	5/16	3-5/8	6


BLPTXK1.5


103TMXLBP



Knurled Extensions (Blue-Point®)



Stock No.	B
BLPTXK1.5	1-9/16
BLPTXK2	2-3/32
BLPTXK3	2-15/16
BLPTXK4	4
BLPTXK6	6

Locking Extensions, Chrome (Blue-Point®)

Stock No.	B	103TMXLBP Set Contains:
TMXLBP4	4	•
TMXLBP6	6	•
TMXLBP10	10	•

Set shown includes storage tray.

Extra-Long Locking Extensions (Blue-Point®)

1/4″ Drive 12″ Extra-Long Locking Extension (Blue-Point®)
- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Do not use with power or impact tools

Stock No.	Length, inches	Square Drive, inches
BLPEXTL1412	12	1/4
BLPEXTL1418	18	1/4
BLPEXTL1424	24	1/4


BLPEXTL1412


BLPEXTL1418


BLPEXTL1424

⚠WARNING

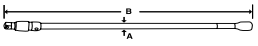
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



YA515A

Set Screw Locking Extensions (Blue-Point®)



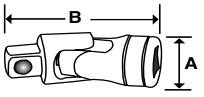
Stock No.	Finish	A	B
YA515A	Chrome	1/2	1-11/16

YA515A 1/4″ Drive 1-11/16″ Set Screw Locking Extension (Blue-Point®)
- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket drivers for overhead work
- Sliding sleeve for easy removal



BLPUJ14

Universal Joints, Chrome (Blue-Point®)



Stock No.	A	B
BLPUJ14	5/8	1-1/2



BLPSM145



BLPSM149



BLPSM1412

Shallow, mm, Chrome (Blue-Point®)

mm	6	Length, mm
4	BLPSM144	24.8
4.5	BLPSM144.5	24.8
5	BLPSM145	24.8
5.5	BLPSM145.5	24.8
6	BLPSM146	24.8
7	BLPSM147	24.8
8	BLPSM148	24.8
9	BLPSM149	24.8
10	BLPSM1410	24.8
11	BLPSM1411	24.8
12	BLPSM1412	24.8
13	BLPSM1413	24.8
14	BLPSM1414	24.8



T9TURBO

Turbo T-Handle Speed Drivers (Blue-Point®)

Stock No.	Description	Handle Type
T9TURBO	1/4″ Square Drive	Turbo T-Handle
TH10TURBO	1/4″ Hex	Turbo T-Handle

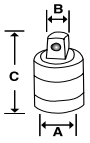
TURBOT103 3 pc 1/4″ Drive Turbo T-Handle Set (Blue-Point®)
- T9TURBO (1/4″ drive), TH10TURBO (1/4″ hex) and F11TURBO (3/8″ drive)
- Three pieces in storage tray



BLPAFM3814



BLPAFM1438



Square Drive Adaptors (Blue-Point®)

Stock No.	Description	A	B
BLPAFM3814	3/8″ Drive Square Drive Adaptor	3/8	1/4
BLPAFM1438	1/4″ Drive Square Drive Adaptor	1/4	3/8



BLPS1414



BLPS14716

Shallow, Inches, Chrome (Blue-Point®)

	6	Length, inches
3/16	BLPS14316	1
7/32	BLPS14732	1
1/4	BLPS1414	1
9/32	BLPS14932	1
5/16	BLPS14516	1
11/32	BLPS141132	1
3/8″	BLPS1438	1
7/16	BLPS14716	1
1/2	BLPS1412	1
9/16	BLPS14916	1
5/8	BLPS1458	1



BLPLSM145



BLPLSM1412



BLPLS1414



BLPLS1412

Deep, mm, Chrome (Blue-Point®)

mm	6	Length, mm
4	BLPLSM144	50
5	BLPLSM145	50
6	BLPLSM146	50
7	BLPLSM147	50
8	BLPLSM148	50
9	BLPLSM149	50
10	BLPLSM1410	50
11	BLPLSM1411	50
12	BLPLSM1412	50
13	BLPLSM1413	50
14	BLPLSM1414	50

Deep, Inches, Chrome (Blue-Point®)

	6	Length, inches
3/16	BLPLS14316	1-31/32
7/32	BLPLS14732	1-31/32
1/4	BLPLS1414	1-31/32
9/32	BLPLS14932	1-31/32
5/16	BLPLS14516	1-31/32
11/32	BLPLS141132	1-31/32
3/8″	BLPLS1438	1-31/32
7/16	BLPLS14716	1-31/32
1/2	BLPLS1412	1-31/32
9/16	BLPLS14916	1-31/32
5/8	BLPLS1458	1-31/32

8-Point, Inches, Chrome (Blue-Point®)

	8	Length, inches
1/4	BLPS81414	1
3/8″	BLPS81438	1
5/16	BLPS814516	1



BLPS81414



122TSTY

Twist Impact, inches/mm

#	Stock No.	Length, inches (mm)	Set Contains: 122TSTY
4.50 mm	TSTY45	1 (25.4)	•
4.75 mm and 3/16″	TSTY47	1 (25.4)	•
5.00 mm	TSTY50	1 (25.4)	•
5.25 mm	TSTY52	1 (25.4)	•
5.50 mm	TSTY55	1 (25.4)	•
5.75 mm	TSTY57	1 (25.4)	•
6.00 mm	TSTY60	1 (25.4)	•
6.25 mm and 1/4″	TSTY62	1 (25.4)	•
6.50 mm	TSTY65	1 (25.4)	•
6.75 mm	TSTY67	1 (25.4)	•
7.00 mm	TSTY70	1 (25.4)	•
7.25 mm and 9/32″	TSTY72	1 (25.4)	•
7.50 mm	TSTY75	1 (25.4)	•
7.75 mm	TSTY77	1 (25.4)	•
8.00 mm and 5/16″	TSTY80	1 (25.4)	•
8.25 mm	TSTY82	1 (25.4)	•
8.50 mm	TSTY85	1 (25.4)	•
8.75 mm and 11/32″	TSTY87	1 (25.4)	•
9.00 mm	TSTY90	1 (25.4)	•
9.25 mm	TSTY92	1 (25.4)	•
9.50 mm and 3/8″	TSTY95	1 (25.4)	•
10.00 mm	TSTY100	1 (25.4)	•



TSTY70

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

TORX® SOCKETS (Blue-Point®)

TORX®/External, Chrome (Blue-Point®)



BLPTE144

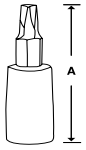
#	Stock No.	Length, inches
E4	**BLPTE144**	1
E5	**BLPTE145**	1
E6	**BLPTE146**	1
E7	**BLPTE147**	1
E8	**BLPTE148**	1

TORX® BIT SOCKETS (Blue-Point®)

TORX®/Standard (Blue-Point®)



BLPT1410



#	Stock No.	A
T6	**BLPT146**	1-7/16
T7	**BLPT147**	1-7/16
T8	**BLPT148**	1-7/16
T9	**BLPT149**	1-7/16
T10	**BLPT1410**	1-7/16
T15	**BLPT1415**	1-7/16
T20	**BLPT1420**	1-7/16
T25	**BLPT1425**	1-7/16
T27	**BLPT1427**	1-7/16
T30	**BLPT1430**	1-7/16



BLPTL1410

TORX®/Long (Blue-Point®)

#	Stock No.	A
T6	**BLPTL146**	3-15/16
T7	**BLPTL147**	3-15/16
T8	**BLPTL148**	3-15/16
T9	**BLPTL149**	3-15/16
T10	**BLPTL1410**	3-15/16
T15	**BLPTL1415**	3-15/16
T20	**BLPTL1420**	3-15/16
T25	**BLPTL1425**	3-15/16
T27	**BLPTL1427**	3-15/16
T30	**BLPTL1430**	3-15/16



BLPTORX1410

✸ TORX®/Stubby, Chrome (Blue-Point®) (1/4″)

Set Contains: BLPTORX1410

#	Stock No.	A	
T10	**BLPTS1410**	3/4	•
T15	**BLPTS1415**	3/4	•
T20	**BLPTS1420**	3/4	•
T25	**BLPTS1425**	3/4	•
T27	**BLPTS1427**	3/4	•
T30	**BLPTS1430**	3/4	•
T40	**BLPTS1440**	3/4	•
T45	**BLPTS1445**	3/4	•
T50	**BLPTS1450**	3/4	•

Set shown includes storage tray.

	Stock No.	A	
T47	**BLPTS1447**	3/4	•

T47 is not a TORX® licensed product.



BLPTS1410TP

✿ TORX®/Tamper-Resistant, Stubby (Blue-Point®) (1/4″)

#	Stock No.	A
TP8	**BLPTS148TP**	3/4
TP10	**BLPTS1410TP**	3/4
TP15	**BLPTS1415TP**	3/4
TP20	**BLPTS1420TP**	3/4
TP25	**BLPTS1425TP**	3/4
TP27	**BLPTS1427TP**	3/4
TP30	**BLPTS1430TP**	3/4
TP40	**BLPTS1440TP**	3/4
TP45	**BLPTS1445TP**	3/4
TP50	**BLPTS1450TP**	3/4

TORX® BIT SOCKETS (Blue-Point®)



BLPT1410TP

TORX®/Tamper-Resistant, Standard (Blue-Point®) (1/4″)

#	Stock No.	A
T6	BLPT146TP	1-7/16
T7	BLPT147TP	1-7/16
T8	BLPT148TP	1-7/16
T9	BLPT149TP	1-7/16
T10	BLPT1410TP	1-7/16
T10	BLPT1440TP	1-7/16
T15	BLPT1415TP	1-7/16
T20	BLPT1420TP	1-7/16
T25	BLPT1425TP	1-7/16
T27	BLPT1427TP	1-7/16
T30	BLPT1430TP	1-7/16



BLPTL1410TP

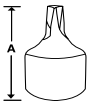
TORX®/Tamper-Resistant, Long, Chrome (Blue-Point®) (1/4″)

#	Stock No.	A
T6	BLPTL146TP	3-15/16
T7	BLPTL147TP	3-15/16
T8	BLPTL148TP	3-15/16
T9	BLPTL149TP	3-15/16
T10	BLPTL1410TP	3-15/16
T15	BLPTL1415TP	3-15/16
T20	BLPTL1420TP	3-15/16
T25	BLPTL1425TP	3-15/16
T27	BLPTL1427TP	3-15/16
T30	BLPTL1430TP	3-15/16

METRIC HEX BIT SOCKETS (Blue-Point®)



BLPHEXS1418



Hex/Stubby, mm, Chrome (Blue-Point®) (1/4″)

mm		A
2	BLPHSM142	19.05
2.5	BLPHSM1425	19.05
3	BLPHSM143	19.05
4	BLPHSM144	19.05
5	BLPHSM145	19.05
6	BLPHSM146	19.05
7	BLPHSM147	19.05
8	BLPHSM148	19.05
9	BLPHSM149	19.05
10	BLPHSM1410	19.05

Set shown includes storage tray.

BLPHEXS1418 18 pc 1/4″ Drive SAE/Metric Stubby Hex Bit Socket Set (Blue-Point®)
- Includes (9) SAE Stubby Hex Bit Sockets (3/32–3/8″) and (9) Metric Stubby Hex Bit Sockets (2–10 mm)



BLPH124

Hex/Standard, mm, Chrome (Blue-Point®) (1/4″)

mm		Length, mm
2.5	BLPH1425	34.9
3	BLPH123	60.3
4	BLPH124	60.3
5	BLPH125	60.3
6	BLPH126	60.3
6	BLPH127	60.3



BLPHL144

Hex/Long, mm (Blue-Point®)

mm		Length, mm
4	BLPHL144	100
5	BLPHL145	100
6	BLPHL146	100

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

HEX BIT SOCKETS (Blue-Point®)



BLPH1414

Hex/Standard, Inches, Chrome (Blue-Point®) (1/4″)

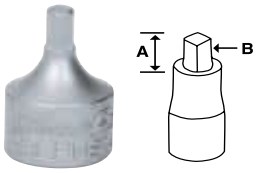
		A
1/8	**BLPH1418**	1-7/16
9/64	**BLPH14964**	1-7/16
5/32	**BLPH14532**	1-7/16
3/16	**BLPH14316**	1-7/16
7/32	**BLPH14732**	1-7/16
1/4	**BLPH1414**	1-7/16
5/16	**BLPH14516**	1-7/16



BLPHL14532

Hex/Long, inches (Blue-Point®)

		Length, inches
1/8	**BLPHL1418**	3-15/16
3/16	**BLPHL14316**	3-15/16
5/32	**BLPHL14532**	3-15/16



BLPHS1414

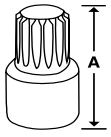
Hex/Stubby, Inches, Chrome (Blue-Point®) (1/4″)

		A
5/64	**BLPHS14564**	3/4
3/32	**BLPHS14332**	3/4
7/64	**BLPHS14764**	3/4
1/8	**BLPHS1418**	3/4
5/32	**BLPHS14532**	3/4
3/16	**BLPHS14316**	3/4
7/32	**BLPHS14732**	3/4
1/4	**BLPHS1414**	3/4
5/16	**BLPHS14516**	3/4
3/8	**BLPHS1438**	3/4

TRIPLE SQUARE BIT SOCKETS (Blue-Point®)



BLPXZN146



Triple Square/Stubby, XZN, Chrome (Blue-Point®) (1/4″)

mm	Stock No.	A
4	**BLPXZN144**	27
5	**BLPXZN145**	27
6	**BLPXZN146**	27
8	**BLPXZN148**	27
10	**BLPXZN1410**	27
12	**BLPXZN1412**	27

POZIDRIV® BIT SOCKETS (Blue-Point®)



BLPPD140

Pozidriv®/Standard, Chrome (Blue-Point®) (1/4″)

1/4″ Drive Pozidriv® #0 Standard Socket Driver (Blue-Point®)

- Manufactured from high-grade steel alloy
- Features a lifetime warranty and exceeds ANSI standards
- All Blue-Point® socket drivers are fully warrantied; no need to replace bits

Size	Stock No.	A
#0	**BLPPD140**	1-27/32
#1	**BLPPD141**	1-27/32
#2	**BLPPD142**	1-27/32
#3	**BLPPD143**	1-27/32

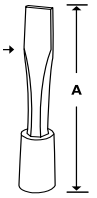
FLAT TIP BIT SOCKETS (Blue-Point®)

Flat Tip/Standard, Chrome (Blue-Point®) (1/4″)

		Stock No.	A
Standard Length	5/32	BLPFT14532	1-7/16
	7/32	BLPFT14732	1-7/16
	9/32	BLPFT14932	1-7/16
Short	1/4	BLPFS1414	3/4
	3/8	BLPFS1438	3/4


BLPFT14732


BLPFS1414



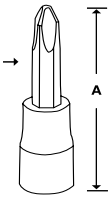
PHILLIPS® TIP BIT SOCKETS

PHILLIPS®/Standard, Chrome (Blue-Point®) (1/4″)

		Stock No.	A
Standard Length	#0	BLPP140	1-7/16
	#1	BLPP141	1-7/16
	#2	BLPP142	1-7/16
	#0	BLPP143	1-7/16
Stubby	#1	BLPPS141	3/4
	#2	BLPPS142	3/4


BLPP140


BLPPS141



HEX BIT SOCKETS

Hex/Stubby, Tamper-Resistant, SAE, Chrome (Blue-Point®) (1/4″)


BLPTHS1414

- All drivers have a hole in the driver tip for tamper proof hex fasteners
- Stubby one-piece impact quality drivers
- Satin chrome plated with bold marking for easy identification
- Heavy-gauge vacuum-formed plastic tray
- All stubby hex drivers are 3/4″ long with 1/4″ square drive
- S2 alloy steel—the strongest, hardest drivers available
- Heat treated to 58-62 RC
- Limited lifetime warranty

		A
1/4	BLPTHS1414	3/4
1/8	BLPTHS1418	3/4
3/16	BLPTHS14316	3/4
3/32	BLPTHS14332	3/4
3/8″	BLPTHS1438	3/4
5/16	BLPTHS14516	3/4
5/32	BLPTHS14532	3/4
7/32	BLPTHS14732	3/4
7/64	BLPTHS14764	3/4

Hex/Stubby, Tamper-Resistant, mm, Chrome (Blue-Point®) (1/4″)


BLPTHSM1410

- All drivers have a hole in the driver tip for tamper-proof hex fasteners
- Stubby one-piece impact quality drivers
- Satin chrome plated with bold marking for easy identification
- Heavy-gauge vacuum-formed plastic tray
- All stubby hex drivers are 3/4″ long with 1/4″ square drive
- S2 alloy steel—the strongest, hardest drivers available
- Heat treated to 58-62 RC
- Limited lifetime warranty

mm	Stock No.	Length, mm
2	BLPTHSM142	19.05
2.5	BLPTHSM1425	19.05
3	BLPTHSM143	19.05
4	BLPTHSM144	19.05
5	BLPTHSM145	19.05
6	BLPTHSM146	19.05
7	BLPTHSM147	19.05
8	BLPTHSM148	19.05
10	BLPTHSM1410	19.05

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

COMBINATION BIT SOCKET SETS (Blue-Point®)



BLPBSS40

Combination Bit Socket Sets (Blue-Point®)

BLPBSS40 40 pc 1/4″ Drive Stubby Bit Socket Set (Blue-Point®)
- Includes (10) Metric Bit Sockets (2–10 mm)
- Includes (10) SAE Bit Sockets (5/64–3/8″)
- Includes (10) TORX® Tamper-Resistant Bit Sockets (TP8–TP50)
- Includes (6) XZN Triple Square Bit Sockets (XZN4–XZN12)
- Includes (2) PHILLIPS® Bit Sockets (#1 and #2)
- Includes (2) Flat Tip Bit Sockets (1/4 and 3/8″)
- Includes storage case



BLPHSSC30

1/2″ Combination Bit Socket Sets (Blue-Point®)

BLPHSSC30 30 pc Combination Drive Hex Bit Socket Driver Set (Blue-Point®)
- Includes (30) Hex Bit Socket Drivers in a storage case
- 1/4″ drive components include (6) SAE Hex Bit Sockets (1/8–1/4″) and (5) Metric Hex Bit Sockets (2.5–6 mm)
- 3/8″ drive components include (5) SAE Hex Bit Sockets (7/32–7/16″) and (5) Metric Hex Bit Sockets (6–10 mm)
- 1/2″ drive components include (4) SAE Hex Bit Sockets (1/2–3/4″) and (5) Metric Hex Bit Sockets (10–19 mm)



BLPTSSC43

BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)
- (5) 1/4″ Drive External TORX® Sockets (E4–E8)
- (10) Tamper-Resistant TORX® Bit Sockets (T6–T30)
- (10) Tamper-Resistant TORX® Long Bit Sockets (T6–T30)
- (4) 3/8″ Drive External TORX® Sockets (E10–E16)
- (3) Tamper-Resistant TORX® Bit Sockets (T40, T45 and T50)
- (3) Tamper-Resistant TORX® Long Bit Sockets (T40, T45 and T50)
- (4) 1/2″ Drive External TORX® Sockets (E18–E24)
- (2) Tamper-Resistant TORX® Bit Sockets (T55 and T60)
- (2) Tamper-Resistant TORX® Long Bit Sockets (T55 and T60)
- (1) storage case



BLPTHC87

BLPTHC87 87 pc TORX® and Hex Bit Socket Driver Set (Blue-Point®)
- Includes (87) TORX® and Hex Bit Socket Drivers (Blue-Point®)
- 1/4″ drive components include (5) External TORX® Sockets (E4–E8), (10) TORX® Bit Sockets (T6–T30), (10) Long TORX® Bit Sockets (T6–T30), (5) Metric Hex Bit Sockets (2.5–6 mm), (3) Long Metric Hex Bit Sockets (4–6 mm), (6) Hex Bit Sockets (1/8–1/4″) and (3) Long Hex Bit Sockets (1/8–3/16″)
- 3/8″ drive components include (4) External TORX® Sockets (E10–E16), (3) TORX® Bit Sockets (T40–T50), (3) Long TORX® Bit Sockets (T40–T50), (5) Metric Hex Bit Sockets (6–10 mm), (4) Long Metric Hex Bit Sockets (7–10 mm), (4) Hex Bit Sockets (7/32–3/8″) and (4) Long Hex Bit Sockets (7/32–3/8″)
- 1/2″ drive components include (4) External TORX® Sockets (E18–E24), (2) TORX® Bit Sockets (T55, T60), (2) Long TORX® Bit Sockets (T55, T60), (5) Metric Hex Bit Sockets (10–19 mm) and (5) Hex Bit Sockets (7/16–3/4″)

General Service Sets (Blue-Point®)

BLPBTWKIT 25 pc 1/4″ Drive Socket/Bit Ratchet Set (Blue-Point®)
- Includes: (10) Metric Shallow Sockets (4–13 mm), (13) assorted Insert Bits, (1) 4″ Extension and (1) 6″ Ratcheting Bit Driver
- Great set for use on the road or at home, utilizing bits and sockets for the most common fastener applications
- Multifunction ratcheting tool drives both 1/4″ sockets and 1/4″ insert bits without need to utilize adaptors
- Push-button release holds sockets securely in place
- Low-profile, easy-action reverse lever won't get in the way
- 10° offset box head provides knuckle clearance
- Tough, durable nickel-chrome looks great and cleans up easily
- Compact storage case with foam insert securely holds tools in place and stores great in tight places like glove boxes, saddlebags, etc.



BLPBTWKIT

BLPGSS1427 27 pc 1/4″ Drive General Service Set (Blue-Point®)
- Great for use at home or on the road
- Set offers a full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® toolbox drawer
- (11) SAE (3/16″ 5/8″) 6-point Shallow Sockets
- (11) SAE (3/16–9/16″) 6-point Deep Sockets
- (3) ratchet/socket accessories
- Quick-Release Ratchet
- Spinner Handle

BLPGSS1427PB Case for BLPGSS1427 (Blue-Point®)



BLPGSS1427

BLPGSS1438 38 pc 1/4″ Drive SAE/Metric General Service Socket Set (Blue-Point®)
- Includes (11) SAE (3/16–5/8″) (11) Metric (4–14 mm) 6-point Shallow Sockets, (4) SAE Hex Bit Sockets (9/64, 3/16, 7/32 and 1/4″), (3) Flat Tip Bit Sockets (5/32, 3/16 and 1/4″), (2) PHILLIPS® Tip Bit Sockets (#1 and #2), (5) ratchet/socket accessories, Quick-Release Ratchet and Spinner Handle

BLPGSS1438PB Case for BLPGSS1438 (Blue-Point®)



BLPGSS1438

BLPGSSM1427 27 pc 1/4″ Drive Metric General Service Set (Blue-Point®)
- Great for use at home or on the road
- Set offers a full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® toolbox drawer
- Includes: (11) Metric (4–14 mm) 6-point Shallow Sockets, (11) Metric (4–14 mm) 6-point Deep Sockets, (3) ratchet/socket accessories, Quick-Release Ratchet, Spinner Handle and BLPGSSM1427PB storage case

BLPGSSM1427B Case for BLPGSSM1427 General Service Set (Blue-Point®)
- Replacement Case



BLPGSSM1427

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS (Blue-Point®)



BLPGSS1451A



BLPGSS1462



BLPGSSC155



BLPGSSC100B

General Service Sets (Blue-Point®)

BLPGSS1451A 51 pc 1/4″ Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (10) SAE (3/16–9/16″), (13) Metric (4–14 mm) standard sockets, (3) SAE (1/4, 5/16 and 3/8″) 6-point Sockets, (6) TORX® Bit Sockets (T8–T27), (6) SAE Hex Bit Sockets (1/8–5/16″), (3) Flat Tip Bit Sockets (5/32, 7/32 and 9/32″), (3) PHILLIPS® Bit Sockets (#0, #1 and #2), (6) ratchet/socket accessories and Ratchet
- Includes storage case

BLPGSS1462 62 pc 1/4″ Drive SAE and Metric General Service Set (Blue-Point®)

- Small and compact general service set is great for use at home or on the road
- Full range of deep and shallow sockets for the most common fastener applications
- Ratchet and Handle Driver both available for a variety of jobs
- Set includes: (11) SAE (3/16–5/8″) and (11) Metric (4–14 mm) Standard Sockets, (11) SAE (3/16–5/8″) and (11) Metric (4–14 mm) Deep Sockets, (1) Bit Holder, (4) Hex Bits (9/64, 3/16, 7/32, 1/4″) , (3) Flat Tip Bits (5/32, 3/16, 1/4″), (2) PHILLIPS® Bits (#1, #2), (7) Ratchet/Socket Accessories, (1) Ratchet
- Removable foam divider doubles as a kneeling pad
- Steel reinforced hinges on storage case
- Tools are made of high-grade steel alloy, feature a lifetime warranty and exceed ANSI standards

BLPGSS1462PB Storage Case (Blue-Point®)

- Storage case for BLPGSS1462 general service set

BLPGSSC155 155 pc Combination Drive SAE/Metric General Service Set (Blue-Point®)

- Includes (1/4″ drive): (10) SAE (3/16–9/16″) and (13) Metric (4–14 mm) Standard Sockets, (10) SAE (3/16–9/16″) and (11) Metric (4–14 mm) Deep Sockets, (20) Assorted 1/4″ Hex Bits with Bit Holder, (5) Ratchet/Socket Accessories, (1) Quick Release Ratchet
- Includes (3/8″ Drive) (13) SAE (1/4–1″) and (19) Metric (6–24 mm) Standard Sockets, (11) SAE (3/8–1″) and (15) Metric (10–24 mm) Deep Sockets, (11) External TORX® Sockets (E4–E20), (2) Spark Plug Sockets (5/8, 13/16″) (3) Metric Hex Socket Drivers (7, 8 and 10 mm), (4) Tamper-Resistant TORX® Socket Drivers (T40, T45, T50, T55), (5) ratchet/socket accessories, (1) Quick-Release Ratchet, (1) Spinner Handle
- Durable storage case
- Removable foam divider that doubles as a kneeling pad
- Double-injected slip-resistant Santoprene handles
- Steel reinforced hinges on storage case
- Tools are made of high-grade steel alloy, feature a lifetime warranty and exceed ANSI standards

BLPGSSC155PB Storage Case (Blue-Point®)

- Storage case for BLPGSSC100 general service set

BLPGSSC100B 100 pc 3/8″ Drive SAE/Metric General Service Set (Blue-Point®)

- Set covers most popular sizes of wrenches and sockets
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Durable blow-molded case
- Removable foam divider doubles as a kneeling pad
- Lifetime warranty
- Set includes (23) SAE and Metric 1/4″ Drive Standard Depth Sockets, (32) SAE and Metric 3/8″ Drive Sockets, (11) External TORX® Sockets, (19) SAE and Metric Combination Wrenches, (7) 1/4″ Drive and (8) 3/8″ Drive accessories



3/8" DRIVE TOOLS

TALK ABOUT A JACK-OF-ALL-TRADES, OUR 3/8" DRIVE TOOLS ARE VERSATILE ENOUGH TO HANDLE MOST ANY APPLICATION. POWERFUL AND DURABLE ENOUGH TOO, THANKS TO UNCOMPROMISING ENGINEERING AND MANUFACTURING.

THEY WORK BETTER BECAUSE THEY'RE MADE BETTER.

Snap-on® ratchets are made from our proprietary alloy steel and feature precision-crafted gears, springs and pawls. Dual 80® Technology arms you with an 80-tooth gear for more power in less space, while a compact ratchet head and smaller ratcheting arc provide smoother movement and torque transfer. And our industry-leading Flank Drive® sockets deliver exclusive advantages like up to 20% more torque, reduced slippage, and thin wall design for better accessibility. Our FDX® sockets even boast up to 50% more turning power on damaged fasteners.

RATCHETS




FK80


F80


GF80


FL80


FLL80


FKF80A


FF80A


FBF80A


FLF80A


FLLF80

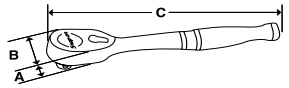

FSLF80


FX80A


F80MP

Dual 80® Technology Ratchets (3/8″)

Stop, Turn and Listen. A smoother, stronger ratchet. Try them to believe them.
Dual 80® Technology Ratchets Feature:
- 80-tooth gear
- Seven teeth in contact with gear to provide strength and durability



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Cover Plate	Joint Repair Kit	Replacement Grip	Locking Mechanism Repair Kit
FK80***	Stubby Handle Ratchet	80	4.5	9/16	1-1/4	4-3/16	RKRF80	F80-2	—	—	—
F80	Standard Handle Ratchet	80	4.5	9/16	1-1/4	7-7/16	RKRF80	F80-2	—	—	—
GF80	Standard Industrial Handle Ratchet	80	4.5	9/16	1-1/4	7-7/16	RKRF80	F80-2	—	—	—
FL80	Long Handle Ratchet	80	4.5	9/16	1-1/4	10-5/16	RKRF80	F80-2	—	—	—
FLL80	Extra-Long Handle Ratchet	80	4.5	9/16	1-1/4	17-1/2	RKRF80	F80-2	—	—	—
FKF80A*	Stubby Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	4-3/4	RKRF80	F80-2	RKRFLF80AJT	—	—
FF80A*	Standard Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	8-3/8	RKRF80	F80-2	RKRFLF80AJT	—	—
FBF80A*	Standard Bent Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	11-1/4	RKRF80	F80-2	RKRFLF80AJT	—	—
FLF80A	Long Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	11-1/2	RKRF80	F80-2	RKRFLF80AJT	—	—
FLLF80	Extra-Long Handle Flex Head Ratchet	80	4.5	11/16	1-3/4	18	RKRFLLF80	F80-2	RKRFLLF80JT	—	—
FSLF80	Speeder Handle Flex Head	80	4.5	9/16	1-1/4	13-1/2	RKRF80	F80-2	RKRFLF80AJT	—	—
FX80A**	Standard Handle Locking Flex Head Ratchet	80	4.5	9/16	1-1/4	11-1/2	RKRF80	F80-2	RKRFLF80AJT	—	RKRFX936ALM
F80MP	Multi-Position Head Ratchet	80	4.5	9/16	1-1/4	11	RKRF80	F80-2	—	—	—

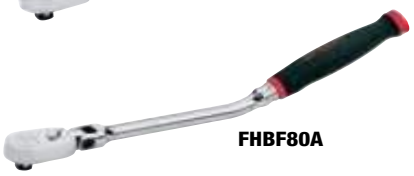
ASME®/ANSI® B107.10
*Uses RKRF841JT Flex Joint Repair Kit
**Uses RKRF841JT Flex Joint Repair Kit and RKRFX936ALM Locking Mechanism Repair Kit
***ASME®/ANSI® B107.10 with exception of the length


FH80


FHL80


FHLL80


FHF80A


FHBF80A


FHOF80A


FHLF80A


FHLLF80

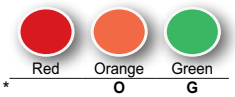

FHX80A

Dual 80® Technology Soft Grip Handle Ratchets, Chrome (3/8″)


FH80MP

- LOW HEIGHT: Snap-on® sockets and ratchets together have the lowest height on the market; improved accessibility in constrained spaces
- FLEXIBLE: Screw-style joint design; repairable, adjustable, maximizes joint strength
- DURABLE: Made with special alloy steel; nickel-chrome plated; corrosion-resistance and strength for longer life
- LEVERAGE: Long contoured handle; comfortable with increased leverage
- LASTING: Sealed head; keeps dirt out and lubricants in; longer life
- DUAL 80® TECHNOLOGY: Dual pawls and 80-tooth gear; smaller ratcheting arc and more power in less lateral space
- ACCESSIBILITY: 80-tooth gear; 25% less ratcheting arc; requires less arc to engage the next gear tooth; gets into tight spaces
- POWERFUL: Dual pawls; seven teeth in contact with the gears; smooth and powerful turning force

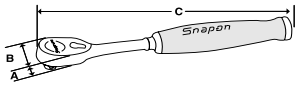
Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

3/8″ Drive Dual 80® Technology Soft Grip Standard Handle Ratchet

- 9-9/16″ length
- Seven teeth in contact with gear to provide strength and durability
- Dual 80® Technology ratchet has 25% less ratcheting arc than our closest competitor and requires the least amount of arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Cover Plate	Joint Repair Kit	Replacement Grip	Locking Mechanism Repair Kit
FH80*	Standard Red Soft Grip Handle Ratchet	80	4.5	9/16	1-1/4	9-1/2	RKRF80	F80-2	—	FH936–12	—
FHL80*	Long Soft Grip Handle	80	4.5	9/16	1-1/4	12-1/2	RKRF80	F80-2	—	FH936–12	—
FHLL80*	Extra-Long Soft Grip Handle	80	4.5	9/16	1-1/4	18-3/4	RKRF80	F80-2	—	FH936–12	—
FHF80A*†	Standard Red Soft Grip Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	10-3/8	RKRF80	F80-2	RKRFLF80AJT	FH80-12	—
FHBF80A*	Standard Bent Red Soft Grip Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	13-3/8	RKRF80	F80-2	RKRFLF80AJT	—	—
FHOF80A*†	Standard Offset Red Soft Grip Handle Flex Head Ratchet	80	4.5	9/16	1-1/4	9-15/16	RKRF80	F80-2	RKRFLF80AJT	FH80-12	—
FHLF80A*	Long Soft Grip Handle Flex Head	80	4.5	9/16	1-1/4	13-11/16	RKRF80	F80-2	RKRFLF80AJT	FH936–12	—
FHLLF80*	Extra-Long Soft Grip Handle Flex-Head Quick-Release	80	4.5	11/16	1-3/4	19-1/2	RKRFRLLF80	F80-2	RKRFLLF80JT	FH936-12	—
FHX80A*†	Standard Red Soft Grip Handle Locking Flex Head Ratchet	80	4.5	9/16	1-1/4	11-15/16	RKRF80	F80-2	RKRFLF80AJT	FH80-12	RKRFX936ALM
FH80MP†	Multi-Position Head Ratchet	80	4.5	9/16	1-1/4	12-1/4	RKRF80	F80-2	—	FH80-12	—

ASME®/ANSI® B107.10
*†FH80-12 3/8" Drive Soft Grip Replacement Handle

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

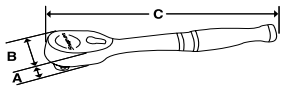
RATCHETS





Dual 80® Technology Compact Head Ratchets (3/8″)

- Compact head design offers greater accessibility
- Swivel head ratchets provide a variety of ratcheting positions



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
FC72	Compact Head Ratchet	72	5	7/16	15/16	4-7/16	RKRFC72
FCF72	Compact Flex Head Ratchet	72	5	7/16	15/16	6-1/4	RKRFC72

ASME®/ANSI® B107.10

















Quick-Release Ratchets (3/8″)

3/8″ Drive Dual 80® Technology Soft Grip Standard Handle Quick-Release Ratchet

- 80-tooth gear for 4.5° of swing arc
- Seven teeth in contact with gear to provide strength and durability
- Quick-release has a positive locking feature to hold socket securely in place when needed and push button for easy removal
- Sealed head keeps dirt and other contaminants out of the head mechanism
- Contoured handle for comfort and control

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Replacement Cover Plate	Joint Repair Kit	Replacement Grip	Locking Mechanism Repair Kit
FR80	Standard Handle Quick-Release	80	4.5	9/16	1-1/4	7-7/16	RKRFR80	F80-2	—	—	—
FRLL80	Extra-Long Handle Quick-Release Ratchet	80	4.5	9/16	1-1/4	17-1/2	RKRFR80	F80-2	—	—	—
FRSLF80	3/8″ Drive Dual 80® Technology Speeder Handle Flex-Head Quick Release Ratchet	80	4.5	5/8	1-1/4	13-3/4	RKRFRLLF80	F80-2	RKRFLF80AJT	—	—
FRLF80A	Long Handle Quick-Release Flex Head	80	4.5	9/16	1-1/4	11-1/2	RKRFR80	F80-2	RKRFLF80AJT	—	—
FHR80*	Standard Soft Grip Handle Quick-Release	80	4.5	9/16	1-1/4	9-9/16	RKRFR80	F80-2	—	FH80-12	—
FHRLF80A*	Long Soft Grip Handle Quick-Release Flex Head	80	4.5	9/16	1-1/4	13-11/16	RKRFR80	F80-2	RKRFLF80AJT	FH80-12	—
FRX80A	Standard Handle Quick-Release Locking Flex Head	80	4.5	9/16	1-1/4	11-3/8	RKRFR80	F80-2	RKRFLF80AJT	—	RKRFX936ALM
FHRX80A*	Standard Soft Grip Handle Quick-Release Locking Flex Head	80	4.5	9/16	1-1/4	11-15/16	RKRFR80	F80-2	RKRFLF80AJT	FH80-12	RKRFX936ALM

ASME®/ANSI® B107.10
FH936-12 Soft Grip Replacement Handle

Colors Available

Red Orange Green
* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


FHCNF72


FHNF100

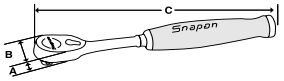

FN100


FNF100


FZERO

Round Head Ratchets, Chrome (3/8″)

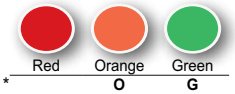
Snap-on® Round Head Ratchets feature up to 100 teeth to achieve the lowest possible swing arc. Slim design is perfect for the tightest of space constraints.



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
FHCNF72*	Compact Round Head Soft Grip Swivel	72	5	7/16	1-1/4	6-7/8	**RKRFHCNF72**
FHNF100*	Red Soft Grip Swivel Head Ratchet	100	3.6	11/16	1-3/4	12-1/2	**RKRFHNF100**
FN100	Round Head Ratchet	100	3.6	11/16	1-3/4	7-7/8	**RKRFHNF100**
FNF100	Round Swivel Head Ratchet	100	3.6	11/16	1-3/4	10-1/4	**RKRFHNF100**
FZERO	Standard Gearless Round Head Ratchet	Zero	0	5/8	1-1/2	7-1/2	**RKRFZERO**

ASME®/ANSI® B107.10
*FH936-12 Soft Grip Replacement Handle

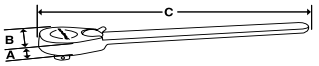
Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

DUAL 80 TECHNOLOGY


RAF80A



Low-Profile Ratchet (3/8″)

Dial 80® Technology Low-Profile Ratchet

- Square drive design works with low-profile sockets to access restricted clearance without loss of strength
- Use with standard 3/8″ drive sockets or other attachments
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth
- Seven teeth in contact with gear to provide strength and durability

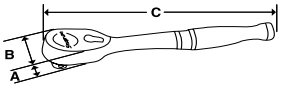
Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
RAF80A	Low-Profile Ratchet	80	4.5	7/16	1-1/4	7-1/2	**RKRRAF80**

ASME®/ANSI® B107.10
FH936-12 Soft Grip Replacement Handle


F80FOD


GF80FOD


GFL80FOD



FOD Ratchets (Foreign Object Damage) (3/8″)

- For aviation and other critical applications where Foreign Object Damage prevention is crucial for success
- Designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas

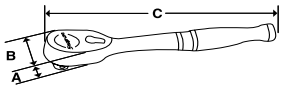
Stock No.	Description	Gear Teeth	Swing Arc	A	B	C
F80FOD	Standard Handle Foreign Object Damage Ratchet	80	4.5	9/16	1-1/4	7-7/16
GF80FOD	Industrial Handle Foreign Object Damage Ratchet	80	4.5	9/16	1-1/4	7-7/16
GFL80FOD	Long Industrial Handle Foreign Object Damage Ratchet	80	4.5	9/16	1-1/4	10-5/16

ASME®/ANSI® B107.10

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

RATCHETS





FCY72

Hi-Lok® Fastener Ratchet (3/8″)

3/8″ Drive Dual 80® Technology Hi-Lok® Compact Head Ratchet

- Dual 80® Ratchet Technology features dual-pawls and a 72-tooth gear providing for more power in less lateral space
- Six teeth in full contact with gear to provide strength and durability
- A mere 5° ratcheting arc
- Sealed head helps keep dirt and other contaminants out of the head mechanism
- For use with standard or Hi-Lok® sockets

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
FCY72	Hi-Lok® Compact Head Ratchet	72	5	7/16	15/16	4-5/8	RKRFCY72

Specialty Ratchets (3/8″)



FZ936A

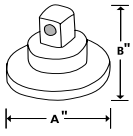


PALMRAT

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
FZ936A	Multi-Purpose Special Application Ratchet	36	10	5/8	1-3/16	3-1/4	RKRF936
PALMRAT	Palm Style Special Application Ratchet	20	18	1-3/16	—	2-5/8	RKRPALMRAT



FRS70A



Ratchet Spinners (3/8″)

Stock No.	Description	A	B
FRS70A	Spinner Ratchet	1-1/4	1-9/32

ASME®/ANSI® B107.10



FSDR1

Ratchet Spinner (Blue-Point®) (3/8″)

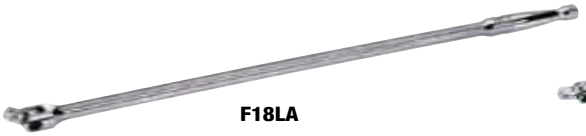
Stock No.	Description	A	B
FSDR1‡	3/8″ External Drive/1/4″ Internal Square Drive Finger Ratchet	1-1/8	1-7/16

B107-10M-2005

BREAKER BARS



F10LD



F18LA



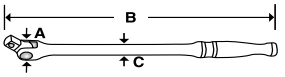
FHBB12A



F12LB



FHBB18A



Breaker Bars, Chrome (3/8″)

Stock No.	Description	A	B	C	Repair Kit
F10LD†	3/8″ Drive Breaker Bar	13/16	9-9/16	1/2	RKBB2A
F12LB†	3/8″ Drive 11-9/16″ Long Handle Breaker Bar	13/16	11-9/16	1/2	RKBB2A
F18LA	3/8″ Drive 18″ Extra-Long Handle Breaker Bar	7/8	18	1/2	RKBB2A
FHBB12A*†	3/8″ Drive 13″ Soft Grip Handle Breaker Bar	13/16	13	1/2	RKBB2A
FHBB18A*	3/8″ Drive 17-1/2″ Soft Grip Extra-Long Handle Breaker Bar	7/8	17-1/2	1/2	RKBB2A

*ASME®/ANSI® B107.10

Colors Available

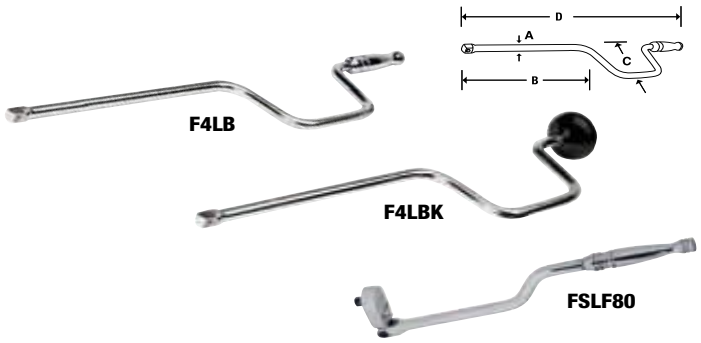


ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Speeders, Chrome

Stock No.	A	B	C	D
F4LB*	13/32	7-7/8	3-1/2	17-27/32
F4LBK*	13/32	7-7/8	3-1/2	16-5/8
FSLF80	9/16	4-7/8	1-7/8	11-9/16

*Speeder with knob



Sliding T-Handles, Chrome

Stock No.	A	B	C
F5L	3/4	13/32	8



Handled Drivers, Chrome

Stock No.	A	B	C
F40B	1/2	1	5-5/16
SGF50CR*	1/2	5	10-7/16

*Instinct® Handle

Colors Available

Red R | Orange O | Green G

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



Extensions/Knurled

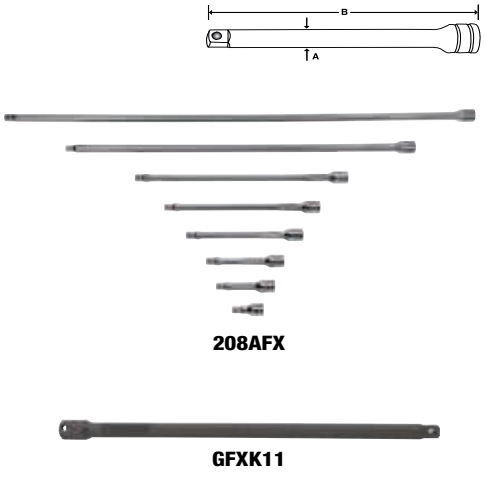
Knurled Extensions feature:

- Chamfered drive ends for easy engagement
- Small diameter shank for maximum accessibility
- Cold formed for robust performance and made from a single piece of steel
- Knurled shaft provides fingertip control

Stock No.	Industrial Stock No.	A	B	Set Contains: 208AFX	206AFXFMBR**	206AFX
FX1*	GFX1	1/2	1-1/2	•	•	•
FX2	—	31/64	2			
FXK3	GFXK3	13/32	3	•	•	•
FXK4	—	13/32	4	•	•	•
FXK6	GFXK6	13/32	6	•	•	•
FXK8	GFXK8	13/32	8	•	•	•
FXK11	GFXK11	13/32	11	•	•	•
FX18*	—	1/2	18	•		
FX24A*	—	1/2	24	•		
FX36*	—	1/2	36			

*Not knurled
**Includes foam tray
Sets do not include industrial part number.

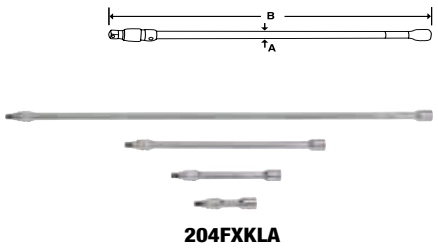
Sets include storage tray.



WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

EXTENSIONS



204FXKLA

Extensions/Locking, Chrome

- Release socket from extension quickly and easily
- Knurling at drive end provides easy fingertip turning

Set Contains: 204FXKLA

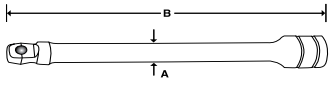
Stock No.	A	B	
FXKL3A	1/2	3	•
FXKL6A	1/2	6	•
FXKL8A	1/2	8	
FXKL11A	1/2	11	•
FXKL12A	1/2	12	
FXKL24A	1/2	24	•

FXKLP Locking pins for FXKL Series Extensions; 5-pk.
FXKLRK Repair kit for FXKL Series Extensions.

Set shown includes storage tray.



206AFXW





206AFXWP

Extensions/Wobble, Chrome

- Wobble function provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Set Contains: 206AFXW

Stock No.	A	B	
FXW1*	1/2	1-1/2	•
FXWK3	13/32	3	•
FXWK4	13/32	4	•
FXWK6	13/32	6	•
FXWK8	13/32	8	•
FXWK11	13/32	11	•

*Not knurled

Set shown includes storage tray

Extensions/Wobble Plus, Chrome

- WOBBLE FUNCTION: Provides 16° of additional accessibility; offset to clear obstruction; use in restricted areas
- WOBBLE PLUS: Usable in both wobble or rigid functions; two tools in one for more applications, saves time
- STANDARD FUNCTION: Provides extra reach when needed; for traditional rigid linear applications
- DURABLE: Special alloy steel; cold-forged; nickel-chrome plated; corrosion resistance and strength for longer life
- CONTROL: Knurled shank; for easy fingertip turning when working in tight quarters

Set Contains: 206AFXWP

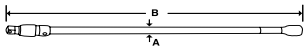
Stock No.	A	B	
FXWP1*	1/2	1-1/2	•
FXWP3	13/32	3	•
FXWP4	13/32	4	•
FXWP6	13/32	6	•
FXWP8	13/32	8	•
FXWP11	13/32	11	•

*Not knurled

Set shown includes storage tray.



203FXWKL



Extensions/Locking Wobble, Chrome

- Provides 16° of additional accessibility
- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands

Set Contains: 203FXWKL

Stock No.	A	B	
FXWKL3	1/2	3	•
FXWKL6	1/2	6	•
FXWKL11	1/2	11	•

Set shown includes storage tray.

Extension Connectors, Chrome



FZ1

FZ1 3/8″ Drive Extension Connector

- 3/8″ drive Extension Connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited-access fasteners
- Use in automotive, aircraft, marine, heavy truck, plumbing and manufacturing applications

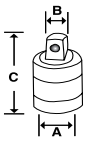
FZ2 2 pc 3/8″ Drive Extension Connector Set

- Female and male 90° connectors add versatility to extensions, breaker bars, ratchets and crowfoot wrenches when accessing hard-to-reach fasteners

Square Drive Adaptors, Chrome

Stock No.	Industrial Stock No.	A	B	C
—	GFAT1E	3/8	1/4	11/16
TA3	GTA3	1/4	3/8	1/2
A2A	GAF2A	3/8	1/2	1-5/16
—	GSAF1F	1/2	3/8	1-13/16





206EAU

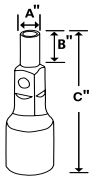
206EAU 6 pc 3/8″ Drive Adaptor/Extension Set
- Includes (6) components in a tray—GFAT1E and A2A adaptors; FU8A universal joint and FX1, FXK3 and FXK6 extensions

A2A 3/8″ Drive Square Drive Adaptor
- 3/8″ internal drive x 1/2″ external drive
- 1-5/16″ long

Magnetic Adaptors, Chrome

Stock No.	A	B	C
FXM112	5/16	9/32	1-25/32
FXM18	3/16	9/32	1-25/32



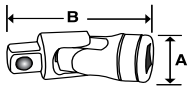


FXM112

Universal Joints, Chrome

Stock No.	Industrial Stock No.	A	B
FUL8A	—	3/4	3
FU8A**	GFU8A	3/4	2-1/16
FU80B	—	—	—

Swivel Universal Joint — ASME®/ANSI® B107.10





FUL8A FU8A GFU8A

FUL8A 3/8″ Drive 3″ Locking Pin Universal Joint
- Locking pin for better socket retention

103UFTS 3 pc Combination Drive Universal Joint Set
- Includes (1) 1/4″ Drive Universal Joint, (1) 3/8″ Drive Universal Joint and (1) 1/2″ Drive Universal Joint in storage tray



103UFTS

Non-marring Metric Socket Inserts

- Designed for use with Snap-on® 1/4″ and 3/8″ drive metric sockets
- Tough glass-reinforced nylon offers excellent strength yet will not damage soft metals, plated fasteners or powder-coated surfaces
- Large lip makes insert removal easy
- Set covers most popular metric sizes; inserts are marked for easy identification
- Supplied on metal storage ring; avoid lost inserts or wasted time looking for them in tool cabinets, toolboxes, etc.
- Do not use socket inserts with impact tools

Stock No.	Socket Size	Fastener Size	Working Torque, in-lb	Set Contains: PSCM600
PSCM1208	12 mm	8 mm	80	•
PSCM1410	14 mm	10 mm	155	•
PSCM1612	16 mm	12 mm	240	•
PSCM1713	17 mm	13 mm	400	•
PSCM1915	19 mm	15 mm	450	•
PSCM2217	22 mm	17 mm	700	•



PSCM600

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® XTRA SOCKETS



215YFSMY



YFSM161

Flank Drive® Xtra Shallow, mm, Chrome

mm	6	A	B	C	D	E	Set Contains: 212YFSMY 6	Set Contains: 215YFSMY 6
6	YFSM61	9.5	17.5	11.1	23.0	5.6		•
7	YFSM71	11.1	17.5	11.1	23.0	5.6		•
8	YFSM81	11.9	17.5	11.1	23.0	6.4	•	•
9	YFSM91	13.5	17.5	11.1	23.0	6.4	•	•
10	YFSM101	14.3	17.5	11.1	23.0	6.4	•	•
11	YFSM111	15.9	17.5	11.1	23.0	7.1	•	•
12	YFSM121	16.7	17.5	11.9	24.6	7.9	•	•
13	YFSM131	18.3	18.3	12.6	24.6	7.9	•	•
14	YFSM141	19.8	19.8	13.1	25.4	10.3	•	•
15	YFSM151	20.6	20.6	15.2	27.8	10.3	•	•
16	YFSM161	21.4	21.4	15.6	28.6	11.9	•	•
17	YFSM171	23.0	23.0	16.0	29.4	12.7	•	•
18	YFSM181	24.6	24.6	16.5	30.2	12.7	•	•
19	YFSM191	25.4	25.4	17.2	31.0	12.7	•	•
20	YFSM201	27.0	27.0	17.8	31.8	12.7		•

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



211YFSY



214YFSY



YFS141

Flank Drive® Xtra Shallow, Inches, Chrome

11	6	A	B	C	D	E	Set Contains: 211YFSY 6	Set Contains: 214YFSY 6
1/4	YFS081	13/32	11/16	1-5/8	2-1/8	7/32	•	•
5/16	YFS101	15/32	11/16	1-5/8	2-1/8	9/32	•	•
11/32	YFS111	1/2	11/16	1-5/8	2-1/8	1/4		•
3/8	YFS121	9/16	11/16	1-5/8	2-1/8	9/32	•	•
7/16	YFS141	5/8	11/16	1-5/8	2-1/8	3/8	•	•
1/2	YFS161	23/32	23/32	1-5/8	2-1/8	13/32	•	•
9/16	YFS181	25/32	25/32	1-21/32	2-3/8	13/32	•	•
5/8	YFS201	27/32	27/32	1-21/32	2-3/8	15/32	•	•
11/16	YFS221	15/16	15/16	1-29/32	2-5/8	1/2	•	•
3/4	YFS241	1	1	1-29/32	2-5/8	19/32	•	•
13/16	YFS261	1-1/16	1-1/16	2	2-3/4	21/32	•	•
7/8	YFS281	1-5/32	1-5/32	2	2-3/4	23/32	•	•
15/16	YFS301	1-1/4	1-1/4	2	2-3/4	3/4		•
1	YFS321	1-5/16	1-5/16	1-31/32	2-3/4	13/16		•

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



212YFSMSY

Flank Drive® Xtra Semi-Deep, mm, Chrome

Set Contains: 212YFSMSY

mm	6	A	B	C	D	E	6
6	**YFSMS61***	10.3	17.5	29.3	41.3	5.6	
7	**YFSMS71***	11.1	17.5	29.3	41.3	6.4	
8	**YFSMS81***	11.9	17.5	29.3	41.3	6.4	•
9	**YFSMS91***	13.5	17.5	29.3	41.3	6.4	•
10	**YFSMS101***	14.3	17.5	29.3	41.3	7.1	•
11	**YFSMS111***	15.9	17.5	29.3	41.3	9.5	•
12	**YFSMS121***	16.7	17.5	29.3	41.3	9.5	•
13	**YFSMS131***	18.3	18.3	29.3	41.3	10.3	•
14	**YFSMS141***	19.8	19.8	23.6	41.3	10.3	•
15	**YFSMS151***	20.6	20.6	23.6	41.3	10.3	•
16	**YFSMS161***	21.4	21.4	23.4	41.3	10.3	•
17	**YFSMS171***	23.0	23.0	23.4	41.3	11.1	•
18	**YFSMS181***	24.6	24.6	23.3	41.3	11.1	•
19	**YFSMS191***	25.4	25.4	23.1	41.3	12.7	•
20	**YFSMS201***	27.0	27.0	22.7	41.3	12.7	

*ASME®/ANSI® B107.110

Sets include magnetic storage tray.



YFSMS161



211YFSSY

Flank Drive® Xtra Semi-Deep, SAE, Chrome

Set Contains: 211YFSSY

	6	A	B	C	D	E	6
1/4	**YFSS081**	13/32	11/16	1-1/8	1-5/8	13/32	•
5/16	**YFSS101**	15/32	11/16	1-1/8	1-5/8	15/32	•
3/8	**YFSS121**	9/16	11/16	1-1/8	1-5/8	9/16	•
7/16	**YFSS141**	5/8	11/16	1-1/8	1-5/8	5/8	•
1/2	**YFSS161**	23/32	23/32	1-1/8	1-5/8	23/32	•
9/16	**YFSS181**	25/32	25/32	29/32	1-5/8	25/32	•
5/8	**YFSS201**	27/32	27/32	29/32	1-5/8	27/32	•
11/16	**YFSS221**	15/16	15/16	29/32	1-5/8	15/16	•
3/4	**YFSS241**	1/1	1/1	1-1/16	1-5/8	1/1	•
13/16	**YFSS261**	17/16	17/16	1-1/16	1-5/8	17/16	•
7/8	**YFSS281**	37/32	37/32	1-3/16	1-23/32	37/32	•
15/16	**YFSS301**	5/4	5/4	1-3/16	1-3/4	5/4	
1	**YFSS321**	21/16	21/16	1-7/32	1-3/4	21/16	

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



YFSS221

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® XTRA SOCKETS



212YSFSMY

Flank Drive® Xtra Deep, mm, Chrome



YSFSM8



YSFSM19

Set Contains:							212YSFSMY	215YSFSMY
mm	6	A	B	C	D	E	6	6
6	YSFSM6	10.3	17.5	42.0	54.0	6.4		•
7	YSFSM7	11.1	17.5	42.0	54.0	6.4		•
8	YSFSM8	11.9	17.5	42.0	54.0	6.4	•	•
9	YSFSM9	13.5	17.5	42.0	54.0	6.4	•	•
10	YSFSM10	14.3	17.5	42.0	54.0	7.1	•	•
11	YSFSM11	15.9	17.5	42.0	54.0	9.5	•	•
12	YSFSM12	16.7	17.5	42.0	54.0	9.5	•	•
13	YSFSM13	18.3	18.3	42.0	54.0	10.3	•	•
14	YSFSM14	19.8	19.8	42.6	60.3	10.3	•	•
15	YSFSM15	20.6	20.6	42.6	60.3	10.3	•	•
16	YSFSM16	21.4	21.4	42.4	60.3	10.3	•	•
17	YSFSM17	23.0	23.0	48.8	66.7	12.7	•	•
18	YSFSM18	24.6	24.6	48.7	66.7	12.7	•	•
19	YSFSM19	25.4	25.4	48.5	66.7	15.1	•	•
20	YSFSM20	27.0	27.0	48.1	66.7	15.1		•
21	YSFSM21	28.6	28.6	48.1	66.7	15.1		

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



211YSFSY



214YSFSY

Flank Drive® Xtra Deep, Inches, Chrome



YSFS161

Set Contains:							211YSFSY	214YSFSY
	6	A	B	C	D	E	6	6
1/4	YSFS081	13/32	11/16	1-5/8	2-1/8	7/32	•	•
5/16	YSFS101	15/32	11/16	1-5/8	2-1/8	9/32	•	•
11/32	YSFS111	1/2	11/16	1-5/8	2-1/8	1/4		•
3/8	YSFS121	9/16	11/16	1-5/8	2-1/8	9/32	•	•
7/16	YSFS141	5/8	11/16	1-5/8	2-1/8	3/8	•	•
1/2	YSFS161	23/32	23/32	1-5/8	2-1/8	13/32	•	•
9/16	YSFS181	25/32	25/32	1-21/32	2-3/8	13/32	•	•
5/8	YSFS201	27/32	27/32	1-21/32	2-3/8	15/32	•	•
11/16	YSFS221	15/16	15/16	1-29/32	2-5/8	1/2	•	•
3/4	YSFS241	1	1	1-29/32	2-5/8	19/32	•	•
13/16	YSFS261	1-1/16	1-1/16	2	2-3/4	21/32	•	•
7/8	YSFS281	1-5/32	1-5/32	2	2-3/4	23/32	•	•
15/16	YSFS301	1-1/4	1-1/4	2	2-3/4	3/4		•
1	YSFS321	1-5/16	1-5/16	1-31/32	2-3/4	13/16		•

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



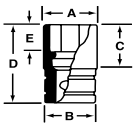
FM14



GFM9A



212FSMY



Shallow, mm, Chrome

mm	6	12	12	A	B	C	D	E	Set Contains: 212FSMY 6	212FMY 12
6	FSM61	FM6	—	9.1	17.2	11.1	23.0	5.6		
7	FSM71	FM7	—	10.4	17.2	11.1	23.0	5.6		
8	FSM81	FM8	—	11.6	17.2	11.1	23.0	6.4	•	•
9	FSM91	FM9	GFM9A	13.1	17.2	11.0	23.0	7.1	•	•
10	FSM101	FM10	—	14.3	17.2	11.0	23.0	7.1	•	•
11	FSM111	FM11	—	15.4	17.2	11.0	23.0	7.1	•	•
12	FSM121	FM12	—	16.5	17.2	11.9	23.8	8.1	•	•
13	FSM131	FM13	—	18.0	17.2	12.6	24.6	8.1	•	•
14	FSM141	FM14	—	19.6	18.6	13.2	26.2	9.1	•	•
15	FSM151	FM15	—	20.3	19.4	13.7	27.0	9.1	•	•
16	FSM161	FM16	—	21.1	20.2	15.0	27.8	10.4	•	•
17	FSM171	FM17	—	22.7	21.8	15.0	28.6	10.4	•	•
18	FSM181	FM18	—	24.3	23.2	15.7	28.6	10.9	•	•
19	FSM191	FM19	—	25.1	24.0	16.3	30.2	11.9	•	•
20	FSM201	FM20	—	26.3	25.3	16.6	30.9	12.4		
21	FSM211	FM21	—	27.4	26.4	17.4	31.8	12.2		
22	FSM221	FM22	—	28.3	27.2	17.4	32.5	13.2		
23	FSM231	FM23	—	29.9	28.8	18.2	33.8	13.2		
24	FSM241	FM24	—	31.5	30.5	19.0	35.0	14.4		
25	FSM251	FM25	—	32.3	31.3	19.8	35.3	14.5		
26	FSM261	FM26	—	33.8	32.9	20.6	37.0	14.3		

Sets include magnetic storage tray.



F201



GF201



211FSY

Shallow, Inches, Chrome

	6	12	6	12	A	B	C	D	E	Set Contains: 214FSY 6	211FSY 6	211FY 12
1/4	FS081	F081	GFS081	GF081	13/32	11/16	7/16	29/32	7/32	•	•	•
5/16	FS101	F101	GFS101	GF101	15/32	11/16	7/16	29/32	1/4	•	•	•
11/32	FS111	F111	—	GF111	1/2	11/16	7/16	29/32	9/32	•		
3/8	FS121	F121	GFS121	GF121	9/16	11/16	7/16	29/32	9/32	•	•	•
7/16	FS141	F141	GFS141	GF141	5/8	11/16	7/16	29/32	9/32	•	•	•
1/2	FS161	F161	GFS161	GF161	23/32	11/16	1/2	15/16	5/16	•	•	•
9/16	FS181	F181	GFS181	GF181	25/32	3/4	1/2	1-1/32	3/8	•	•	•
19/32	—	—	—	GF191	13/16	25/32	9/16	1-1/16	3/8			
5/8	FS201	F201	GFS201	GF201	27/32	25/32	19/32	1-3/32	1/2	•	•	•
11/16	FS221	F221	GFS221	GF221	15/16	7/8	5/8	1-1/8	17/32	•	•	•
3/4	FS241	F241	GFS241	GF241	1	15/16	11/16	1-3/16	15/32	•	•	•
13/16	FS261	F261	GFS261	GF261	1-1/16	1	11/16	1-7/32	1/2	•	•	•
7/8	FS281	F281	GFS281	GF281	1-5/32	1-1/32	23/32	1-9/32	9/16	•	•	•
15/16	FS301	F301	GFS301	GF301	1-1/4	1-3/16	25/32	1-11/32	9/16	•		
1	FS321	F321	GFS321	GF321	1-5/16	1-1/4	13/16	1-3/8	19/32	•		

Sets include magnetic storage tray.

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

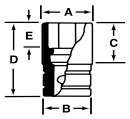
FLANK DRIVE® SOCKETS



FSMS14



212FSMSY





FSS201



211FSSY

Semi-Deep, mm, Chrome

mm	6	12	A	B	C	D	E	Set Contains: 212FSMSY 6	Set Contains: 212FMSY 12
6	FSMS6	FMS6	9.5	17.5	28.6	41.3	5.6		
7	FSMS7	FMS7	11.1	17.5	28.6	41.3	6.4		
8	FSMS8	FMS8	11.4	17.2	29.3	41.3	7.1	•	•
9	FSMS9	FMS9	12.8	17.2	29.3	41.3	7.1	•	•
10	FSMS10	FMS10	14.3	17.2	29.3	41.3	7.9	•	•
11	FSMS11	FMS11	15.7	17.2	29.3	41.3	9.7	•	•
12	FSMS12	FMS12	16.5	17.2	29.3	41.3	9.9	•	•
13	FSMS13	FMS13	17.9	17.2	23.2	41.3	10.7	•	•
14	FSMS14	FMS14	19.6	18.6	23.2	41.3	10.7	•	•
15	FSMS15	FMS15	20.3	19.4	23.2	41.3	10.7	•	•
16	FSMS16	FMS16	21.1	20.2	23	41.3	10.7	•	•
17	FSMS17	FMS17	22.6	21.8	23	41.3	11.2	•	•
18	FSMS18	FMS18	24.2	23.2	23.0	41.3	11.2	•	•
19	FSMS19	FMS19	25.1	24.0	22.7	41.3	11.7	•	•
20	FSMS20	FMS20	27.0	26.2	22.2	41.3	12.7		

Set includes magnetic storage tray.

Semi-Deep, Inches, Chrome

	6	A	B	C	D	E	Set Contains: 211FSSY 6
1/4	FSS081	13/32	11/16	1-1/8	1-5/8	7/32	•
5/16	FSS101	15/32	11/16	1-1/8	1-5/8	1/4	•
3/8	FSS121	9/16	11/16	1-1/8	1-5/8	9/32	•
7/16	FSS141	5/8	11/16	1-1/8	1-5/8	3/8	•
1/2	FSS161	23/32	11/16	29/32	1-5/8	13/32	•
9/16	FSS181	25/32	3/4	29/32	1-5/8	13/32	•
5/8	FSS201	27/32	13/16	29/32	1-5/8	13/32	•
11/16	FSS221	15/16	29/32	29/32	1-5/8	7/16	•
3/4	FSS241	1	31/32	29/32	1-5/8	7/16	•
13/16	FSS261	1-1/16	1-1/32	29/32	1-5/8	15/32	•
7/8	FSS281	1-5/32	1-1/8	29/32	1-5/8	1/2	•
15/16	FSS301	1-1/4	1-7/32	1-3/16	1-3/4	23/32	
1	FSS321	1-5/16	1-9/32	1-7/32	1-3/4	17/32	

Set includes magnetic storage tray.



FDS201

Semi-Deep, Inches, Chrome

	12	A	B	C	D	E
1/4	FDS081	13/32	11/16	1-1/8	1-5/8	7/32
9/32	FDS091	7/16	11/16	3/4	1-1/4	7/32
5/16	FDS101	15/32	11/16	3/4	1-1/4	1/4
11/16	FDS111	—	11/16	—	1-1/2	—
3/8	FDS121	9/16	11/16	1	1-1/2	9/32
7/16	FDS141	5/8	11/16	29/32	1-1/2	3/8
1/2	FDS161	23/32	11/16	29/32	1-5/8	13/32
9/16	FDS181	25/32	3/4	7/8	1-5/8	13/32
5/8	FDS201	27/32	13/16	29/32	1-5/8	15/32
11/16	FDS221	15/16	29/32	29/32	1-5/8	1/2
3/4	FDS241	1	31/32	1-1/16	1-5/8	19/32
25/32	FDS251	1-1/16	1-1/32	1-1/16	1-5/8	5/8
13/16	FDS261	1-1/16	1-1/32	1-1/16	1-5/8	21/32
15/16	FDS301	1-1/4	1-7/32	1-3/16	1-3/4	23/32
1	FDS321	1-5/16	1-9/32	1-1/4	1-3/4	3/4



SFM19



SFSM9



212SFSMY

Deep, mm, Chrome

mm	6	12	A	B	C	D	E	Set Contains: 212SFSMY 6	Set Contains: 212SFMY 12
6	SFSM6	SFM6	9.1	17.2	42.0	54.0	5.6		
7	SFSM7	SFM7	10.5	17.2	42.0	54.0	5.6		
8	SFSM8	SFM8	11.4	17.7	42.0	54.0	7.1	•	•
9	SFSM9	SFM9	12.8	17.2	42.0	54.0	7.1	•	•
10	SFSM10	SFM10	14.3	17.2	42.0	54.0	7.9	•	•
11	SFSM11	SFM11	15.7	17.2	42.0	54.0	9.7	•	•
12	SFSM12	SFM12	16.5	17.2	42.0	54.0	9.9	•	•
13	SFSM13	SFM13	18.0	17.2	42.0	54.0	10.7	•	•
14	SFSM14	SFM14	19.6	18.6	43.3	60.3	10.7	•	•
15	SFSM15	SFM15	20.3	19.4	43.3	60.3	10.7	•	•
16	SFSM16	SFM16	21.1	20.0	43.3	60.3	10.7	•	•
17	SFSM17	SFM17	22.7	21.8	43.6	66.7	11.2	•	•
18	SFSM18	SFM18	24.3	23.2	49.0	66.7	11.2	•	•
19	SFSM19	SFM19	25.1	24.0	49.0	66.7	15.5	•	•
20	SFSM20	SFM20	26.3	25.3	48.1	66.7	12.2		
21	SFSM21	SFM21	27.5	26.4	47.6	66.7	12.4		
22	SFSM22	—	1-5/32	28.5	49.2	73.0	19/32		

Set includes magnetic storage tray.

Extra-Long, inches

SFSL181 3/8″ Drive 6-Point SAE 9/16″ Extra-Long Socket

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque and preventing fastener corners from rounding off
- Socket is 7-1/2″ long allowing the long reach needed



SFSL181

Shallow/Deep Sets, mm, Chrome (3/8″)

Set Contains: 224SFFSM			Set Contains: 224SFFSM		
mm	6-Point Metric Flank Drive® Shallow Socket	6	mm	6-Point Metric Flank Drive® Deep Socket	6
8	FSM81	•	8	SFSM8	•
9	FSM91	•	9	SFSM9	•
10	FSM101	•	10	SFSM10	•
11	FSM111	•	11	SFSM11	•
12	FSM121	•	12	SFSM12	•
13	FSM131	•	13	SFSM13	•
14	FSM141	•	14	SFSM14	•
15	FSM151	•	15	SFSM15	•
16	FSM161	•	16	SFSM16	•
17	FSM171	•	17	SFSM17	•
18	FSM181	•	18	SFSM18	•
19	FSM191	•	19	SFSM19	•

Set includes magnetic storage tray.



224SFFSM

224SFFSM 24 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow/Deep Combination Socket Set

- Includes (24) FSM81–FSM191 shallow sockets and SFSM8–SFSM19 deep sockets (8–19 mm)

Shallow/Deep Sets, Inches, Chrome (3/8″)

Set Contains: 222SFFS			Set Contains: 222SFFS		
	6-Point SAE Flank Drive® Shallow Socket	6		6-Point SAE Flank Drive® Deep Socket	6
1/4	FS081	•	1/4	SFS081	•
5/16	FS101	•	5/16	SFS101	•
3/8	FS121	•	3/8	SFS121	•
7/16	FS141	•	7/16	SFS141	•
1/2	FS161	•	1/2	SFS161	•
9/16	FS181	•	9/16	SFS181	•
5/8	FS201	•	5/8	SFS201	•
11/16	FS221	•	11/16	SFS221	•
3/4	FS241	•	3/4	SFS241	•
13/16	FS261	•	13/16	SFS261	•
7/8	FS281	•	7/8	SFS281	•

Set includes magnetic storage tray.



222SFFS

222SFFS 22 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow/Deep Combination Socket Set

- Includes (11) shallow sockets (1/4–7/8″) and (11) deep sockets (1/4–7/8″)

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SOCKETS



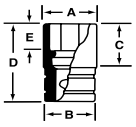
SFS201



GSF181



211SFSY



Deep, Inches, Chrome

										Set Contains: 211SFSY	214SFY	211SFY
	6	12	6	12	A	B	C	D	E	6	12	12
1/4	SFS081	SF081	GSFS081	GSF081	15/32	11/16	1-11/16	2-1/8	1/4	•	•	•
9/32	—	SF091	—	—	7/16	11/16	1-5/8	2-1/8	7/32			
5/16	SFS101	SF101	GSFS101	GSF101	15/32	11/16	1-11/16	2-1/8	7/32	•	•	•
11/32	SFS111	SF111	—	—	1/2	11/16	1-11/16	2-1/8	9/32			
3/8	SFS121	SF121	GSFS121	GSF121	9/16	11/16	1-11/16	2-1/8	5/16	•	•	•
7/16	SFS141	SF141	GSFS141	GSF141	5/8	11/16	1-11/16	2-1/8	3/8	•	•	•
1/2	SFS161	SF161	GSFS161	GSF161	23/32	11/16	1-11/16	2-1/8	7/16	•	•	•
9/16	SFS181	SF181	GSFS181	GSF181	25/32	23/32	1-29/32	2-3/8	7/16	•	•	•
19/32	—	SF191	—	—	13/16	25/32	1-29/32	2-3/8	7/16		•	
5/8	SFS201	SF201	GSFS201	GSF201	27/32	13/16	1-29/32	2-3/8	15/32	•	•	•
11/16	SFS221	SF221	GSFS221	GSF221	15/16	7/8	2-3/16	2-5/8	1/2	•	•	•
3/4	SFS241	SF241	GSFS241	GSF241	1	1	2-3/16	2-5/8	5/8	•	•	•
25/32	—	SF251	—	—	1-1/16	1-1/32	1-3/4	2-5/8	5/8			
13/16	SFS261	SF261	GSFS261	GSF261	1-1/16	1	2-1/4	2-3/4	5/8	•	•	•
7/8	SFS281	SF281	GSFS281	GSF281	1-5/32	1-1/8	2-1/4	2-3/4	23/32	•	•	•
15/16	SFS301	SF301	GSFS301	GSF301	1-1/4	1-3/16	2-1/4	2-3/4	23/32		•	
1	SFS321	SF321	GSFS321	GSF321	1-5/16	1-1/4	2-1/4	2-3/4	13/16		•	

ASME®/ANSI® B107.1

Sets include magnetic storage tray.

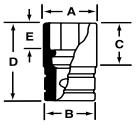
FLANK DRIVE® LOW-PROFILE SOCKETS



RFM12



210RAFMA



Low-Profile Socket Sets, mm

								Set Contains: 210RAFSMA *	210RAFMA *	209RFSM
mm	6	12	A	B	C	D	E	6	12	6
8	RFSM8	RFM8	11.6	16.5	—	16.8	3.8	•	•	•
9	RFSM9	RFM9	13.0	16.5	—	17.0	4.1			
10	RFSM10	RFM10	14.3	16.5	—	17.3	4.3	•	•	•
11	RFSM11	RFM11	16.0	16.5	—	17.7	4.8	•		
12	RFSM12	RFM12	17.2	16.5	9.8	18.1	5.1	•	•	•
13	RFSM13	RFM13	18.0	17.2	10.3	18.5	5.6	•	•	•
14	RFSM14	RFM14	19.6	18.8	10.5	18.7	6.1	•	•	•
15	RFSM15	RFM15	20.4	19.6	10.8	19.1	6.6	•	•	•
16	RFSM16	RFM16	21.1	20.4	11.4	19.6	7.1	•	•	•
17	RFSM17	RFM17	22.8	22.0	11.9	20.1	7.4	•	•	•
18	RFSM18	RFM18	24.3	23.6	12.5	20.8	7.9	•	•	•
19	RFSM19	RFM19	25.1	16.5	13.3	21.5	8.2			

*Set includes RAF80A ratchet

Sets include storage tray.

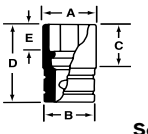
FLANK DRIVE® LOW-PROFILE SOCKETS



RF181



210RARFA



Low-Profile Socket Sets, inches

11	12	A	B	C	D	E	Set Contains: 210RARFA 12	Set Contains: 209RF 12
1/4	RF081	.46	.65	—	.66	.11	•	•
5/16	RF101	.46	.65	—	.66	.15	•	•
11/32	RF111	.49	.65	—	.68	.17		
3/8	RF121	.56	.65	—	.69	.18	•	•
7/16	RF141	.61	.65	—	.70	.19	•	•
1/2	RF161	.71	.69	.39	.39	.72	•	•
9/16	RF181	.77	.74	.42	.75	.24	•	•
5/8	RF201	.83	.80	.47	.79	.28	•	•
11/16	RF221	.93	.90	.49	.81	.30	•	•
3/4	RF241	.99	.96	.50	.82	.31	•	•

Sets include RAF80A ratchet and storage tray.

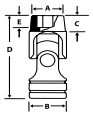
FLANK DRIVE® UNIVERSAL SOCKETS



FUM18A



206FSUMA



Shallow, mm, Chrome

mm	6	12	A	B	C	D	E	Set Contains: 206FSUMA 6	Set Contains: 209FUMY 12
8	FSUM8A	—	11.9	17.2	—	43.1	6.4		
10	FSUM10A	FUM10A	14.0	18.1	—	43.5	6.4	•	•
12	FSUM12A	FUM12A	16.8	18.1	—	45.5	7.9	•	•
13	FSUM13A	FUM13A	18.1	18.1	—	45.5	7.9	•	•
14	FSUM14A	FUM14A	18.9	18.1	—	47.9	8.9	•	•
15	FSUM15A	—	20.6	19.1	26.2	46.0	8.7	•	•
16	FSUM16A	FUM16A	21.4	19.1	27.4	46.8	9.9		•
17	FSUM17A	FUM17A	23.0	19.1	29.4	49.2	10.3	•	•
18	FSUM18A	FUM18A	24.6	19.1	29.4	49.2	10.3		•
19	FSUM19A	FUM19A	25.4	19.1	31.0	50.8	11.5		•
22	FSUM22A	—	29.4	19.1	32.5	52.4	12.7		

Sets shown include storage tray.



FU26B



206AFSA

Shallow, Inches, Chrome

11	6	12	A	B	C	D	E	Set Contains: 206AFSA 6	Set Contains: 212FUY 12	Set Contains: 206FUA 12
5/16	FS10B	FU10B	15/32	11/16	—	1-5/8	1/4		•	
3/8	FS12B	FU12B	17/32	11/16	—	1-5/8	1/4		•	
7/16	FS14B	FU14B	5/8	11/16	—	1-5/8	9/32	•	•	•
1/2	FS16B	FU16B	23/32	11/16	—	1-11/16	9/32	•	•	•
9/16	FS18B	FU18B	25/32	3/4	1-1/32	1-13/16	21/64	•	•	•
5/8	FS20B	FU20B	27/32	3/4	1-1/32	1-13/16	23/64	•	•	•
11/16	FS22B	FU22B	15/16	3/4	1-11/64	1-15/16	25/64	•	•	•
3/4	FS24B	FU24B	1	3/4	1-7/32	2	27/64	•	•	•
13/16	—	FU26B	1-1/16	3/4	1-9/32	2-1/16	15/32		•	
7/8	—	FU28B	1-5/32	3/4	1-9/32	2-1/16	33/64		•	
15/16	—	FU30A	1-1/4	3/4	1-33/64	2-9/32	35/64		•	
1	—	FU32A	1-5/16	3/4	1-33/64	2-9/32	9/16		•	

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

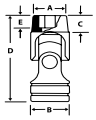
FLANK DRIVE® UNIVERSAL SOCKETS



SFSUM14



206SFSUM





FDSU22



207FSU

Deep, mm, Chrome

Set Contains: 206SFSUM

mm	6	A	B	C	D	E	6
8	SFSUM8	11.5	18.3	42.5	61.9	6.7	
10	SFSUM10	14.3	18.3	42.5	61.9	7.5	•
11	SFSUM11	15.5	18.3	27.0	61.9	9.5	
12	SFSUM12	17.1	18.3	27.0	61.9	9.5	•
13	SFSUM13	18.3	18.3	26.2	61.1	8.3	•
14	SFSUM14	19.8	18.3	26.2	61.1	9.1	•
15	SFSUM15	20.6	19.1	25.0	61.9	9.5	•
16	SFSUM16	21.4	19.1	25.0	61.9	10.3	
17	SFSUM17	23.0	19.1	22.6	61.9	10.7	•
18	SFSUM18	24.6	19.1	22.6	61.9	10.7	
19	SFSUM19	25.4	19.1	22.6	61.9	11.9	

Set includes storage tray.

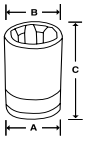
Deep, Inches, Chrome

Set Contains: 207FSU

11	6	12	A	B	C	D	E	6
3/8	FSU12	FDSU12	9/16	11/16	—	2-13/32	3/8	•
7/16	FSU14	FDSU14	5/8	11/16	—	2-13/32	7/16	•
1/2	FSU16	FDSU16	23/32	11/16	—	2-13/32	15/32	•
9/16	FSU18	—	25/32	3/4	63/64	2-7/16	33/64	•
5/8	FSU20	—	27/32	3/4	63/64	2-7/16	35/64	•
11/16	FSU22	—	15/16	3/4	57/64	2-7/16	35/64	•
3/4	FSU24	—	1	3/4	57/64	2-7/16	35/64	•
9/16	—	FDSU18	25/32	3/4	1-15/64	2	3/8	
5/8	—	FDSU20	27/32	3/4	1-5/16	2-3/32	15/32	
11/16	—	FDSU22	15/16	3/4	1-25/64	2-5/32	33/64	
3/4	—	FDSU24	1	3/4	1-15/32	2-1/4	39/64	

Set includes storage tray.

TORX® SOCKETS





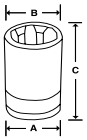
207RFLE

Low-Profile TORX®

Set Contains: 207RFLE

#	Stock No.	A	B	C	
8	RFLE80	17.2	11.4	17.3	•
10	RFLE100	17.2	12.8	20.6	•
11	RFLE110	17.2	14.3	21.1	•
12	RFLE120	17.2	15.6	21.7	•
14	RFLE140	17.2	16.9	23.0	•
16	RFLE160	17.9	18.7	24.3	•
18	RFLE180	19.5	20.3	25.4	•

Set includes magnetic storage tray.





FLE160A

213AFLEY

Shallow TORX®, Chrome

#	Stock No.	A	B	C
E8	FLE80A	15/32	11/16	1-5/32
E10	FLE100A	1/2	11/16	1-5/32
E11	FLE110A	9/16	11/16	1-5/32
E12	FLE120A	9/16	11/16	1-5/32
E14	FLE140A	5/8	11/16	1-5/32
E16	FLE160A	3/4	11/16	1-1/4
E18	FLE180A	13/16	25/32	1-5/16

Set includes magnetic storage tray.

213AFLEY 13 pc Combination Drive TORX® Shallow Socket Set

- Includes (13) sockets– 1/4″ drive (E4–E10), 3/8″ drive (E11–E14), and 1/2″ drive (E16–E24)



FLEP180

TORX Plus®, Chrome

#	Stock No.	A	B	C
EP18	**FLEP180**	3/4	13/16	1-5/16

FLEP180 3/8″ Drive TORX® Plus® EP18 Socket
- Use to remove seat hold-down nuts on 1999 and later GM® full-size pickup trucks
- 3/8″ square drive



FLCE120

Shallow TORX® with Countersink

#	Stock No.	A	B	C
E12	**FLCE120**	19/32	11/16	1-5/32
E14	**FLCE140**	11/16	5/8	1-5/32
E16	**FLCE160**	23/32	3/4	1-1/4
E18	**FLCE180**	25/32	13/16	1-5/16

FLCE120 3/8″ Drive TORX® E12 Socket with Countersink
- Use to remove/install fasteners that hold window regulators in place for BMW® 5 and 7 Series

FLCE140 3/8″ Drive TORX® E14 Socket with Countersink
- For connecting rod cap bolts on various Toyota® and Scion® vehicles
- The FLCE140 is similar to Toyota® special tool number 09013-1C551

FLCE160 3/8″ Drive TORX® E16 Socket with Countersink
- For cam sprocket on 2.5L FB engine on 2011 and current Subaru® Forester® vehicles
- For camshaft timing gear assembly on various 2012 Toyota® vehicles
- Similar to Toyota® special tool number 09013-1C560

FLCE180 3/8″ Drive TORX® E18 Socket with Countersink
- For spider gear in the rear differential on a 2010-current Chevrolet® Camaro® vehicles



SFLE120

Deep TORX®

Stock No.	Description
SFLE120	3/8″ Drive TORX® E12 Deep Socket



FLEL80

Long TORX®, Chrome
- For Delco® alternator Model CS130 found on both GM® passenger and light trucks

#	Stock No.	A	B	C
E8	**FLEL80**	19/32	7/16	5



GFLEPL180



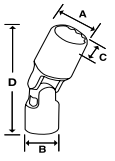
FLEPL140

TORX Plus® with Countersink

#	Stock No.	Industrial Stock No.	A	B	C
8EP	**FLEPL80**	**GFLEPL80**	7/16	11/16	1-5/32
10EP	**FLEPL100**	**GFLEPL100**	1/2	11/16	1-5/32
12EP	**FLEPL120**	**GFLEPL120**	19/32	11/16	1-5/32
14EP	**FLEPL140**	**GFLEPL140**	5/8	11/16	1-5/32
16EP	**FLEPL160**	**GFLEPL160**	3/4	23/32	1-1/4
18EP	**FLEPL180**	**GFLEPL180**	13/16	25/32	1-5/16



FSE180



Universal TORX®, Chrome

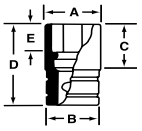
#	Stock No.	A	B	C	D
E8	**FSE80**	3/8	11/16	9/32	1-5/8
E10	**FSE100**	15/32	11/16	5/16	1-11/16
E12	**FSE120**	9/16	11/16	11/32	1-25/32
E14	**FSE140**	5/8	11/16	13/32	1-7/8
E16	**FSE160**	23/32	3/4	1-1/4	2-1/32
E18	**FSE180**	13/16	3/4	1-1/4	2-1/32
E20	**FSE200**	15/16	3/4	1-19/64	2-3/32

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener over a wider area to minimize stress, allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with AS954, Military Spec.

MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



Shallow, Inches, Chrome (3/8″)



FES120B

		Stock No.	A	B	C	D	E
#12	3/8	**FES120B**	17/32	21/32	15/32	1-1/16	11/32
#14	7/16	**FES140B**	5/8	11/16	1/2	1-3/32	7/16
#16	1/2	**FES160B**	23/32	23/32	—	1-3/32	—
#18	9/16	**FES180B**	13/16	13/16	—	1-3/32	15/32
#20	5/8	**FES200B**	7/8	7/8	—	2-3/8	9/16

209TFES 9 pc Combination Drive SAE Shallow Spline Socket Set
- Includes 1/4″ drive TES7B–TES10B and 3/8″ drive FES120B–FES200B Shallow Spline Sockets (9 pc) (#7–20, 7/32–5/8″) in magnetic socket tray

Deep, Inches, Chrome (3/8″)



FEL120B

		Stock No.	A	B	C	D	E
#12	3/8	**FEL120B**	17/32	21/32	1-17/32	2-1/8	11/32
#14	7/16	**FEL140B**	5/8	11/16	1-17/32	2-1/8	7/16
#16	1/2	**FEL160B**	23/32	23/32	1-5/8	2-1/8	7/16
#18	9/16	**FEL180B**	13/16	13/16	—	2-3/8	15/32
#20	5/8	**FEL200B**	7/8	7/8	—	2-3/8	9/16

207TFEL 7 pc Combination Drive SAE Deep Spline Socket Set
- Includes 1/4″ drive TEL7B–TEL10B and 3/8″ drive FEL120B–FEL200B Deep Spline Sockets (7 pc) (#7–20, 7/32–5/8″) in magnetic socket tray

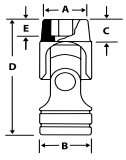
Deep, Metric, Chrome (3/8″)

3/8″ Drive Metric #10, 10 mm Hex, Deep Spline Socket



FELM10B

	mm	Stock No.	A	B	C	D	E
#10	10	**FELM10B**	14.5	16.8	40.4	54.0	10.0



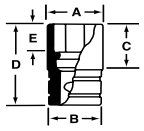
Shallow Universal, Inches, Chrome (3/8″)



FESU120

		Stock No.	A	B	C	D	E
#12	3/8	**FESU120**	9/16	3/4	5/8	1-31/32	11/32
#14	7/16	**FESU140**	21/32	3/4	11/16	2-1/32	13/32
#16	1/2	**FESU160**	3/4	3/4	11/16	2-1/16	7/16
#18	9/16	**FESU180**	27/32	3/4	23/32	2-1/8	7/16

Double Square, Inches, Chrome



	Stock No.	A	B	C	D	E
1/4	**F308**	1/2	21/32	3/8	27/32	7/32
5/16	**F310**	9/16	21/32	3/8	27/32	1/4
3/8	**F312**	21/32	11/16	15/32	15/16	9/32
7/16	**F314**	25/32	11/16	17/32	1	5/16
1/2	**F316**	7/8	25/32	17/32	1	5/16
9/16	**F318**	1	29/32	19/32	1-1/8	7/16
5/8	**F320**	1-1/16	31/32	19/32	1-1/8	7/16

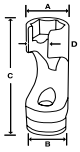


F308

Flank Drive® Flare Nut Sockets, mm



FRXM10



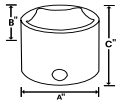
Set Contains: 210FRXM

mm	Stock No.	A	B	C	D	
10	**FRXM10**	16.9	18.3	53.3	7.2	•
11	**FRXM11**	18.1	18.7	53.3	8.3	•
12	**FRXM12**	19.3	18.3	53.3	8.8	•
13	**FRXM13**	20.4	19.1	62.5	9.4	•
14	**FRXM14**	22.0	20.5	62.5	10.4	•
15	**FRXM15**	22.6	21.0	71.6	11.2	•
16	**FRXM16**	23.5	21.9	71.6	11.7	•
18	**FRXM18**	25.9	24.3	83.8	13.5	•
19	**FRXM19**	26.7	25.1	89.9	14.2	•

Set includes magnetic storage tray.



B2190



Flank Drive® Pentagon Socket (5-Point)

A specialty socket for servicing recessed 5-point nuts found on tamper-resistant Buffalo covers used by gas, electric and some water companies to protect shutoff gates.

Stock No.	A	B	C
B2190	1-1/8	1/2	1-1/16



207FRX

Flank Drive® Flare Nut Sockets, inches

Set Contains: 207FRX

	Stock No.	A	B	C	D	
3/8	**FRX121**	5/8	3/4	2-3/32	9/32	•
7/16	**FRX141**	23/32	3/4	2-3/32	11/32	•
1/2	**FRX161**	13/16	3/4	2-1/8	3/8	•
9/16	**FRX181**	7/8	13/16	2-15/32	13/32	•
5/8	**FRX201**	15/16	7/8	2-27/32	15/32	•
11/16	**FRX221**	1	15/16	3-7/32	1/2	•
3/4	**FRX241**	1-1/16	1	3-11/32	9/16	•
7/8	**FRX281**	1-7/32	2-58	3-11/32	21/32	

Set includes magnetic storage tray.



GF22

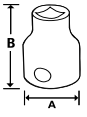
Drag Link, Industrial

Applications include use on the engine oil fill cap on Kawasaki® UN1500, UN1600 and UN2000 motorcycles.

Stock No.	A	B	C
GF22	11/16	7/64	1-1/4



PMM406A

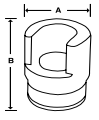


Pipe Plug, mm, Chrome

mm	External Stock No.	A	B	Internal Stock No.	A	B
6	**PMM406A**	16.4	31.0	**PMP406A**	17.2	25.8
8	**PMM408A**	17.2	31.0	—		
10	**PMM410A**	17.2	28.4	**PMP410A**	18.8	25.4



FD120



WEATHERHead® Fittings

Size, inches	Stock No.	A	B
3/8	**FD120**	11/16	1-1/4
7/16	**FD140**	13/16	1-1/4
15/32	**FD150**	7/8	1-1/4
1/2	**FD160**	15/16	1-1/4
17/32	**FD170**	1	1-1/4
9/16	**FD180**	1-1/16	1-1/4
19/32	**FD190**	1-1/16	1-1/4
21/32	**FD210**	1-3/16	1-3/8
11/16	**FD220**	1-3/16	1-3/8
3/4	**FD240**	1-1/4	1-3/8
25/32	**FD250**	1-1/4	1-3/8

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION SOCKETS



211PPPMY

211PPPMY 11 pc 3/8″ Drive SAE Internal/External Pipe Plug Socket Set
- Includes (11) Internal/External Pipe Plug Sockets (3/16–3/8″)

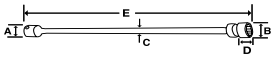
Pipe Plug, Inches, Chrome

	External Stock No.	B	Internal Stock No.	B
3/16	PPM406A	1-1/8	—	
1/4	PPM408A	1-1/8	PP408A	1
9/32	PPM409A	1-1/8	PP409A	1
5/16	PPM410A	1-1/8	PP410A	1
11/32	PPM411A	1-1/8	PP411A	1
3/8	PPM412A	1-1/8	PP412A	1

Set includes magnetic storage tray.



206PFSXM



Swivel Ball Extension Sockets, mm, Industrial

mm	6	12	A	B	C	D	E	Set Contains: 206PFSXM 6
8	PFSXM908B	—	19.1	11.4	9.5	6.3	243.4	•
10	PFSXM910B	—	19.1	14.4	9.5	5.6	243.4	•
11	PFSXM911B	—	19.1	15.6	9.5	6.3	243.8	•
12	PFSXM912B	—	19.1	16.9	9.5	6.8	244.6	•
13	PFSXM913B	—	19.1	18.4	12.4	7.6	245.9	•
14	PFSXM914B	—	19.1	19.8	12.4	9.1	247.9	•
15	PFSXM915B	—	19.1	20.4	12.4	9.1	247.4	
13	—	PFLXM13B	—	—	—	—	—	

Set includes storage tray.

PFSXM910B 3/8″ Drive 6-Point Metric 10 mm Swivel Ball Extension Power Socket
PFSXM912B 3/8″ Drive 6-Point Metric 12 mm Swivel Ball Extension Power Socket
- Applications include transmission pan bolts on Toyota® and Lexus® vehicles; faster and easier intake removal on Volvo® vehicles; several underdash applications
- Great for difficult access where the use of one tool works better than three (socket, swivel and extension)
- Flank Drive® wrenching configuration where the socket grips the fastener on the flanks/flats increasing torque by 15–20%
- Machined from tough alloy steel
- Use with hand and non-impact tools only

TORX® Swivel Ball Extension Sockets, Industrial

Size	Stock No.	A	B	C	D	E	Set Contains: 204PFSXEBR
E8	PFSXE908B	3/4	7/16	3/8	1/4	9-1/2	•
E10	PFSXE910B	3/4	1/2	3/8	1/4	9-1/2	•
E12	PFSXE912B	3/4	5/8	1/2	3/8	9-1/2	•
E14	PFSXE914B	3/4	5/8	1/2	3/8	9-5/8	•



204PFSXEBR

204PFSXEBR 4 pc 3/8″ Drive External TORX® Power Swivel Extension Socket Foam Set
- Great for difficult access where the use of one tool works better than three (socket, swivel and extension)
- 30° uninterrupted swivel action means greater accessibility in tight quarters, allowing for easier, faster removal of stubborn fasteners, thus saving time
- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer at any angle with no loss in torque output, prolonging the life of the socket
- Spring-loaded adjustable swivel pre-positions the socket for quick accessibility
- Socket end is manufactured to exact tolerances with a shallow lead-in countersink which ensures a tight fit to regular height and low profile fasteners reducing the chance of slippage or damage
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion
- Modular foam organizer is designed for maximum tool concentration on the smallest possible footprint and can be reconfigured in the drawer to accommodate new tool sets
- Contrasting colors provide visual control and eliminate time spent searching for missing tools
- Protects your investment and increases productivity
- Closed-cell cross-linked foam for superior performance and durability—resists oils, solvents and fuels, and is easy to clean

- Precision crafted from special alloy steel and heat-treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas



208FRDHM

Standard, mm, Chrome (3/8″)

Set Contains: 208FRDHM

Working Torque, in-lb	mm	12	A	B	C	D	E	12
212	—	FRDHM8	12.1	19.1	6.2	10.9	50.8	
420	10	FRDHM10	17.1	18.8	7.8	11.0	50.8	•
690	12	FRDHM12	18.8	18.8	8.2	11.0	50.8	•
720	13	FRDHM13	21.0	18.8	7.8	11.0	50.8	•
1,050	14	FRDHM14	21.0	18.8	9.4	11.0	50.8	•
1,200	15	FRDHM15	25.1	18.8	7.8	11.0	50.8	•
1,400	16	FRDHM16	22.6	18.8	11.0	11.0	50.8	•
804	17	FRDHM17	25.1	18.8	12.4	10.9	50.8	
1,400	18	FRDHM18	22.4	18.8	13.3	11.0	50.8	•
1,400	19	FRDHM19	27.4	18.8	13.3	11.0	50.8	•
2,000	21	FRDHM21	30.9	18.8	10.9	10.9	50.8	

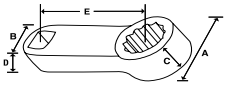


FTA35

- Design features radius edges that will resist damage/nicks
- Center-to-center length on adaptor for easy torque calculations
- Larger sizes feature thicker construction for strength



208FRDH



Standard, Inches, Chrome (3/8″)

Set Contains: 208FRDH

Working Torque, in-lb		12	A	B	C	D	E	12
190	5/16	FRDH101	0.475	.750	1/4	7/16	2	•
420	3/8	FRDH121	0.570	.750	5/16	7/16	2	•
500	7/16	FRDH141	0.655	.750	11/32	7/16	2	•
710	1/2	FRDH161	0.740	.750	11/32	7/16	2	•
1,050	9/16	FRDH181	0.825	.750	3/8	7/16	2	•
1,400	5/8	FRDH201	0.890	.750	7/16	7/16	2	•
1,400	11/16	FRDH221	0.989	.750	1/2	7/16	2	•
1,400	3/4	FRDH241	1.080	.750	1/2	7/16	2	•
2,000	7/8	FRDH281	1.28	3/4	7/16	7/16	2.0	
2,706	15/16	FRDH301	1.374	.750	7/16	7/16	2	

Torque Adaptor

FTA35 3/8″ Drive Female/Male Torque Adaptor

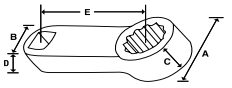
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5″ center-to-center

Spline, Low-Profile, inches

- Precision crafted from special alloy steel and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners
- Ideal for use with torque wrenches
- Will save time and avoid clearance issues when working on propeller assemblies
- Works on a wide variety of Lycoming® and Continental® engines used in Piper®, Cessna® and Mooney® aircraft



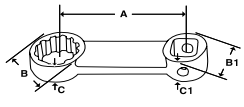
FRESL24



	Stock No.	Working Torque, in-lb	A	B	C	D	E
7/16	FRESL14	224	3/4 (19.05)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
1/2	FRESL16	312	25/32 (19.84)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
9/16	FRESL18	360	13/16 (20.64)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
5/8	FRESL20	480	29/32 (22.8)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
11/16	FRESL22	556	1 (25.1)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
3/4	FRESL24	465	1-5/64 (50.2)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
7/8	FRESL28	605	1-1/4 (31.75)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
15/16	FRESL30	888	1-5/16 (33.9)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)

Spline, Inches, Chrome (3/8″)

#		Stock No.	Working Torque, in-lb	A	B-B1	C-C1
#7	7/32	FRES7	140	2	.375–.750	1/4–7/16
#8	1/4	FRES8	195	2	.400–.750	1/4–7/16
#9	9/32	FRES9	220	2	.445–.750	1/4–7/16
#10	5/16	FRES10	250	2	.490–.750	1/4–7/16
#12	3/8	FRES12	515	2	.590–.750	5/16–7/16
#14	7/16	FRES14	875	2	.680–.750	5/16–7/16
#16	1/2	FRES16	1,575	2	.745–.750	5/16–7/16
#18	9/16	FRES18	1,750	2	.825–.750	3/8–7/16
#20	5/8	FRES20	1,750	2	.895–.750	3/8–7/16
#22	11/16	FRES22	1,750	2	.997–.750	1/2–7/16
#24	3/4	FRES24	1,750	2	1.08–.750	9/16–7/16





FRES10

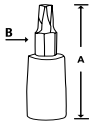
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

TORX® BIT SOCKETS



207EFTXY



TORX®/Standard, Industrial (3/8″)

Set Contains: 207EFTXY

#	Stock No.	Stock No.	A	B	
T27	FTX27E	GFTX27E	1-3/4	FTX27E2	•
T30	FTX30E	GFTX30E	1-3/4	FTX30E2	•
T40	FTX40E	GFTX40E	1-3/4	FTX40E2	•
T45	FTX45E	GFTX45E	2-1/16	FTX45E2	•
T50	FTX50E	GFTX50E	2-1/16	FTX50E2	•
T55	FTX55E	GFTX55E	2-1/32	FTX55E2	•
T60	FTX60E	—	2-5/16	FTX60E2	

Sets shown include storage tray.

	Stock No.	Stock No.	A	B	
T47	FTX47E	—	2-1/16	FTX47E2	•

T47 is not a TORX® licensed product.

207EFTXY 7 pc 3/8″ Drive TORX® Bit Standard Socket Set
- Includes (7) sockets (FTX27E–FTX55E TORX® sockets) plus FTX47E GM® Style Driver (T27–T55 plus GM® style T47)



207EFTXYSE

TORX®/Stubby, Chrome (3/8″)

Set Contains: 207EFTXYSE

#	Stock No.	A	B	
T27	FTX27SE	1-13/32	FTX27SE2	•
T30	FTX30SE	1-13/32	FTX30SE2	•
T40	FTX40SE	1-13/32	FTX40SE2	•
T45	FTX45SE	1-13/32	FTX45SE2	•
T50	FTX50SE	1-13/32	FTX50SE2	•
T55	FTX55SE	1-7/16	FTX55SE2	•

Set shown includes magnetic storage tray.

	Stock No.	A	B	
T47	FTX47SE	1-13/32	FTX47SE2	•

T47 is not a TORX® licensed product.

207EFTXYSE 7 pc 3/8″ Drive TORX® Bit Stubby Socket Driver Set
- Includes (7) bit stubby sockets: (6) TORX® (T27, T30, T40, T45, T50 and T55) and (1) T47*
- Includes magnetic storage tray



211EFTXRTPY

TORX Plus®/Tamper-Resistant, Chrome (3/8″)

#	Stock No.	A	B
27IPR	FTXR27TPE	1-3/4	FTXR27TPE2
30IPR	FTXR30TPE	1-3/4	FTXR30TPE2
40IPR	FTXR40TPE	1-3/4	FTXR40TPE2
45IPR	FTXR45TPE	2-1/32	FTXR45TPE2
50IPR	FTXR50TPE	2-5/32	FTXR50TPE2
55IPR	FTXR55TPE	2-11/32	FTXR55TPE2

Set shown includes magnetic storage tray.



FTXL27E

TORX®/Long, Chrome (3/8″)

#	Stock No.	A	B
T27	FTXL27E	4-1/4	FTXL27E2
T30	FTXL30E	4-1/4	FTXL30E2
T40	FTXL40E	4-1/4	FTXL40E2
T45	FTXL45E	4-1/4	FTXL45E2
T50	FTXL50E	4-1/4	FTXL50E2

Includes storage tray.

210EFTXL 10 pc Combination Drive TORX® Bit Long Socket Set
- Includes 1/4″ drive (T8–T25) and 3/8″ drive (T27–T50) (10 pc)



FTXB27E

TORX®/Heavy-Duty Removal, Chrome (3/8″)

#	Stock No.	A	B
T27	FTXB27E	1-13/16	FTXB27E2
T30	FTXB30E	1-13/16	FTXB30E2
T40	FTXB40E	1-13/16	FTXB40E2
T45	FTXB45E	2-1/16	FTXB45E2
T50	FTXB50E	2-1/16	FTXB50E2
T55	FTXB55E	2-1/64	FTXB55E2

Includes magnetic storage tray.

209EFTXBY 9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set
- Includes 1/4″ drive (T15–T25) and 3/8″ drive (T27–T55) (9 pc)
- Tapered profile provides better engagement on stubborn fasteners

FTXR40TPE 3/8″ Drive TORX® Plus® 40IPR Tamper-Resistant Bit Socket Driver
- Quickly removes and replaces the reverse idler shaft on 2001/2002 Ford® Mustang® GT vehicles using the TREMEC3650 manual transmission
- Also use on the camshaft bolts on 2008 Toyota® Tundra® with the 5.7 L engine
- Five-lobe configuration
- 2 pc pinless design holds bit securely in socket while facilitating quick bit replacement
- Cold-formed socket delivers a strong, durable tool
- Chrome plating resists corrosion and clean easily
- For sale to authorized technicians only

211EFTXRTPY 11 pc Combination Drive Tamper-Resistant TORX® Plus® Socket Driver Set
- Includes 1/4″ drive (8IPR–55IPR) and 3/8″ Drive (27IPR–55IPR)
- Applications: 2003 Ford® Mustang® transmissions, 2004 Ford® F-150 transfer case, 2004 Porsche® Cayenne® turbo air sensor, Delphi® and Stanadyne® pumps, Cummins® B and C engine injection pumps and John Deere® diesel injector pumps
- Includes magnetic storage tray

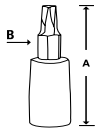
TORX®/Tamper-Resistant, Chrome (3/8″)

#	Stock No.	A	B
T27	FTXR27E	1-3/4	FTXR27E2
T30	FTXR30E	1-3/4	FTXR30E2
T40	FTXR40E	1-3/4	FTXR40E2
T45	FTXR45E	2-1/16	FTXR45E2
T50	FTXR50E	2-1/16	FTXR50E2

Set shown includes magnetic storage tray.



210EFTXRY





FTXR27E

210EFTXRY 10 pc Combination Drive TORX® Bit Tamper-Resistant Socket Set
- Includes 1/4″ drive (TR8–TR25) and 3/8″ drive (TR27–TR50) (10 pc)



FTX47E2



GFTX500E

TORX®/Special Application, Chrome (3/8″)

#	Stock No.	Description	A	B
T40	FTXEL40E	3/8″ Drive TORX® Plus® T40 Extra-Long Bit Socket Driver	7-1/2	FTXEL40E2
T45	FTXEL45E	3/8″ Drive TORX® Plus® T45 Extra-Long Bit Socket Driver	7-11/16	FTXEL45E2
40IPR	FTXR40TPE	3/8″ Drive TORX® Plus® 40IPR Tamper-Resistant Bit Socket Driver	1-3/4	FTXR40TPE2
T30	FTXEL30TPE	3/8″ Drive TORX® Plus® T30 Extra-Long Bit Socket Driver	5	FTXEL30TPE2

	Stock No.	Description	A	B
T47	FTX47E	3/8″ Drive T47 Standard Bit Socket Driver	2-1/16	FTX47E2
T47	GFTX500E	3/8″ Drive T47 GM®-Style Bit Socket Driver	2-1/16	FTX500E2

T47 is not a TORX® licensed product.

FTXEL40E 3/8″ Drive TORX® Plus® T40 Extra-Long Bit Socket Driver
- Applications include service on intake manifold bolts on Ford® 5.0 L engines with fuel injection, model years 1985–1990

FTX47E 3/8″ Drive T47 Standard Bit Socket Driver
- For use on GM® door strikers

FTXEL45E 3/8″ Drive TORX® Plus® T45 Extra-Long Bit Socket Driver
- Quickly and easily access intake bolts on Cummins® N14 diesel engines without removing the air pump
- Can also be used on older Cummins® NH Big Cam 4 diesel engines
- 3/8″ square drive
- Various applications on European vehicles

FTXEL30TPE 3/8″ Drive TORX® Plus® T30 Extra-Long Bit Socket Driver
- For removing the engine harness from the firewall on 2007 and newer
- For Volvo® trucks with D16, MPT 8 and MPT 10 engines, Cummins® ISX fuel timing and metering actuators

GFTX500E 3/8″ Drive T47 GM®-Style Bit Socket Driver
- For use on GM® door strikers and seat belt bolts
- For 12CT curved tooth file

TORX Plus®/Chrome (3/8″)

#	Stock No.	A	B
27IP	FTX27TPE	1-3/4	FTX27TPE2
30IP	FTX30TPE	1-3/4	FTX30TPE2
40IP	FTX40TPE	1-3/4	FTX40TPE2
45IP	FTX45TPE	2-1/8	FTX45TPE2
50IP	FTX50TPE	2-1/8	FTX50TPE2
55IP	FTX55TPE	2-5/16	FTX55TPE2

Set shown includes magnetic storage tray.



211EFTXTPY



FTX27TPE

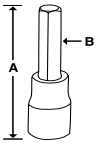
211EFTXTPY 11 pc Combination Drive TORX® Plus® Bit Socket Driver Set
- Includes 1/4″ drive (8IP–25IP) and 3/8″ drive (27IP–55IP) (11 pc)
- TORX® Plus® fasteners may be found in almost all vehicles from the 1999 model year to present
- Common applications include GM® transmission bell housing bolts, Ford® seat belt anchors and Ford® Taurus® and Sable® front spring shields
- Use of a standard TORX® driver on TORX® Plus® fasteners may result in a rounded-out fastener head or damaged driver

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

METRIC HEX BIT SOCKETS



211EFAMY



Hex/Standard, mm, Chrome (3/8″)

mm		A	B	Set Contains: 211EFAMY	207EFAMY
2	FAM2E	47.8	FAM2E2		
2.5	FAM2.5E	47.8	FAM2.5E2		
3	FAM3E	47.8	FAM3E2		
4	FAM4E	17.2	FAM4E2	•	•
5	FAM5E	17.2	FAM5E2	•	•
6	FAM6E	17.2	FAM6E2	•	•
7	FAM7E	52.3	FAM7E2	•	•
8	FAM8E	52.6	FAM8E2	•	•
9	FAM9E	52.6	FAM9E2	•	•
10	FAM10E	52.6	FAM10E2	•	•
11	FAM11E	69.9	FAM11E2	•	
12	FAM12E	69.9	FAM12E2	•	
13	FAM13E	69.9	FAM13E2	•	
14	FAM14E	69.9	FAM14E2	•	

Sets include magnetic storage tray.

210EFTAMY 10 pc Combination Drive Metric Standard Hex Bit Socket Set

- Includes (10) 1/4 and 3/8″ drive Standard Hex Bit Sockets (2–10 mm)



206EFAML

Hex/Long, mm, Chrome (3/8″)

mm		A	B	Set Contains: 206EFAML
4	FAML4E	17.2	FAML4E2	•
5	FAML5E	17.2	FAML5E2	•
6	FAML6E	17.2	FAML6E2	•
7	FAML7E	17.2	FAML7E2	•
8	FAML8E	17.2	FAML8E2	•
10	FAML10E	17.2	FAML10E2	•



FAMXS10E

208EFTAMXSY



FABM10E

208EFTABMY

Hex/Stubby, mm, Chrome (3/8″)

mm		A	B
7	FAMXS7E	34.8	FAMXS7E2
8	FAMXS8E	35.8	FAMXS8E2
9	FAMXS9E	36.8	FAMXS9E2
10	FAMXS10E	37.8	FAMXS10E2

Set includes magnetic storage tray.

208EFTAMXSY 8 pc Combination Drive Metric Hex Bit Stubby Socket Driver Set

- Includes (8) socket drivers—1/4″ drive and 3/8″ drive (3–10 mm)

Ball Hex/Standard, mm, Chrome (3/8″)

mm		A	B
7	FABM7E	52.5	FABM7E2
8	FABM8E	52.5	FABM8E2
9	FABM9E	52.5	FABM9E2
10	FABM10E	52.6	FABM10E2

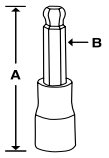
Set includes magnetic storage tray.

208EFTABMY 8 pc Combination Drive Metric Ball Hex Bit Socket Set

- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4″ drive and 3/8″ drive (3–10 mm)



206EFABLM



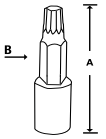
Ball Hex/Long, mm, Chrome (3/8″)

mm		A	B	206EFABLM Set Contains:
4	FABLM4E	129.3	FABLM4E2	•
5	FABLM5E	128.5	FABLM5E2	•
6	FABLM6E	128.5	FABLM6E2	•
7	FABLM7E	128.5	FABLM7E2	•
8	FABLM8E	127.3	FABLM8E2	•
10	FABLM10E	128.3	FABLM10E2	•

Set shown includes storage tray.



FADM8E



Double Hex/Standard, mm, Chrome (3/8″)

- Double Hex Socket Drivers and Triple Square Socket Drivers cannot be interchanged between applications
- Triple square hex sockets have 90° corners and double hex bit sockets have 120° corners
- Using a Triple Square tool in a Double Hex application will strip the bolt head
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

mm		A	B
8	FADM8E	18	FADM8E2
8	FADM8LE	18	FADM8LE2

FADM8E 3/8″ Drive Metric 8 mm Standard Double Hex Socket Driver

- Applications: Removal/installation of head bolts on Toyota® Tercel 1995 and later, and Paseo (1992–1997)

FADM8LE 3/8″ Drive Metric 8 mm Double Hex Long Bit Socket Driver



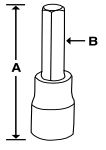
212EFTAY



208EGFAY



GFA10E



Hex/Standard, inches (3/8″)

			A	B	Fits These Cap Screws	Fits These Set Screws	208EFAY Set Contains:	208EGFAY Set Contains:
1/8	FA4E	GFA4E	2-1/16	TMA4E2	—	1/4″	•	•
9/64	FA4.5E	GFA4.5E	2-1/16	TMA4.5E2	#8	—	•	•
5/32	FA5E	GFA5E	2-1/16	FA5E2	#10	5/16″	•	•
3/16	FA6E	GFA6E	2-1/16	FA6E2	1/4″	3/8″	•	•
7/32	FA7E	GFA7E	2-1/16	FA7E2	—	7/16″	•	•
1/4	FA8E	GFA8E	2-1/16	FA8E2	5/16″	1/2″	•	•
5/16	FA10E	GFA10E	2-1/16	FA10E2	3/8″	5/8″	•	•
3/8	FA12E	GFA12E	2-3/32	SA12E2	7/16″ and 1/2″	3/4″	•	•

Sets shown include storage tray.

212EFTAY 12 pc Combination Drive SAE Standard Hex Driver Bit Socket Set

- Includes (12) 1/4 and 3/8″ drive Standard Hex Bit Sockets (1/16–3/8″)

Hex/Stubby, Inches, Chrome (3/8″)

		A	B
7/32	FAXS7E	1-5/16	FAXS7E2
1/4	FAXS8E	1-11/32	FAXS8E2
5/16	FAXS10E	1-13/32	FAXS10E2
3/8	FAXS12E	1-15/32	FAXS12E2

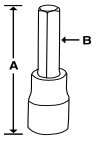
Set shown includes magnetic storage tray.



208EFTAXSY



FAXS10E



208EFTAXSY 8 pc Combination Drive SAE Hex Bit Stubby Socket Driver Set

- Includes (8) 1/4 and 3/8″ drive Stubby Hex Bit Sockets (1/8–3/8″)

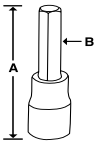
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

HEX BIT SOCKETS



206EFAL



Hex/Long, Inches, Chrome (3/8″)

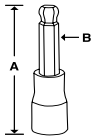
Set Contains: 206EFAL

		A	Fits These Cap Screws	Fits These Set Screws	B	
5/32	FA5LE	6-1/16	#10	5/16″	FA5LE2	•
3/16	FA6LE	6-1/8	1/4″	3/8″	FA6LE2	•
7/32	FA7LE	6-1/8	—	7/16″	FA7LE2	•
1/4	FA8LE	6-1/8	5/16″	1/2″	FA8LE2	•
5/16	FA10LE	6-1/16	3/8″	5/8″	FA10LE2	•
3/8	FA12LE	6-1/16	1/4″	3/4″	FA12LE2	•

Set shown includes storage tray.



206EFABL



Ball Hex/Long, Inches, Chrome (3/8″)

Set Contains: 206EFABL

		A	B	
5/32″	FABL5E	5-1/16	FABL5E2	•
3/16″	FABL6E	5-1/16	FABL6E2	•
7/32″	FABL7E	5-1/16	FABL7E2	•
1/4″	FABL8E	5-1/16	FABL8E2	•
5/16″	FABL10E	5-1/16	FABL10E2	•
3/8	FABL12E	5-1/16	FABL12E2	•

Sets shown include storage tray.

Ball Hex/Standard, Inches, Chrome (3/8″)

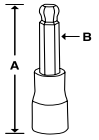
		A	B
7/32″	FAB7E	2-3/32	FAB7E2
1/4″	FAB8E	2-3/32	FAB8E2
5/16	FAB10E	2-3/32	FAB10E2
3/8	FAB12E	2-3/32	FAB12E2



FAB10E



208EFTABY



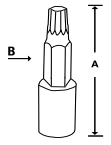
208EFTABY 8 pc Combination Drive SAE Standard Ball Hex Bit Socket Set

- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4″ drive and 3/8″ drive (1/8–3/8″), in a magnetic storage tray

TRIPLE SQUARE BIT SOCKETS



FTSM8LE



Triple Square/Long, mm, Chrome (3/8″)

- Double hex sockets and triple square sockets cannot be interchanged between applications
- Using a triple square tool in a double hex application will strip the bolt head
- In general, triple square tools are used on European vehicles and double hex tools are used on Asian vehicles

Type	mm	Stock No.	A	B
Standard Length	4	FTSM4E	48.5	FTSM4E2
	5	FTSM5E	48.5	FTSM5E2
	6	FTSM6E	48.5	FTSM6E2
	8	FTSM8E	58	FTSM8E2
	10	FTSM10E	67.8	FTSM10E2
Long	8	FTSM8LE	84.6	FTSM8LE2
	10	FTSM10LE	101.6	FTSM10LE2

Set shown includes storage tray.

TSS7KIT 7 pc Combination Drive Metric Standard Triple Square Socket Driver Set

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

FTSM6E 3/8″ Drive Metric 6 mm Standard Triple Square Bit Socket

- Use to remove seat hold-down nuts on 1999 and later GM® full-size pickup trucks; also for use on VW® disc brake calipers

FTSM8E 3/8″ Drive Metric 8 mm Standard Triple Square Bit Socket

- Remove and install head and accessory bolts on Mercedes-Benz® and axle shaft bolts on VW® and Audi® vehicles

FTSM10E 3/8″ Drive Metric 10 mm Standard Triple Square Bit Socket

- Used for cylinder head bolts and drive shaft bolts on Mercedes-Benz® and remove and install axle shaft bolts on VW® and Audi® vehicles

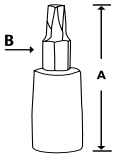
SPECIAL APPLICATION BIT SOCKETS

Mortorq®/Standard, Industrial (3/8″)

#	Stock No.	A	B
MTS-0	PFMTS0E	1-3/4	PFMTS0E2
MTS-1	PFMTS1E	1-3/4	PFMTS1E2
MTS-2	PFMTS2E	1-3/4	PFMTS2E2
MTS-3	PFMTS3E	2-1/8	PFMTS3E2
MTS-4	PFMTS4E	2-1/8	PFMTS4E2


PFMTS2E


PFMTS4E



PFMTS4E 3/8″ Drive Mortorq® MTS-4 Pinless Bit Socket Driver
- Use to remove/install the bolts that secure the bell housing to the transmission on GM® 4L60 transmissions

PFMTS1E 3/8″ Drive Mortorq® MTS-1 Pinless Bit Socket Driver
- Applications: For seat tracks on 2009 Mazda® 6
- Other seat applications: Cadillac® CTS®, Nissan® Maxima® and Altima®

Ribe® Bit Sockets

Size	Stock No.	A	B	C	D
R5	F5RBE	0.679	1	2.072	F5RBE2
R6	F6RBE	0.679	1	2.072	F6RBE2
R8	F8RBE	0.679	1	2.072	F8RBE2
R10	F10RBE	0.706	1	2.072	F10RBE2


F10RBE

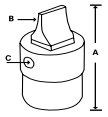
FLAT TIP BIT SOCKETS

— Flat Tip (3/8″)

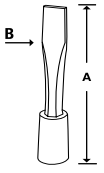
		Stock No.	Industrial Stock No.	A	B
Standard Length	3/8	F23E	—	3	F23E2A
	3/8	F25E	GF25E	3	F25E2A
	3/8	F31E	GF31E	3-7/16	F31E2A
Short	3/8	F42E	—	1-13/16	F42E2
	3/8	F52E	—	1-13/16	F52E2
	3/8	F62E	GF62E	1-27/32	F62E2


F23E


GF25E




F42E



PHILLIPS® TIP BIT SOCKETS

✚ PHILLIPS® (3/8″)

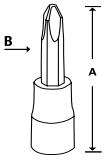
		Stock No.	Industrial Stock No.	A	B
Standard Length	#2	FP22E	GFP22E	2-1/16	FP22E2
	#3	FP32E	—	2-5/16	FP32E2
	#4	FP41E	—	1-21/32	FP41E2
Short	#3	FPS32E	—	1-29/32	SP32E2
Long	#2	FP24E	—	4-1/32	FP24E2
	#3	FP34E	—	4-1/32	FP34E2
	#4	FP42E	—	2-9/16	FP42E2


GFP22E


FP22E


FPS32E


FP34E



POZIDRIV® AND CLUTCH BIT SOCKETS

✚ Pozidriv®/Standard, Chrome (3/8″)

#	Stock No.	A	B
#2	FPD22E	2-1/16	FPD22E2
#3	FPD32E	2	FPD32E2



FPD32E

⬬ Clutch/Standard, Chrome (3/8″)

	Stock No.	A	B
3/8	F29E	3/8	1-3/4
5/16	F30E	19/64	1-3/4


F29E

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

IMPACT DRIVERS AND SETS



PIT2230E



234EPIT

Impact Drivers (3/8″)

Stock No.	Description	PIT2230E	234EPIT
		Set Contains:	
PIT120	3/8″ Drive Impact Driver	•	•
F42E	3/8″ Drive 1/4″ Flat Tip Short Bit Socket Driver	•	
F52E	3/8″ Drive 5/16″ Flat Tip Short Bit Socket Driver	•	
F62E	3/8″ Drive 3/8″ Flat Tip Short Bit Socket Driver	•	
FA6E	3/8″ Drive SAE 3/16″ Standard Hex Bit Socket Driver	•	
FA7E	3/8″ Drive SAE 7/32″ Standard Hex Bit Socket Driver	•	
FA8E	3/8″ Drive SAE 1/4″ Standard Hex Bit Socket Driver	•	•
FA10E	3/8″ Drive SAE 5/16″ Standard Hex Bit Socket Driver	•	•
FA12E	3/8″ Drive SAE 3/8″ Standard Hex Bit Socket Driver	•	•
FA12E2	3/8″ Standard Hex Driver Bit		•
FAM7E	3/8″ Drive Metric 7 mm Standard Hex Bit Socket Driver		•
FAM8E	3/8″ Drive Metric 8 mm Standard Hex Bit Socket Driver		•
FAM9E	3/8″ Drive Metric 9 mm Standard Hex Bit Socket Driver		•
FTXB30E	3/8″ Drive TORX® T30 Heavy-Duty Removal Bit Socket Driver		•
FTXB40E	3/8″ Drive TORX® T40 Heavy-Duty Removal Bit Socket Driver		•
FTXB45E	3/8″ Drive TORX® T45 Heavy-Duty Removal Bit Socket Driver		•
FTXB50E	3/8″ Drive TORX® T50 Heavy-Duty Removal Bit Socket Driver		•
FTXB55E	3/8″ Drive TORX® T55 Heavy-Duty Removal Bit Socket Driver		•
FTXB30E2	T30 TORX® Heavy-Duty Removal Driver Bit		•
FTXB40E2	T40 TORX® Heavy-Duty Removal Driver Bit		•
FTXB50E2	T50 TORX® Heavy-Duty Removal Driver Bit		•
FP22E	3/8″ Drive #2 PHILLIPS® Standard Bit Socket Driver	•	•
FP32E	3/8″ Drive #3 PHILLIPS® Standard Bit Socket Driver	•	•
FP41E	3/8″ Drive #4 PHILLIPS® Standard Bit Socket Driver	•	
FP42E	3/8″ Drive #4 PHILLIPS® Long Socket Driver	•	
F29E	3/8″ Drive SAE 3/8″ Clutch Bit Socket Driver	•	
F30E	3/8″ Drive SAE 5/16″ Clutch Socket Driver	•	
FPD22E	3/8″ Drive #2 Pozidriv® Tip Bit Socket Driver	•	
FPS32E	3/8" Drive #3 PHILLIPS® Short Socket Driver		
IMF120A	3/8″ Drive 6-Point SAE 3/8″ Flank Drive® Shallow Impact Socket	•	
IMF140A	3/8″ Drive 6-Point SAE 7/16″ Flank Drive® Shallow Impact Socket	•	
IMF160	3/8″ Drive 6-Point SAE 1/2″ Flank Drive® Shallow Impact Socket	•	
IMF180	3/8″ Drive 6-Point SAE 9/16″ Flank Drive® Shallow Impact Socket	•	
IMF200	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Shallow Impact Socket	•	
IMF220	3/8″ Drive 6-Point SAE 11/16″ Flank Drive® Shallow Impact Socket	•	
IMF240	3/8″ Drive 6-Point SAE 3/4″ Flank Drive® Shallow Impact Socket	•	
IMFA16	3/8″ Drive SAE 1/2″ Impact Rated Hex Driver		
IMFA18	3/8″ Drive SAE 9/16″ Impact Rated Hex Driver		
IMFAM12	3/8″ Drive Metric 12 mm Impact Rated Hex Driver		
IMFAM14	3/8″ Drive Metric 14 mm Impact Rated Hex Driver		
IMFM12	3/8″ Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket		•
IMFM13	3/8″ Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket		•
IMFM14	3/8″ Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket		•
IMFM15	3/8″ Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket		•
IMFM17	3/8″ Drive 6-Point Metric 17 mm Flank Drive® Shallow Impact Socket		•
IMFM18	3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Impact Socket		•
IMFM10A	3/8" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket		•
GF22	3/8" Drive 11/16" Blade Width Drag Link Socket	•	
KRA142B	Metal Storage Case	•	
PAKPB070	Plastic Storage Box for 234EPIT		•
FAM10E2	10 mm Standard Hex Driver Bit		•
SAM10E2	10 mm Standard Hex Driver Bit		•
SP32E2	#3 PHILLIPS® Short Driver Bit		•

Sets include storage case.

PIT2230E 36 pc 3/8″ Drive Impact Driver Set
- Includes PIT120 Impact Driver plus all sockets, screwdrivers and replacement bits (36 pc) conveniently displayed in a storage tray that fits in the KRA142 metal box

234EPIT 34 pc 3/8″ Drive Impact Driver Set
- Includes PIT120 impact driver plus all sockets, screwdrivers and replacement bits (34 pc) in a storage case

Impact Drivers (3/8″)

Stock No.	Description	Set Contains: 208EPIT
PIT120	3/8″ Drive Impact Driver	•
F42E	3/8″ Drive 1/4″ Flat Tip Short Bit Socket Driver	•
F52E	3/8″ Drive 5/16″ Flat Tip Short Bit Socket Driver	•
F62E	3/8″ Drive 3/8″ Flat Tip Short Bit Socket Driver	•
FP22E	3/8″ Drive #2 PHILLIPS® Standard Bit Socket Driver	•
FP32E	3/8″ Drive #3 PHILLIPS® Standard Bit Socket Driver	•
FP42E	3/8″ Drive #4 PHILLIPS® Long Socket Driver	•
FPD22E	3/8″ Drive #2 Pozidriv® Tip Bit Socket Driver	•

Set includes PB108A Storage Case.

PIT120 3/8″ Drive Impact Driver
- Delivers cam action impact when struck with a hammer for loosening or tightening fasteners
- Industrial finish



PIT120

208EPIT

IMPACT ACCESSORIES



204IMXA

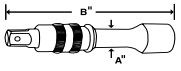
Extensions/Impact

Stock No.	A	B	Set Contains: 204IMXA
IMX11	1/2	1-3/4	•
IMX31	1/2	3	•
IMX61	1/2	6	•
IMX111	1/2	11	•

Set includes storage tray.



IMXL61



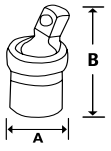
Locking Extensions
- Quick-release locking sleeve provides a secure connection plus easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands

Stock No.	A	B
IMXL31	1/2	3
IMXL61	1/2	6
IMXL111	1/2	11



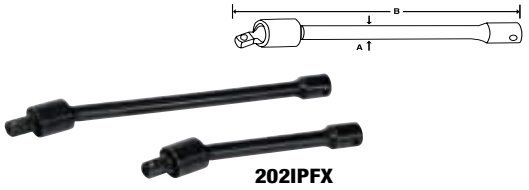
IPF800B

IPF80B



Universal Joints (Impact)

Stock No.	Socket Attachment	A	B
IPF80B	Pin Type	1	2-1/8
IPF800B	Ball Type	1	2-1/8



202IPFX

Swivel Extensions
- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Provides versatility for the technician to use any size shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket

Stock No.	Shank Dia., inches	Length, inches	Set Contains: 202IPFX
IPFX6	9/16	6	•
IPFX9	9/16	9	•

Sets shown include magnetic storage tray.

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

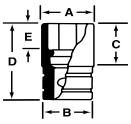
FLANK DRIVE® IMPACT SOCKETS



IMDFM14



214IMFMYA



Shallow, mm

mm	6	12	A	B	C	D	E	Set Contains: 214IMFMYA 6	Set Contains: 207IMDFMYA 12
6	IMFM6	IMDFM6	10.3	17.5	10.3	22.2	5.6		
7	IMFM7	IMDFM7	11.9	17.5	10.3	22.2	5.6		
8	IMFM8A	IMDFM8A	12.8	17.2	11.1	23.0	6.4	•	
9	IMFM9A	IMDFM9	14.0	17.2	11.0	23.0	7.1	•	
10	IMFM10A	IMDFM10A	15.1	17.2	11.0	23.0	7.1	•	•
11	IMFM11A	IMDFM11A	16.7	18.8	11.6	23.8	7.1	•	
12	IMFM12	IMDFM12	18.8	18.0	11.6	23.8	7.1	•	•
13	IMFM13	IMDFM13	18.8	18.8	12.4	24.6	7.4	•	•
14	IMFM14	IMDFM14	20.4	20.4	13.5	27.0	9.1	•	•
15	IMFM15	IMDFM15	21.2	21.2	13.5	27.0	9.1	•	•
16	IMFM16	IMDFM16	22.7	22.7	14.1	27.8	10.4	•	
17	IMFM17	IMDFM17	24.3	24.3	14.4	28.2	10.2	•	•
18	IMFM18	IMDFM18	25.1	25.1	14.3	29.0	10.9	•	•
19	IMFM19	IMDFM19	26.7	26.7	15.6	30.6	11.7	•	
20	IMFM20	IMDFM20	28.3	28.3	16.5	30.9	12.2	•	
21	IMFM21	IMDFM21	28.8	28.8	17.5	29.5	12.2	•	
22	IMFM22	IMDFM22	29.9	29.9	18.3	32.9	13.0		
23	IMFM23	—	31.5	31.5	19.3	31.5	13.2		
24	IMFM24	—	32.6	32.6	21.1	33.0	14.5	•	

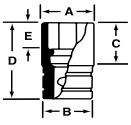
Sets shown include magnetic storage tray.



IMF120A



212IMFYA



Shallow, inches

"	6	12	A	B	C	D	E	Set Contains: 212IMFYA 6	Set Contains: 207IMDFY 12
1/4	IMF080	—	7/16	11/16	7/16	7/8	7/32		
5/16	IMF100A	—	1/2	11/16	3/8	7/8	1/4	•	
3/8	IMF120A	IMDF120A	9/16	11/16	7/16	7/8	3/16	•	•
7/16	IMF140A	IMDF140A	21/32	3/4	7/16	15/16	9/32	•	•
1/2	IMF160	IMDF160	3/4	3/4	7/16	15/16	9/32	•	•
9/16	IMF180	IMDF180	13/16	13/16	7/16	15/16	9/32	•	•
5/8	IMF200	IMDF200	29/32	29/32	7/16	15/16	9/32	•	•
11/16	IMF220	IMDF220	31/32	31/32	9/16	1-1/32	3/8	•	•
3/4	IMF240	IMDF240	1-1/16	1-1/16	9/16	1-3/32	13/32	•	•
13/16	IMF260	—	1-1/8	1-1/8	11/16	1-3/16	1/2	•	
7/8	IMF280	—	1-3/16	1-3/16	3/4	1-9/32	1/2	•	
15/16	IMF300	—	1-9/32	1-9/32	13/16	1-5/16	17/32	•	
1	IMF320	—	1-11/32	1-9/32	13/16	1-5/16	9/16	•	

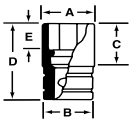
Sets shown include magnetic storage tray.



IMFMS12



212IMFMSYA



Semi-Deep, mm

Set Contains:							207IMFMS	212IMFMSYA
mm	6	A	B	C	D	E	6	6
6	IMFMS6	10.3	17.5	28.6	41.3	5.6		
7	IMFMS7	11.9	17.5	28.6	41.3	6.4		
8	IMFMS8A	12.8	17.2	29.3	41.3	6.4		•
9	IMFMS9A	14.0	17.2	29.3	41.3	7.1		•
10	IMFMS10A	15.1	17.2	29.3	41.3	9.7	•	•
11	IMFMS11A	17.2	17.2	29.3	41.3	9.7		•
12	IMFMS12	18.0	18.0	29.3	41.3	9.7	•	•
13	IMFMS13	19.6	19.6	29.3	41.3	10.4	•	•
14	IMFMS14	20.4	20.4	29.3	41.3	10.4	•	•
15	IMFMS15	21.2	21.2	29.3	41.3	10.4	•	•
16	IMFMS16	22.7	22.7	29.3	41.3	10.4		•
17	IMFMS17	24.3	24.3	29.3	41.3	11.2	•	•
18	IMFMS18	25.1	25.1	29.3	41.3	11.2	•	•
19	IMFMS19	26.7	26.7	29.3	41.3	11.7		•
20	IMFMS20	28.6	28.6	22.2	41.3	11.9		
21	IMFMS21	29.2	25.1	29.3	65.7	12.4		

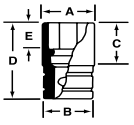
Sets shown include magnetic storage tray.



IMFS16



210IMFSYA



Semi-Deep, inches

Set Contains:							207IMFS	210IMFSYA
11	6	A	B	C	D	E	6	6
1/4	IMFS8	13/32	11/16	1-1/4	1-5/8	7/32		
5/16	IMFS10A	1/2	11/16	1-5/32	1-5/8	1/4		•
3/8	IMFS12A	9/16	11/16	1-5/32	1-5/8	9/32	•	•
7/16	IMFS14A	21/32	3/4	1-5/32	1-5/8	11/32	•	•
1/2	IMFS16	3/4	3/4	1-5/32	1-5/8	13/32	•	•
9/16	IMFS18	13/16	13/16	1-5/32	1-5/8	13/32	•	•
5/8	IMFS20	29/32	29/32	1-5/32	1-5/8	13/32	•	•
11/16	IMFS22	31/32	31/32	1-5/32	1-5/8	7/16	•	•
3/4	IMFS24	1-1/16	1-1/16	1-5/32	1-5/8	15/32	•	•
13/16	IMFS26	1-1/8	1-1/8	1-5/32	1-5/8	1/2		•
7/8	IMFS28	1-3/16	1-3/16	1-5/32	1-5/8	17/32		•
15/16	IMFS30	1-9/32	1-9/32	1	1-3/4	9/16		
1	IMFS32	1-5/16	1-5/16	1	1-3/4	5/8		

Sets shown include magnetic storage tray.

WARNING • Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS



SIMDFM14



214SIMDFMYA

Deep, mm

mm	6	12	A	B	C	D	E	Set Contains: 214SIMFMYA 6	Set Contains: 214SIMDFMYA 12
6	SIMFM6	SIMDFM6	10.3	17.5	44.9	54.0	5.6		
7	SIMFM7	SIMDFM7	11.9	17.5	44.9	54.0	6.4		
8	SIMFM8A	SIMDFM8A	12.8	17.2	38.1	54.0	6.4	•	•
9	SIMFM9A	SIMDFM9A	14.0	17.2	38.1	54.0	7.1	•	•
10	SIMFM10A	SIMDFM10A	15.1	17.2	38.1	54.0	9.7	•	•
11	SIMFM11A	SIMDFM11A	17.2	17.2	38.1	54.0	9.7	•	•
12	SIMFM12	SIMDFM12	18.0	18.0	38.1	54.0	9.7	•	•
13	SIMFM13	SIMDFM13	19.6	19.6	38.1	54.0	10.4	•	•
14	SIMFM14	SIMDFM14	20.4	20.4	42.7	60.3	10.4	•	•
15	SIMFM15	SIMDFM15	21.2	21.2	42.7	60.3	10.4	•	•
16	SIMFM16	SIMDFM16	22.7	22.7	42.7	60.3	10.4	•	•
17	SIMFM17	SIMDFM17	24.3	24.3	47.0	66.7	11.2	•	•
18	SIMFM18	SIMDFM18	25.1	25.1	47.0	66.7	11.2	•	•
19	SIMFM19	SIMDFM19	26.7	26.7	47.0	66.7	14.2	•	•
20	SIMFM20	SIMDFM20	28.3	28.3	47.0	66.7	12.2		
21	SIMFM21	SIMDFM21	28.9	28.9	47.0	66.7	12.4	•	•
22	SIMFM22	—	29.9	29.9	51.6	73.0	13.0		
23	SIMFM23	—	31.5	31.5	51.6	73.0	13.0		
24	SIMFM24	SIMDFM24	33.0	33.0	58.2	73.0	14.7	•	•

Sets shown include magnetic storage tray.



SIMF260



207SIMDFYA



212SIMFYA

Deep, inches

	6	12	A	B	C	D	E	Set Contains: 207SIMFYA 6	Set Contains: 207SIMDFYA 12	Set Contains: 212SIMFYA 6
1/4	SIMF080	—	7/16	11/16	1-13/16	2-1/8	7/32			
5/16	SIMF100A	—	1/2	11/16	1-1/2	2-1/8	3/16			•
3/8	SIMF120A	SIMDF120A	9/16	11/16	1-1/2	2-1/8	9/32	•	•	•
7/16	SIMF140A	SIMDF140A	21/32	3/4	1-1/2	2-1/8	5/16	•	•	•
1/2	SIMF160	SIMDF160	3/4	3/4	1-1/2	2-1/8	3/8	•	•	•
9/16	SIMF180	SIMDF180	13/16	13/16	1-1/2	2-1/8	7/16	•	•	•
5/8	SIMF200	SIMDF200	29/32	29/32	1-1/2	2-3/8	7/16	•	•	•
11/16	SIMF220	SIMDF220	31/32	31/32	1-1/2	2-5/8	1/2	•	•	•
3/4	SIMF240	SIMDF240	1-1/16	1-1/16	1-1/2	2-5/8	9/16	•	•	•
13/16	SIMF260	—	1-1/8	1-1/8	2-1/16	2-3/4	9/16			•
7/8	SIMF280	—	1-3/16	1-3/16	2-1/16	2-3/4	9/16			•
15/16	SIMF300	—	1-9/32	1-9/32	2-1/32	2-3/4	9/16			•
1	SIMF320	—	1-11/32	1-11/32	2-3/16	2-3/4	5/8			•

• Read safety precautions on pages W1 to W4

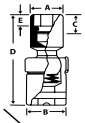
Sets shown include magnetic storage tray.



IPDFM12A



207IPDFM



Shallow, mm

mm	6	12	A	B	C	D	E	Set Contains: 212IPFM 6	207IPFM 6	207IPDFM 12
8	IPFM8C	—	12.8	26.0	10.4	51.6	6.4	•		
9	IPFM9C	—	14.1	26.0	10.9	52.6	6.4			
10	IPFM10C	IPDFM10A	15.5	26.0	11.4	53.6	7.1	•	•	•
11	IPFM11C	—	16.6	26.0	11.9	54.9	7.1	•		
12	IPFM12C	IPDFM12A	17.1	26.0	12.5	55.9	7.1	•	•	•
13	IPFM13C	IPDFM13A	19.7	26.0	12.5	56.9	7.9	•	•	•
14	IPFM14C	IPDFM14A	20.5	26.0	13.0	58.2	7.9	•	•	•
15	IPFM15C	IPDFM15A	21.3	26.0	13.5	59.2	7.9	•	•	•
16	IPFM16C	IPDFM16A	23.0	26.0	14.2	60.2	8.6	•		
17	IPFM17C	—	24.4	26.0	16.8	62.3	8.6	•	•	•
17	—	IPDFM17A	24.4	26.0	17.8	62.3	8.6			
18	IPFM18C	—	25.3	26.0	16.5	62.3	9.7	•	•	
18	—	IPDFM18A	25.3	26.0	18.5	62.3	9.7			•
19	IPFM19C	—	26.5	26.0	19.1	64.3	10.4	•		
21	IPFM21C	—	29.2	26.0	19.6	66.0	12.4	•		
22	IPFM22C	—	30.0	26.0	21.6	67.9	13.0			

Sets shown include storage tray.

Shallow, inches

	6	12	A	B	C	D	E	Set Contains: 205IPF 6
3/8	IPF12C	IPDF12A	9/16	1-1/32	13/32	2-3/32	1/4	
7/16	IPF14C	IPDF14	21/32	1-1/32	15/32	2-5/32	1/4	•
1/2	IPF16C	IPDF16	3/4	1-1/32	1/2	2-1/4	9/32	•
9/16	IPF18C	IPDF18	13/16	1-1/32	1/2	2-9/32	9/32	•
5/8	IPF20C	—	29/32	1-1/32	5/8	2-3/8	5/16	•
5/8	—	IPDF20	29/32	1-1/32	17/32	2-3/8	5/16	
11/16	IPF22C	—	31/32	1-1/32	11/16	2-15/32	13/32	
11/16	—	IPDF22	1	1-1/32	19/32	2-7/16	3/8	
3/4	IPF24C	—	1-1/16	1-1/32	23/32	2-17/32	7/16	•
3/4	—	IPDF24	1-1/16	1-1/32	11/16	2-17/32	7/16	

Set includes storage tray.

Semi-Deep, mm

mm	6	A	B	C	D	E	Set Contains: 207IPSFM 6
8	IPSFM8A	17.1	26.0	20.8	65.3	6.4	
9	IPSFM9A	17.1	26.0	21.3	65.8	7.1	
10	IPSFM10A	17.1	26.0	22.4	66.8	9.7	•
11	IPSFM11A	16.6	26.0	25.9	68.3	9.7	
12	IPSFM12A	17.1	26.0	26.2	69.8	9.7	•
13	IPSFM13A	19.7	26.0	26.4	70.9	10.4	•
14	IPSFM14A	20.5	26.0	27.4	71.9	10.4	•
15	IPSFM15A	21.3	26.0	30.0	73.4	10.4	•
16	IPSFM16A	23.0	26.0	29.0	73.4	10.4	
17	IPSFM17A	24.4	26.0	30.0	74.9	11.2	•
18	IPSFM18A	25.3	26.0	30.0	76.5	11.2	•
19	IPSFM19A	26.5	26.0	31.8	78.0	14.2	
21	IPSFM21A	29.2	26.0	31.8	78.0	12.4	

Set includes magnetic tray.

Low-Profile, mm

mm	Stock No.	A	B	C	D	E	Set Contains: 207RIPFM
8	RIPFM8C	12.8	25.9	4.7	43.6	3.7	
10	RIPFM10C	15.5	25.9	5.2	47.4	4.4	•
11	RIPFM11C	16.6	25.9	6.0	45.8	5.0	
12	RIPFM12C	17.1	25.9	6.1	48.9	5.3	•
13	RIPFM13C	19.7	25.9	6.6	50.1	5.8	•
14	RIPFM14C	20.5	25.9	7.0	50.8	6.2	•
15	RIPFM15C	21.3	26.8	7.5	52.4	6.7	•
16	RIPFM16C	23	26.8	8.1	50.5	7.1	
17	RIPFM17C	24.4	26.8	8.6	51.3	7.6	•
18	RIPFM18C	25.3	26.8	9	51.9	8	•
19	RIPFM19C	26.5	26.8	9.5	52.7	8.5	
21	RIPFM21C	29.2	26.8	9.0	52.7	8.0	

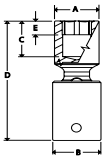
Low-Profile, inches

	Stock No.	A	B	C	D	E	Set Contains: 205RIPF
3/8	RIPF12C	9/16	1-1/32	7/32	1-25/32	3/16	
7/16	RIPF14C	21/32	1-1/32	3/16	1-7/8	5/32	•
1/2	RIPF16C	3/4	1-1/32	1/4	1-31/32	3/16	•
9/16	RIPF18C	13/16	1-1/32	9/32	2-1/32	1/4	•
5/8	RIPF20C	29/32	1-1/16	5/16	2-1/16	9/32	•
11/16	RIPF22C	31/32	1-1/16	3/8	2-1/16	5/16	
3/4	RIPF24C	1 1/16	1-1/16	3/8	2-3/16	5/16	•

⚠WARNING

• Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SWIVEL SOCKETS





IPLFM12B 207IPLFM

Deep, mm

Set Contains: 207IPLFM

mm	6	A	B	C	D	E	6
8	IPLFM8B	17.1	26.0	30.5	73.4	9.1	
10	IPLFM10B	17.1	26.0	30.5	73.4	9.1	•
11	IPLFM11B	16.6	26.0	30.7	73.7	9.7	
12	IPLFM12B	17.1	26.0	30.7	73.7	9.7	•
13	IPLFM13A	19.7	26.0	38.4	82.8	10.4	•
14	IPLFM14A	20.5	26.0	40.4	84.3	10.4	•
15	IPLFM15A	21.3	26.0	41.2	85.8	10.4	•
16	IPLFM16A	23.0	26.0	40.6	86.1	10.4	
17	IPLFM17A	24.4	26.0	40.9	86.9	10.2	•
18	IPLFM18A	25.3	26.0	42.2	88.6	10.7	•
19	IPLFM19A	26.5	26.0	43.7	90.2	14.2	
21	IPLFM21A	29.2	26.0	45.2	92.2	12.4	

Set includes magnetic tray.



IPLF12B 205IPLF

Deep, inches

Set Contains: 205IPLF

11	6	A	B	C	D	E	6
3/8	IPLF12B	21/32	1-1/32	1-3/16	2-29/32	1/4	•
7/16	IPLF14B	21/32	1-1/32	1-7/32	2-29/32	1/4	•
1/2	IPLF16B	3/4	1-1/32	1-5/32	2-29/32	9/32	•
9/16	IPLF18B	13/16	1-1/32	1-17/32	3-9/32	9/32	•
5/8	IPLF20B	29/32	1-1/32	1-9/16	3-3/8	5/16	•



202IP

Universal Joints (Impact)

202IP 2 pc Combination Drive Impact Universal Joint Set
- Includes 3/8″ drive and 1/2″ drive Impact Swivel Universal Joints

SPECIAL APPLICATION SOCKETS

Wing Nut Sockets

WNS1 3/8″ Drive Wing Nut Socket



WNS1

- Works on any wing nut up to 3/8″
- Two differently sized slots fit mutiple wing nut sizes
- 7/8″ external hex allows access to wing nuts on a long stud
- Counterbore in the bottom is sized so that when engaging the fastener the socket does not touch the material the wing nut is holding down, preventing scratching and damage when the wing nut is spun off

Mortorq® Super Socket

- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion



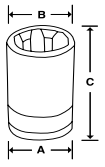
IMTSX100



Size	Stock No.	A	B	C	D	E
MTS-X8	IMTSX80	25/64	11/16	1-1/8	1-5/8	11/64
MTS-X10	IMTSX100	29/64	11/16	1-1/8	1-5/8	15/64
MTS-X12	IMTSX120	9/16	11/16	1-1/8	1-5/8	17/64
MTS-X14	IMTSX140	11/16	11/16	—	1-1/2	5/16



207IMFLE



Shallow TORX® Impact

- Various applications on heavy duty trucks with Mercedes-Benz® engines
- Use E18 size for F550 brake rotor.
- Use E20 size for rear brake caliper bolts on BMW® X5.

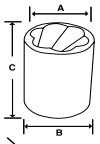
Set Contains: 207IMFLE

#	Stock No.	A	B	C	
E8	IMFLE80A	15/32	11/16	1-5/32	•
E10	IMFLE100A	1/2	11/16	1-5/32	•
E12	IMFLE120A	19/32	11/16	1-5/32	•
E14	IMFLE140A	5/8	11/16	1-5/32	•
E16	IMFLE160A	3/4	3/4	1-1/4	•
E18	IMFLE180A	25/32	25/32	1-5/16	•
E20	IMSLE200	15/16	15/16	1-1/2	•

Set shown includes magnetic storage tray.



209TFSMYA



Twist, Shallow, inches/mm (Blue-Point®)

• Twist sockets remove rounded/damaged fasteners

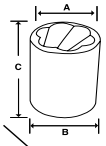
Set Contains:	209TFSMYA	213TFSYA

6		A	B	C	6	6
3/8	**TFSY121A**	11/16 (17.5)	9/16 (14.3)	—		•
7/16″ (11)	**TFSY141A**	11/16 (17.5)	21/32 (16.7)	1-1/4 (31.8)	•	•
1/2″	**TFSY161A**	3/4 (19.1)	3/4 (19.1)	1-1/4 (31.8)		•
9/16″	**TFSY181A**	13/16 (20.6)	13/16 (20.6)	1-1/4 (31.8)		•
5/8″ (16)	**TFSY201A**	29/32 (23.0)	29/32 (23.0)	1-1/4 (31.8)	•	•
11/16″	**TFSY221A**	31/32 (24.6)	31/32 (24.6)	1-3/8 (35.0)		•
3/4″ (19)	**TFSY241A**	1-1/16 (27.0)	1-1/16 (27.0)	1-3/8 (35.0)	•	•
10	**TFSY10A**	11/16 (17.5)	19/32 (15.1)	1-1/4 (31.8)	•	•
12	**TFSY12A**	11/16 (17.5)	11/16 (17.5)	1-1/4 (31.8)	•	•
13	**TFSY13A**	3/4 (19.1)	3/4 (19.1)	1-1/4 (31.8)	•	•
14	**TFSY14A**	13/16 (20.6)	13/16 (20.6)	1-1/4 (31.8)	•	•
15	**TFSY15A**	13/16 (20.6)	27/32 (21.4)	1-1/4 (31.8)	•	•
17	**TFSY17A**	31/32 (24.6)	31/32 (24.6)	1-3/8 (35.0)	•	•

Sets shown include storage tray.



213TFSFSYA



Twist, Deep, inches/mm (Blue-Point®)

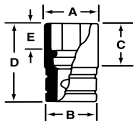
Set Contains:	213TFSFSYA

6		A	B	C	6
3/8	**TSFSY121A**	11/16 (17.5)	9/16 (14.3)	2-1/8 (54)	•
7/16″ (11)	**TSFSY141A**	11/16 (17.5)	21/32 (16.7)	2-1/8 (54.0)	•
1/2″	**TSFSY161A**	3/4 (19.1)	3/4 (19.1)	2-1/8 (54.0)	•
9/16″	**TSFSY181A**	13/16 (20.6)	13/16 (20.6)	2-3/8 (60.3)	•
5/8″ (16)	**TSFSY201A**	29/32 (23.0)	29/32 (23.0)	2-3/8 (60.3)	•
11/16″	**TSFSY221A**	31/32 (24.6)	31/32 (24.6)	2-5/8 (66.7)	•
3/4″ (19)	**TSFSY241A**	1-1/16 (27.0)	1-1/16 (27.0)	2-5/8 (66.7)	•
10	**TSFSY10A**	11/16 (17.5)	19/32 (15.1)	2-1/8 (54.0)	•
12	**TSFSY12A**	11/16 (17.5)	11/16 (17.5)	2-1/8 (54.0)	•
13	**TSFSY13A**	3/4 (19.1)	3/4 (19.1)	2-1/8 (54.0)	•
14	**TSFSY14A**	13/16 (20.6)	13/16 (20.6)	2-3/8 (60.3)	•
15	**TSFSY15A**	13/16 (20.6)	27/32 (21.4)	2-3/8 (60.3)	•
17	**TSFSY17A**	31/32 (24.6)	31/32 (24.6)	2-5/8 (66.7)	•

Set shown includes storage tray.



DPFM12



Shallow, 10 pt

mm	10	A	B	D	E
12	**DPFM12**	18.3	18.3	26.9	7.1

DPFM12 3/8″ Drive 10-Point Metric 12 mm Shallow Impact Socket

- The DPFM12 is for clutch pressure plate bolts found on the flywheel assembly on Mitsubishi® Eclipse® and Dodge® Stratus vehicles
- Formed from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

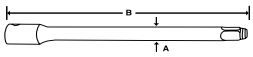
⚠WARNING

• Read safety precautions on pages W1 to W4

POWER ACCESSORIES



PF11A



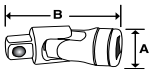
Locking Button Extensions (Power)

Use with power or impact sockets with retention holes.

Stock No.	A	B
PF3	1/2	3
PF6	1/2	6
PF11A	1/2	11



PFU8A

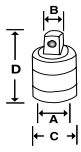


Universal Joints (Power)

Stock No.	Socket Attachment	A	B
PFU8A	Pin Type	3/4	1-31/32

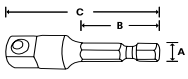


PA4F



Adaptors (Power)

Stock No.	Socket Attachment	A	B	C	D
PA4F	Pin Type	1/2	3/8	15/16	1-13/16
PA2A	Pin Type	3/8	1/2	3/4	1-5/16





A3042

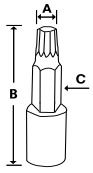
Hex-To Square-Adaptors (Power)

Stock No.	Socket Attachment	A	B	C
A3042	Pin Type	1/4	1	2
A3044	Pin Type	1/4	1	4
A3046	Pin Type	1/4	1-1/4	6
A3017A	Pin Type	7/16	1-1/4	1-3/4

POWER BIT SOCKETS



PFTX30E

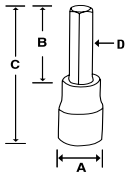


TORX®/Standard (Power), Industrial (3/8″)

#	Stock No.	A	B	C
T27	PFTX27E	3/16	1-3/4	FTX27E2
T30	PFTX30E	3/16	1-3/4	FTX30E2
T40	PFTX40E	1/4	1-3/4	FTX40E2



PFAM6E

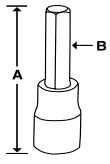


Hex/Standard (Power), mm, Industrial (3/8″)

mm		A	B
4	PFAM4E	17.2	FAM4E2
5	PFAM5E	17.2	FAM5E2
6	PFAM6E	17.2	FAM6E2
7	PFAM7E	17.2	FAM7E2
8	PFAM8E	17.2	FAM8E2
9	PFAM9E	18.0	FAM9E2
10	PFAM10E	18.0	SAM10E2



PFA8E



Hex/Standard (Power), inches, Industrial (3/8″)

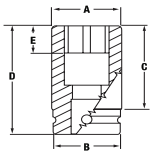
"		A	Fits These Cap Screws	Fits These Set Screws	B
1/8	PFA4E	2-1/16	—	1/4″	TMA4E2
9/64	PFA4.5E	2-1/16	#8	—	TMA4.5E2
5/32	PFA5E	2-1/16	#10	5/16″	FA5E2
3/16	PFA6E	2-1/16	1/4″	3/8″	FA6E2
7/32	PFA7E	2-1/16	—	5/16″	FA7E2
1/4	PFA8E	2-1/16	7/16″	1/2″	FA8E2
5/16	PFA10E	2-1/16	3/8″	5/8″	FA10E2
3/8	PFA12E	2-1/16	1/4″ and 1/2″	3/4″	FA12E2

Shallow Magnetic, mm, Industrial

mm	6	12	A	B	D	E
10	**MFIMM10A**	**MFIMMD10**	15.1	17.2	29.1	4.7
12	**MFIMM12**	—	18.1	19.1	28.6	3.7
13	**MFIMM13**	—	19.4	19.4	28.6	3.9
15	**MFIMM15**	—	21.6	21.8	28.6	3.9



MFIMM15



MFIMMD10 3/8″ Drive 12-Point Metric 10 mm Shallow Magnetic Power Socket

- For use on Detroit Diesel® 60 series, the MFIMMD10 is used on the three camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine
- The mechanic must go through the cover to start the bolts; if one is dropped, it is very labor intensive and time consuming to retrieve
- Applies to 2002 and later 60 series Detroit Diesel® engines with the compact gear case (please note: earlier engines with the tall gear case have 13 mm six-point bolts)
- Please use MFIMM13 for this application

Shallow Magnetic, inches, Industrial

11	6	A	B	D	E
5/16	**MFIM101**	15/32	11/16	1-1/16	3/32
3/8	**MFIM121**	17/32	11/16	1-1/16	1/8
7/16	**MFIM141**	5/8	11/16	1-1/16	5/32
1/2	**MFIM161**	25/32	25/32	1-1/16	5/32
9/16	**MFIM181**	7/8	7/8	1-1/16	5/32



MFIM101

Deep Magnetic Spring Loaded, mm, Industrial

mm	6	A	B	D	E
10	**SMFIMM10B**	15.1	17.2	50.8	7.1
12	**SMFIMM12B**	18.1	19.1	50.8	7.1
13	**SMFIMM13B**	19.4	19.4	50.8	7.6



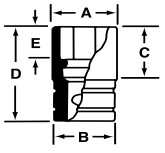
SMFIMM13B

Deep, mm, Natural

mm	6	A	B	C	D	E
10	**DFSM10**	14.5	17.2	42.5	54.0	8.4



DFSM10



Surface Drive (M-Series)

For use in the industrial market for assembly line work. The lead-in chamfer and special design of these sockets will engage with a fastener while rotating on a power nut runner.

mm	6	A	B	C	D	E
10	**M2110**	16.5	19.1	16.5	31.8	7.4
10	**M2210**	16.5	19.1	39.1	50.8	7.4



M2110

⚠WARNING

- Do not use chrome or industrial finish power tools with impact drivers
- Read safety precautions on pages W1 to W4

FOAM SETS

Foam Sets

- Designed for maximum tool concentration on smallest possible footprint
- Modular foam trays can be reconfigured in-drawer to accommodate new tools sets
- Dice cut angle for nesting additional sets
- Flexible and expandable as tool collection evolves
- Closed cell cross-linked foam for superior performance and durability resists oils, solvents and fuels – easy to clean
- Contrasting colors provide visual control which eliminates time searching for missing tools
- Protects your investment and increases productivity
- Fits in 2″ standard drawer



209RATEXFR01

209RATEXFR01 9 pc 3/8″ Drive Flex Head Ratchet and Extension Foam Set

Stock No.	Description
FKF80A	Stubby Handle Flex Head Ratchet
FH80	Standard Red Soft Grip Handle Ratchet
FHF80A	Standard Red Soft Grip Handle Flex Head Ratchet
FX1	3/8″ Drive 1-1/2″ Friction Ball Extension
FXK3	3/8" Drive 3" Knurled Friction Ball Extension
FXK4	3/8" Drive 4" Knurled Friction Ball Extension
FXK6	3/8" Drive 6" Knurled Friction Ball Extension
FXK8	3/8" Drive 8" Knurled Friction Ball Extension
FXK11	3/8" Drive 11" Knurled Friction Ball Extension



203RT01FMBR

203RT01FMBR 3 pc 3/8″ Drive Soft Grip Ratchet Foam Set

Stock No.	Description
FKF80A	Stubby Handle Flex Head Ratchet
FH80	Standard Red Soft Grip Handle Ratchet
FHF80A	Standard Red Soft Grip Handle Flex Head Ratchet

GENERAL SERVICE SETS



206AFSP

Build Your Own Set

The 206AFSP Handle Set is the foundation for the ideal basic general service set. Add any of the suggested socket sets or choose from various special-purpose sockets available in fractional and metric sizes.

11	Stock No.	mm	Stock No.
11 pc 3/8″ Drive 12-Point SAE Deep Flank Drive® Socket Set	211SFY	12 pc 3/8″ Drive 12-Point Metric Flank Drive® Deep Socket Set	212SFMY
11 pc 3/8″ Drive 6-Point SAE Flank Drive® Deep Socket Set	211SFSY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Semi-Deep Socket Set	212FSMSY
11 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Socket Set	211FSY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Deep Socket Set	212SFSMY
7 pc 3/8″ Drive 6-Point SAE Flank Drive® Deep Universal Socket Set	207FSU	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	212FSMY
		12 pc 3/8″ Drive 12-Point Metric Flank Drive® Shallow Socket Set	212FMY

Sets include storage case.

206AFSP 6 pc 3/8″ Drive Handle Set

- Start with the 206AFSP Handle Set, the ideal base for a personally customized basic general service set
- Add any of the suggested socket sets or choose from the many special purpose sockets available in both SAE and metric sizes
- The 206AFSP set is packaged in the blow-molded PB16B plastic case, which has a large enough cavity to store as many as four rows of standard-length sockets, two rows of deep or universal sockets, or combinations of any of these
- **Suggested SAE Set Additions:**
  211FSY 6-Point Shallow Set
  212FY 6-Point Shallow Set
  211SFSY 6-Point Deep Set
  211SFY 12-Point Shallow Set
  207FSU 6-Point Deep Universal Set
  211FDSY 12-Point Semi-Deep Set
- **Suggested Metric Set Additions:**
  212FSMY 6-Point Shallow Set
  212SFSMY 6-Point Semi-Deep Set
  212SFMY 12-Point Deep Set
  212FSMSY 6-Point Semi-Deep Set
  212FMSY 12-Point Semi-Deep Set
  212FMY 12-Point Shallow Set
- Includes: F80 Sealed Ratchet, FU8A Universal Joint, FX1 Extension (1-1/2″), FXK3 Knurled Extension (3″), FXK6 Knurled Extension (6″) and FXK11 Knurled Extension (11″)

6-Point, Inches, Chrome

218AFSP 18 pc 3/8″ Drive 6-Point SAE Shallow General Service Socket Set

- Includes (18) tools (1/4–7/8″)
- Includes Dual 80® Technology Standard Handle Ratchet, Speeder, Breaker Bar, Universal Joint, and 3, 6 and 11″ Knurled Extensions in a storage tray



218AFSP

6-Point Shallow Sockets		6-Point Shallow Sockets	
1/4	FS081	5/8	FS201
5/16	FS101	11/16	FS221
3/8	FS121	3/4	FS241
7/16	FS141	13/16	FS261
1/2	FS161	7/8	FS281
9/16	FS181		

Also Includes:

Stock No.	Description
F4LB	3/8″ Drive 17-27/32″ Speeder Drive Handle
FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension
FXK11	3/8" Drive 11" Knurled Friction Ball Extension
F10LD	3/8″ Drive 9-9/16″ Breaker Bar

Set includes storage case.

6-Point, Inches, Chrome

6-Point Shallow Sockets
3/8
7/16
1/2
9/16
5/8
11/16
3/4

Also Includes:		
	F80	Standard Handle Ratchet
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension

Set includes storage case.



210AFSP

210AFSP 10 pc 3/8″ Drive 6-Point SAE General Service Set

- Set includes (7) 6-Point Shallow Sockets (3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4″), F80 Standard Handle Sealed Ratchet and (2) Knurled Extensions (FXK3 3″ and FXK6 6″)



222AFSP

6-Point, Inches, Chrome

222AFSP 22 pc 3/8″ Drive 6-Point SAE General Service Socket Set

- Includes (22) Shallow Sockets (3/8–3/4″) and Deep Sockets (3/8–3/4″)
- Includes Dual 80® Technology Standard Handle Ratchet, 13/16″ Spark Plug Socket, 5/8″ Spark Plug Socket, Breaker Bar, Universal Joint and 3, 4 and 8″ Knurled Extensions in a storage case

6-Point Shallow Sockets		6-Point Deep Sockets	
3/8	FS121	3/8	SFS121
7/16	FS141	7/16	SFS141
1/2	FS161	1/2	SFS161
9/16	FS181	9/16	SFS181
5/8	FS201	5/8	SFS201
11/16	FS221	11/16	SFS221
3/4	FS241	3/4	SFS241

Also Includes:

F80	Standard Handle Ratchet
FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension
FXK8	3/8″ Drive 8″ Knurled Friction Ball Extension

Set includes storage case.

⚠WARNING

- Do not use chrome or industrial finish power tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS



218AFP

12-Point, Inches, Chrome

218AFP 18 pc 3/8″ Drive 12-Point SAE General Service Socket Set

- Includes (18) tools (1/4–7/8″)
- Includes Dual 80® Technology Standard Handle Ratchet, Speeder, Breaker Bar, Universal Joint and 3, 6 and 11″ Knurled Extensions

	12-Point Shallow Socket		12-Point Shallow Socket
1/4	F081	5/8	F201
5/16	F101	11/16	F221
3/8	F121	3/4	F241
7/16	F141	13/16	F261
1/2	F161	7/8	F281
9/16	F181	15/16	F301

Also Includes:		
	F4LB	3/8″ Drive 17-27/32″ Speeder Drive Handle
	F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
	FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension

Set includes storage case.



248F

12-Point, Inches, Chrome

248F 48 pc 3/8″ Drive 12-Point SAE Shallow/Deep/Universal Combination General Service Socket Set

- Includes Shallow Sockets (1/4–15/16″)
- Includes Deep Sockets (1/4–7/8″)
- Includes Universal Sockets (5/16–1″)
- Includes Dual 80® Technology Standard Handle Ratchet, Plastic Handle Driver, Ratchet Spinner, Speeder, Ratchet Adaptor, Sliding T-Handle, Universal Joint, Breaker Bar, and 8″ Flexible Extension and 3, 4 6 and 11″ Knurled Extensions (48 pc)

	12-Point Shallow Socket		12-Point Deep Socket		12-Point Shallow Universal Socket
1/4	F081	1/4	SF081	5/16	FU10C
5/16	F101	5/16	SF101	3/8	FU12C
3/8	F121	3/8	SF121	7/16	FU14C
7/16	F141	7/16	SF141	1/2	FU16C
1/2	F161	1/2	SF161	9/16	FU18B
9/16	F181	9/16	SF181	5/8	FU20B
5/8	F201	5/8	SF201	11/16	FU22B
11/16	F221	11/16	SF221	3/4	FU24B
3/4	F241	3/4	SF241	13/16	FU26B
13/16	F261	13/16	SF261	7/8	FU28B
7/8	F281	7/8	SF281	15/16	FU30A
15/16	F301	—	—	1	FU32A

Also Includes:		
	F40B	3/8″ Drive 5-15/16″ Hard Handle Stubby Shank Driver
	F4LB	3/8″ Drive 17-27/32″ Speeder Drive Handle
	F5L	3/8″ Drive 8″ Sliding T-Handle
	F77A	3/8″ Drive 20-Tooth Ratchet Adaptor
	F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet
	FRS70A	3/8″ Drive Spinner Ratchet
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
	FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension



292F

292F 92 pc 3/8″ Drive 6-/12-Point SAE Shallow/Deep/Universal Combination General Service Socket Set

211FSY	11 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Socket Set
211SFSY	11 pc 3/8″ Drive 6-Point SAE Flank Drive® Deep Socket Set
211SFY	11 pc 3/8″ Drive 12-Point SAE Deep Flank Drive® Socket Set

Also Includes:	**FLF80A**	Long Handle Flex Head Ratchet	**GF22**	3/8″ Drive 11/16″ Blade Width Drag Link Socket
	F4LB	3/8″ Drive 17-27/32″ Speeder Drive Handle	**F23E**	3/8″ Drive 1/4″ Flat Tip Standard Bit Socket Driver
	F5L	3/8″ Drive 8″ Sliding T-Handle	**F25E**	3/8″ Drive 5/16″ Flat Tip Standard Bit Socket Driver
	F10LD	3/8″ Drive 9-9/16″ Breaker Bar	**F31E**	3/8″ Drive 3/8″ Flat Tip Standard Bit Socket Driver
	F40B	3/8″ Drive 5-15/16″ Hard Handle Stubby Shank Driver	**F29E**	3/8″ Drive SAE 3/8″ Clutch Bit Socket Driver
	FRS70A	3/8″ Drive Spinner Ratchet	**F30E**	3/8″ Drive SAE 5/16″ Clutch Socket Driver
	F77A	Ratchet Adaptor	**FA5E**	3/8″ Drive SAE 5/32″ Standard Hex Bit Socket Driver
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint	**FA6E**	3/8″ Drive SAE 3/16″ Standard Hex Bit Socket Driver
	FX1	3/8″ Drive 1-1/2″ Friction Ball Extension	**FA7E**	3/8″ Drive SAE 7/32″ Standard Hex Bit Socket Driver
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension	**FA8E**	3/8″ Drive SAE 1/4″ Standard Hex Bit Socket Driver
	FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension	**FA10E**	3/8″ Drive SAE 5/16″ Standard Hex Bit Socket Driver
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension	**FA12E**	3/8″ Drive SAE 3/8″ Standard Hex Bit Socket Driver
	FXK8	3/8″ Drive 8″ Knurled Friction Ball Extension	**PP409A**	3/8″ Drive SAE 9/32″ Internal Pipe Plug Socket
	FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension	**PP410A**	3/8″ Drive SAE 5/16″ Internal Pipe Plug Socket
	FP22E	3/8″ Drive #2 PHILLIPS® Standard Bit Socket Driver	**PP412A**	3/8″ Drive SAE 3/8″ Internal Pipe Plug Socket
	FP32E	3/8″ Drive #3 PHILLIPS® Standard Bit Socket Driver	**BLPEXTF388**	3/8″ Drive 8″ Flexible Extension (Blue-Point®)
	FP42E	3/8″ Drive #4 PHILLIPS® Long Socket Driver	**F111**	3/8″ Drive 12-Point SAE 11/32″ Flank Drive® Shallow Socket

Set includes storage case.

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS



STARTERSET3

6-Point, mm, Chrome

STARTERSET3 17 pc 3/8″ Drive Deep 6-Point Metric Starter Set

- High-strength sealed-head ratchet built for strength, precision and durability
- Sockets feature Flank Drive® wrenching system, which grips the fastener on the flanks/flats, increasing torque by 15–20%
- Nickel-chrome plating provides a mirror-like, wear-resistant finish
- Universal joint helps increase access to hard-to-reach fasteners
- Stronger alloy steel allows extensions to be turned to a smaller diameter for greater accessibility

mm	6-Point Deep Sockets	mm	6-Point Deep Sockets
8	SFSM8	14	SFSM14
9	SFSM9	15	SFSM15
10	SFSM10	16	SFSM16
11	SFSM11	17	SFSM17
12	SFSM12	18	SFSM18
13	SFSM13	19	SFSM19

Also Includes:		
	FL80	3/8″ Drive Dual 80® Technology Long Handle Ratchet
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension
	S9706KA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Shallow Spark Plug Socket



STARTERSET5

6-Point, mm, Chrome

STARTERSET5 17 pc 3/8″ Drive Shallow 6-Point Metric Starter Set

- High-strength sealed head ratchet built for strength, precision and durability
- Wobble engagement on extensions provides 16° of additional accessibility
- Sockets feature Flank Drive® wrenching system which grips the fastener on the flanks/flats increasing torque by up to 15%–20%
- Nickel-chrome plating provides a wear-resistant finish along with a mirror-like finish
- Highest quality steel on breaker bar provides strength and durability

mm	6-Point Shallow Sockets	mm	6-Point Shallow Sockets
8	FSM81	14	FSM141
9	FSM91	15	FSM151
10	FSM101	16	FSM161
11	FSM111	17	FSM171
12	FSM121	18	FSM181
13	FSM131	19	FSM191

Also Includes:		
	F12LB	3/8″ Drive 11-9/16″ Long Handle Breaker Bar
	F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet
	FXWP1	3/8″ Drive 1-1/2″ Friction Ball Wobble Plus Extension
	FXWP3	3/8″ Drive 3″ Knurled Wobble Plus Extension
	FXWP6	3/8″ Drive 6″ Knurled Wobble Plus Extension

6-Point, mm, Chrome

222AFSMP 22 pc 3/8″ Drive 6-Point Metric General Service Socket Set

- Includes (7) Shallow Sockets (10, 11, 13–15, 17 and 19 mm)
- Includes (7) Deep Sockets (10, 11, 13–15, 17 and 19 mm)
- Dual 80® Technology Standard Handle Ratchet, Universal Joint, Breaker Bar, 3, 4 and 8″ Knurled Extensions, 13/16 and 5/8″ Spark Plug Sockets and a storage case



222AFSMP

mm	6-Point Shallow Sockets	mm	6-Point Deep Sockets
10	FSM101	10	SFSM10
11	FSM111	11	SFSM11
13	FSM131	13	SFSM13
14	FSM141	14	SFSM14
15	FSM151	15	SFSM15
17	FSM171	17	SFSM17
19	FSM191	19	SFSM19

Also Includes:		
	F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
	F10LD	3/8″ Drive 9-9/16″ Breaker Bar
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension
	FXK8	3/8″ Drive 8″ Knurled Friction Ball Extension
	S9704KA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Shallow Spark Plug Socket
	S9706KA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Shallow Spark Plug Socket
	PB17B	Storage Case

6/12-Point, mm, Chrome

262MFB 61 pc 3/8″ Drive 6-/12-Point Metric General Service Socket Set

- Includes (12) 6-point Shallow Sockets (8–19 mm)
- (11) 12-point shallow sockets (9–19 mm)
- Includes (12 pc) 12-point Deep Sockets (8–19 mm)
- (22) 6-point Shallow Universal Sockets (8, 10–19 and 22 mm)
- Dual 80® Technology Standard Handle Ratchet, Speeder, Breaker Bar, Plastic Handle Driver, Ratchet Spinner, Ratchet Adaptor, Universal Joint, 3, 6 and 11″ Knurled Extensions, 13/16″ Spark Plug Socket, 8″ Flexible Extension, 5/8 and 9/16″ Spark Plug Socket and metal box (61 pc)



262MFB

mm	6-Point Shallow Sockets	mm	12-Point Shallow Sockets	mm	12-Point Deep Sockets	mm	6-Point Shallow Universal Sockets
—	—	—	—	—	—	7	FSUM7B
—	—	—	—	—	—	8	FSUM8A
—	—	—	—	—	—	8	FSUM8B
9	FSM91	10	FM10	9	SFM9	10	FSUM10A
—	—	—	—	—	—	10	FSUM10B
10	FSM101	11	FM11	10	SFM10	11	FSUM11A
—	—	—	—	—	—	11	FSUM11B
11	FSM111	12	FM12	11	SFM11	12	FSUM12A
—	—	—	—	—	—	12	FSUM12B
12	FSM121	13	FM13	12	SFM12	13	FSUM13A
—	—	—	—	—	—	13	FSUM13B
13	FSM131	14	FM14	13	SFM13	14	FSUM14A
—	—	—	—	—	—	14	FSUM14B
14	FSM141	15	FM15	14	SFM14	15	FSUM15A
15	FSM151	16	FM16	15	SFM15	16	FSUM16A
16	FSM161	17	FM17	16	SFM16	17	FSUM17A
17	FSM171	18	FM18	17	SFM17	18	FSUM18A
18	FSM181	19	FM19	18	SFM18	19	FSUM19A
19	FSM191	—	—	—	—	22	FSUM22A

Also Includes:		
	F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet
	F4LB	3/8″ Drive 17-27/32″ Speeder Drive Handle
	F10LD	3/8″ Drive 9-9/16″ Breaker Bar
	F40B	3/8″ Drive 5-15/16″ Hard Handle Stubby Shank Driver
	FRS70A	3/8″ Drive Spinner Ratchet
	F77A	3/8″ Drive 20-Tooth Ratchet Adaptor
	FU8A	3/8″ Drive 2-1/16″ Friction Ball Universal Joint
	FXK3	3/8″ Drive 3″ Knurled Friction Ball Extension
	FXK6	3/8″ Drive 6″ Knurled Friction Ball Extension
	FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension
	S9704KA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Shallow Spark Plug Socket
	BLPEXTF388	3/8″ Drive 8″ Flexible Extension (Blue-Point®)
	S9706KA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Shallow Spark Plug Socket
	S9716KA	3/8″ Drive 6-Point SAE 9/16″ Flank Drive® Spark Plug Socket

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

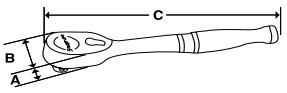
RATCHETS (Blue-Point®)



BPRFR938



BPRFR938SG



Quick-Release Ratchets (Blue-Point®) (3/8″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
BPRFR938	Standard	38	9.5°	9/16	1-9/32	7-3/4	RKRBPRFR938
BPRFR938SG	Bi-mold Soft Grip	38	9.5°	9/16	1-9/32	7-3/4	RKRBPRFR938

ASME®/ANSI® B107.10

BPRFR938 3/8″ Drive Standard Handle Quick-Release Ratchet (Blue-Point®)
- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Contoured handle for comfort and control
- Chrome finish for easy cleanup

BPRFR938SG 3/8″ Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®)
- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Corrosive resistant bi-mold cushion grips for improved comfort and performance
- Chrome finish for easy cleanup

BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)
- 1/4″ Drive BPRTR936, 3/8″ Drive BPRFR938 and 1/2″ Drive BPRSR940 Ratchets (3 pc) in a storage tray

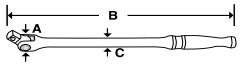
HANDLES AND ACCESSORIES (Blue-Point®)



FSD1



BLPBB3810



Ratchet Spinner (Blue-Point®) (3/8″)

Stock No.	Square Drive, inches	Description
FSD1	3/8 Male to 3/8 Female	3/8″ Drive Ratchet Spinner Adaptor (Blue-Point®)

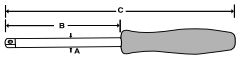
ASME®/ANSI® B107.10

Breaker Bars (Blue-Point®) (3/8″)

Stock No.	Description	A	B	C
BLPBB3810	3/8″ Drive 10″ Breaker Bar (Blue-Point®)	7/8	9-31/32	1/2

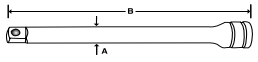


BLPCGHD388





BLPEXTK3810



Handled Drivers (Blue-Point®)

Stock No.	Description	A	B	C
BLPCGHD388	3/8″ Drive Spinner Handle (Blue-Point®)	1/2	4	8-5/8

Knurled Extensions, Chrome (Blue-Point®)

Stock No.	B
BLPEXTK383	2-31/32
BLPEXTK386	5-29/32
BLPEXTK3810	9-29/32

Turbo T-Handles (Blue-Point®)

F11TURBO 3/8″ Drive Turbo T-Handle Speed Driver (Blue-Point®)

- Constant pressure can be applied to fastener while turning handle
- Faster than ordinary speed wrenches
- Safer on threads than power tools

TURBOT103 3 pc 1/4″ Drive Turbo T-Handle Set (Blue-Point®)

- T9TURBO (1/4″ drive), TH10TURBO (1/4″ hex) and F11TURBO (3/8″ drive)
- Three pieces in storage tray



F11TURBO



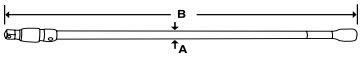
TURBOT103



203FXLBP



BLPLLEXT203



Locking Extensions, Chrome (Blue-Point®)

Stock No.	A	B	Set Contains: 203FXLBP
FXLBP3	1/2	3	•
FXLBP6	1/2	6	•
FXLBP10	1/2	10	•

Set shown includes storage tray.

Extra-Long Locking Extensions (Blue-Point®)

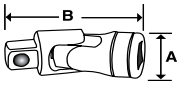
- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Lifetime warranty on individual extensions
- Do not use with power or impact tools

Stock No.	A	B	Set Contains: BLPLLEXT203
BLPEXTL3812	1/2	12	•
BLPEXTL3818	1/2	18	•
BLPEXTL3824	1/2	24	•

Set shown includes storage tray.



YA525A





BLPEXTF388

Extensions/Locking (Set Screw), Chrome (Blue-Point®)

- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket driver for overhead work
- Sliding sleeve for easy removal
- Not for use with power or impact tools

Stock No.	A	B
YA525A	3/4	2-1/8

Flexible Extensions (Blue-Point®)

Stock No.	Finish	Length, inches
BLPEXTF388	Chrome	8

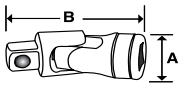
⚠WARNING

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- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

EXTENSIONS AND ACCESSORIES (Blue-Point®)



BLPUJ38



Universal Joints, Chrome (Blue-Point®)

Stock No.	B
BLPUJ38	2-1/32

SOCKETS (Blue-Point®)



BLPLM3810



BLPLM3816



BLPLM3822



BLPSM389



BLPSM3815



BLPSM3822

Deep, mm, Chrome (Blue-Point®)

mm	12	Length, mm
6	BLPLM386	64
7	BLPLM387	64
8	BLPLM388	64
9	BLPLM389	64
10	BLPLM3810	64
11	BLPLM3811	64
12	BLPLM3812	64
13	BLPLM3813	64
14	BLPLM3814	64
15	BLPLM3815	64
16	BLPLM3816	64
17	BLPLM3817	64
18	BLPLM3818	64
19	BLPLM3819	64
20	BLPLM3820	64
21	BLPLM3821	64
22	BLPLM3822	64
23	BLPLM3823	64
24	BLPLM3824	64

Shallow, mm, Chrome (Blue-Point®)

mm	6	Length, mm
6	BLPSM386	25.5
7	BLPSM387	25.5
8	BLPSM388	25.5
9	BLPSM389	25.5
10	BLPSM3810	25.5
11	BLPSM3811	25.5
12	BLPSM3812	25.5
13	BLPSM3813	25.5
14	BLPSM3814	27
15	BLPSM3815	27
16	BLPSM3816	27
17	BLPSM3817	27
18	BLPSM3818	27
19	BLPSM3819	29
20	BLPSM3820	29
21	BLPSM3821	29
22	BLPSM3822	31
23	BLPSM3823	31
24	BLPSM3824	31



BLPL3838



BLPL3834



BLPS3838



BLPS3878

Deep, Inches, Chrome (Blue-Point®)

	12	Length, inches
1/4	BLPL3814	2-17/32
5/16	BLPL38516	2-17/32
3/8	BLPL3838	2-17/32
7/16	BLPL38716	2-17/32
1/2	BLPL3812	2-17/32
9/16	BLPL38916	2-17/32
5/8	BLPL3858	2-17/32
11/16	BLPL381116	2-17/32
3/4	BLPL3834	2-17/32
13/16	BLPL381316	2-17/32
7/8	BLPL3878	2-17/32
15/16	BLPL381516	2-17/32
1	BLPL381	2-17/32

Shallow, Inches, Chrome (Blue-Point®)

	6	Length, inches
1	BLPS381	1-7/32
11/16	BLPS381116	1-1/16
1/2	BLPS3812	1
13/16	BLPS381316	1-5/32
1/4	BLPS3814	1
15/16	BLPS381516	1-7/32
3/4	BLPS3834	1-5/32
3/8	BLPS3838	1
5/16	BLPS38516	1
5/8	BLPS3858	1-1/16
7/16	BLPS38716	1
7/8	BLPS3878	1-7/32
9/16	BLPS38916	1-1/16

TORX®/Shallow, Chrome (Blue-Point®)

#	Stock No.	Length, inches
E4	BLPTE384	1-7/32
E5	BLPTE385	1-7/32
E6	BLPTE386	1-7/32
E7	BLPTE387	1-7/32
E8	BLPTE388	1-7/32
E10	BLPTE3810	1-7/32
E12	BLPTE3812	1-7/32
E14	BLPTE3814	1-7/32
E16	BLPTE3816	1-7/32
E18	BLPTE3818	1-7/32
E20	BLPTE3820	1-7/32



BLPTE386



BLPTE3818



BLPT3845





BLPTL3845

TORX®/Standard (Blue-Point®)

#	Stock No.	Length, inches
T40	BLPT3840	2
T45	BLPT3845	2
T50	BLPT3850	2

TORX®/Long (Blue-Point®)

#	Stock No.	Length, inches
T40	BLPTL3840	3-5/32
T45	BLPTL3845	3-5/32
T50	BLPTL3850	3-5/32

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

TORX® BIT SOCKETS (Blue-Point®)



BLPT3845TP



BLPTL3845TP

TORX®/Tamper-Resistant, Chrome (Blue-Point®) (3/8″)

#	Stock No.	Length, inches
T10	**BLPT3810TP**	1-27/32
T15	**BLPT3815TP**	1-27/32
T20	**BLPT3820TP**	1-27/32
T25	**BLPT3825TP**	1-27/32
T27	**BLPT3827TP**	1-27/32
T30	**BLPT3830TP**	1-27/32
T40	**BLPT3840TP**	2
T45	**BLPT3845TP**	2
T50	**BLPT3850TP**	2
T55	**BLPT3855TP**	2

TORX®/Tamper-Resistant, Long, Chrome (Blue-Point®) (3/8″)

#	Stock No.	Length, inches
T40	**BLPTL3840TP**	4-3/8
T45	**BLPTL3845TP**	4-3/8
T50	**BLPTL3850TP**	4-3/8

METRIC HEX BIT SOCKETS (Blue-Point®)



BLPH3810



BLPHL389

Hex/Standard, mm, Chrome (Blue-Point®) (3/8″)

mm	⬡	Length, mm
6	**BLPH386**	47
7	**BLPH387**	47
8	**BLPH388**	50.5
9	**BLPH389**	50.5
10	**BLPH3810**	50.5

Hex/Long, mm, Chrome (Blue-Point®)

mm	⬡	Length, mm
7	**BLPHL387**	80.5
8	**BLPHL388**	80.5
9	**BLPHL389**	80.5
10	**BLPHL3810**	80.5



BLPH3814



BLPHL38516

Hex/Standard, Inches, Chrome (Blue-Point®) (3/8″)

"	⬡	Length, inches
7/32	**BLPH38732**	1-15/16
1/4	**BLPH3814**	1-15/16
5/16	**BLPH38516**	1-15/16
3/8	**BLPH3838**	1-15/16

Hex/Long, Inches, Chrome (Blue-Point®)

"	⬡	Length, inches
7/32	**BLPHL38732**	3-5/32
1/4	**BLPHL3814**	3-5/32
5/16	**BLPHL38516**	3-5/32
3/8	**BLPHL3838**	—

TRIPLE SQUARE SOCKET BIT SOCKETS (Blue-Point®)

Triple Square/Stubby, XZN, mm, Chrome (Blue-Point®) (3/8″)

mm	Stock No.	BLPXZNM389 Set Contains:
4	BLPXZNM384	•
5	BLPXZNM385	•
6	BLPXZNM386	•
8	BLPXZNM388	•
10	BLPXZNM3810	•
12	BLPXZNM3812	•
14	BLPXZNM3814	•
16	BLPXZNM3816	•
18	BLPXZNM3818	•

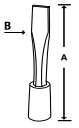


BLPXZNM389

PHILLIPS® AND POZIDRIV® BIT SOCKETS (Blue-Point®)



BLPP383

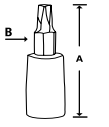


PHILLIPS®/Standard, Chrome (Blue-Point®) (3/8″)

PH	Stock No.	A
#3	BLPP383	1-27/32
#4	BLPP384	1-27/32



BLPPD383



Pozidriv®/Standard, Inches, Chrome (Blue-Point®) (3/8″)

Size	Stock No.	A
#3	BLPPD383	1-27/32
#4	BLPPD384	1-27/32

COMBINATION BIT SOCKETS (Blue-Point®)

BLPTSSC43



BLPTSSC43 Set (43 pc)

BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)

	Stock No.	Size	Square Drive, inches
TORX® Tamper-Resistant Long Bit Sockets	BLPT146TP	T6	1/4
	BLPT147TP	T7	1/4
	BLPT148TP	T8	1/4
	BLPT149TP	T9	1/4
	BLPTL1410TP	T10	1/4
	BLPTL1415TP	T15	1/4
	BLPTL1420TP	T20	1/4
	BLPTL1425TP	T25	1/4
	BLPTL1427TP	T27	1/4
	BLPTL1430TP	T30	1/4
	BLPTL3840TP	T40	3/8
	BLPTL3845TP	T45	3/8
	BLPTL3850TP	T50	3/8
	BLPTL1255	T55	1/2
	BLPTL1260	T60	1/2
	BLPTSSC43PB	Storage Case	

	Stock No.	Size	Square Drive, inches
External TORX® Sockets	BLPTE144	E4	1/4
	BLPTE145	E5	1/4
	BLPTE146	E6	1/4
	BLPTE147	E7	1/4
	BLPTE148	E8	1/4
	BLPTE3810	E10	3/8
	BLPTE3812	E12	3/8
	BLPTE3814	E14	3/8
	BLPTE3816	E16	3/8
	BLPTE1218	E18	1/2
	BLPTE1220	E20	1/2
	BLPTE1222	E22	1/2
	BLPTE1224	E24	1/2
TORX® Tamper-Resistant Bit Sockets	BLPT146TP	T6	1/4
	BLPT147TP	T7	1/4
	BLPT148TP	T8	1/4
	BLPT149TP	T9	1/4
	BLPT1410TP	T10	1/4
	BLPT1415TP	T15	1/4
	BLPT1420TP	T20	1/4
	BLPT1425TP	T25	1/4
	BLPT1427TP	T27	1/4
	BLPT1430TP	T30	1/4
	BLPT3840TP	T40	3/8
	BLPT3845TP	T45	3/8
	BLPT3850TP	T50	3/8

⚠WARNING

• Do not use chrome or industrial finish hand tools with impact drivers
• Read safety precautions on pages W1 to W4

COMBINATION BIT SOCKETS (Blue-Point®)

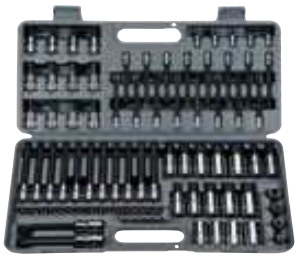


BLPHSSC30

BLPHSSC30 30 pc Combination Drive Hex Bit Socket Driver Set (Blue-Point®)

BLPHSSC30 Set (30 pc)

	Stock No.	Size	Square Drive, inches		Stock No.	Size	Square Drive, inches
Hex, inches	BLPH1418	1/8	1/4	Hex, mm	BLPH1425	2.5 mm	1/4
	BLPH14964	9/64	1/4		BLPH386	6 mm	3/8
	BLPH14532	5/32	1/4		BLPH387	7 mm	3/8
	BLPH14316	3/16	1/4		BLPH388	8 mm	3/8
	BLPH14732	7/32	1/4		BLPH389	9 mm	3/8
	BLPH1414	1/4	1/4		BLPH3810	10 mm	3/8
	BLPH38732	7/32	3/8		BLPH123	3 mm	1/4
	BLPH3814	1/4	3/8		BLPH124	4 mm	1/4
	BLPH38516	5/16	3/8		BLPH125	5 mm	1/4
	BLPH3838	3/8	3/8		BLPH126	6 mm	1/4
	BLPH12716	7/16	1/2		BLPH128	6 mm	1/4
	BLPH1212	1/2	1/2		BLPH1210	10 mm	1/2
	BLPH12916	9/16	1/2		BLPHM1212	12 mm	1/2
	BLPH1258	5/8	1/2		BLPH1214	14 mm	1/2
	BLPH1234	3/4	1/2		BLPH1217	17 mm	1/2
					BLPH1219	19 mm	1/2



BLPTHC87

BLPTHC87 87 pc TORX® and Hex Bit Socket Driver Set (Blue-Point®)

BLPTHC87 Set (87 pc)

	Stock No.	Size	Square Drive, inches		Stock No.	Size	Square Drive, inches
External TORX® Sockets	BLPTE144	E4	1/4	Metric Hex Bit Sockets	BLPH1425	2.5 mm	1/4
	BLPTE145	E5	1/4		BLPH123	3 mm	1/4
	BLPTE146	E6	1/4		BLPH124	4 mm	1/4
	BLPTE147	E7	1/4		BLPH125	5 mm	1/4
	BLPTE148	E8	1/4		BLPH126	6 mm	1/4
	BLPTE3810	E10	3/8		BLPH386	6 mm	3/8
	BLPTE3812	E12	3/8		BLPH387	7 mm	3/8
	BLPTE3814	E14	3/8		BLPH388	8 mm	3/8
	BLPTE3816	E16	3/8		BLPH389	9 mm	3/8
	BLPTE3818	E18	—		BLPH3810	10 mm	3/8
	BLPTE1220	E20	1/2		BLPH1210	10 mm	1/2
	BLPTE1222	E22	1/2		BLPHM1212	12 mm	12
	BLPTE1224	E24	1/2		BLPH1214	14 mm	1/2
TORX® Bit Sockets	BLPT146	T6	1/4		BLPH1217	17 mm	1/2
	BLPT147	T7	1/4		BLPH1219	19 mm	1/2
	BLPT148	T8	1/4	Long Metric Hex Bit Sockets	BLPHL144	4 mm	1/4
	BLPT149	T9	1/4		BLPHL145	5 mm	1/4
	BLPT1410	T10	1/4		BLPHL146	6 mm	1/4
	BLPT1415	T15	1/4		BLPHL387	7 mm	3/8
	BLPT1420	T20	1/4		BLPHL388	8 mm	3/8
	BLPT1425	T25	1/4		BLPHL389	9 mm	3/8
	BLPT1427	T27	1/4		BLPHL3810	10 mm	3/8
	BLPT1430	T30	1/4	Fractional Hex Bit Sockets	BLPH1418	1/8	1/4
	BLPT3840	T40	3/8		BLPH14964	9/64	1/4
	BLPT3845	T45	3/8		BLPH14532	5/32	1/4
	BLPT3850	T50	3/8		BLPH14316	3/16	1/4
	BLPT1255	2-3/4	T55		BLPH14732	7/32	1/4
	BLPT1260	2-3/4	T60		BLPH1414	1/4	1/4
Long TORX® Bit Sockets	BLPTL146	T6	1/4		BLPH38732	7/32	3/8
	BLPTL147	T7	1/4		BLPH3814	1/4	3/8
	BLPTL148	T8	1/4		BLPH38516	5/16	3/8
	BLPTL149	T9	1/4		BLPH3838	3/8	3/8
	BLPTL1410	T10	1/4		BLPH12716	7/16	1/2
	BLPTL1415	T15	1/4		BLPH1212	1/2	1/2
	BLPTL1420	T20	1/4		BLPH12916	9/16	1/2
	BLPTL1425	T25	1/4		BLPH1258	5/8	1/2
	BLPTL1427	T27	1/4		BLPH1234	3/4	1/2
	BLPTL1430	T30	1/4	Long Fractional Hex Bit Sockets	BLPHL1418	1/8	1/4
	BLPTL3840	T40	3/8		BLPHL14532	5/32	1/4
	BLPTL3845	T45	3/8		BLPHL14316	3/16	1/4
	BLPTL3850	T50	3/8		BLPHL38732	7/32	3/8
	BLPTL1255	T55	1/2		BLPHL3814	1/4	3/8
	BLPTL1260	T60	1/2		BLPHL38516	5/16	3/8
					BLPHL3838	3/8	—


BLPPTEXT3


BLPPTA3438


BLPPTSM10


BPRFPT10


BLPPTSS3822

Pass-Thru Socket Set (Blue-Point®)

Stock No.	External Hex, inches	Length, inches	Size
BLPPTSM8	3/4	1-7/16	8 mm
BLPPTSM9	3/4	1-7/16	9 mm
BLPPTSM10	3/4	1-7/16	10 mm
BLPPTSM11	3/4	1-7/16	11 mm
BLPPTSM12	3/4	1-7/16	12 mm
BLPPTSM13	3/4	1-7/16	13 mm
BLPPTSM14	3/4	1-7/16	14 mm
BLPPTSM15	3/4	1-7/16	15 mm
BLPPTSM16	3/4	1-7/16	16 mm
BLPPTSM17	3/4	1-7/16	17 mm
BLPPTSM18	3/4	1-7/16	18 mm
BLPPTSM19	3/4	1-7/16	19 mm
BLPPTS38	3/4	1-7/16	3/8
BLPPTS716	3/4	1-7/16	7/16″
BLPPTS12	3/4	1-7/16	1/2″
BLPPTS916	3/4	1-7/16	9/16″
BLPPTS58	3/4	1-7/16	5/8″
BLPPTS1116	3/4	1-7/16	11/16″
BLPPTS34	3/4	1-7/16	3/4″

BLPPTSS3822 22 pc 3/8″ Drive Pass-Thru Socket Set (Blue-Point®)
- Includes BLPPTS38–BLPPTS34 (3/8–3/4″) SAE Sockets, BLPPTSM8–BLPPTSM19 (8–19 mm) Metric Sockets, BLPPTA3438 Square Drive Adaptor, BLPPTEXT3 Extension and BPRFPT10 Ratchet (22 pc) in a storage case

BPRFPT10 3/8″ Drive 10″ Pass-Thru Flex Ratchet (Blue-Point®)
- Flex-head has seven locking positions
- 3/4″ hex drive
- 10″ long

BLPPTEXT3 3/8″ Drive 3″ Pass-Thru Socket Extension (Blue-Point®)
- 3″ extension

BLPPTA3438 3/8″ Drive Square Drive Adaptor (Blue-Point®)
- 3/8″ square drive adaptor
- 1-1/4″ long

General Service Sets
- Great for use at home or on the road
- Sets offer full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® tool box drawer

BLPGSSC100B 100 pc 3/8″ Drive SAE/Metric General Service Set (Blue-Point®)
- Set covers most popular sizes of wrenches and sockets
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Durable blow-molded case
- Removable foam divider doubles as a kneeling pad
- Lifetime warranty
- Set includes (23) SAE and Metric 1/4″ Drive Standard Depth Sockets, (32) SAE and Metric 3/8″ Drive Sockets, (11) External TORX® Sockets, (19) SAE and Metric Combination Wrenches, (7) 1/4″ Drive and (8) 3/8″ Drive accessories


BLPGSSC100B

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS (Blue-Point®)



BLPGSS3837

BLPGSS3837 37 pc 3/8″ Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (8) SAE (5/16–3/4″) and (14) Metric (6–19 mm) Standard 6-point Sockets, (4) SAE (5/16–3/8″, 7/16–1/2″, 9/16–5/8″ and 11/16–3/4″) (5) Metric (10–11 mm, 12–13 mm, 14–15 mm, 16–17 mm and 18–19 mm) Double Open End Wrenches, (2) Extensions (3 and 6″), Ratchet, Universal Joint and (2) Adaptors (1/4″ Female x 3/8″ Male and 3/8″ Female x 1/4″ Male)
- Includes storage case



BLPGSS3849

BLPGSS3849 49 pc 3/8″ Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (8) SAE (5/16–3/4″) 14 Metric (6–19 mm) Standard 6-point Sockets, (8) SAE (5/16–3/4″) (13) Metric (7–19 mm) Deep 12-point Sockets, (2) Extensions (3 and 6″), Universal Joint, 3/8–1/4″ Adaptor, 1/4–3/8″ Adaptor and Ratchet
- Includes storage case



BLPGSS3885

BLPGSS3885 85 pc 3/8″ Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (13) SAE Sockets (1/4–1″) and (14) Metric Sockets (6–19 mm), (13) SAE (1/4–1″) and (14) Metric (6–19 mm) Deep Sockets, (11) Sockets (E4–E20), (1) PHILLIPS® Socket Driver (#3), (2) Pozidriv® Socket Drivers (#3 and #4), (8) Tamper-Resistant TORX® Socket Drivers (T10–T45), (2) Spark Plug Sockets (5/8 and 13/16″), (6) ratchet/socket accessories and (1) Ratchet in a storage case (BLPGSS3885PB)



BLPGSSCT70B

BLPGSSCT70B 70 pc 3/8″ Drive SAE/Metric General Service Set (Blue-Point®)

- Set covers most popular sizes of wrenches and sockets
- Wrenches have longer handles, providing additional leverage
- Set includes pliers that now feature a slim-line comfort grip
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Includes (27) SAE and Metric 3/8″ Standard-Depth Sockets, (19) SAE and Metric chrome plated Wrenches, Ratchet, Spinner Handle and (3) Extensions, (13) assorted Square, Hex, Slotted and PHILLIPS® Bits, (3) pair of pliers: 6″ Diagonal Cutting, 8″ Long Nose and 10″ Groove Joint Pliers, (2) Spark Plug Sockets
- Includes a durable blow-molded case



1/2" DRIVE TOOLS

OUR 1/2" DRIVE TOOLS EXCEL IN ALMOST ANY APPLICATION, THANKS TO UNMATCHED VERSATILITY, DEPENDABILITY AND DURABILITY. WHICH ALLOWS YOU TO EXCEL AT ANY TASK TOO.

THE WIDEST RANGE, THE STRICTEST STANDARDS.

Our 1/2" drive tools are made from cold-formed alloy steel and put through rigorous testing under extreme conditions. And their performance is as impressive as their endurance, thanks to our Dual 80® Technology that provides dual pawls and an 80-tooth gear for more ratcheting power in less lateral space. Flank Drive® for greater turning power and less slippage. And grooved detents for stronger ratchet attachment and easier engagement in any position.

RATCHETS

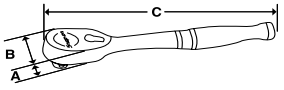


Dual 80® Technology, Chrome (1/2″)

Stop, Turn and Listen. A smoother, stronger ratchet.
Try them to believe them.

Dual 80® Technology Ratchets Feature:

- 80-tooth gear
- Seven teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
S80A	Standard Handle Ratchet	80	4.5	3/4	1-5/8	10-5/16	**RKRS80A**
GS80A	Standard Handle Industrial Ratchet	80	4.5	3/4	1-5/8	10-5/16	**RKRS80A**
SL80A	Long Handle Ratchet	80	4.5	3/4	1-5/8	15	**RKRS80A**
SLL80A	Extra-Long Handle Ratchet	80	4.5	3/4	1-5/8	23-3/16	**RKRS80A**
GSL80A †	Standard Long Handle Industrial Ratchet	80	4.5	3/4	1-5/8	15	**RKRS80A**
SKF80A*†	Stubby Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	7-1/2	**RKRS80A**
SF80A	Standard Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	17-11/18	**RKRS80A**
SLF80A	Long Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	24-13/16	**RKRS80A**
SBF80A	Standard Bent Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	16-1/2	**RKRS80A**
SX80B	Standard Handle Locking Flex Head Ratchet	80	4.5	3/4	1-5/8	17-5/8	**RKRS80A**
SLX80A	Long Handle Locking Flex Head Ratchet	80	4.5	3/4	1-5/8	24-13/16	**RKRS80A**
SH80A ††	Red Soft Grip Handle Ratchet	80	4.5	3/4	1-5/8	12	**RKRS80A**
SHL80A††	Red Soft Grip Long Handle Ratchet	80	4.5	3/4	1-5/8	16-3/4	**RKRS80A**
SHLL80A††	Red Soft Grip Extra Long Handle Ratchet	80	4.5	3/4	1-5/8	24-7/8	**RKRS80A**
SHF80A ††	Red Soft Grip Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	17-5/8	**RKRS80A**
SHLF80A ††	Soft Grip Long Handle Flex Head Ratchet	80	4.5	3/4	1-5/8	25-5/8	**RKRS80A**
SHX80B ** ††	Red Soft Grip Handle Locking Flex Head Ratchet	80	4.5	3/4	1-5/8	18-1/2	**RKRS80A**
SHLX80A ** ††	Red Soft Grip Handle Locking Flex Head Ratchet	80	4.5	3/4	1-5/8	25-3/4	**RKRS80A**

ASME®/ANSI® B107.10
SH936-12 Soft Grip Replacement Handle.
*Uses RKRSX936JT Flex Joint Repair Kit
**Uses RKRSX80AJT Flex Joint Repair Kit and RKRSX80ALM Locking Mechanism Repair Kit
†ASME®/ANSI® B107.10 with exception of the length

Colors Available

Red Orange Green

†† O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS




SR80A


SRL80A

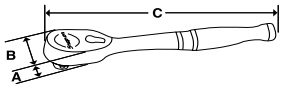

SHR80A


SHRLF80A


SRX80B


SHRX80B

Quick-Release Ratchet (1/2″)



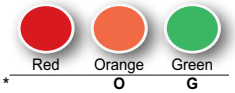
1/2″ Drive Dual 80® Technology Quick-Release Ratchet Repair Kit

- For SR80A, SHR80A and SHRLF80A Dual 80® Technology Quick-Release Ratchets

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
SR80A	Standard Handle Quick-Release	80	4.5	3/4	1-5/8	10-5/16	**RKRSR80A**
SRL80A*	Standard Long Handle Quick-Release Ratchet	80	4.5	3/4	1-5/8	15	**RKRSR80A**
SHR80A	Soft Grip Handle Quick-Release Ratchet	80	4.5	3/4	1-5/8	12	**RKRSR80A**
SHRLF80A†*	Soft Grip Long Handle Quick-Release Flex Head	80	4.5	3/4	1-5/8	25-5/8	**RKRSR80A**
SRX80B	Standard Handle Quick-Release Locking Flex Head	80	4.5	3/4	1-5/8	17-5/8	**RKRSR80A**
SHRX80B†	Standard Soft Grip Handle Quick-Release Locking Flex Head	80	4.5	3/4	1-5/8	18-1/2	**RKRSR80A**

† Uses RKRSX936JT Flex Joint Repair Kit
SH936-12 Soft Grip Replacement Handle.
ASME®/ANSI® B107.10

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

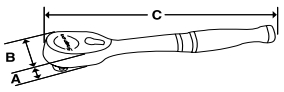

S80AFOD


GS80AFOD


GSL80AFOD

FOD Ratchets (Foreign Object Damage) (1/2″)

- Dual pawls and an 80 tooth gear provide more power in less lateral space
- Seven teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head helps keep dirt and other contaminants out of the head mechanism
- Meets FOD and FME program conformance
- Designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas
- FOD ratchets are designed to help prevent foreign object damage in sensitive work environments
- Cover plate and reverse lever are permanently affixed to ratchet head with rivets to prevent possible sources of debris



Stock No.	Description	Gear Teeth	Swing Arc	A	B	C
S80AFOD	Foreign Object Damage Handle Ratchet	80	4.5	3/4	1-5/8	10-5/16
GS80AFOD	Foreign Object Damage Industrial Handle Ratchet	80	4.5	3/4	1-5/8	10-5/16
GSL80AFOD	Foreign Object Damage Industrial Long Handle Ratchet	80	4.5	3/4	1-5/8	15

ASME®/ANSI® B107.10

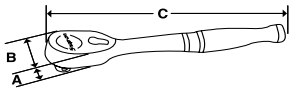
⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

RATCHETS


SA936A


GSP936



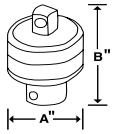
Scaffold Ratchets (1/2″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
SA936A	Scaffold Ratchet	36	10	4-3/16	1-5/8	10-5/16	RKRSA936
GSP936	Spud Ratchet	36	10	3/4	1-5/8	15-5/8	RKRGSP936-1

ASME®/ANSI® B107.10

GSP936 1/2″ Drive Spud Ratchet
- The "spud" ratchet is ideal for lining up holes in scaffolding and other construction jobs
- A long reverse lever provides easy reversing while wearing heavy work gloves
- Locking button retention
- Taper diameter is 3/16–7/8″
- Taper length is 8″


S77A

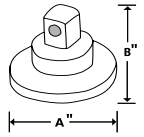


Ratchet Adaptor, Chrome (1/2″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
S77A	Ratchet Adaptor	20	18	1-5/8	3	3	RKRS77

ASME®/ANSI® B107.10


LRS70A



Ratchet Spinner (1/2″)

Stock No.	Description	A	B
LRS70A	1/2″ Drive Ratchet Spinner	1-3/4	1-5/8

ASME®/ANSI® B107.10

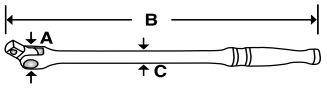
BREAKER BARS


SN15B


GSN18B


SN24C


SN18B



Breaker Bars (1/2″)

Stock No.	Description	A	B	C	Repair Kit
SN15B	1/2″ Drive 15″ Standard Handle Breaker Bar	1-1/8	15	11/16	RKBB3
GSN18B	1/2″ Drive 18″ Standard Handle Industrial Finish Breaker Bar	1-1/8	18	11/16	RKBB3
SN18B	1/2″ Drive 18″ Standard Handle Breaker Bar	1-1/8	18	11/16	RKBB3
SN24C	1/2″ Drive 24″ Standard Handle Breaker Bar	1-1/8	24	11/16	RKBB3

ASME®/ANSI® B107.10

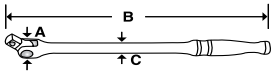
BREAKER BARS









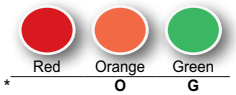


Breaker Bars (1/2″)

Stock No.	Description	A	B	C	Repair Kit
SHBB24*	1/2″ Drive 24″ Soft Grip Handle Breaker Bar	1-1/8	24	11/16	**RKBB3**
SN25A	1/2″ Drive 24″ 45° Offset Square Breaker Bar	1-1/8	24	11/16	**RKBB5**
SN36	1/2″ Drive 36″ Standard Handle Breaker Bar	1-1/4	—	3/4	**RKBB4**
SHN36	1/2″ Drive 36″ Soft Grip Handle Breaker Bar	1-1/4	36-5/8	3/4	**RKBB4**

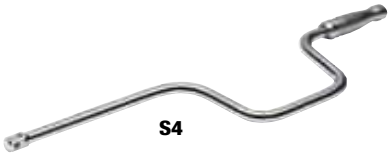
ASME®/ANSI® B107.10
SH936-12 Soft Grip Replacement Handle.

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

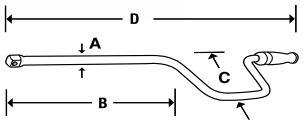
DRIVE HANDLES











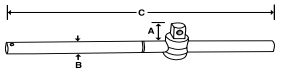
Speeders, Chrome

Stock No.	A	B	C	D
S4	1/2	7	4-3/8	18-7/8
SN4B*	5/8	6-3/8	3	17-1/4
SL4	1/2	7-3/8	4-7/16	19-1/8
N8323	1/2	18-1/16	8-1/2	32-7/8

ASME®/ANSI® B107.10
*Uses RKBB3 Repair Kit

SL4 1/2″ Drive 19-1/8″ Locking Speeder Drive Handle
• Sliding collar and locking pin for better socket retention





Sliding T-Handle, Chrome

Stock No.	A	B	C
S12L	1-11/16	5/8	12

ASME®/ANSI® B107.10

⚠WARNING

• Do not use "cheater bars" on handles
• Do not use chrome or industrial finish hand tools with impact drivers
• Read safety precautions on pages W1 to W4

EXTENSIONS



305ASX



GSXK5



Knurled Extensions

Stock No.	Industrial Stock No.	A	B	305ASX Set Contains:
SX2	—	5/8	2-1/8	•
SXK3	GSXK3	5/8	3-1/2	•
SXK5	GSXK5	5/8	5	•
SXK8	—	5/8	8	•
SXK10	—	5/8	10	
SXK11	GSXK11	5/8	11	•
SX15	—	5/8	15	
SX20	—	5/8	20	
SX24	—	5/8	24	
SX36	—	5/8	36	

ASME®/ANSI® B107.10M

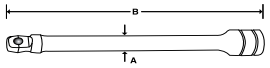
Set includes storage tray.



305ASXW



GSXW2



Extensions/Wobble

- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Stock No.	Industrial Stock No.	A	B	305ASXW Set Contains:
SXW2*	GSXW2	5/8	2	•
SXWK3	—	5/8	3-1/2	•
SXWK5	—	5/8	5	•
SXWK8	—	5/8	8	•
SXWK11	GSXWK11	5/8	11	•

*Not knurled
ASME®/ANSI® B107.10

Set includes storage tray.



SXKL3

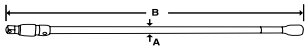


SXKL5



SXKL10

Quick-Release Locking Extensions



Stock No.	A	B
SXKL3	21/32	3
SXKL5	21/32	5
SXKL10	21/32	10

SXKLP Locking Pins (5pk)
SXKLRK FXKL Series Repair Kit



305SXWP

Extensions / Wobble Plus, Chrome

- Provides 16° of additional accessibility
- Usable in wobble and rigid functionality
- Knurled shanks for easy fingertip turning

Stock No.	A	B	305SXWP Set Contains:
SXWP2*	5/8	2	•
SXWP3	5/8	3	•
SXWP5	5/8	5	•
SXWP8	5/8	8	•
SXWP11	5/8	11	•

*Not knurled
ASME®/ANSI® B107.10

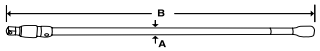
Set includes storage tray.

Extensions/Locking Wobble, Chrome

- Provides 16° of additional accessibility
- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands



303SXWKL



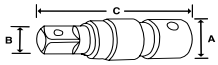
Stock No.	A	B	303SXWKL Set Contains:
SXWKL3	21/32	3	•
SXWKL5	21/32	5	•
SXWKL8	21/32	8	•

Set includes storage tray.

Locking Adaptor, Industrial



GALX3



Stock No.	A	B	C
GALX3	1/2	1/2	3-1/8

ASME®/ANSI® B107.10

SOCKET/RATCHET ACCESSORIES

Universal Joints



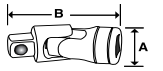
S8



GU8



103UFTS



Stock No.	Industrial Stock No.	A	B
S8	GU8	15/16	2-11/16

ASME®/ANSI® B107.10

Includes storage tray.

103UFTS 3 pc Combination Drive Universal Joint Set

- Includes (1) 1/4″ Drive Universal Joint, (1) 3/8″ Drive Universal Joint and (1) 1/2″ Drive Universal Joint in storage tray

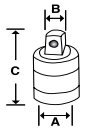
Square Drive Adaptors, Industrial (1/2″)



A2A



GSAF1F



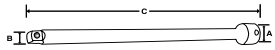
Stock No.	A	B	C	Repair Bit
A2A	3/8	1/2	1-5/16	—
GSAF1F	1/2	3/8	1-13/16	—
GAF2A	3/8	1/2	1-5/16	—
GLA12B	1/2	3/4	1-1/8	—
GLAS1F	3/4	1/2	1-7/16	GLAS1F2

ASME®/ANSI® B107.10

Extension Adaptors, Industrial



GAX12



Stock No.	Retention Type	A	B	C
GAX5	Ball Type	1/2	3/8	5
GAX12	Ball Type	1/2	3/8	12
GAX24	Ball Type	1/2	3/8	23-1/4
GAX36	Ball Type	1/2	3/8	36

ASME®/ANSI® B107.10

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

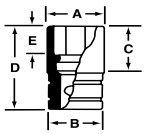
FLANK DRIVE® SOCKETS



SW241



313SWYA



Shallow, inches

										Set Contains: 313TWYA	314GTWYA	313SWYA
	6	12	6	12	A	B	C	D	E	6	6	12
3/8	TW121A	SW121A	GTW121A	GSW121A	19/32	29/32	7/8	1-1/2	5/16	•	•	•
7/16	TW141A	SW141A	GTW141A	GSW141A	11/16	29/32	7/8	1-1/2	11/32	•	•	•
1/2	TW161A	SW161A	GTW161A	GSW161A	3/4	29/32	7/8	1-1/2	13/32	•	•	•
9/16	TW181A	SW181A	GTW181A	GSW181A	13/16	29/32	7/8	1-1/2	13/32	•	•	•
5/8	TW201	SW201	GTW201	GSW201	15/16	7/8	7/8	1-1/2	15/32	•	•	•
11/16	TW221	SW221	GTW221	GSW221	31/32	29/32	7/8	1-1/2	1/2	•	•	•
3/4	TW241	SW241	GTW241	GSW241	1-1/32	31/32	7/8	1-1/2	9/16	•	•	•
13/16	TW261	SW261	GTW261	GSW261	1-1/8	1-1/16	7/8	1-1/2	9/16	•	•	•
7/8	TW281	SW281	GTW281	GSW281	1-3/16	1-1/8	7/8	1-1/2	25/32	•	•	•
15/16	TW301	SW301	GTW301	GSW301	1-9/32	1-7/32	27/32	1-17/32	3/4	•	•	•
1	TW321	SW321	GTW321	GSW321	1-11/32	1-9/32	7/8	1-9/16	3/4	•	•	•
1-1/16	—	SW341	GTW341	GSW341	1-7/16	1-3/8	1-1/16	1-11/16	3/4	•	•	•
1-1/8	TW361	SW361	GTW361	GSW361	1-1/2	1-7/16	1-31/32	1-3/4	1-3/16	•	•	•
1-3/16	TW381	SW381	—	GSW381	1-5/8	1-9/16	1-1/8	1-3/4	3/4			
1-1/4	TW401	SW401	GTW401	GSW401	1-11/16	1-5/8	1-1/4	1-7/8	3/4		•	
1-5/16	TW421	SW421	—	—	1-3/4	1-11/16	1-1/4	1-7/8	1			
1-3/8	TW441	SW441	—	—	1-13/16	1-3/4	1-7/16	2-1/16	1			
1-7/16	TW461	SW461	—	—	1-15/16	1-7/8	1-5/8	2-1/4	1			
1-1/2	TW481	SW481	—	—	2	1-15/16	1-5/8	2-1/4	1			

Sets shown include storage tray.



SWM241



310TWMYA

Shallow, mm, Chrome

										Set Contains: 310TWMYA	313TWMYA	323TWM*	310SWMYA	313SWMYA	323SWM*
mm	6	12	A	B	C	D	E	6	6	6	12	12	12
10	TWM10A	SWM101A	15.0	23.2	22.2	38.1	7.9	•		•	•		•
11	TWM11A	SWM111A	16.6	23.2	22.2	38.1	8.7	•		•	•		•
12	TWM12A	SWM121A	18.2	23.2	22.2	38.1	9.5	•	•	•	•	•	•
13	TWM13A	SWM131A	19.0	23.2	22.2	38.1	10.3	•	•	•	•	•	•
14	TWM14A	SWM141A	20.6	23.2	22.2	38.1	10.3	•	•	•	•	•	•
15	TWM15A	SWM151A	22.2	22.2	22.2	38.1	10.3	•	•	•	•	•	•
16	TWM16	SWM161	23.8	22.2	22.2	38.1	11.9	•	•	•	•	•	•
17	TWM17	SWM171	24.6	23.2	22.2	38.1	12.7	•	•	•	•	•	•
18	TWM18	SWM181	25.4	23.8	21.4	38.1	14.2	•	•	•	•	•	•
19	TWM19	SWM191	26.3	24.8	21.3	38.1	13.9	•	•	•	•	•	•
20	TWM20	SWM201	26.7	26.1	21.2	38.1	14.0		•	•		•	•
21	TWM21	SWM211	28.3	27.5	21.1	38.1	14.0		•	•		•	•
22	TWM22	SWM221	29.9	28.6	20.9	38.1	14.2		•	•		•	•
23	TWM23	SWM231	31.2	29.9	20.8	38.1	14.5		•	•		•	•
24	TWM24	SWM241	32.5	30.9	22.2	38.8	15.8		•	•		•	•
25	TWM25	SWM251	33.3	31.7	22.2	38.8	15.8			•			•
26	TWM26	SWM261	34.9	33.3	23.8	41.2	15.8			•			•
27	TWM27	SWM271	36.5	34.9	25.4	42.8	17.4			•			•
28	TWM28	SWM281	38.1	36.5	26.9	44.4	17.4			•			•
29	TWM29	SWM291	39.3	38.0	26.1	44.5	17.8			•			•
30	TWM30	SWM301	41.0	39.6	26.1	44.5	18.5			•			•
31	TWM31	SWM311	42.5	41.2	29.1	47.6	19.1			•			•
32	TWM32	SWM321	42.5	41.2	28.9	47.6	19.8			•			•

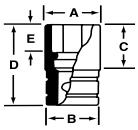
Sets shown include storage tray unless noted.*



TSM20



313SMYA



Deep, mm, Chrome

mm	6	12	A	B	C	D	E	Set Contains: 313TSMYA 6	310TSM 6	313SMYA 12
10	**TSM10A**	**SM10A**	15.0	23.2	66.7	82.6	7.9		•	
11	**TSM11**	**SM11A**	16.6	23.2	66.7	82.6	8.7			
12	**TSM12A**	**SM12B**	18.2	23.2	66.7	82.6	9.5	•	•	•
13	**TSM13A**	**SM13A**	19.0	23.2	66.7	82.6	10.3	•	•	•
14	**TSM14A**	**SM14A**	20.6	23.2	66.7	82.6	10.3	•	•	•
15	**TSM15A**	**SM15A**	22.2	22.2	66.7	82.6	10.3	•	•	•
16	**TSM16**	**SM16**	23.8	22.2	51.0	82.6	11.9	•	•	•
17	**TSM17**	**SM17**	24.6	23.2	51.0	82.6	12.7	•	•	•
18	**TSM18**	**SM18**	25.4	23.8	51.0	82.6	14.3	•	•	•
19	**TSM19**	**SM19**	26.3	24.6	52.5	82.6	14.2	•	•	•
20	**TSM20**	**SM20**	26.7	26.1	58.5	82.6	14.0	•	•	•
21	**TSM21**	**SM21**	28.3	27.5	58.5	82.6	14.0	•		•
22	**TSM22**	**SM22**	29.9	28.6	58.5	82.6	14.2	•		•
23	**TSM23**	**SM23**	31.2	29.9	58.0	82.6	14.5	•		•
24	**TSM24**	**SM24**	32.5	30.9	50.0	82.6	15.8	•		•
25	**TSM25**	**SM25**	33.3	31.7	50.0	82.6	15.8			
26	**TSM26**	**SM26**	34.9	33.3	50.0	82.6	15.8			
27	**TSM27**	**SM27**	36.2	34.9	50.0	82.6	17.5			
28	**TSM28**	**SM28**	37.8	36.5	50.0	82.6	17.5			
29	**TSM29**	**SM29**	39.3	38.0	64.3	82.6	17.8			
30	**TSM30**	**SM30**	41.0	39.6	64.0	82.6	18.5			
31	**TSM31**	**SM31**	42.5	41.2	64.0	82.6	19.1			
32	**TSM32**	**SM32**	42.5	41.2	63.8	82.6	19.8			

Sets shown include storage tray.

Shallow/Deep Sets, mm, Chrome

320TSWMB 20 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set

- Includes (20) Shallow and Deep Sockets (10–20 mm)



320TSWMB

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SOCKETS



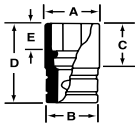
S241



GS201



313SYA



Deep, inches

										Set Contains: 313GTSYA	313TSYA	313SYA
	6	12	6	12	A	B	C	D	E	6	6	12
3/8	TS121A	S121A	GTS121A	—	19/32	29/32	2-5/8	3-1/4	5/16	•	•	•
7/16	TS141A	S141A	GTS141A	—	3/4	29/32	2-5/8	3-1/4	11/32	•	•	•
1/2	TS161A	S161A	GTS161A	GS161A	3/4	29/32	2-5/8	3-1/4	13/32	•	•	•
9/16	TS181A	S181A	GTS181A	GS181A	13/16	29/32	2-5/8	3-1/4	13/32	•	•	•
5/8	TS201	S201	GTS201	GS201	15/16	7/8	1-31/32	3-1/4	15/32	•	•	•
11/16	TS221	S221	GTS221	GS221	31/32	29/32	1-31/32	3-1/4	1/2	•	•	•
3/4	TS241	S241	GTS241	GS241	1-1/32	31/32	2-5/8	3-1/4	9/16	•	•	•
25/32	—	S251	—	—	1-1/16	1-1/32	2-1/8	3-1/4	5/8			
13/16	TS261	S261	GTS261	GS261	1-1/8	1-1/16	2-5/8	3-1/4	9/16	•	•	•
7/8	TS281	S281	GTS281	GS281	1-3/16	1-1/8	2-5/8	3-1/4	9/16	•	•	•
15/16	TS301	S301	GTS301	GS301	1-9/32	1-7/32	1-31/32	3-1/4	3/4	•	•	•
1	TS321	S321	GTS321	GS321	1-11/32	1-9/32	1-31/32	3-1/4	3/4	•	•	•
1-1/16	TS341	S341	GTS341	GS341	1-7/16	1-3/8	1-31/32	3-1/4	3/4	•	•	•
1-1/8	TS361	S361	GTS361	GS361	1-1/2	1-7/16	1-31/32	3-1/4	2-5/32	•	•	•
1-3/16	TS381	S381	GTS381	GS381	1-5/8	1-9/16	2-5/8	3-1/4	1-3/16			
1-1/4	TS401	S401	GTS401	GS401	1-11/16	1-5/8	2-5/8	3-1/4	1			
1-5/16	TS421	S421	—	—	1-3/4	1-11/16	2-9/16	3-1/4	1			
1-3/8	TS441	S441	—	—	1-13/16	1-3/4	2-9/16	3-1/4	1			
1-7/16	TS461	S461	—	—	1-15/16	1-7/8	2-5/8	3-1/4	1			
1-1/2	TS481	S481	—	—	2	1-15/16	2-5/8	3-1/4	1-1/16			

ASME®/ANSI® B107.1

Sets shown include storage tray.



SDH201

Semi-Deep, inches

	12	A	B	C	D	E
3/8	SDH121	19/32	7/8	13/16	1-1/2	9/32
7/16	SDH141	11/16	29/32	13/16	1-1/2	11/32
1/2	SDH161	3/4	29/32	13/16	1-1/2	3/8
9/16	SDH181	27/32	29/32	13/16	1-1/2	13/32
5/8	SDH201	29/32	7/8	13/16	1-1/2	15/32
11/16	SDH221	31/32	15/16	1-1/16	1-3/4	1/2
3/4	SDH241	1-1/16	1-1/32	1-1/16	1-3/4	19/32
25/32	SDH251	1-1/32	1-1/64	1-3/32	1-3/4	5/8
13/16	SDH261	1-1/8	1-3/32	1-1/16	1-3/4	21/32
7/8	SDH281	1-3/16	1-5/32	1-1/8	1-3/4	23/32
15/16	SDH301	1-9/32	1-1/8	1-5/32	1-13/16	23/32
1	SDH321	1-11/32	1-5/16	1-7/32	1-7/8	3/4
1-1/16	SDH341	1-7/16	1-13/32	1-7/32	1-15/16	3/4
1-1/8	SDH361	1-1/2	1-15/32	1-1/4	1-31/32	25/32
1-3/16	SDH381	1-9/16	1-17/32	1-5/16	2	25/32
1-1/4	SDH401	1-9/16	1-17/32	1-9/32	2-1/32	13/16
1-5/16	SDH421	1-21/32	1-5/8	1-5/16	2-1/32	27/32

FLANK DRIVE® SOCKETS

Shallow Universal, Inches, Chrome

Set Contains: 307SUY

	6	A	B	C	D	E	
9/16	**SU18**	27/32	15/16	1-19/64	27/32	15/16	•
5/8	**SU20**	15/16	15/16	1-21/64	2-15/32	3/8	•
11/16	**SU22**	1-1/16	1-1/16	1-15/32	2-9/16	7/16	•
3/4	**SU24**	1-1/8	1-1/8	1-43/64	2-7/8	1/2	•
13/16	**SU26**	1-3/16	1-1/8	1-3/4	2-15/16	9/16	•
7/8	**SU28**	1-1/4	1-1/8	1-3/4	2-15/16	9/16	•
15/16	**SU30**	1-5/16	1-1/8	1-13/16	3	9/16	•

ASME®/ANSI® B107.10M

Set includes storage tray.



SU24

TORX® SOCKETS

TORX Plus® with Countersink

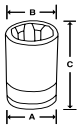
- SLEPL Series of TORX Plus® Sockets with shallow countersink are designed for use on external TORX Plus® low-profile head fasteners to fully engage the fastener head
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability



SLEPL200



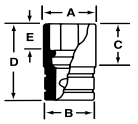
GSLEPL200



#	Stock No.	Industrial Stock No.	A	B	C
18EP	**SLEPL180**	—	29/32	15/16	1-1/2
20EP	**SLEPL200**	**GSLEPL200**	15/16	11/16	1-1/2
22EPL	**SLEPL220**	—	15/16	11/16	1-1/2
24EPL	**SLEPL240**	—	15/16	11/16	1-1/2

SLEPL200 1/2″ Drive 20EPL TORX Plus® with Countersink Socket

- For removal and installation of low-profile drive plate and flywheel bolts on QR25 Nissan® motors with automatic transmissions
- Similar to the J-45816 Nissan® specialty tool
- For flywheel bolts on Nissan® QR25 motors with manual transmissions use the FTX50TPE 3/8″ Drive T50 TORX Plus® Male Socket





213AFLEY

Shallow TORX®, Chrome

#	Stock No.	A	B	D
E14	**SLE140**	21/32	7/8	1-1/2
E16	**SLE160A**	23/32	27/32	1-1/2
E18	**SLE180A**	27/32	7/8	1-1/2
E20	**SLE200A**	15/16	7/8	1-1/2
E24	**SLE240**	1-1/16	1	1-1/2

Set includes magnetic storage tray.

213AFLEY 13 pc Combination Drive TORX® Shallow Socket Set

- Includes (13) sockets– 1/4″ drive (E4–E10), 3/8″ drive (E11–E14), and 1/2″ drive (E16–E24)

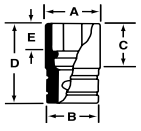
SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the *Snap-on* Flank Drive® wrenching system.

Shallow, Inches, Chrome (1/2″)

		Stock No.	A	B	C	D	E
#16	1/2	**SES161B**	23/32	55/64	5/8	1-19/64	29/64
#18	9/16	**SES181B**	53/64	55/64	5/8	1-19/64	15/32
#20	5/8	**SES201B**	29/32	29/32	7/8	1-17/32	17/32
#22	11/16	**SES221B**	31/32	31/32	7/8	1-17/32	9/16
#24	3/4	**SES241B**	1-1/16	31/32	13/16	1-17/32	9/16
#26	13/16	**SES261B**	1-1/8	1-1/16	25/32	1-17/32	9/16
#28	7/8	**SES281B**	1-3/16	1-1/8	25/32	1-17/32	9/16
#30	15/16	**SES301B**	1-9/32	1-7/32	3/4	1-17/32	9/16



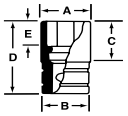


SES161B

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION SOCKETS



Double Square, Inches, Chrome



SW412

	Stock No.	A	B	C	D	E
3/8	**SW412**	23/32	7/8	7/8	1-1/2	5/16
7/16	**SW414**	51/64	7/8	7/8	1-1/2	3/8
1/2	**SW416**	29/32	7/8	7/8	1-1/2	13/32
9/16	**SW418**	31/32	29/32	7/8	1-1/2	7/16
5/8	**SW420**	1-1/16	1	7/8	1-1/2	1/2
11/16	**SW422**	1-3/16	1-1/8	7/8	1-1/2	1/2
3/4	**SW424**	1-9/32	1-3/16	7/8	1-1/2	9/16
13/16	**SW426**	1-7/16	1-3/8	1	1-5/8	5/8
7/8	**SW428**	1-1/2	1-7/16	1-1/8	1-3/4	5/8
15/16	**SW430**	1-5/8	1-9/16	1-1/8	1-13/16	11/16
1	**SW432**	1-11/16	1-5/8	1-1/4	1-7/8	11/16

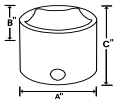


WH280





B2191

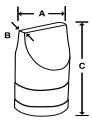


Weatherhead® Fittings, Inches, Chrome

	Stock No.	A	B
7/8	**WH280**	1-3/8	1-13/16
29/32	**WH290**	1-7/16	1-13/16
15/16	**WH300**	1-1/2	1-13/16



A26A



Drag Link, Industrial

Stock No.	A	B	C
A15A	1-3/16	.150	1-11/16
A17A	15/16	.150	1-11/16
A26A	3/4	.109	1-11/16

Flank Drive® Pentagon Socket

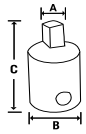
Stock No.	A	B	C
B2191	1-1/8	1/2	1-1/16

B2191 1/2″ Drive 5-Point SAE 1-1/8″ Flank Drive® Pentagon Socket

- A specialty socket for servicing recessed 5-point nuts found on tamper-resistant Buffalo covers used by gas, electric and some water companies to protect shut-off gates



PPM516A



Pipe Plug, Inches, Chrome

Stock No.	A	B	C
PPM516A	1/2	15/16	1-7/16

TORQUE ADAPTORS



STA35

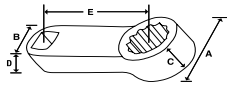
Torque Adaptor

1/2″ Drive Female/Male Torque Adaptor

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5″ length measured center to center



SRDH321



Standard, inches

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas

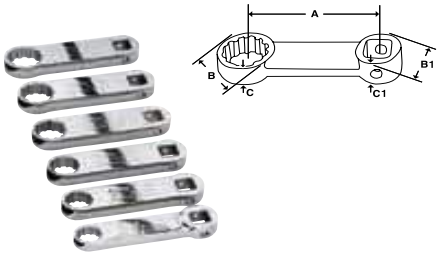
Working Torque, in-lb		12	A	B	C	D	E
4,312	1	**SRDH321**	1.458	1.040	19/32	19/32	3
3,564	1-1/16	**SRDH341**	1.563	1.032	19/32	19/32	2
5,192	1-1/8	**SRDH361**	1.641	1.040	19/32	19/32	3
5,600	1-1/4	**SRDH401**	1.823	1.040	19/32	19/32	3
5,600	1-3/8	**SRDH441**	2.00	1.040	19/32	19/32	3

SPLINE TORQUE ADAPTORS

Spline, Inches, Chrome (1/2″)

- Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircrafts
- Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress and allow application of high-torque to reduce risk of damage to the fastener or the tool
- Chrome tools comply with Military Spec MS-33787 and MIL-W-89823
- The unique spline wrenching configuration can also be used on ordinary six and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system

#		Stock No.	Working Torque, in-lb	A	B-B1	C-C1	Set Contains: SRES306
#18	9/16	SRES18	2,275	3	.818–1.04	13/32–1/2	•
#20	5/8	SRES20	2,450	3	.900–1.04	1/2–1/2	•
#22	11/16	SRES22	2,975	3	.989–1.04	1/2–1/2	•
#24	3/4	SRES24	3,500	3	1.08–1.04	1/2–1/2	•
#26	13/16	SRES26	4,410	3	1.16–1.04	1/2–1/2	•
#28	7/8	SRES28	4,900	3	1.26–1.04	1/2–1/2	•
#30	15/16	SRES30A	6,000	3	1.26–1.04	37/64–37/64	•

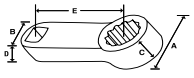


SRES306

Double Hex, mm, Chrome (1/2″)

Stock No.	A	B	C	D	E
SRDHM30	9.5	11.9	6.6	6.6	25.4


SRDHM30

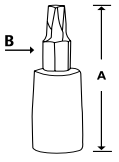


TORX® BIT SOCKETS


STX70E


STXL55E K1820A


STX60TPE



TORX®/Standard, Chrome (1/2″)

#	Stock No.	A	B
T55	STX55E	2-9/16	FTX55E2
T60	STX60E	3-11/32	STX60E2
T70	STX70E	3-1/2	STX70E2

TORX®/Long, Chrome (1/2″)

#	Stock No.	A	B
T50	STXL50E	4-5/8	STXL50E2
T55	STXL55E	4-5/8	STXL55E2
T60	STXL60E	4-5/8	STXL60E2
T70	K1820A	5-3/8	K1820A2
T80	STXL80E	4-51/64	STXL80E2

TORX Plus®, Chrome (1/2″)

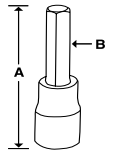
#	Stock No.	A	B
45IP	STX45TPE	2-9/16	FTX45TPE2
50IP	STX50TPE	2-43/64	STX50TPE2
55IP	STX55TPE	2-3/4	FTX55TPE2
60IP	STX60TPE	3-9/32	STX60TPE2

METRIC HEX BIT SOCKETS

Hex/Standard, mm, Chrome (1/2″)

mm		A	B	Set Contains: 307ESAMY
6	SAM6E	60.5	FAM6E2	•
8	SAM8E	62	FAM8E2	•
10	SAM10E	62.8	SAM10E2	•
12	SAM12E	81	SAM12E2	•
14	SAM14E	81	SAM14E2	•
14	SAM16E	95.2	SAM16E2	
17	SAM17E	93.7	SAM17E2	•
19	SAM19E	103.1	SAM19E2	•

Set includes magnetic storage tray.




307ESAMY

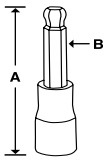
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

METRIC HEX BIT SOCKETS



SABLM12E



Ball Hex/Long, mm, Chrome (1/2″)

mm		A	B
12	SABLM12E	137.1	SABLM12E2



SAM12LE

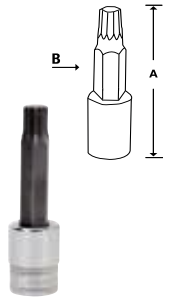
Hex/Long, mm, Chrome (1/2″)

mm		A	B
10	SAM10LE	152.4	SAM10LE2
12	SAM12LE	98	SAM12LE2
13	SAM13LE	24.2	SAM13LE2

SAM12LE 1/2″ Drive Metric 12 mm Long Hex Bit Socket
- Essential for removal or installation of bolt found on the lower forks of 2006 and newer Harley-Davidson® Dyna® series
- Used when servicing the internal parts of the fork

Double Hex/Standard, mm, Chrome (1/2″)

Double Hex Socket Drivers and Triple Square Socket Drivers cannot be interchanged between applications. Triple Square Socket Drivers have 90° corners. Double Hex Socket Drivers have 120° corners. Using a Triple Square tool in a Double Hex application will strip the bolt head. In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles.



SADM10E

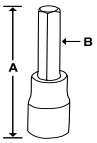
mm		A	B
10	SADM10E	100.0	SADM10E2

SADM10E 1/2″ Drive Metric 10 mm Lexus®/ Toyota® Double Hex Socket Driver
- Applications include removal/installation of head bolts on Toyota® Highlander®, 4Runner®, Camry®, Matrix®, Corolla® and Lexus® IS300, GS300, SC300 vehicles

HEX BIT SOCKETS



307ESAY



Hex/Standard, inches (1/2″)

			A	B	Set Contains: 307ESAY
5/16	SA10E	GSA10E	2-3/8	FA10E2	•
3/8	SA12E	GSA12E	2-1/2	SA12E2	•
7/16	SA14E	GSA14E	2-7/8	SA14E2	•
1/2	SA16E	GSA16E	3-1/16	SA16E2	•
9/16	SA18E	GSA18E	3-3/16	SA18E2	•
5/8	SA20E	GSA20E	3-11/32	LAW120E2	•
3/4	SA24E	GSA24E	4-1/16	LAW124E2	•

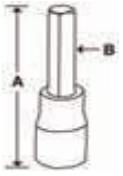
Set includes magnetic storage tray.

IMPACT DRIVERS AND SETS

Impact Rated Hex Drivers (1/2″)
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Snap-on® bits are designed with a precise fit and tight tolerances to prevent slippage and disengagement
- Outperform one-piece design models; two-piece design makes replacement economical and convenient
- Bits can be easily replaced by hand—no need to put them in a vice and punch them out with a hammer
- 3/8″ drive sizes—12 and 14 mm, 1/2 and 9/16″
- 1/2″ drive sizes—5/8, 11/16, 3/4 and 7/8″
- Optional retaining ring ensures positive attachment to anvil for added protection – RR37575 for 3/8″ models and RR50130 for 1/2″ models
- Designed for use with pneumatic or cordless impact guns



IMSA20



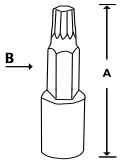
Stock No.	Size	Drive	A	B	Optional Ret Ring
IMSA20	5/8″	1/2″	3-1/2″	IMSA20-2	RR50130
IMSA22	11/16″	1/2″	3-1/2″	IMSA22-2	RR50130
IMSA24	3/4″	1/2″	3-1/2″	IMSA24-2	RR50130
IMSA28	7/8″	1/2″	3-1/2″	IMSA24-2	RR50130



STSM10LE



TSS7KIT



Triple Square/Standard, mm, Chrome (1/2″)

mm		Stock No.	A	B	Set Contains: TSS7KIT
Standard Length	10	STSM10E	88.9	STSM10E2	•
	12	STSM12E	109.5	STSM12E2	•
	14	STSM14E	108.0	STSM14E2	•
	16	STSM16E*	108.0	STSM16E2	•
	18	STSM18E	108.0	STSM18E2	•
Long	10	STSM10LE	156.3	STSM10LE2	•
	12	STSM12LE	147.6	STSM12LE2	•

*Tamper resistant

Set shown includes storage tray.

STSM12E 1/2″ Drive Metric 12 mm Standard Triple Square Bit Socket Driver
- Applications include removal/installation of cylinder head bolts on Mercedes-Benz®, rear toe adjustment on 1999 and newer Audi® A6® and axle shaft bolts on new VW® vehicles

STSM14E 1/2″ Drive Metric 14 mm Standard Triple Square Bit Socket Driver
- Applications include 2003 and later VW® Touareg® front axle bolts, 2003 and later Porsche® Cayenne® front axle bolts, various Audi®/VW® axle bolts and Audi® TT differential mount bolts and transmission drain plugs

STSM16E 1/2″ Drive Metric 16 mm Standard Triple Square Bit Socket Driver
- Applications include Audi® TT clutch and belly pan, various VW®/Audi® transmission drain plugs (tamper-resistant), 2003 and later VW® Touareg® front and rear brake caliper bolts, 2003 and later Porsche® Cayenne® brake caliper bolts, Detroit Diesel® flywheel bolts and front crank pulley on 900 and 4000 engines and head bolts on 900 engines

STSM18E 1/2″ Drive Metric 18 mm Standard Triple Square Bit Socket Driver
- Applications include removal/installation of rear axle bolts of 2006 VW® Jetta® and Golf® vehicles

STSM10E 1/2″ Drive Metric 10 mm Standard Triple Square Bit Socket Driver
- Double hex bit sockets and triple square bit sockets cannot be interchanged between applications
- Triple square bit sockets have 90° corners and double hex bit sockets have 120° corners
- Using a triple square bit socket in a double hex bit application will strip the bolt head
- In general, triple square bit sockets are used on European vehicles
- Pinless bits (no roll pin) provide a solid fit, are easily replaced, and have no hole to collect dirt and grit
- Bits feature natural oil coat finish to protect against corrosion

Triple Square/Stubby, mm, Chrome (1/2″)

- Pinless bits (no roll pin) provide a solid fit, are easily replaced, and have no hole to collect dirt and grit
- Bit sockets are chrome plated
- Bits feature natural oil coat finish to protect against corrosion
- Double Hex socket drivers and Triple Square socket drivers cannot be interchanged between applications
- Using a Triple Square tool in a Double Hex application will strip the bolt head
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles



305STSMSE

mm	Stock No.	A	B	Set Contains: 305STSMSE
10	STSM10SE	59.4	STSM10SE2	•
12	STSM12SE	59.4	STSM12SE2	•
14	STSM14SE	63.2	STSM14SE2	•
16	STSM16SE	68.1	STSM16SE2	•
18	STSM18SE	69.8	STSM18SE2	•

Set includes magnetic storage tray.

STSM10SE 1/2″ Drive Metric 10 mm Triple Square Bit Socket Driver
- Applications include removal/installation of cylinder head bolts, drive shaft bolts and various other applications on VW®, Audi® and Mercedes-Benz® vehicles

STSM12SE 1/2″ Drive Metric 12 mm Triple Square Bit Socket Driver
- Applications include removal/installation of head bolts and axle shaft bolts on VW®, Audi® and Mercedes® vehicles

STSM14SE 1/2″ Drive Metric 14 mm Triple Square Bit Socket Driver

STSM16SE 1/2″ Drive Metric 16 mm Triple Square Bit Socket Driver
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

STSM18SE 1/2″ Drive Metric 18 mm Triple Square Bit Socket Driver
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

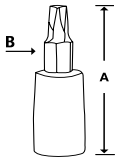
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION BIT SOCKETS



SPDL10E



PolyDrive Head Bolts, mm (1/2″)

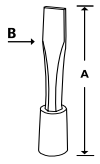
mm	Stock No.	Description	A	B
10	SPDL10E	1/2″ Drive Metric 10 mm VW®/Audi® Polydrive Head Bolt Bit Socket Driver	159	SPDL10E2

SPDL10E 1/2″ Drive Metric 10 mm VW®/Audi® Polydrive Head Bolt Bit Socket Driver
- Applications include removal/installation of #10 PolyDrive cylinder head bolts on 1998 and later VW®/Audi® vehicles with 5-valve motors

FLAT TIP AND PHILLIPS® TIP BIT SOCKETS



SW32E

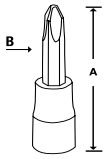


— Flat Tip/ Standard, Chrome (1/2″)

	Stock No.	A	B
7/16 x .050	SW28E	3-1/16	SW28E2A
1/2 x .075	SW32E	3-1/16	SW32E2A
5/8 x .093	SW40E	3-1/4	SW40E2A



SP32E



PHILLIPS®/Standard, Chrome (1/2″)

	Stock No.	A	B
#3	SP32E	2-3/16	SP32E2
#4	SP42E	2-5/16	SP42E2

IMPACT DRIVERS AND SETS



PIT160



PIT3120EB

Impact Driver Set (1/2″)

Stock No.	Description	Set Contains: PIT3120EB
PIT160	1/2″ Drive Impact Driver	•
A26A	1/2″ Drive 3/4″ Blade Width Drag Link Socket	•
SA10E	1/2″ Drive SAE 5/16″ Standard Hex Bit Socket Driver	•
SA12E	1/2″ Drive SAE 3/8″ Standard Hex Bit Socket Driver	•
SA14E	1/2″ Drive SAE 7/16″ Standard Hex Bit Socket Driver	•
SA16E	1/2″ Drive SAE 1/2″ Standard Hex Bit Socket Driver	•
SA18E	1/2″ Drive SAE 9/16″ Standard Hex Bit Socket Driver	•
SA20E	1/2″ Drive SAE 5/8″ Standard Hex Bit Socket Driver	•
SP32E	1/2″ Drive #3 PHILLIPS® Standard Bit Socket Driver	•
SP42E	1/2″ Drive #4 PHILLIPS® Standard Bit Socket Driver	•
SW28E	1/2″ Drive 7/16″ Flat Tip Standard Bit Socket Driver	•
SW32E	1/2″ Drive 1/2″ Flat Tip Standard Bit Socket Driver	•
KRA142B	Metal Storage Case	•

PIT160 1/2″ Drive Impact Driver
- This 1/2″ drive unit delivers cam action impact when struck with a hammer

PIT3120EB 12 pc 1/2″ Drive Impact Driver Set
- PIT160 Impact Driver plus sockets and socket drivers (12 pc) in KRA142B Metal Storage Case

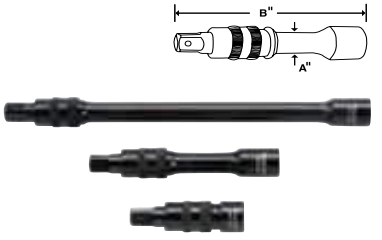
Extensions

- Ideal for use on transmission bellhousing bolts, transaxle and suspension service
- Pull-back collar for fast and easy attachment and removal of sockets
- Knurled release collar provides easy one-hand operation
- Single body construction for maximum strength and locking mechanism specifically for impact use
- Female drive end recessed to accommodate newer style impact guns

Extensions/Locking

Stock No.	A	B	Set Contains: 303IMXL	303AIMXL
IMXL32	5/8	3-1/2	•	
IMXL52	5/8	5	•	
IMXL102	5/8	10	•	
IMXL182	5/8	18		•
IMXL242	5/8	24		•
IMXL312	5/8	31		•

Sets include storage tray.

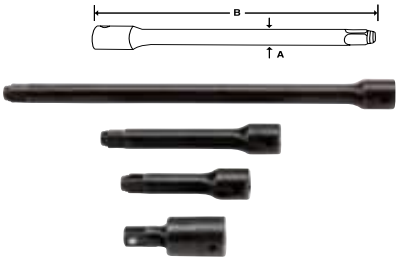


303IMXL

Extensions/Snap Ring Retention, Industrial

Stock No.	A	B	Set Contains: 304IMX
IMX32B	5/8	3	•
IMX52	21/32	5-3/32	•
IMX112	21/32	11-1/4	•

Set includes IP80D and storage tray.

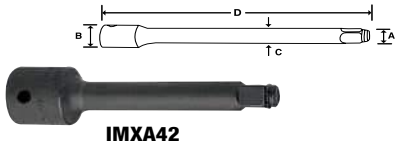


304IMX

304IMX 4 pc 1/2″ Drive Impact Extension Set
- Includes (3) extensions (3, 5-3/32 and 11-1/4″) plus (1) universal joint in a storage tray

Extension Adaptor

Stock No.	A	B	C	D
IMXA42	3/8	1/2	1/2	4

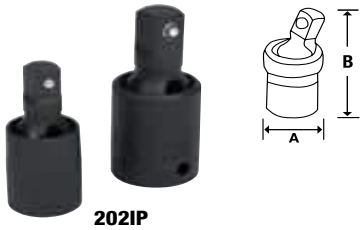


IMXA42

Universal Joints (Impact)

Stock No.	Socket Attachment	A	B
IP80D	Pin Type	1-1/4	2-3/4
IP800	Ball Type	1-1/4	2-3/4

Set includes storage tray.



202IP

202IP 2 pc Combination Drive Impact Universal Joint Set
- Includes 3/8″ drive and 1/2″ drive Impact Swivel Universal Joints

Swivel Extensions (1/2″)

- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Provides versatility for the technician as they can use any shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket, and are not limited to just one size

IPSX6 1/2 Drive 6″ Swivel Impact Extension
- Removes and installs bolts/nuts with a 1/2″ impact gun
- Technician can use any shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket with this extension
- Employs friction ball socket retention method
- Manufactured from special alloy and heat-treated for optimum strength and durability


IPSX6

IPSXL6 1/2 Drive 6″ Swivel Impact Pinned Extension
- Removes and installs bolts/nuts with a 1/2″ impact gun
- Technicians can use any shallow, semi-deep, 6-point, 12-point, metric or SAE impact socket with this extension
- Manufactured from special alloy and heat-treated for optimum strength and durability
- Laser welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Employs lock button engagement in side lock holes of socket ensuring positive retention


IPSXL6

⚠WARNING
- Do not use chrome or industrial finished hand tools with power impact drivers
- Read safety precautions on pages W1 to W4

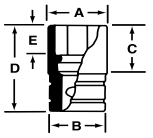
FLANK DRIVE® IMPACT SOCKETS



IMDM150A



310IMMYA



Shallow, mm

mm	6	12	A	B	C	D	E	Set Contains: 315IMMYA 6	312IMM 6	310IMMYA 6	315IMDMYA 12
10	IMM100A	IMDM100A	15.0	22.6	22.2	38.1	7.9	•		•	•
11	IMM110A	IMDM110A	18.2	22.6	22.2	38.1	8.7	•		•	•
12	IMM120A	IMDM120A	19.0	24.3	22.2	38.1	9.5	•		•	•
13	IMM130A	IMDM130A	20.6	24.3	22.2	38.1	10.3	•		•	•
14	IMM140A	IMDM140A	22.2	24.3	22.2	38.1	10.3	•		•	•
15	IMM150A	IMDM150A	23.8	26.4	22.2	38.1	10.3	•	•	•	•
16	IMM160A	IMDM160A	24.6	26.4	22.2	38.1	11.9	•	•	•	•
17	IMM170A	IMDM170A	25.4	26.7	22.2	38.1	12.7	•	•	•	•
18	IMM180	IMDM180	26.7	26.7	19.1	38.1	12.7	•	•	•	•
19	IMM190	IMDM190	28.3	28.3	21.3	38.1	12.7	•	•	•	•
20	IMM200	IMDM200	29.9	29.9	21.1	38.1	14.2	•	•		•
21	IMM210	IMDM210	31.5	31.5	21.0	38.1	14.2	•	•		•
22	IMM220	IMDM220	33.3	33.3	21.4	38.1	15.9	•	•		•
23	IMM230	IMDM230	34.1	34.1	27.8	44.5	15.9	•	•		•
24	IMM240	IMDM240	34.9	34.9	27.8	44.5	15.9	•	•		•
25	IMM250	—	29.8	29.8	27.0	44.5	15.9		•		
26	IMM260	—	38.1	38.1	33.3	50.8	15.9				
27	IMM270	IMDM270	39.4	39.4	27.1	50.8	20.3		•		
29	IMM290	—	41.1	41.1	33.3	50.8	21.1				
30	IMM300	—	42.7	42.7	32.1	50.8	21.6				
32	IMM320	IMDM320	45.7	45.7	36.8	50.8	20.6				
34	IMM340	—	47.6	42.9	40.5	52.4	22.4				
36	IMM360	IMDM360	50.8	46.0	41.3	57.2	22.2				
39	—	IMDM390	53.8	39.6	36.8	50.8	22.3				
41	—	IMDM410	55.6	40.5	31.8	51.6	22.2				
46	IMM460	—	64.8	47.6	50.3	69.9	29.7				

Sets include storage tray.

IMDM360 1/2″ Drive 12-Point Metric 36 mm Flank Drive® Shallow Impact Socket
- Applications include the removal and installation of Duramax® Diesel front crankshaft bolt, late-model BMW® axle shafts, and 2003 GM® and 2004 Dodge® pinion nuts on trucks with 11.5 AAM axles
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding while exceeding ANSI® performance standards

IMDM320 1/2″ Drive 12-Point Metric 32 mm Flank Drive® Shallow Impact Socket
- Applications include servicing axle nuts on 1992–1999 Mercedes-Benz® W140 chassis SC and SL Class; Porsche® Boxster®, Cayenne® and 944; plus 2007–later BMW® x3, X5® and X6® Series vehicles
- Other uses include drive shaft nuts on 2003–later VW® Touareg® vehicles

IMDM390 1/2″ Drive 12-Point Metric 39 mm Flank Drive® Shallow Impact Socket
- Applications include the front axle hub of 2007 Toyota® Tundra 4WD; and servicing inner rack and pinion nuts on BMW® X5® and X6® vehicles

IMDM270 1/2″ Drive 12-Point Metric 27 mm Flank Drive® Shallow Impact Socket
- CFDS12B–CFDS24B sockets (3/8–3/4″)
- (8 pc) plus CFS949A ratchet in C0800 kit bag

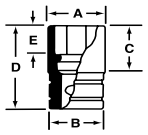
IMDM410 1/2″ Drive 12-Point Metric 41 mm Flank Drive® Shallow Impact Socket
- Applications include removal and installation of lower ball joint on 2013 current BMW® 5 and 7 Series vehicles
- 41 mm, 12-point, 1/2″ drive



IMD120A



311IMYA



Shallow, inches

								Set Contains: 311IMYA	313IMD	307IMDYA
	6	12	A	B	C	D	E	6	12	12
3/8	IM120A	IMD120A	19/32	29/32	7/8	1-1/2	5/16	•	•	•
7/16	IM140A	IMD140A	23/32	29/32	7/8	1-1/2	11/32	•	•	•
1/2	IM160A	IMD160A	13/16	29/32	7/8	1-1/2	13/32	•	•	•
9/16	IM180A	IMD180A	7/8	29/32	7/8	1-1/2	13/32	•	•	•
5/8	IM200	IMD200	15/16	1	7/8	1-1/2	15/32	•	•	•
11/16	IM220	IMD220	1-1/16	1-1/16	3/4	1-1/2	1/2	•	•	•
3/4	IM240	IMD240	1-1/8	1-1/8	3/4	1-1/2	1/2	•	•	•
13/16	IM260	IMD260	1-1/4	1-1/4	3/4	1-1/2	1/2	•	•	
7/8	IM280	IMD280	1-5/16	1-5/16	13/16	1-1/2	9/16	•	•	
15/16	IM300	IMD300	1-3/8	1-3/8	1-1/16	1-3/4	3/4	•	•	
1	IM320	IMD320	1-7/16	1-7/16	1-1/16	1-3/4	3/4	•	•	
1-1/16	IM340	—	1-9/16	1-9/16	1	2	13/16			
1-1/8	IM360	IMD360	1-5/8	1-5/8	1	2	13/16		•	
1-3/16	IM380	—	1-11/16	1-1/2	1-3/32	2	13/16			
1-1/4	IM400	IMD400	1-3/4	1-1/2	1-5/32	2	13/16		•	
1-5/16	IM420H	—	1-7/8	1-1/2	1-3/8	2	7/8			
1-3/8	IM440	—	1-15/16	1-1/2	1-3/8	2	7/8			
1-7/16	IM460	—	2	1-1/2	1-3/8	2	15/16			
1-1/2	IM480	—	2-1/8	1-9/16	1-3/8	2	15/16			
1-9/16	IM500	—	2-1/4	1-5/8	1-11/16	2-5/16	15/16			

Sets shown include storage tray.



IMMS240



312IMMS

Semi-Deep, mm

						Set Contains: 307IMMS	312IMMS
mm	6	A	B	D	E	6	6
10	IMMS100	15.9	23	56.4	7.1		
12	IMMS120	19.8	23	56.4	8.7	•	
13	IMMS130	21.4	23	56.4	9.5		
14	IMMS140	23	23	56.4	10.3	•	
15	IMMS150	23.8	23	56.4	10.3		•
16	IMMS160	24.6	24.6	56.4	11.9	•	•
17	IMMS170	25.4	25.4	56.4	11.1		•
18	IMMS180	27	27	56.4	12.7	•	•
19	IMMS190	28.6	28.6	56.4	13.5		•
20	IMMS200	30.2	30.2	56.4	13.5	•	•
21	IMMS210	31.8	31.8	56.4	13.5		•
22	IMMS220	33.3	33.3	60.3	13.5	•	•
23	IMMS230	34.1	34.1	60.3	15.9		•
24	IMMS240	34.9	34.9	60.3	15.1	•	•
25	IMMS250	36.5	36.5	60.3	15.9		•
27	IMMS270	39.7	39.7	60.3	19.8		•
30	IMMS300	42.9	42.9	63.5	21.4		
32	IMMS320	46	46	63.5	22.2		
34	IMMS340	44	52	70	22		
36	IMMS360	51	44	70	22		

Set shown includes storage tray.

⚠WARNING

• Read safety precautions on pages W1 to W4

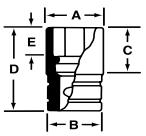
FLANK DRIVE® IMPACT SOCKETS



IMS300



312IMS



Semi-Deep, inches

							Set Contains: 307IMS	312IMS
11	6	A	B	C	D	E	6	6
1/2	IMS160	27/32	29/32	1-17/32	2-7/32	3/8		•
9/16	IMS180	29/32	29/32	1-17/32	2-7/32	13/32	•	•
5/8	IMS200	31/32	31/32	1-17/32	2-7/32	15/32	•	•
11/16	IMS220	1-1/16	1-1/16	1-7/32	2-7/32	1/2	•	•
3/4	IMS240	1-1/8	1-1/8	1-3/16	2-7/32	17/32	•	•
13/16	IMS260	1-1/4	1-1/4	1-3/16	2-7/32	9/16	•	•
7/8	IMS280	1-5/16	1-5/16	1-3/8	2-13/32	5/8	•	•
15/16	IMS300	1-3/8	1-3/8	1-11/32	2-13/32	21/32	•	•
1	IMS320	1-7/16	1-7/16	1-11/32	2-13/32	23/32		•
1-1/16	IMS340	1-9/16	1-9/16	1-11/32	2-13/32	3/4		•
1-1/8	IMS360	1-5/8	1-5/8	1-7/16	2-1/2	25/32		•
1-1/4	IMS400	1-3/4	1-3/4	1-7/16	2-1/2	7/8		•

Set includes storage tray.



SIMM340



310SIMMYA

Deep, mm

								Set Contains: 305SIMMY	310SIMMYA	310SIMMADDON	312SIMM	315SIMMYA	325SIMM	312SIMDM
mm	6	12	A	B	C	D	E	6	6	6	6	6	6	12
10	SIMM100A	SIMDM100	15.0	23.2	66.7	82.6	7.9		•			•	•	
11	SIMM110A	SIMDM110	18.2	23.2	66.7	82.6	8.7		•			•	•	
12	SIMM120A	SIMDM120	19.0	23.2	66.7	82.6	9.5		•			•	•	
13	SIMM130A	SIMDM130	20.6	23.2	66.7	82.6	10.3		•			•	•	
14	SIMM140A	SIMDM140	22.2	23.2	66.7	82.6	10.3		•			•	•	
15	SIMM150A	SIMDM150	23.8	23.8	50.0	82.6	10.3		•		•	•	•	•
16	SIMM160A	SIMDM160	24.6	24.6	50.0	82.6	11.9		•		•	•	•	•
17	SIMM170	SIMDM170	25.1	25.1	57.9	82.6	11.2		•		•	•	•	•
18	SIMM180	SIMDM180	26.7	26.7	61.0	82.6	12.7		•		•	•	•	•
19	SIMM190	SIMDM190	28.3	28.3	61.0	82.6	14.2		•		•	•	•	•
20	SIMM200	SIMDM200	29.9	29.9	61.0	82.6	14.2				•	•	•	•
21	SIMM210	SIMDM210	31.5	31.5	61.0	82.6	14.2				•	•	•	•
22	SIMM220	SIMDM220	33.1	33.1	71.6	88.9	15.7				•	•	•	•
23	SIMM230	SIMDM230	33.1	33.1	64.3	88.9	15.9				•	•	•	•
24	SIMM240	SIMDM240	34.9	34.9	63.5	88.9	15.9				•	•	•	•
25	SIMM250	SIMDM250	36.3	36.3	63.5	88.9	15.9			•	•		•	•
26	SIMM260	—	37.9	37.9	71.0	88.9	19.8			•			•	
27	SIMM270	SIMDM270	39.4	39.4	71.0	88.9	20.3			•	•		•	•
28	SIMM280A	—	41.0	41.0	71.0	88.9	20.8							
29	SIMM290	SIMDM290	41.3	41.3	71.6	88.9	21.3	•		•			•	
30	SIMM300	SIMDM300	42.9	42.9	71.6	88.9	21.6	•		•			•	
32	SIMM320	SIMDM320	45.8	45.8	71.6	88.9	22.4			•			•	
33	SIMM330	SIMDM330	46.0	46.0	72.8	88.9	22.4			•			•	
34	SIMM340	SIMDM340	49.3	49.3	72.8	88.9	22.6	•		•			•	
35	SIMM350	SIMDM350	50.8	50.8	72.8	88.9	22.9	•		•			•	
36	SIMM360	SIMDM360	50.8	50.8	72.8	88.9	22.9	•		•			•	

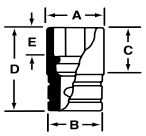
Sets shown include storage tray.



SIMD300A



313SIMA



Deep, inches

Set Contains:	307SIM	313SIMA	320SIM*	309SIMYA	313SIMD

11	6	12	A	B	C	D	E	6	6	6	6	12
3/8	SIM120A	—	19/32	29/32	2-5/8	3-1/4	5/16	•		•		
7/16	SIM140A	—	23/32	29/32	2-5/8	3-1/4	11/32	•		•		
1/2	SIM160A	SIMD160A	13/16	29/32	2-5/8	3-1/4	3/8		•	•	•	•
9/16	SIM180A	SIMD180A	7/8	29/32	2-5/8	3-1/4	13/32		•	•	•	•
5/8	SIM200	SIMD200A	31/32	29/32	2-5/8	3-1/4	15/32		•	•	•	•
11/16	SIM220	SIMD220A	1-1/16	1-1/16	2-5/8	3-1/4	1/2		•	•	•	•
3/4	SIM240	SIMD240A	1-1/8	1-1/8	2-5/8	3-1/4	9/16		•	•	•	•
13/16	SIM260	SIMD260A	1-1/4	1-1/4	2-5/8	3-1/4	19/32		•	•	•	•
7/8	SIM280	SIMD280A	1-5/16	1-5/16	2-3/32	3-1/2	9/16		•	•	•	•
15/16	SIM300	SIMD300A	1-3/8	1-3/8	2-3/32	3-1/2	3/4		•	•	•	•
1	SIM320	SIMD320A	1-7/16	1-7/16	2-7/8	3-1/2	3/4		•	•	•	•
1-1/16	SIM340	SIMD340A	1-9/16	1-9/16	2-11/16	3-1/2	25/32		•	•		•
1-1/8	SIM360	SIMD360A	1-5/8	1-5/8	2-11/16	3-1/2	25/32		•	•		•
1-3/16	SIM380	SIMD380A	1-11/16	1-1/2	2-11/16	3-1/2	25/32		•	•		•
1-1/4	SIM400	SIMD400A	1-3/4	1-1/2	2-11/16	3-1/2	1		•	•		•
1-5/16	SIM420H	—	1-7/8	1-1/2	2-11/16	3-1/2	15/16	•		•		
1-3/8	SIM440	—	2	1-1/2	2-11/16	3-1/2	15/16	•		•		
1-7/16	SIM460	—	2	1-1/2	2-21/32	3-1/2	15/16	•		•		
1-1/2	SIM480	—	2-1/8	1-9/16	2-5/8	3-1/2	15/16	•		•		
1-9/16	SIM500	—	2-1/4	1-5/8	2-5/8	3-1/2	15/16	•		•		
1-5/8	SIM520	—	2-3/8	1-3/4	2-7/8	3-1/2	15/16					

Sets shown include storage tray unless noted.

*Does not include storage tray.



311IMFSY

Shallow/Thin Wall, inches

Set Contains:	311IMFSY

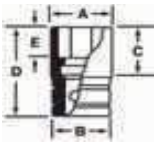
11	6	A	B	C	D	E	6
3/8	IMFS120	19/32	7/8	3/8	1-1/2	7/32	•
7/16	IMFS140	11/16	7/8	9/16	1-1/2	11/32	•
1/2	IMFS160	3/4	7/8	5/8	1-1/2	3/8	•
9/16	IMFS180	13/16	7/8	11/16	1-1/2	13/32	•
5/8	IMFS200	29/32	29/32	3/4	1-1/2	15/32	•
11/16	IMFS220	1	1	13/16	1-1/2	1/2	•
3/4	IMFS240	1-1/16	1-1/16	13/16	1-1/2	1/2	•
13/16	IMFS260	1-1/8	1-1/8	25/32	1-1/2	1/2	•
7/8	IMFS280	1-7/32	1-7/32	29/32	1-1/2	9/16	•
15/16	IMFS300	1-5/16	1-5/16	1-3/16	1-17/32	3/4	•
1	IMFS320	1-3/8	1-3/8	1-3/16	1-9/16	3/4	•
1-1/16	IMFS340	1-7/16	1-7/16	1-1/4	1-11/16	13/16	
1-1/8	IMFS360	1-1/2	1-1/2	1-1/4	1-3/4	13/16	
1-3/16	IMFS380	1-5/8	1-5/8	1-1/4	1-3/4	13/16	
1-1/4	IMFS400	1-11/16	1-11/16	1-1/4	1-7/8	13/16	
1-5/16	IMFS420	1-3/4	1-3/4	1-1/4	1-7/8	13/16	
1-3/8	IMFS440	1-13/16	1-13/16	1-1/4	2-1/16	13/16	
1-7/16	IMFS460	1-15/16	1-3/4	1-3/8	2-1/16	13/16	
1-1/2	IMFS480	2	2	1-3/8	2-1/16	13/16	

Set shown includes storage tray.

⚠WARNING

• Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS



Extra-Deep, mm

mm	Stock No.	A	B	C	D	E
15	SIMML150	23.2	26.4	110.2	127.0	10.7
18	SIMML180	26.8	26.8	54.8	127.0	12.7



SIMML150

SIMML180 1/2″ Drive 6-Point Metric 18 mm Flank Drive® Extra-Deep Impact Socket

- Applications include the removal and installation of the fuel tank hold down strap on International® 4400 chassis
- The fuel tank must be removed to replace the fuel sending unit
- 5″ long to reach through the frame to access the fastener without the need of an extension

Extra-Deep, inches

- Applications include removing or replacing fuel tank retaining strap nuts
- Also has applications for emergency brake adjustment nuts and stabilizer retainers



SIML200

	6	A	B	C	D	E
1/2	SIML160*	25/32	15/16	4-1/4	5	3/8
9/16	SIML180	7/8	15/16	4-1/4	5	13/32
5/8	SIML200	31/32	1	4-1/4	5	15/32
11/16	SIML220	1-1/16	1-1/16	4-1/4	5	1/2
3/4	SIML240	1-1/8	1-1/8	4-1/4	5	9/16
13/16	SIML260	1-1/4	1-1/4	4-1/4	5	19/32
7/8	SIML280	1-5/16	1-5/16	4-1/4	5	21/32
15/16	SIML300	1-3/8	1-3/8	4-1/4	5	23/32
1	SIML320	1-7/16	1-7/16	4-3/8	5	3/4
1-1/16	SIML340	1-9/16	1-9/16	4-3/8	5	25/32
1-1/8	SIML360	1-5/8	1-5/8	4-3/8	5	25/32
1-1/4	SIML402	1-3/4	1-3/4	5-1/8	6	1

*ASME®/ANSI® B107.2

Extra-Deep/Thin Wall, mm

- Sockets are 34% thinner than a standard thin wall socket
- Used to access the nut on long studs and other hard-to-reach areas
- Ideal for wheel lugs



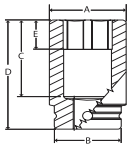
SIMMF21A

Size, mm	Stock No.	A	B	C	D	E
14	SIMMF14A	20.6	23.8	50.8	76.2	25.4
17	SIMMF17A	23.8	23.8	50.8	76.2	25.4
19	SIMMF19A	26.2	28.6	40.5	76.2	19
21	SIMMF21A	28.6	28.6	50.8	76.2	25.4
22	SIMMF22A	30.2	30.2	50.8	76.2	25.4

Deep/Thin Wall, mm



SIMDM360TW



mm	Stock No.	A	B	C	D	E
36	SIMDM360TW	47.2	44.5	72.8	88.9	22.9

SIMDM360TW 1/2″ Drive 6-Point Metric 36 mm Flank Drive® Deep Pinion Flange Nut Impact Socket

- Thin-wall design provides extra room needed to remove and install the differential pinion flange nut on the 2012 Chevy® Camaro® (USA) and Holden® Commodore (Australia) vehicles

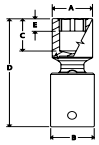
Shallow Swivel, mm

Set Contains:								312IPLM	307IPLMY
mm	6	12	A	B	C	D	E	6	6
10	IPLM10C	–	15.5	26.8	26.8	69.3	9.7	•	
11	IPLM11C	–	17.5	26.8	26.8	69.3	9.7	•	
12	IPLM12C	IPDLM12	18.0	26.8	26.8	69.3	9.7	•	
13	IPLM13C	IPDLM13A	19.7	26.8	26.8	69.3	9.7	•	
14	IPLM14C	–	21.3	26.8	26.8	69.3	9.7	•	•
15	IPLM15C	–	23.0	31.9	31.9	69.3	9.7	•	•
16	IPLM16C	IPDLM16A	24.4	31.9	31.9	71.1	10.4	•	
17	IPLM17C	IPDLM17A	25.3	31.9	31.9	71.1	10.4	•	•
18	IPLM18C	IPDLM18A	26.5	31.9	31.9	71.1	10.4	•	•
19	IPLM19C	–	26.8	31.9	31.9	71.1	11.2	•	•
21	IPLM21C	–	30.0	31.9	31.9	71.1	12.7	•	•
22	IPLM22C	–	32.4	31.9	31.9	74.4	14.2		
24	IPLM24C	–	34.0	31.9	31.9	74.4	15.0	•	•

Sets shown include storage tray.



IPDLM12





312IPLM

Semi-Deep Swivel, mm

mm	6	A	B	C	D	E
15	IPSM15	23.0	31.9	31.9	80.6	9.7
18	IPSM18	26.5	31.9	31.9	82.4	10.4
21	IPSM21	30.0	31.9	31.9	82.4	12.7
22	IPSM22	32.4	31.9	31.9	82.4	14.2



IPSM21

IPSM21 1/2″ Drive 6-Point Metric 21 mm Flank Drive® Semi-Deep Swivel Impact Socket

- Used to remove pinion nuts on 2003 GM® and 2004 Dodge® trucks with 11.5 AAM axles
- Other uses include Duramax® diesel front crankshaft bolts and late-model BMW® axle shafts



SIP18A

Deep Swivel, inches

	6	A	B	C	D	E
9/16	SIP18A	7/8	1-1/16	1-1/16	3-1/2	5/16
3/4	SIP24A	1-1/16	1-1/16	1-1/16	3-31/32	7/16

Shallow Swivel, inches

Set Contains:								312IPL	307IPLY
	6	12	A	B	C	D	E	6	6
1/2	IPL16C	IPDL16	25/32	1-1/32	1-1/32	2-3/4	5/16	•	
9/16	IPL18C	–	27/32	1-1/32	1-1/32	2-3/4	5/16	•	•
5/8	IPL20C	IPDL20	31/32	1-1/16	1-1/16	2-3/4	5/16	•	•
11/16	IPL22C	–	1-1/16	1-1/16	1-1/16	2-13/16	13/32	•	•
3/4	IPL24C	–	1-1/8	1-1/16	1-1/16	2-13/16	7/16	•	•
13/16	IPL26C	–	1-3/16	1-1/16	1-1/16	2-13/16	1/2	•	
7/8	IPL28C	–	1-9/32	1-1/16	1-1/16	2-15/16	17/32	•	•
15/16	IPL30C	–	1-11/32	1-1/16	1-1/16	2-15/16	19/32	•	•
1	IPL32C	–	1-11/32	1-1/16	1-1/16	2-15/16	21/32	•	
1-1/16	IPL34C	–	1-7/16	1-1/16	1-1/16	2-15/16	11/16	•	
1-1/8	IPL36C	–	1-9/16	1-1/16	1-1/16	3-1/8	3/4	•	•
1-3/16	IPL38C	–	1/1/16	1-1/4	1-1/4	3-3/8	23/32	•	
1-1/4	IPL40C	–	1-5/8	1-1/16	1-1/16	3-3/16	25/32		
1-5/16	IPL42C	–	1-3/4	1-1/16	1-1/16	3-3/16	7/8		

Sets shown include storage tray.



IPL20C



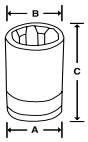
312IPL

⚠WARNING • Read safety precautions on pages W1 to W4

SPECIAL APPLICATION IMPACT SOCKETS



IMSLE240



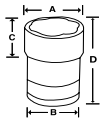
TORX®/Shallow Impact

#	Stock No.	A	B	C
E18	IMSLE180	29/32	29/32	1-1/2
E20	IMSLE200	15/16	15/16	1-1/2
E24	IMSLE240	1-1/16	1-1/16	1-1/2

IMSLE240 1/2″ Drive TORX® E24 Shallow Impact Socket
- Used for front axle nut on M, C, E and S Class Mercedes-Benz® vehicles



305TTWYA



Twist/Shallow, inches
- Removes rounded/damaged fasteners

	Stock No.	A	B	C	D
3/4	TTWY241A	1-1/32	1	1	1-5/8
13/16	TTWY261A	1-1/8	1	1	1-5/8
7/8	TTWY281A	1-3/16	1-1/16	1	1-5/8
15/16	TTWY301A	1-1/4	1-3/16	1	1-5/8
1	TTWY321A	1-5/16	1-1/4	1	1-5/8

305TTWYA 5 pc 1/2″ Drive SAE Shallow Twist Impact Socket Set (Blue-Point®)
- Includes (5) TTWY241A–TTWY321A (3/4–1″)



IMSLEPL240

Low-Profile TORX Plus® Impact (1/2″)

IMSLEPL240 1/2″ Drive 24EPL TORX Plus® Low-Profile Impact Socket
- Impact rated TORX Plus® socket
- Low profile geometry for use with low profile fasteners
- Manufactured from special steel with higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability



SPS10A

Shackle Pin

Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks.

SPS10A 1/2″ Drive SAE 41/64″ Shackle Pin Impact Socket
- Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks

SPS11A 1/2″ Drive SAE 21/32 x 1-17/32″ Shackle Pin Impact Socket
- 21/32 x 1-17/32 x 1-3/4″ long

SPS12 1/2″ Drive SAE 3/4 x 1-9/32″ Shackle Pin Impact Socket
- Manufactured from special billet alloy steel, and heat treated for optimum strength and durability
- Impact rated 1/2″ drive
- Socket opening is 3/4 x 1-9/32″; 1-3/4″ long

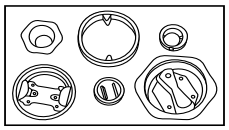
SPS13 Spring Shackle Pin Socket
- Manufactured from special alloy steel, precision machined and heat treated for optimum strength and durability
- Hardened pins for engaging shackle pin



A172A

Drum Plug Socket

A172A 1/2″ Drive Drum Plug Socket
- One socket removes virtually all screw-in drum plugs or caps
- Spring-loaded inner wrench handles smaller plugs and recesses automatically when removing large plugs
- Use with a 1/2″ drive ratchet or impact wrench



Crankshaft Bolt Socket

S6324 1/2″ Drive 6-Point Metric 24 mm Crankshaft Bolt Impact Socket

- Used for removing and installing crankshaft bolts on Audi® A4®, A6® and A8® vehicles
- Socket is 1/2″ drive 24 mm and overall length is 2″ which is critical to the crank shaft bolt application
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque by 15–20% while preventing the fastener from rounding, and increasing the life of the socket



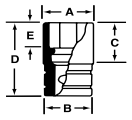
S6324



DPSM16



SIMDM360TW



Shallow/10-Point, mm

mm	10	A	B	D	E
16	DPSM16	24.6	24.6	38.1	11.9

DPSM16 1/2″ Drive 10-Point Metric 16 mm Shallow Impact Socket

- Used for removing the rear lower control arm bolts on 2001 and newer Honda® Civic® and Acura® RSX vehicles
- Forged from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

Deep/Thin Wall, mm

mm	6	A	B	C	D	E
36	SIMDM360TW	47.2	44.5	72.8	88.9	22.9

SIMDM360TW 1/2″ Drive 6-Point Metric 36 mm Flank Drive® Deep Pinion Flange Nut Impact Socket

- Thin-wall design provides extra room needed to remove and install the differential pinion flange nut on the 2012 Chevy® Camaro® (USA) and Holden® Commodore (Australia) vehicles

Extensions/Lock Button, Industrial

Stock No.	A	B
PS2	5/8	2
PS3	5/8	3-1/2
PS5	5/8	5
PS10	5/8	10



PS10

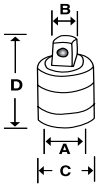


Adaptors (Power)

Stock No.	Socket Attachment	A	B	C	D
PA2A	Pin Type	3/8	1/2	3/4	1-5/16



PA2A

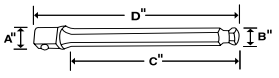


Hex Shanks (Power)

Stock No.	Socket Attachment	A	B	C	D
A3011A	Pin Type	1/2	7/16	1-1/4	2-3/4



A3011A

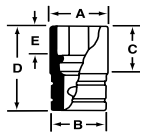


⚠WARNING • Read safety precautions on pages W1 to W4

POWER SOCKETS



SPM19



Deep, mm, Industrial

mm	6	A	B	C	D	E
17	SPM17	24.6	24.6	66.6	82.6	12.7
19	SPM19	26.4	26.4	64.8	82.6	11.9
21	SPM21	28.3	28.3	64.8	82.6	12.3



P412

Double Square/Shallow, inches, Industrial

	8	A	B	C	D	E
3/8″	P412	13/32	7/8	7/8	1-1/2	5/16
7/16	P414	13/16	15/16	7/8	1-1/2	3/8
1/2	P416	29/32	1	7/8	1-1/2	5/16
9/16	P418	1	1-1/8	7/8	1-1/2	1/2
5/8	P420	1-3/32	1-3/16	7/8	1-1/2	1/2
11/16	P422	1-7/32	1-1/4	7/8	1-1/2	13/32
3/4	P424	1-5/16	1-3/8	7/8	1-1/2	9/16
13/16	P426	1-7/16	1-7/16	7/8	1-1/2	5/8
7/8	P428	1-1/2	1-1/2	1-1/32	1-3/4	5/8
1	P432	1-23/32	1-3/4	1-1/8	1-3/4	3/4



SIPR426

Double Square/Deep, inches, Industrial

	8	A	B	C	D	E
13/16	SIPR426	1-7/16	1-3/8	2-9/16	3-1/4	5/8
1	SIPR432	1-3/4	1-1/2	2-11/16	3-1/2	3/4
1-1/8	SIPR436	1-15/16	1-51/64	2-23/32	3-1/2	27/32



SIPRL436

Double Square/Extra-Deep, inches, Industrial

	8	A	B	C	D	E
1-1/8	SIPRL436	1-15/16	1-1/2	4-13/32	5	27/32



MPK121A

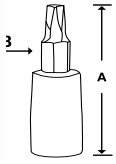
Shallow Magnetic, inches, Industrial

	6	A	B	C	D
3/8″	MPK121A	19/32	7/8	1-1/2	1/8
7/16	MPK141A	11/16	7/8	1-1/2	5/32
1/2	MPK161A	25/32	15/16	1-1/2	5/32
9/16	MPK181A	7/8	15/16	1-1/2	5/32

POWER BIT SOCKETS



PSTX50E



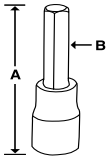
TORX®/Standard (Power), Industrial (1/2″)

#	Stock No.	A	B
T45	PSTX45E	2-7/16	FTX45E2
T50	PSTX50E	2-7/16	FTX50E2
T50	PSTX500E*	2-7/16	FTX500E2
T55	PSTX55E	2-7/16	FTX55E2

*GM® style

Hex/Standard (Power), inches, Industrial (1/2″)

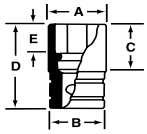
		A	B
5/16	**PSA10E**	2-7/16	**FA10E2**
3/8	**PSA12E**	2-9/16	**SA12E2**
7/16	**PSA14E**	2-7/8	**SA14E2**
1/2	**PSA16E**	3-1/16	**SA16E2**
9/16	**PSA18E**	3-1/8	**SA18E2**
5/8	**PSA20E**	3-7/16	**LAW120E2**
3/4	**PSA24E**	4-1/16	**LAW124E2**





PSA10E

SURFACE DRIVE SOCKETS



Shallow, mm, Natural

mm	6	A	B	C	D	E
15	**DTM15A**	22.3	22.9	21.3	38.1	10.7



DTM15A

Deep, mm, Natural

Surface drive sockets will engage with a fastener while rotating on a power nut runner

mm	6	A	B	C	D	E
13	**DTSM13A**	19.3	21.8	65.8	82.6	10.2
15	**DTSM15A**	22.3	21.8	65.8	82.6	10.7



DTSM13A

Deep, inches, Natural

	6	A	B	C	D	E
1/2	**DTS16A**	3/4	29/32	2-19/32	3-1/4	13/32
9/16	**DTS18A**	13/16	29/32	2-19/32	3-1/4	13/32



DTS16A

Surface Drive (M-Series)

- Snap-on® M-Series sockets offer a precise fit, optimum hardness, durability, ring-groove and pin hole for use on a variety of industrial fastening applications
- M-Series sockets feature surface drive technology to ensure a long service life
- Used in the industrial market for assembly line work
- The lead-in chamfer and special design of these sockets will engage with a fastener while rotating on a power nut runner

mm	6	A	B	C	D	E
11	**M3111**	16.6	23.6	19.1	38.1	8.1
13	**M3113**	22.0	23.6	19.1	38.1	9.7
15	**M3115**	23.6	23.6	21.3	38.1	12.4
15	**M3215**	23.6	23.6	40.4	57.2	12.4
18	**M3118**	28.4	28.4	21.3	38.1	11.2



M3115

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS



344AMB



360MB

12-Point, Inches, Chrome

44 pc 1/2″ Drive 6-/12-Point SAE Shallow/Deep/ Universal General Service Socket Set

- Includes (16) 12-point Shallow Sockets (3/8–1-5/16″)
- Includes (11) 12-point Deep Sockets (1/2–1-1/8″)
- Includes (7) 6-point Universal Sockets (9/16–15/16″)
- Includes Ratchet Spinner, Speeder, Universal Joint, Sliding T-Handle, Ratcheting Adaptor, Dual 80® Technology Standard Handle Ratchet, 18″ Breaker Bar, 2″ Extension, 5″ Knurled Extension and 11″ Knurled Extension

	12-Point Shallow Sockets		12-Point Deep Sockets
3/8″	SW121A	1/2	S161A
7/16	SW141A	9/16	S181A
1/2	SW161A	5/8	S201
9/16	SW181A	11/16	S221
5/8	SW201	3/4	S241
11/16	SW221	13/16	S261
3/4	SW241	7/8	S281
13/16	SW261	15/16	S301
7/8	SW281	1	S321
15/16	SW301	1-1/16	S341
1	SW321	1-1/8	S361
1-1/16	SW341		
1-1/8	SW361		
1-3/16	SW381		
1-1/4	SW401		
1-5/16	SW421		

6-Point Universal Socket Set	307SUY	9/16–15/16″ (7 pc)
Also Includes:	LRS70A	1/2″ Drive Ratchet Spinner
	S4	1/2″ Drive 18-7/8″ Speeder Drive Handle
	S8	1/2″ Drive 2-11/16″ Friction Ball Universal Joint
	S12L	1/2″ Drive 12″ Sliding T-Handle
	S77A	Ratchet Adaptor
	S80A	Standard Handle Ratchet
	SN18B	1/2″ Drive 18″ Standard Handle Breaker Bar
	SX2	1/2″ Drive 2″ Extension
	SXK5	1/2″ Drive 5″ Extension
	SXK11	1/2″ Drive 11″ Extension

6/12-Point, Inches, Chrome

59 pc 1/2″ Drive 6-/12-Point SAE Shallow/Deep/ Universal General Service Socket Set

- Includes (16) 12-point Shallow Sockets (3/8–1-5/16″)
- Includes (11) 6-point Deep Sockets (1/2–1-1/8″)
- Includes (10) 12-point deep sockets (1/2–1-1/16″)
- Includes (7) 6-point Universal Sockets (9/16–15/16″)
- Includes Ratchet Spinner, Speeder, Universal Joint, Sliding T-Handle, Ratcheting Adaptor, Dual 80® Technology Standard Handle Ratchet, 18″ Breaker Bar, 2″ Extension, 5″ Knurled Extension, 11″ Knurled Extension, 3-1/2″ Extension and 1/4–1/2″ capacity Stud Remover
- Includes metal box

	12-Point Shallow Sockets		6-Point Deep Sockets		12-Point Deep Sockets
3/8″	SW121A	1/2	TS161A	1/2	S161A
7/16	SW141A	9/16	TS181A	9/16	S181A
1/2	SW161A	5/8	TS201	5/8	S201
9/16	SW181A	11/16	TS221	11/16	S221
5/8	SW201	3/4	TS241	3/4	S241
11/16	SW221	13/16	TS261	13/16	S261
3/4	SW241	7/8	TS281	7/8	S281
13/16	SW261	15/16	TS301	15/16	S301
7/8	SW281	1	TS321	1	S321
15/16	SW301	1-1/16	TS341	1-1/16	S341
1	SW321	1-1/8	TS361		
1-1/16	SW341				
1-1/8	SW361				
1-3/16	SW381				
1-1/4	SW401				
1-5/16	SW421				

6-Point Universal Socket Set	307SUY	9/16–15/16″ (7 pc)
Also Includes:	S12L	1/2″ Drive 12″ Sliding T-Handle
	S77A	Ratchet Adaptor
	SN18B	1/2″ Drive 18″ Standard Handle Breaker Bar
	SX2	1/2″ Drive 2″ Extension
	SXK3	1/2″ Drive 3-1/2″ Extension
	SXK5	1/2″ Drive 5″ Extension
	SXK11	1/2″ Drive 11″ Extension
	LRS70A	1/2″ Drive Ratchet Spinner
	S80A	Standard Handle Ratchet
	S4	1/2″ Drive 18-7/8″ Speeder Drive Handle
	S8	1/2″ Drive 2-11/16″ Friction Ball Universal Joint



345MMB

12-Point, mm, Chrome

mm	12 Point Socket Sets
(23 pc) (10–32)	323SWM
(13 pc) (12–24)	313SMYA

Also Includes:		
	S4	1/2" Drive 18-7/8" Speeder Drive Handle
	S8	1/2" Drive 2-11/16" Friction Ball Universal Joint
	S12L	1/2" Drive 12" Sliding T-Handle
	S77A	Ratchet Adaptor
	SN18B	1/2" Drive 18" Standard Handle Breaker Bar
	SXK3	1/2" Drive 3-1/2" Extension
	SXK5	1/2" Drive 5" Extension
	SXK11	1/2" Drive 11" Extension



317MSPC



317AMMPC

6-Point, Inches, Chrome

	6-Point Shallow Sockets
3/8"	TW121A
7/16	TW141A
1/2	TW161A
9/16	TW181A
5/8	TW201
11/16	TW221
3/4	TW241
13/16	TW261
7/8	TW281
15/16	TW301
1	TW321
1-1/16	TW341
1-1/8	TW361

Also Includes:		
	SXK5	1/2" Drive 5" Extension
	SXK11	1/2" Drive 11" Extension
	SN18B	1/2" Drive 18" Standard Handle Breaker Bar
	S80A	Standard Handle Ratchet

Shallow, mm, Chrome

mm	6-Point Shallow Sockets
12	TWM12A
13	TWM13A
14	TWM14A
15	TWM15A
16	TWM16
17	TWM17
18	TWM18
19	TWM19
20	TWM20
21	TWM21
22	TWM22
23	TWM23
24	TWM24

Also Includes:		
	SXK5	1/2" Drive 5" Extension
	SXK11	1/2" Drive 11" Extension
	SN18B	1/2" Drive 18" Standard Handle Breaker Bar
	S80A	Standard Handle Ratchet

12-Point, Inches, Chrome

317MPC 17 pc 1/2" Drive 12-Point SAE General Service Socket Set

- Includes (13) Sockets (3/8–1-5/16"), 5" Extension, 11" Extension, 18" Breaker Bar and Standard Handle Ratchet
- Includes storage tray



317MPC

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

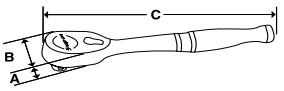
RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



BPRSR940



BPRSR940SG



Quick-Release Ratchets (Blue-Point®) (1/2″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
BPRSR940	1/2″ Drive Standard Handle Quick-Release Ratchet (Blue-Point®)	40	9°	23/32	1-23/32	9-7/8	RKRBPRSR940
BPRSR940SG	1/2″ Drive Soft Grip Standard Handle Quick-Release Ratchet (Blue-Point®)	40	9°	23/32	1-23/32	9-7/8	RKRBPRSR940

ASME®/ANSI® B107.10

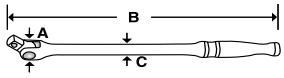
BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)
• 1/4″ Drive BPRTR936, 3/8″ Drive BPRFR938 and 1/2″ Drive BPRSR940 Ratchets (3 pc) in a storage tray



BLPBB1215



BLPBB1224



Breaker Bars (Blue-Point®) (1/2″)

Stock No.	Description	A	B	C
BLPBB1215	1/2″ Drive 15″ Breaker Bar	1-1/8	15	3/4
BLPBB1224‡	1/2″ Drive 12–24″ Adjustable Breaker Bar	1-1/16	12–24	5/8–7/8



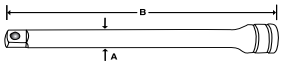
S13TURBO

Turbo T-Handle (Blue-Point®)

Stock No.	Description	Handle Type
S13TURBO	1/2″ Square Drive Turbo Speed T-Handle (Blue-Point®)	Turbo T-Handle



BLPEXTK123

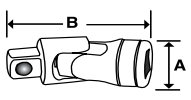


Knurled Extensions, Chrome (Blue-Point®)

Stock No.	B
BLPEXTK123	3
BLPEXTK126	6
BLPEXTK1210	10



BLPUJ12



Universal Joints, Chrome (Blue-Point®)

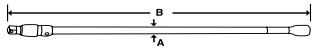
Stock No.	B
BLPUJ12	2-3/4



SXLBP3



SXLBP10



Locking Extensions, Chrome (Blue-Point®)

Stock No.	B
SXLBP3	3
SXLBP6	6
SXLBP10	10

Set shown includes storage tray.



BLPEXTL1212

Extra-Long Locking Extensions (Blue-Point®)

• Smooth, durable chrome finish
• Made from tough 6130 steel
• Secure socket retention
• Do not use with power or impact tools

BLPLLEXT303 Set Contains:

Stock No.	Description	B	
BLPEXTL1212	1/2″ Drive 12″ Extra-Long Locking Extension (Blue-Point®)	12-1/8	•
BLPEXTL1218	1/2″ Drive 18″ Extra-Long Locking Extension (Blue-Point®)	18	•
BLPEXTL1224	1/2″ Drive 24″ Extra-Long Locking Extension (Blue-Point®)	24	•

Set includes storage tray.

Shallow, mm, Chrome (Blue-Point®)

mm	6	Length
12	BLPSM1212	38.1
13	BLPSM1213	38.1
14	BLPSM1214	38.1
15	BLPSM1215	38.1
16	BLPSM1216	38.1
17	BLPSM1217	38.1
18	BLPSM1218	38.1
19	BLPSM1219	38.1
20	BLPSM1220	38.1
21	BLPSM1221	38.1
22	BLPSM1222	38.1
24	BLPSM1223	38.1
24	BLPSM1224	38.1
24	BLPSM1227	38.1
24	BLPSM1230	38.1
24	BLPSM1232	38.1



BLPSM1216

Shallow, Inches, Chrome (Blue-Point®)

	6	Length
3/8″	BLPS1238	1-1/2
7/16	BLPS12716	1-1/2
1/2	BLPS1212	1-1/2
9/16	BLPS12916	1-1/2
5/8	BLPS1258	1-1/2
11/16	BLPS121116	1-1/2
3/4	BLPS1234	1-1/2
13/16	BLPS121316	1-1/2
7/8	BLPS1278	1-1/2
15/16	BLPS121516	1-9/16
1	BLPS121	1-9/16
1-1/16	BLPSB121116	1-9/16
1-1/8	BLPSB12118	1-3/4
1-3/16	BLPSB121316	1-3/4
1-1/4	BLPSB12114	1-3/4



BLPS1234

TORX®/External, Chrome (Blue-Point®)

#	Stock No.	Length, inches
E18	BLPTE1218	1-1/2
E20	BLPTE1220	1-1/2
E22	BLPTE1222	1-1/2
E24	BLPTE1224	1-1/2



BLPTE1220

TORX® BIT SOCKETS (Blue-Point®)



BLPTL1255



BLPT1255

TORX®/Standard (Blue-Point®)

	#	Stock No.	Length, inches
Standard	T55	BLPT1255	2-3/4
	T60	BLPT1260	2-3/4
Long	T55	BLPTL1255	4-3/4
	T60	BLPTL1260	4-3/4



BLPTL1255TP



BLPT1255TP

TORX®/Tamper-Resistant, Chrome (Blue-Point®) (1/2″)

	#	Stock No.	Length, inches
Standard	T55	BLPT1255TP	2-5/16
	T60	BLPT1260TP	2-5/16
Long	T55	BLPTL1255TP	4-5/8
	T60	BLPTL1260TP	4-5/8

HEX BIT SOCKETS (Blue-Point®)

Hex/Standard, mm, Chrome (Blue-Point®) (1/2″)

mm		Length, mm
10	BLPH1210	60.3
12	BLPHM1212	60.3
14	BLPH1214	60.3
17	BLPH1217	60.3
19	BLPH1219	60.3



BLPH1214

Hex/Standard, Inches, Chrome (Blue-Point®) (1/2″)

		Length, inches
7/16	BLPH12716	2-7/16
1/2″	BLPH1212	2-7/16
9/16	BLPH12916	2-7/16
5/8	BLPH1258	2-7/16
3/4	BLPH1234	2-7/16



BLPH12916

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

COMBINATION BIT SOCKET SETS (Blue-Point®)

1/2″ Combination Bit Socket Sets (Blue-Point®)



BLPTSSC43

BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)

- (5) 1/4″ Drive External TORX® Sockets (E4–E8)
- (10) Tamper-Resistant TORX® Bit Sockets (T6–T30)
- (10) Tamper-Resistant TORX® Long Bit Sockets (T6–T30)
- (4) 3/8″ Drive External TORX® Sockets (E10–E16)
- (3) Tamper-Resistant TORX® Bit Sockets (T40, T45 and T50)
- (3) Tamper-Resistant TORX® Long Bit Sockets (T40, T45 and T50)
- (4) 1/2″ Drive External TORX® Sockets (E18–E24)
- (2) Tamper-Resistant TORX® Bit Sockets (T55 and T60)
- (2) Tamper-Resistant TORX® Long Bit Sockets (T55 and T60)
- (1) storage case



BLPHSSC30

BLPHSSC30 30 pc Combination Drive Hex Bit Socket Driver Set (Blue-Point®)

- Includes (30) Hex Bit Socket Drivers in a storage case
- 1/4″ drive components include (6) SAE Hex Bit Sockets (1/8–1/4″) and (5) Metric Hex Bit Sockets (2.5–6 mm)
- 3/8″ drive components include (5) SAE Hex Bit Sockets (7/32–7/16″) and (5) Metric Hex Bit Sockets (6–10 mm)
- 1/2″ drive components include (4) SAE Hex Bit Sockets (1/2–3/4″) and (5) Metric Hex Bit Sockets (10–19 mm)



BLPTHC87

BLPTHC87 87 pc TORX® and Hex Bit Socket Driver Set (Blue-Point®)

- Includes (87) TORX® and Hex Bit Socket Drivers (Blue-Point®)
- 1/4″ drive components include (5) External TORX® Sockets (E4–E8), (10) TORX® Bit Sockets (T6–T30), (10) Long TORX® Bit Sockets (T6–T30), (5) Metric Hex Bit Sockets (2.5–6 mm), (3) Long Metric Hex Bit Sockets (4–6 mm), (6) Hex Bit Sockets (1/8–1/4″) and (3) Long Hex Bit Sockets (1/8–3/16″)
- 3/8″ drive components include (4) External TORX® Sockets (E10–E16), (3) TORX® Bit Sockets (T40–T50), (3) Long TORX® Bit Sockets (T40–T50), (5) Metric Hex Bit Sockets (6–10 mm), (4) Long Metric Hex Bit Sockets (7–10 mm), (4) Hex Bit Sockets (7/32–3/8″) and (4) Long Hex Bit Sockets (7/32–3/8″)
- 1/2″ drive components include (4) External TORX® Sockets (E18–E24), (2) TORX® Bit Sockets (T55, T60), (2) Long TORX® Bit Sockets (T55, T60), (5) Metric Hex Bit Sockets (10–19 mm) and (5) Hex Bit Sockets (7/16–3/4″)

GENERAL SERVICE SETS

General Service Set (Blue-Point®) (1/2″)

- Great for use at home or on the road
- Set offers full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Compact case fits in a shallow Snap-on® tool box drawer



BLPGSS1233

BLPGSS1233 33 pc 1/2″ Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (15) SAE (3/8–1-1/4″) (12) Metric (12–24 mm) Standard Sockets, Breaker Bar, Universal Joint, Quick-Release Ratchet and (3) Extensions (3, 6 and 10″)
- Includes storage case



3/4" DRIVE TOOLS

THERE'S A REASON TECHNICIANS RELY SO HEAVILY ON OUR 3/4" DRIVE TOOLS FOR HEAVY-DUTY APPLICATIONS: ABSOLUTE DEPENDABILITY. WHETHER YOU'RE REPAIRING ANYTHING FROM AGRICULTURAL MACHINERY TO SKIP LOADERS OR PILE DRIVERS, THEY PERFORM FLAWLESSLY. JOB AFTER JOB, YEAR AFTER YEAR.

BIG TOOLS WITH A BIG REPUTATION.

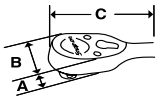
Our 3/4" drive tools are crafted from alloy-content steel for strength and duribility. They work better too, thanks to such features as uniform wall thickness for greater accessibility and our Flank Drive® system that supplies 20% more torque while guarding against rounding of fasteners.

RATCHET HEADS/HANDLES


L872


GL872

Ratchet Heads, Sealed (3/4″)



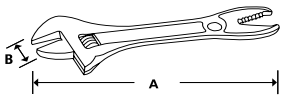
Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
L872	Sealed Ratchet Head	32	11°	1-1/4	2-1/2	5-15/16	RKRQC4
GL872	Sealed Ratchet Head	32	11°	1-1/4	2-1/2	5-15/16	RKRQC4


L872H


L872RM


L872RJ

Handles, Chrome (3/4″)



Stock No.	Description	A	B	C
L872H	Short 19-1/4″ Handle (lock button both ends)	13/16	19-1/4	15/16
L872RM	Long 36″ Handle (lock button end/knurled end)	15/16	36	1-1/8
L872RJ	Short 19-1/4″ Handle (lock button end/knurled end)	15/16	19-1/4	1-1/8

Head and Handle Combinations (3/4″)

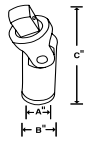
	Heads Using 13/16" (small) diameter handle holes	Heads using 15/16" (large) diameter handle holes	
	L52B Sliding Head	L872 Sealed Ratchet Head	L8112A Breaker Bar Head
Short 19-1/4″ Handle (lock button both ends)	L872H	—	L872H
Short 19-1/4″ Handle (lock button end/knurled end)	—	L872RJ	L872RJ
Long 36″ Handle (lock button end/knurled end)	—	L872RM	L872RM

ASME®/ANSI® B107.10

DRIVE HANDLES


L8112A

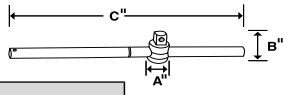
Breaker Bar, Chrome (3/4″)



Head Only	A	B	C	Use with Handle
L8112A	15/16	1-9/16	3-11/16	L872RM or L872RJ


L52B

Sliding T-Handle, Chrome (3/4″)



Stock No.	A	B
L52B	1-1/2	2-5/16

3/4″ Drive 2-5/16″ Head Depth Sliding T-Handle Head

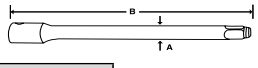
- Designed for heavier applications
- Can be used as a T-handle or as an offset wrench
- Spring-and-friction ball holds head in position
- Use with L872H handle

SOCKET/RATCHET ACCESSORIES


L32


GL42

Extensions/Lock Button (3/4″)



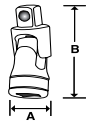
Stock No.	Industrial Stock No.	A	B
L32	GL32	15/16	3
L42	GL42	15/16	5
L62	GL62	15/16	8
L122	GL122	15/16	16

Universal Joint, Chrome

Stock No.	A	B
L82A	1-9/16	3-7/8



L82A

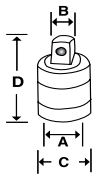


Square Drive Adaptors, Industrial (3/4″)

Stock No.	A	B	C	D	Repair Bit
GLA12B	1/2	3/4	1-7/8	1-7/8	—
GLAS1F	3/4	1/2	1-7/16	2-7/16	GLAS1F2
GLA72A	3/4	1	1-7/16	2-5/8	—
GLA124A	1	3/4	1-13/16	2-3/4	—



GLAS1F



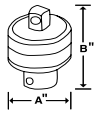
Ratchet Adaptor, Chrome (3/4″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	Repair Kit
L672B	Ratchet Adaptor	44	8.2°	2-1/2	3-15/16	RKR881B

ASME®/ANSI® B107.10



L672B



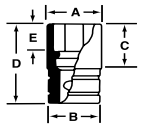
FLANK DRIVE® SOCKETS



LDH482



411LDH



Shallow, Inches, Chrome

							Set Contains: 407LDH	411LDH
	12	A	B	C	D	E	12	12
3/4	LDH242	1-1/8	1-7/16	1-9/32	2-9/32	39/64		•
13/16	LDH262	1-7/32	1-7/16	1-9/32	2-9/32	21/32		
7/8	LDH282	1-5/16	1-7/16	1-9/32	2-9/32	23/32		•
15/16	LDH302	1-3/8	1-7/16	1-9/32	2-9/32	47/64		•
31/32	LDH312	1-25/64	1-7/16	1-9/32	2-9/32	43/64		
1	LDH322	1-1/2	1-7/16	1-9/32	2-9/32	3/4		•
1-1/16	LDH342	1-9/16	1-1/2	1-11/32	2-9/32	49/64		•
1-1/8	LDH362	1-5/8	1-37/64	1-9/32	2-9/32	51/64		•
1-3/16	LDH382	1-11/16	1-41/64	1-9/32	2-9/32	27/32		
1-1/4	LDH402	1-3/4	1-45/64	1-1/4	2-9/32	27/32		•
1-5/16	LDH422A	1-7/8	1-27/32	1-9/32	2-3/8	55/64		•
1-5/16	LDH442	1-61/64	1-3/4	1-9/16	2-1/2	29/32		•
1-7/16	LDH462	2-1/8	1-3/4	1-9/16	2-1/2	31/32		•
1-1/2	LDH482	2-1/8	1-3/4	1-9/16	2-1/2	1-1/64		•
1-9/16	LDH502	2-3/16	1-3/4	1-9/16	2-1/2	1-5/32	•	
1-5/8	LDH522	2-1/4	1-3/4	1-19/32	2-1/2	1-5/32	•	
1-11/16	LDH542	2-25/64	1-3/4	1-13/16	2-3/4	1-3/16	•	
1-3/4	LDH562	2-7/16	1-3/4	1-13/16	2-3/4	1-7/32	•	
1-13/16	LDH582	2-1/2	1-3/4	1-13/16	2-3/4	1-1/4	•	
1-7/8	LDH602	2-9/16	1-3/4	2-1/16	3	1-19/64	•	
2	LDH642	2-3/4	1-3/4	2-5/16	3-1/4	1-19/64	•	
2-1/16	LDH662	2-3/4	1-3/4	2-1/16	3	1-3/8		
2-1/8	LDH682	2-61/64	1-3/4	2-5/16	3-1/4	1-7/16		
2-3/16	LDH702	2-15/16	1-3/4	2-5/16	3-1/4	1-1/2		
2-1/4	LDH722	3-1/8	1-3/4	2-9/16	3-1/2	1-1/2		
2-3/8	LDH762	3-1/4	1-3/4	2-13/16	3-3/4	1-3/4		

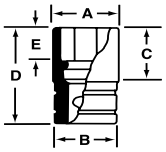
ASME®/ANSI® B107.10

Sets includes storage tray.

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SOCKETS



Shallow, mm, Chrome

mm	12	A	B	C	D	E
22	LDHM222	31.1	34.6	30.2	50.8	17.1
24	LDHM242	33.4	34.6	31.8	50.8	17.9
27	LDHM272	37.3	39.5	31.8	54.0	19.9
30	LDHM302	41.0	39.8	34.0	57.2	21.8
36	LDHM362	49.3	41.2	35.1	58.7	22.1



LDHM222



LS342

Deep, Inches, Chrome

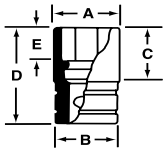
	6	A	B	C	D	E
1-1/16	LS342	1-9/16	1-1/2	2-3/4	3-1/2	1

SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



LES322B



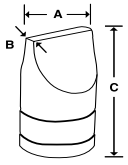
3/4″ Drive Shallow, Inches, Chrome

		Stock No.	A	B	C	D	E
#24	3/4	LES242B	1-1/16	1-3/8	1-25/32	1-25/32	5/8
#26	13/16	LES262B	1-5/32	1-3/8	13/16	1-25/32	21/32
#28	7/8	LES282B	1-5/32	1-3/8	13/16	1-25/32	21/32
#30	15/16	LES302B	1-3/8	1-3/8	15/16	1-29/32	25/32
#32	1	LES322B	1-15/32	1-15/32	1	1-31/32	13/16
#34	1-1/16	LES342B	1-9/16	1-9/16	1-1/16	2-1/32	7/8
#36	1-1/8	LES362B	1-21/32	1-1/2	1-3/16	2-3/16	15/16

SPECIAL APPLICATION SOCKETS



GLD138

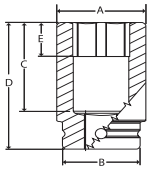


Drag Link Sockets, Industrial

Stock No.	B x A	A	B	C
GLD138	13/64 x 1-3/8	1-3/8	13/64	2-3/16
GLD139	1/4 x 1-11/16	1-11/16	1/4	2-3/16



IM382CD



Military Vehicle Repair Socket, Industrial

mm	6	A	B	C	D	E
30	IM382CD	47.6	41.2	36.5	53.9	19.0

IM382CD 3/4″ Drive 6-Point Metric 30 mm Flank Drive® Shallow Impact Socket

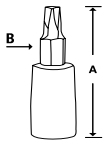
- Applications include Assault Breacher Vehicle; Utility Truck (Tamen: D00347K); Abrams M-1 Tank; Bridge Launcher Carrier; M1A2 Heavy Assault Bridge (hab)/Wolverine, 5420-01-430-4227; Armored Vehicle Launch Bridge (M60A1 and M48A5); Combat Tank, Ft, 120 mm gun (M1A1)
- 30 mm, 3/4″ drive

TORX®/Standard, Industrial (3/4″)

#	Stock No.	A	B
T60	T602E	5	T602E2
T80	T802E	4-3/8	T802E2
T90	T902E	4-3/8	T902E2



T902E

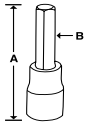


Hex/Standard (Impact), mm (3/4″)

mm		A	B
17	LAWM17E	105	SAM17E2
19	LAWM19E	112	SAM19E2



LAWM17E

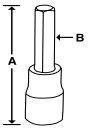


Hex/Standard (Impact), inches (3/4″)

		A	B
5/8	LAW120E	3-3/4	LAW120E2
3/4	LAW124E	1-5/8	LAW124E2

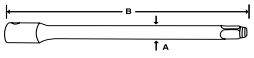


LAW120E





IM122B

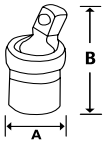


Extensions (Impact)

Stock No.	A	B
IM132A	1	3
IM62B	1	7
IM92B	1	10
IM122B	1	13



IP82



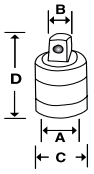
Swivel Ball Universal Joint (Impact)

- Maximum Accessibility Design
- No internal spring used

Stock No.	A	B
IP82	1-3/4	3-5/32



IM124B





IM243P

Square Drive Adaptors (Impact)

Stock No.	A	B	C	D
IM72	3/4	1 with Pin Hole	1-5/8	2-9/16
IM124B	1	3/4 with Pin Hole	2-3/8	2-13/16

3/4″ Drive Locking Rings and Pins

Stock No.	Description	Use with
IM182R	Rubber Locking Ring	All 3/4″ Drive Sockets/Accessories
IM182P	Steel Locking Pin	All 3/4″ Drive Sockets/Accessories
IMR2	Socket Retainer	All 3/4″ Drive Sockets/Accessories
Use the Following for the IM124B Adaptor:		
IM243P	Steel Locking Pin	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm)

For use on SIM, IM, IMM and SIMM sockets and other accessories on this page.

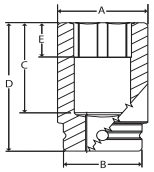
⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS



IMM302



Shallow, mm

mm	6	12	A	B	C	D	E	Set Contains: 425IMM 6
17	IMM172A	—	29.2	41.1	27.2	50.8	13.7	•
18	IMM182A	—	31.6	41.1	27.2	50.8	12.7	•
19	IMM192A	IMMD192A	31.8	41.1	27.2	50.8	13.7	•
20	IMM202A	IMMD202B	35.1	41.1	27.2	50.8	14.0	•
21	IMM212A	IMMD212	34.9	41.1	27.2	50.8	15.2	•
22	IMM222A	IMMD222A	38.1	41.1	27.2	50.8	15.2	•
23	IMM232A	IMMD232	36.3	41.1	27.2	50.8	16.5	•
24	IMM242A	IMMD242A	39.5	41.1	26.4	50.8	16.5	•
25	IMM252A	IMMD252	39.6	41.1	26.4	50.8	16.3	•
26	IMM262A	IMMD262	39.6	41.1	26.4	50.8	17.5	•
27	IMM272A	IMMD272A	42.6	41.1	26.4	50.8	19.0	•
28	IMM282A	IMMD282	44.7	41.1	32.8	57.2	17.5	•
29	IMM292	IMMD292	46.0	41.1	32.8	57.2	18.0	•
30	IMM302	IMMD302A	47.0	44.5	32.8	57.2	19.1	•
31	IMM312	IMMD312A	49.2	44.5	32.8	57.2	19.1	•
32	IMM322	IMMD322A	50.8	44.5	32.8	57.2	20.6	•
33	IMM332A	IMMD332	50.8	44.5	32.8	57.2	20.3	•
34	IMM342	IMMD342	50.8	44.5	32.8	57.2	22.4	•
35	IMM352	IMMD352	54.0	44.5	32.8	57.2	22.4	•
36	IMM362	IMMD362	54.0	44.5	32.8	57.2	22.4	•
38	IMM382	IMMD382	57.2	44.5	32.8	57.2	23.9	•
40	IMM402	IMMD402	59.7	44.5	45.5	69.9	28.4	•
41	IMM412	IMMD412	60.5	44.5	33.5	57.2	26.2	•
42	IMM422A	IMMD422	63.1	44.5	46.9	66.9	28.6	
46	IMM462	IMMD462	66.7	44.5	45.5	69.9	29.0	•
50	IMM502	IMMD502	71.4	44.5	52.6	76.2	31.0	•

Set comes with clips and rails.

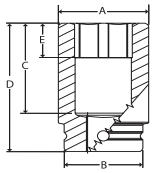
IMMD202B 3/4″ Drive 12-Point Metric 20 mm Flank Drive® Shallow Impact Socket
• Specific applications include removing the head bolts on Caterpillar® C7, C8, C9 and C10 engines



IM402



IMD302A



Shallow, inches

	6	12	A	B	C	D	E	Set Contains: 429IM	417IM	418IM	429IMD	417IMD	418IMD
9/16	IM182A	IMD182A	1	1-5/8	1	1-3/4	7/16	•			•		
5/8	IM202A	IMD202A*	1-3/32	1-5/8	1	1-3/4	1/2	•			•		
11/16	IM222A	IMD222A	1-5/32	1-5/8	1	1-3/4	9/16	•			•		
3/4	IM242A	IMD242A	1-1/4	1-5/8	1	1-3/4	9/16	•	•		•	•	
13/16	IM262A	IMD262A	1-3/8	1-5/8	1-1/8	1-7/8	5/8	•	•		•	•	
7/8	IM282A	IMD282A	1-1/2	1-5/8	1-1/8	1-7/8	5/8	•	•		•	•	
15/16	IM302A	IMD302A*	1-9/16	1-5/8	1-1/8	1-7/8	3/4	•	•		•	•	
1	IM322A	IMD322A*	1-5/8	1-5/8	1-1/4	2	3/4	•	•		•	•	
1-1/16	IM342A	IMD342A	1-11/16	1-5/8	1-1/4	2	3/4	•	•		•	•	
1-1/8	IM362	IMD362A	1-7/8	1-5/8	1-3/8	2-1/8	3/4	•	•		•	•	
1-3/16	IM382	IMD382	1-7/8	1-5/8	1-5/16	2-1/8	3/4	•	•		•	•	
1-1/4	IM402	IMD402	2	1-3/4	1-3/8	2-1/8	13/16	•	•	•	•	•	•
1-5/16	IM422	IMD422	2-1/8	1-3/4	1-1/2	2-1/4	7/8	•	•	•	•	•	•
1-3/8	IM442	IMD442	2-1/8	1-3/4	1-1/2	2-1/4	7/8	•	•	•	•	•	•
1-7/16	IM462	IMD462	2-1/4	1-3/4	1-1/2	2-1/4	7/8	•	•	•	•	•	•
1-1/2	IM482	IMD482	2-1/4	1-3/4	1-1/2	2-1/4	15/16	•	•	•	•	•	•
1-9/16	IM502	IMD502	2-7/16	1-3/4	1-9/16	2-3/8	15/16	•	•	•	•	•	•
1-5/8	IM522	IMD522	2-7/16	1-3/4	1-5/8	2-3/8	7/8	•	•	•	•	•	•
1-11/16	IM542	IMD542	2-1/2	1-3/4	1-13/16	2-9/16	1	•	•	•	•	•	•
2-3/4"	IM562	IMD562	2-1/2	1-3/4	1-13/16	2-9/16	1	•	•	•	•	•	•
1-13/16	IM582	IMD582	2-5/8	1-3/4	1-5/8	2-5/8	1-1/4	•		•	•		•
1-7/8	IM602	IMD602	2-5/8	1-3/4	1-3/4	2-3/4	1-1/8	•		•	•		•
1-15/16	IM622A	IMD622	2-3/4	1-3/4	1-9/16	2-27/32	1-3/32	•		•	•		•
2	IM642A	IMD642	2-7/8	1-3/4	1-15/16	2-7/8	1-1/8	•		•	•		•
2-1/16	IM662A	IMD662	3	1-3/4	1-7/8	2-7/8	1-3/16	•		•	•		•
2-1/8	IM682A	IMD682	3	1-3/4	1-3/4	3	1-1/4	•		•	•		•
2-3/16	IM702A	IMD702	3-1/4	1-3/4	2-3/16	3-3/16	1-5/16	•		•	•		•
2-1/4	IM722A	IMD722	3-1/4	1-3/4	2-3/16	3-3/16	1-3/8	•		•	•		•
2-3/8	IM762A	IMD762	3-1/2	1-3/4	2-3/8	3-1/2	1-7/16	•		•	•		•

*Applications include repair of heavy-duty trucks and off-road equipment, most diesel engines including *Caterpillar* and Cummins® plus head bolts and bearing cap bolts.

Set comes with clips and rails.

IMD242A 3/4″ Drive 12-Point SAE 3/4″ Flank Drive® Shallow Impact Socket

• Applications include most Caterpillar® head bolts, Detroit Diesel® main bearing cap bolts, K19 Cummins® head bolts

Shallow, 8-Point, inches

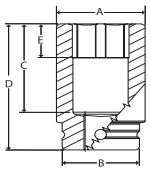
	8	A	B	C	D	E
13/16	IMDS626	1-15/32	1-5/8	1-1/64	2-1/4	17/32
7/8	IMDS628	1-9/16	1-5/8	1-1/64	2-1/4	37/64
15/16	IMDS630	1-43/64	1-5/8	1-9/16	2-1/4	39/64
1	IMDS632	1-49/64	1-5/8	1-1/2	2-1/4	41/64
1-1/16	IMDS634	1-55/64	1-3/4	1-13/16	2-1/2	11/16
1-1/8	IMDS636	1-15/16	1-3/4	1-13/16	2-1/2	23/32
1-3/16	IMDS638	2-1/32	1-3/4	1-13/16	2-1/2	3/4
1-1/4	IMDS640	2-1/8	1-3/4	1-13/16	2-1/2	51/64
1-5/16	IMDS642	2-7/32	1-3/4	2-1/16	2-3/4	57/64
1-7/16	IMDS646	2-3/8	1-3/4	2-1/16	2-3/4	1-9/64



IMDS636

WARNING • Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS





SIMM212



SIMDM212

Deep, mm

mm	6	12	A	B	C	D	E
17	**SIMM172**	—	28.9	41.1	52.6	76.2	12.7
18	**SIMM182**	—	31.7	41.3	76.2	101.6	12.7
19	**SIMM192**	—	32.4	41.1	51.8	76.2	14.2
20	**SIMM202**	—	33.5	41.1	19.1	76.2	14.2
21	**SIMM212**	**SIMDM212**	34.2	41.1	37.4	76.2	14.2
22	**SIMM222**	—	35.8	41.1	37.4	76.2	14.2
23	**SIMM232**	—	35.8	41.1	37.2	76.2	16.3
24	**SIMM242**	—	37.7	41.1	37.0	76.2	16.5
25	**SIMM252**	—	34.6	41.1	19.1	76.2	16.3
26	**SIMM262**	—	39.6	41.1	36.7	76.2	16.3
27	**SIMM272**	—	42.8	41.1	38.4	76.2	19.1
30	**SIMM302**	—	46.8	41.1	58.2	82.6	18.5
31	**SIMM312**	—	46.0	41.1	64.3	82.6	19.1
32	**SIMM322**	—	50.8	44.5	58.9	82.6	19.1
33	**SIMM332**	—	52.4	44.5	57.4	82.6	22.4
35	**SIMM352**	—	52.7	44.5	57.2	82.6	21.6
36	**SIMM362**	—	54.0	44.5	62.5	88.9	22.9
38	**SIMM382**	—	57.2	44.5	65.3	88.9	23.8
41	**SIMM412***	—	55.1	44.5	74.9	100.1	26.7
41	**SIMM432**	—	63.5	44.5	70.0	89	26.7
46	**SIMM462**	—	76.7	44.5	72.4	101.6	29.1
46	**SIMM462A**	—	65.9	44.5	73.9	95.3	28.4

*Applications include usage on stud piloted, budd style wheels.

SIMDM212 3/4″ Drive 12-Point Metric 21 mm Flank Drive® Deep Impact Socket
• Applications include flywheel bolts on Cummins® ISX engines



423SIM

Deep, inches

11	6	A	B	C	D	E	Set Contains: 423SIM 6
9/16	**SIM182**	1	1-5/8	2-1/16	3	9/16	•
5/8	**SIM202**	1-1/16	1-5/8	2-1/16	3	9/16	•
11/16	**SIM222**	1-1/8	1-5/8	2-1/16	3	9/16	•
3/4	**SIM242**	1-1/4	1-5/8	2	3	9/16	•
13/16	**SIM262**	1-3/8	1-5/8	2	3	5/8	•
7/8	**SIM282**	1-1/2	1-5/8	2	3	5/8	•
15/16	**SIM302**	1-5/8	1-5/8	2	3	5/8	•
1	**SIM322**	1-5/8	1-5/8	2	3	11/16	•
1-1/16	**SIM342**	1-3/4	1-5/8	2	3	11/16	•
1-1/8	**SIM362**	1-3/4	1-5/8	2	3	3/4	•
1-3/16	**SIM382**	2	1-3/4	2-1/4	3-1/4	3/4	•
1-1/4	**SIM402**	2	1-3/4	2-1/4	3-1/4	7/8	•
1-5/16	**SIM422**	2-1/8	1-3/4	2-9/16	3-1/4	7/8	•
1-3/8	**SIM442**	2-1/8	1-3/4	2-1/4	3-1/4	7/8	•
1-7/16	**SIM462**	2-3/16	1-3/4	2-1/2	3-1/2	7/8	•
1-1/2	**SIM482**	2-1/4	1-3/4	2-1/2	3-1/2	15/16	•
1-9/16	**SIM502**	2-5/16	1-3/4	2-1/2	3-1/2	15/16	•
1-5/8	**SIM522**	2-7/16	1-3/4	2-1/2	3-1/2	15/16	•
1-11/16	**SIM542**	2-1/2	1-3/4	2-1/2	3-1/2	1	•
1-3/4	**SIM562**	2-1/2	1-3/4	2-1/2	3-1/2	1	•
1-13/16	**SIM582**	2-5/8	1-3/4	2-3/4	3-3/4	1-1/16	•
1-7/8	**SIM602**	2-11/16	1-3/4	2-3/4	3-3/4	1-1/8	•
2	**SIM642A**	2-13/16	1-3/4	2-3/4	3-3/4	1-1/8	•

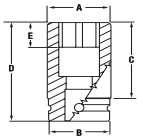
Larger sizes available on special order.

Set comes with clips and rails.

Extra-Deep, mm

mm	6	A	B	C	D	E
24	SIMML242	39.5	38.1	101.6	127	16.5





SIMML242

SIMML242 6-Point Metric Extra-Deep Impact Socket
- For removing and installing the head bolts on Cummins® ISX engines

Shallow/Thin Wall, inches

	6	A	B	C	D	E
1-1/2	IMFS482A	54	44-2/5	36-3/5	63-1/2	24-1/10



IMFS482A

Deep/Thin Wall, inches

	12	A	B	C	D	E
3/4	IMFDL242	1-3/8	1-5/8	4-3/4	5-3/4	1/2

Larger sizes available on special order.



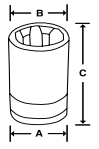
IMFDL242

IMFDL242 3/4″ Drive 12-Point SAE 3/4″ Flank Drive® Deep Thin Wall Impact Socket
- Designed to remove the head bolts on Caterpillar® C12, C15, C16 and 3406Es where the front two and back two head bolts are positioned under the valve covers
- Applications on certain Caterpillar® head bolts require a thin walled socket of a certain length
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 EGR engines (2007 and later)
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards

Inverted TORX®

#	Stock No.	A	B	C
E24	IMSLE242A	1-5/8	1-5/8	3-3/4





IMSLE242A

IMSLE242A 3/4″ Drive E24 Inverted TORX® Impact Socket
- Applications include removing and installing head bolts on MaxxForce® 11 and 13 engines found on D15 International® 2010–current
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

Double Hex, mm

mm	Stock No.	A	B	C	D	E
20	SIMDML202	35	38.1	120.6	146	13.9



SIMDML202

WARNING • Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS



434HDC



414AHD

434HDC 35 pc 3/4″ Drive 12-Point SAE General Service Set 35 Tools, includes:

	12-Point Shallow Socket
3/4	LDH242
13/16	LDH262
7/8	LDH282
15/16	LDH302
31/32	LDH312
1	LDH322
1-1/16	LDH342
1-1/8	LDH362
1-3/16	LDH382
1-1/4	LDH402
1-5/16	LDH422A
1-5/16	LDH442
1-7/16	LDH462
1-1/2	LDH482
1-9/16	LDH502
1-5/8	LDH522
1-11/16	LDH542
1-3/4	LDH562
1-13/16	LDH582
1-7/8	LDH602
2	LDH642
2-1/16	LDH662
2-1/8	LDH682
2-3/16	LDH702
2-1/4	LDH722
2-3/8	LDH762

Also Includes:		
	L32	3/4″ Drive 3″ Locking Button Extension
	L62	3/4″ Drive 8″ Locking Button Extension
	L122	3/4″ Drive 16″ Locking Button Extension
	L52B	3/4″ Drive 2-5/16″ Head Depth Sliding T-Handle Head
	L872	3/4″ Drive Sealed Head Ratchet
	L82A	3/4″ Drive 3-7/8″ Friction Ball Universal Joint
	L8112A	3/4″ Drive 15/16″ Breaker Bar Head
	L672B	3/4″ Drive Ratchet Adaptor
	L872H	3/4″ Drive 19-1/4″ Plain Locking Button Handle
	PB434HD	Storage Case with Foam

414AHD 15 pc 3/4″ Drive 12-Point SAE Shallow General Service Socket Set 15 Tools, includes:

	12-Point Shallow Socket
1-1/16	LDH342
1-1/8	LDH362
1-1/4	LDH402
1-5/16	LDH422A
1-5/16	LDH442
1-7/16	LDH462
1-1/2	LDH482
1-5/8	LDH522
1-3/4	LDH562
1-7/8	LDH602

Also Includes:		
	L62	3/4″ Drive 8″ Locking Button Extension
	L122	3/4″ Drive 16″ Locking Button Extension
	L872	3/4″ Drive Sealed Head Ratchet
	L872RJ	3/4″ Drive 19-1/4″ Knurled Locking Button Handle
	L8112A	3/4″ Drive 15/16″ Breaker Bar Head



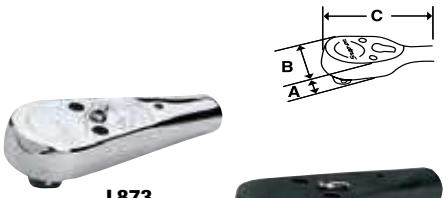
1", 1-1/2", 2-1/2" DRIVE TOOLS

WORKING ON THE BIGGEST, MOST HEAVY-DUTY MACHINERY REQUIRES THE MOST HEAVY-DUTY TOOL. SNAP-ON® HAS YOU COVERED, WITH THE MOST RUGGED, LARGER DRIVE-SIZE TOOLS – WHETHER YOU'RE TACKLING SEMIS, CONSTRUCTION EQUIPMENT, HYDRAULICS OR OTHER HEAVY-DUTY CHALLENGES.

POWERFUL TOOLS. POWERFUL ADVANTAGES.

Our wide range of 1" – 2 1/2" drive tools also offer a range of superior features. Our Flank Drive® system grabs fasteners on the flats, providing greater torque and preventing rounding of their corners. And our specially heat-treated impact sockets are made from a blend of alloy steel to withstand the repeated cycle loads of pneumatic and cordless impact wrenches.

RATCHET HEADS/HANDLES



L873



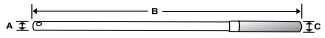
GL873

Ratchet Heads, Sealed, Chrome (1″)

Stock No.	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
L873	Sealed Ratchet Head	30	12°	1-1/2	3-1/8	7-7/8	**RKRQC5**
GL873	1″ Drive Sealed Ratchet Head	30	12°	1-1/2	3-1/8	7-7/8	**RKRQC5**

Head and Handle Combinations

Stock No.	Description	Required Handle	Optional Extension Handle
L873	Sealed Ratchet Head	**L53HB**	**L853HA1**
L113H	1″ Drive 32-5/32″ Complete Breaker Bar	**L53HB**	—
L53	1″ Drive 30″ Sliding T-Handle	**L53HB**	—





L53HB



L853HA1

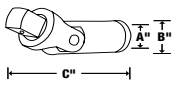
Handles, Chrome (1″)

Stock No.	A	B
L53HB	1-1/8	29
L853HA1	1-3/8	36

L53HB 1″ Drive 29″ Plain Locking Button Handle
- Plain handle with locking buttons at both ends
- Used on 1″ drive ratchet heads, breaker bar heads and sliding T-heads

L853HA1 1″ Drive 36″ Knurled Handle Extension
- Knurled grip extension handle attaches to L53HB handle for added leverage
- Only used with L53HB handle; L853HA1 will not connect directly to L873 ratchet head

DRIVE HANDLES

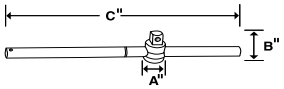




L113H

Breaker Bars, Chrome (1″)

Handle w/ Head	Length	Head Only	A	B	C	Handle Only
L113H	32-5/32	**L113**	15/16	2-1/8	4-29/32	**L53HB**





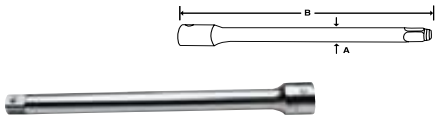
L53

Sliding T-Handle (1″)

Stock No.	C	Sliding Head Only Stock No.	A	Handle Stock No.
L53	29	**L53A**	2	**L53HB**

Extension/Lock Button, Chrome (1″)

Stock No.	A	B
L63	1-1/4	8



L63

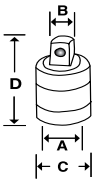
Square Drive Adaptors, Industrial (1″)

Stock No.	A	B	C	D
GLA72A	3/4	1	1-7/16	2-5/8
GLA124A	1	3/4	1-13/16	2-3/4

ASME®/ANSI® B107.10



GLA72A

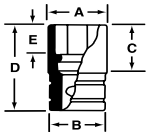


SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



LES343B



Shallow, Inches, Chrome (1″)

		Stock No.	A	B	C	D	E
#32	1	LES323B	1-29/64	1-55/64	1-35/64	2-7/16	53/64
#34	1-1/16	LES343B	1-17/32	1-27/32	1-3/8	2-17/32	7/8
#38	1-3/16	LES383B	1-11/16	1-31/32	1-5/8	2-25/32	1-5/32

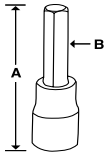
HEX BIT SOCKETS

Hex/Standard, inches, Industrial (1″)

	Stock No.	A	B
7/8	IMA283	5-5/8	IMA283-2
1	IMA323	5-5/8	IMA323-2



IMA283



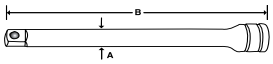
⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

IMPACT ACCESSORIES



IM133

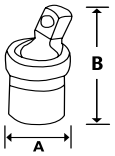


Extensions with Pin Hole (1″)

Stock No.	A	B
IM133	1	3
IM63B	1-1/8	7-1/8
IM123	1-3/8	13-1/8



IP83

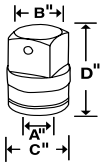


Swivel Universal Joint with Pin Hole (1″)

Stock No.	A	B
IP83	2-1/2	4-3/16



IM72



Adaptors with Pin Hole (1″)

Stock No.	A	B	C	D
IM35	1	1-1/2	2-1/4	3-1/2
IM53	1-1/2	1	3-1/4	4-1/4
IM72	3/4	1 with Pin Hole	1-5/8	2-9/16
IM124B	1	3/4 with Pin Hole	2-3/8	2-13/16



IM243P



IM243R

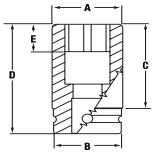


IMR3

1″ Drive Locking Rings and Pins

Stock No.	Description	Use with
IM243P	Steel Locking Pin	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm)
IM243R	Synthetic Rubber Locking Ring	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm) Plus IM124 Adaptor
IMR3	Socket Retainer	All 1″ Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories
IM483P	Steel Locking Pin	All Spline Drive Sockets/Accessories Plus 1″ Drive Sockets from 1-7/16″ (35 mm)

FLANK DRIVE® IMPACT SOCKETS





IMM503

Shallow, mm

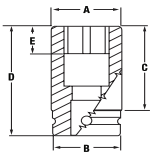
Set Contains: 516IMM

mm	6	A	B	C	D	E	6
27	IMM273	44.5	53.8	27.0	57.2	17.5	•
30	IMM303	47.8	53.8	27.0	57.2	17.5	•
32	IMM323	50.8	53.8	33.3	63.5	19.1	•
33	IMM333	52.3	53.8	33.3	63.5	22.4	•
35	IMM353	53.8	53.8	33.5	63.5	22.4	•
36	IMM363	57.2	57.2	34.3	63.5	22.4	•
38	IMM383	59.7	57.2	40.1	69.9	23.6	•
41	IMM413A	59.9	57.2	39.6	69.9	26.4	•
46	IMM463	69.9	60.5	44.2	76.2	30.0	•
50	IMM503	69.9	60.5	49.3	82.6	31.2	•
55	IMM553	82.6	60.3	46.7	82.6	31.8	•
60	IMM603	88.9	57.2	51.6	88.9	38.1	•
65	IMM653	92.1	60.5	63.8	101.6	45.7	•
70	IMM703	95.3	60.5	62.2	101.6	45.7	•
75	IMM753	104.8	60.5	67.1	108.0	51.6	•
80	IMM803	108.7	61.1	65.9	108.7	47.6	•

WARNING • Read safety precautions on pages W1 to W4

Shallow, inches

								Set Contains: 521IM	516IM	522IM
11	6	12	A	B	C	D	E	6	6	6
3/4	IM243	IMD243	1-7/16	2-1/8	1	2-1/8	11/16	•		
13/16	IM263	IMD263	1-7/16	2-1/8	1	2-1/8	11/16	•		
7/8	IM283	IMD283	1-1/2	2-1/8	1	2-1/8	11/16	•		
15/16	IM303	IMD303	1-19/32	2-1/8	1	2-1/8	11/16	•		
1	IM323	IMD323A	1-11/16	2-1/8	1-1/16	2-1/4	11/16	•		
1-1/16	IM343	IMD343	1-3/4	2-1/8	1-1/16	2-1/4	11/16	•		
1-1/8	IM363	IMD363	1-7/8	2-1/8	1-1/16	2-1/4	11/16	•		
1-3/16	IM383	IMD383	1-7/8	2-1/8	1-1/16	2-1/4	11/16	•		
1-1/4	IM403	IMD403	2	2-1/8	1-3/16	2-3/8	3/4	•		
1-5/16	IM423	IMD423	2-1/16	2-1/8	1-15/16	2-1/2	7/8	•		
1-3/8	IM443	IMD443	2-1/8	2-1/8	1-15/16	2-1/2	7/8	•		
1-7/16	IM463	IMD463	2-1/4	2-1/4	1-7/16	2-1/2	15/16	•		
1-1/2	IM483B	IMD483	2-3/8	2-1/4	1-7/16	2-5/8	15/16	•		
1-9/16	IM503A	IMD503	2-3/8	2-1/4	1-7/16	2-5/8	15/16	•		
1-5/8	IM523A	IMD523	2-3/8	2-1/4	1-5/8	2-3/4	1-1/16	•		
1-11/16	IM543	IMD543	2-9/16	2-3/8	1-5/8	2-3/4	1-1/16	•		
1-3/4	IM563	IMD563	2-5/8	2-3/8	1-23/32	2-7/8	1-5/32	•		
1-3/16	IM583	IMD583	2-3/4	2-3/8	1-23/32	2-15/16	1-3/16	•		
1-7/8	IM603	IMD603	2-3/4	2-3/8	1-23/32	2-15/16	1-3/16	•		
1-15/16	IM623	IMD623	2-3/4	2-3/8	1-23/32	2-15/16	1-3/16	•		
2	IM643	IMD643	3	2-3/8	1-31/32	3-1/8	1-9/32	•		
2-1/16	IM663	IMD663	3	2-3/8	1-31/32	3-1/8	1-9/32		•	
2-1/8	IM683	IMD683	3-1/8	2-3/8	2-3/32	3-1/4	1-9/32		•	
2-3/16	IM703	IMD703	3-1/4	2-3/8	2-5/32	3-11/32	1-7/16		•	
2-1/4	IM723	IMD723	3-1/4	2-3/8	2-5/32	3-11/32	1-7/16		•	
2-5/16	IM743	IMD743	3-3/8	2-3/8	2-5/32	3-1/2	1-1/2		•	
2-3/8	IM763	IMD763	3-1/2	2-3/8	2-5/32	3-1/2	1-1/2		•	
2-7/16	IM783	IMD783	3-1/2	2-3/8	2-5/32	3-1/2	1-1/2		•	
2-1/2	IM803	IMD803	3-1/2	2-3/8	2-1/8	3-5/8	1-5/8		•	
2-9/16	IM823	IMD823	3-5/8	2-3/8	2-1/8	3-5/8	1-5/8		•	
2-5/8	IM843	IMD843	3-3/4	2-3/8	2-5/16	3-3/4	1-5/8		•	
2-11/16	IM863	IMD863	3-3/4	2-3/8	2-1/2	4	1-13/16		•	
2-3/4	IM883	IMD883	3-3/4	2-3/8	2-7/16	4	1-13/16		•	
2-13/16	IM903	IMD903	4	2-3/8	2-7/16	4	1-13/16		•	
2-7/8	IM923	IMD923	4	2-3/8	2-7/16	4	1-13/16		•	
2-15/16	IM943	IMD943	4-1/8	2-3/8	2-5/8	4-1/4	2		•	
3	IM963	IMD963	4-1/4	2-3/8	2-5/8	4-1/4	2-1/16		•	
3-1/8	IM1003	IMD1003	4-1/4	2-3/8	2-9/16	4-1/4	2-1/16		•	
3-1/4	IM1043	IMD1043	4-1/2	2-3/8	2-9/16	4-1/4	2-1/16		•	
3-3/8	IM1083	IMD1083	4-5/8	2-3/8	2-3/4	4-1/2	2-1/4		•	
3-1/2	IM1123	IMD1123	4-3/4	2-3/8	3	4-3/4	2-1/4		•	
3-5/8	IM1163	IMD1163	5	2-3/8	2-15/16	4-3/4	2-5/16			•
3-11/16	IM1183	—	5-5/16	2-3/8	3-3/16	5	2-7/16			•
3-3/4	IM1203	IMD1203	5-1/8	2-3/8	2-7/8	4-3/4	2-3/8			•
3-13/16	IM1223	—	5-3/8	2-3/8	3-1/8	5	2-1/2			•
3-7/8	IM1243	IMD1243	5-1/4	2-3/8	3-1/8	5	2-9/16			•
3-15/16	IM1263	—	5-3/8	2-3/8	3-3/8	5-1/4	2-9/16			•
4	IM1283	IMD1283	5-1/2	2-3/8	3-1/16	5	2-9/16			•
4-1/16	IM1303	—	5-1/2	2-3/8	3-1/16	5	2-9/16			•
4-1/8	IM1323	IMD1323	5-9/16	2-3/8	3-1/16	5	2-9/16			•
4-3/16	IM1343	—	6	2-3/8	3	5	2-9/16			•
4-1/4	IM1363	IMD1363	5-3/4	2-3/8	3-1/4	5-1/4	2-5/8			•
4-5/16	IM1383	—	5-25/32	2-3/8	3-7/16	5-1/2	2-5/8			•
4-3/8	IM1403	—	5-13/16	2-3/8	3-3/16	5-1/4	2-5/8			•
4-7/16	IM1423	—	6	2-3/8	3-3/16	5-1/4	2-11/16			•
4-1/2	IM1443	IMD1443	6	2-3/8	3-3/16	5-1/4	2-5/8			•
4-9/16	IM1463	—	6-1/2	2-3/8	3-7/16	5-1/2	2-3/4			•
4-5/8	IM1483	—	6-7/16	2-3/8	3-7/8	6	3-1/16			•
4-3/4	IM1523	—	6-5/8	2-3/8	3-5/8	5-3/4	2-7/8			•
4-7/8	IM1563	—	7	2-3/8	3-9/16	5-3/4	3			•
5	IM1603	—	7	2-3/8	3-1/2	5-3/4	3			•
5-3/8	IM1723	—	7-1/2	2-3/8	4-7/16	6-3/4	3-9/16			•
5-3/4	IM1843	—	8-1/4	2-3/8	4-5/16	6-3/4	3-9/16			•

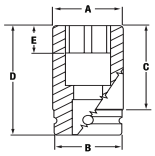




IM703

FLANK DRIVE® IMPACT SOCKETS

Deep, inches





SIM563

	6	12	A	B	C	D	E	Set Contains: 519SIM 6	520SIM 6	517SIM 6
7/8	SIM283	—	1-19/32	2-1/8	1-13/16	3	5/8	•		
15/16	SIM303	—	1-19/32	2-1/8	1-13/16	3	11/16	•		
1	SIM323	SIMD323	1-19/32	2-1/8	1-13/16	3	3/4	•		
1-1/16	SIM343	—	1-3/4	2-1/8	1-13/16	3	3/4	•		
1-1/8	SIM363	—	1-13/16	2-1/8	1-13/16	3	3/4	•		
1-3/16	SIM383	—	1-13/16	2-1/8	1-13/16	3	3/4	•		
1-1/4	SIM403*	SIMD403*	2-1/16	2-1/8	2-1/196	3-1/4	7/8	•		
1-5/16	SIM423	—	2-1/16	2-1/8	2-1/196	3-1/4	7/8	•		
1-3/8	SIM443	—	2-1/16	2-1/8	2-1/196	3-1/4	7/8	•		
1-7/16	SIM463A	SIMD463	2-1/4	2-1/8	2-3/32	3-1/4	29/32	•		
1-1/2	SIM483B	—	2-3/8	2-1/4	2-11/32	3-1/2	1	•		
1-9/16	SIM503A	—	2-3/8	2-1/4	2-11/32	3-1/2	1	•		
1-5/8	SIM523B	—	2-3/8	2-1/4	2-1/2	3-5/8	1	•		
1-11/16	SIM543	SIMD543	2-1/2	2-3/8	2-7/16	3-5/8	1-1/8	•		
1-3/4	SIM563	—	2-3/4	2-3/8	2-11/16	3-7/8	1-1/8	•		
1-13/16	SIM583	—	2-3/4	2-3/8	2-11/16	3-7/8	1-3/16	•		
1-7/8	SIM603	—	2-3/4	2-3/8	2-11/16	3-7/8	1-3/16	•		
1-15/16	SIM623	—	3	2-3/8	2-15/16	4-1/8	1-1/4	•		
2	SIM643	—	3	2-3/8	2-15/16	4-1/8	1-5/16	•		
2-1/16	SIM663	—	3	2-1/4	2-15/16	4-1/4	1-5/16		•	
2-1/8	SIM683	—	3-1/8	2-1/4	2-7/8	4-1/4	1-5/16		•	
2-3/16	SIM703	—	3-1/4	2-1/4	3-1/8	4-1/2	1-1/2		•	
2-1/4	SIM723	—	3-1/4	2-3/8	3-1/8	4-1/2	1-1/2		•	
2-5/16	SIM743	—	3-3/8	2-3/8	3-1/16	4-1/2	1-1/2		•	
2-3/8	SIM763	—	3-1/2	2-3/8	3-1/16	4-1/2	1-1/2		•	
2-7/16	SIM783	—	3-1/2	2-3/8	3-1/16	4-1/2	1-1/2		•	
2-1/2	SIM803	—	3-1/2	2-3/8	3-1/4	4-3/4	1-5/8		•	
2-9/16	SIM823	—	3-5/8	2-3/8	3-1/4	4-3/4	1-5/8		•	
2-5/8	SIM843**	—	3-3/4	2-3/8	3-1/4	4-3/4	1-5/8		•	
2-11/16	SIM863	—	3-3/4	2-3/8	3-1/2	5	1-13/16		•	
2-3/4	SIM883	—	3-3/4	2-3/8	3-7/16	5	1-13/16		•	
2-13/16	SIM903	—	4	2-3/8	3-7/16	5	1-3/4		•	
2-7/8	SIM923	—	4	2-3/8	3-7/16	5	1-3/4		•	
2-15/16	SIM943	—	4-1/8	2-3/8	3-3/8	5	1-3/4		•	
3	SIM963	—	4-1/4	2-3/8	3-5/8	5-1/4	1-3/4		•	
3-1/8	SIM1003	—	4-1/4	2-3/8	3-9/16	5-1/4	1-7/8		•	
3-1/4	SIM1043	—	4-1/2	2-3/8	3-9/16	5-1/4	1-7/8		•	
3-3/8	SIM1083	—	4-1/2	2-3/8	4	5-3/4	2-1/4		•	
3-1/2	SIM1123	—	4-3/4	2-3/8	4	5-3/4	2-1/4		•	
3-5/8	SIM1163	—	5	2-3/8	3-15/16	5-3/4	2-1/4			•
3-11/16	SIM1183	—	5-5/16	2-3/8	3-15/16	5-3/4	2-7/16			•
3-3/4	SIM1203	—	5-1/8	2-3/8	3-7/8	5-3/4	2-1/4			•
3-13/16	SIM1223	—	5-3/8	2-3/8	4-1/8	6	2-1/2			•
3-7/8	SIM1243	—	5-1/4	2-3/8	4-3/8	6-1/4	2-9/16			•
3-15/16	SIM1263	—	5-1/2	2-3/8	4-3/8	6-1/4	2-3/8			•
4	SIM1283	—	5-1/2	2-3/8	4-5/16	6-1/4	2-9/16			•
4-1/16	SIM1303	—	5-1/2	2-3/8	4-5/16	6-1/4	2-1/2			•
4-1/8	SIM1323	—	5-9/16	2-3/8	4-5/16	6-1/4	2-9/16			•
4-3/16	SIM1343	—	6	2-3/8	4-1/4	6-1/4	2-1/2			•
4-7/16	SIM1423	—	6	2-3/8	4-3/16	6-1/4	2-11/16			•
4-1/2	SIM1443	—	6	2-3/8	4-7/16	6-1/2	2-3/4			•
4-9/16	SIM1463	—	6-1/2	2-3/8	4-7/16	6-1/2	2-3/4			•
4-5/8	SIM1483	—	6-5/8	2-3/8	4-3/8	6-1/2	2-13/16			•
4-3/4	SIM1523	—	6-5/8	2-3/8	4-5/8	6-3/4	2-7/8			•
4-7/8	SIM1563	—	7	2-3/8	4-9/16	6-3/4	3			•
5	SIM1603	—	7	2-3/8	4-1/2	6-3/4	3			•
5-3/8	SIM1723	—	7-1/2	2-3/8	5-7/16	7-3/4	3-9/16			•
5-3/4	SIM1843	—	8-1/4	2-3/8	5-5/16	7-3/4	3-9/16			•

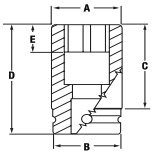
*Applications include use on heavy duty wheel lug nuts.
**Applications include use on wheel lug nuts on stud piloted/budd style wheel systems.

FLANK DRIVE® IMPACT SOCKETS

Deep, mm

mm	6	A	B	C	D	E
30	**SIMM303**	46.0	53.7	46.0	76.2	19.1
32	**SIMM323**	52.3	53.7	76.2	82.6	22.4
33	**SIMM333**	52.3	53.7	53.3	82.5	22.4
38	**SIMM383**	60.3	57.2	59.7	88.9	25.4
70	**SIMM703**	97.61	60.45	95.45	127	43.69





SIMM323

Shallow Thin Wall, mm

mm	6	A	B	C	D	E
50	**IMM503TW**	65	57.2	49	82.6	34.8
55	**IMM553TW**	75.9	60.5	53.8	88.9	34.8
70	**IMM705TW**	91.2	82.6	67.5	114.3	44.3



IMM503TW

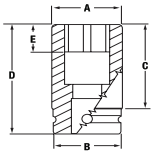


IMM705TW

SPECIAL APPLICATION IMPACT SOCKETS



IM724





IM740

Single Square/Shallow, inches

11	4	A	B	C	D	E
3/4	**IM724**	1-15/16	2-1/8	31/32	2-1/8	21/32
13/16	**IM726**	1-15/16	2-1/8	31/32	2-1/8	21/32
7/8	**IM728**	2-1/16	2-1/8	31/32	2-1/8	21/32
15/16	**IM730**	2-1/16	2-1/8	15/16	2-1/8	5/8
1	**IM732**	2-1/8	2-1/8	1-3/32	2-1/4	25/32
1-1/8	**IM736**	2-1/4	2-1/4	1-3/32	2-1/4	25/32

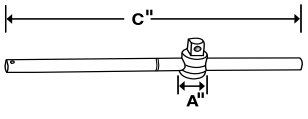
Double Square/Shallow, inches

11	8	A	B	C	D	E
1-1/4	**IM740**	2-3/8	2-3/8	1-1/8	2-3/8	13/16

1-1/2" DRIVE HANDLES

Sliding T-Handle, Industial (1-1/2″)

Stock No.	C	Sliding Head Only Stock No.	A	Handle Stock No.
L55	36	L55-2	2-7/8	L55-1





L55

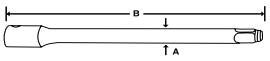
⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

1-1/2" AND #5 SPLINE DRIVE IMPACT ACCESSORIES

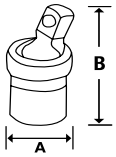


IM105





IP85



Extensions with Pin Hole (1-1/2″)

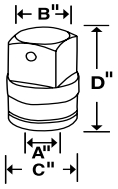
Stock No.	A	B
IM105	2	10
IM155	2	15
IM205	2	20

Swivel Universal Joint with Pin Hole (1-1/2″)

Stock No.	Retention Type	A	B
IP85	Pin Hole	3-5/8	6-1/16

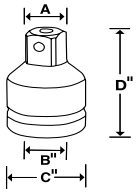


IM53





IMSA3



Adaptors with Pin Hole (1-1/2″)

Stock No.	A	B	C	D
IM35	1	1-1/2	2-1/4	3-1/2
IM53	1-1/2	1	3-1/4	4-1/4
IM59	1-1/2	2-1/2	3-1/4	4-3/4
IM95	2-1/2	1-1/2	5	6-3/8

Spline-to-Square Adaptor

Stock No.	A	B	C	D
IMSA3	1″ Square	No. 5, 14 Tooth	2-3/8	3-3/8



IM243R



IM243P



IMR3

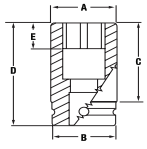
Ring and Pin Chart for Impact Sockets and Accessories (1″, 1-1/2″, #5 Spline Drive)

Stock No.	Description	Use with
IM243R	Synthetic Rubber Locking Ring	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm) Plus IM124 Adaptor
IM243P	Steel Locking Pin	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm)
IMR3	Socket Retainer	All 1″ Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories
IM483R	Rubber Locking Ring	All Spline Drive Sockets/Accessories Plus 1″ Drive Sockets from 1-7/16″ (35 mm)
IM483P	Steel Locking Pin	All Spline Drive Sockets/Accessories Plus 1″ Drive Sockets from 1-7/16″ (35 mm)
IM445R	Rubber Locking Ring	All 1-1/2″ Drive Sockets/Accessories

FLANK DRIVE® IMPACT SOCKETS



IMM365



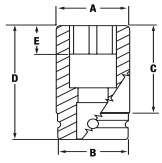
Shallow, mm

mm	6	A	B	C	D	E
36	IMM365	73.0	82.6	34.5	76.2	25.4
38	IMM385	73.0	82.6	34.5	76.2	25.4
41	IMM415	73.0	82.6	34.5	76.2	27.7
46	IMM465	79.4	82.6	40.9	82.6	29.7
50	IMM505	79.4	82.6	47.2	88.9	31.8
55	IMM555	88.9	82.6	47.2	88.9	35.6

mm	6	A	B	C	D	E
60	IMM605	94.5	82.6	58.2	101.6	38.6
65	IMM655	99.2	82.6	56.6	101.6	41.4
70	IMM705	105.6	82.6	61.7	108.0	45.7
75	IMM755	111.1	82.6	66.5	114.3	47.2
80	IMM805	116.6	82.6	77.2	127	50.7

Shallow, inches

								Set Contains: 619IM	616IM	618IM	609IM
	6	12	A	B	C	D	E	6	6	6	6
1-3/8	IM445	IMD445	2-7/8	3-1/4	1-3/8	3	1	•			
1-7/16	IM465	IMD465	2-7/8	3-1/4	1-3/8	3	1	•			
1-1/2	IM485	IMD485	3	3-1/4	1-3/8	3	1	•			
1-9/16	IM505	—	3	3-1/4	1-3/8	3	1	•			
1-5/8	IM525	IMD525	2-7/8	3-1/4	1-3/8	3	1-1/16	•			
1-11/16	IM545	IMD545	3	3-1/4	1-3/8	3	1-1/16	•			
1-3/4	IM565	IMD565	3-1/8	3-1/4	1-5/8	3-1/4	1-1/8	•			
1-13/16	IM585	—	3-1/8	3-1/4	1-5/8	3-1/4	1-3/16	•			
1-7/8	IM605	IMD605	3-1/8	3-1/4	1-7/8	3-1/2	1-3/16	•			
1-15/16	IM625A	—	3-1/8	3-1/4	1-7/8	3-1/2	1-1/4	•			
2	IM645	IMD645	3-1/2	3-1/4	1-7/8	3-1/2	1-1/4	•			
2-1/16	IM665	IMD665	3-1/2	3-1/4	1-7/8	3-1/2	1-7/16	•			
2-1/8	IM685	—	3-1/2	3-1/4	1-7/8	3-1/2	1-7/16	•			
2-3/16	IM705	—	3-1/2	3-1/4	1-7/8	3-1/2	1-1/2	•			
2-1/4	IM725A	—	3-3/4	3-1/4	2-1/8	3-3/4	1-7/16	•			
2-5/16	IM745	—	3-3/4	3-1/4	2	3-3/4	1-1/2	•			
2-3/8	IM765	IMD765	3-7/8	3-1/4	2-1/4	4	1-1/2	•			
2-7/16	IM785	—	3-7/8	3-1/4	2-1/4	4	1-9/16	•			
2-1/2	IM805	IMD805	3-7/8	3-1/4	2-1/4	4	1-5/8	•			
2-9/16	IM825	—	3-7/8	3-1/4	2-1/4	4	1-5/8		•		
2-5/8	IM845	IMD845	4-1/16	3-1/4	2-1/2	4-1/4	1-11/16		•		
2-11/16	IM865	IMD865	4-1/8	3-1/4	2-1/2	4-1/4	1-11/16		•		
2-3/4	IM885	—	4-1/4	3-1/4	2-3/8	4-1/4	1-13/16		•		
2-13/16	IM905	—	4-3/8	3-1/4	2-3/8	4-1/4	1-13/16		•		
2-7/8	IM925	IMD925	4-3/8	3-1/4	2-3/8	4-1/4	1-13/16		•		
2-15/16	IM945	IMD945	4-3/8	3-1/4	2-5/8	4-1/2	1-15/16		•		
3	IM965	IMD965	4-7/16	3-1/4	2-5/8	4-1/2	1-15/16		•		
3-1/16	IM985	—	4-11/16	3-1/4	2-5/8	4-1/2	1-15/16		•		
3-1/8	IM1005	—	4-3/4	3-1/4	2-7/8	4-3/4	2		•		
3-3/16	IM1025	—	4-3/4	3-1/4	2-1/2	4-1/2	2		•		
3-1/4	IM1045	IMD1045	4-3/4	3-1/4	2-3/4	4-3/4	2-1/8		•		
3-5/16	IM1065	—	5	3-1/4	2-3/4	4-3/4	2-1/8		•		
3-3/8	IM1085	—	5	3-1/4	2-3/4	4-3/4	2-1/4		•		
3-7/16	IM1105	—	5	3-1/4	3	5	2-1/4		•		
3-1/2	IM1125	—	5-1/8	3-1/4	3	5	2-1/4		•		
3-9/16	IM1145	—	5-1/8	3-1/4	2-7/8	5	2-1/4			•	
3-5/8	IM1165	—	5-1/8	3-1/4	2-7/8	5	2-5/16			•	
3-11/16	IM1185	—	5-1/4	3-1/4	3-1/8	5-1/4	2-3/8			•	
3-3/4	IM1205	—	5-3/8	3-1/4	3-1/8	5-1/4	2-1/2			•	
3-13/16	IM1225	—	5-3/8	3-1/4	3-1/8	5-1/4	2-1/2			•	
3-7/8	IM1245	—	5-1/2	3-1/4	3-1/8	5-1/4	2-9/16			•	
3-15/16	IM1265	—	5-1/2	3-1/4	3-1/8	5-1/4	2-9/16			•	
4	IM1285	—	5-5/8	3-1/4	3-1/4	5-1/2	2-5/8			•	
4-1/16	IM1305	—	5-3/4	3-1/4	3-1/4	5-1/2	2-11/16			•	
4-1/8	IM1325	—	5-13/16	3-1/4	3-1/4	5-1/2	2-3/4			•	
4-1/4	IM1365	—	6	3-1/4	3-1/2	5-3/4	2-3/4			•	
4-5/16	IM1385	—	6-1/4	3-1/4	3-1/2	5-3/4	2-7/8			•	
4-3/8	IM1405	—	6-1/4	3-1/4	3-3/8	5-3/4	2-15/16			•	
4-7/16	IM1425	—	6-1/4	3-1/4	3-3/8	5-3/4	3			•	
4-1/2	IM1445	—	6-1/4	3-1/4	3-5/8	6	3-1/8			•	
4-5/8	IM1485	—	6-1/2	3-1/4	3-7/8	6-1/4	3-1/8			•	
4-3/4	IM1525	—	6-9/16	3-1/4	3-7/8	6-1/4	3-1/8			•	
4-7/8	IM1565	—	6-11/16	3-1/4	3-3/4	6-1/4	3-3/16			•	
5	IM1605	—	6-7/8	3-1/4	3-3/4	6-1/4	3-3/16				•
5-3/8	IM1725	—	7-5/16	3-1/4	3-5/8	6-1/4	3-7/16				•
5-3/4	IM1845	—	7-11/16	3-1/4	4-1/2	7-1/4	3-11/16				•
6-1/8	IM1965	—	8	3-1/4	4-3/8	7-1/4	3-15/16				•
6-1/2	IM2085	—	8-3/8	3-1/4	5	8	4-3/16				•
6-7/8	IM2205	—	8-13/16	3-1/4	4-7/8	8	4-3/8				•
7-1/4	IM2325	—	9-3/16	3-1/4	6-1/8	9-1/4	4-5/8				•
7-5/8	IM2445	—	9-1/2	3-1/4	6-1/4	9-1/2	4-7/8				•
8	IM2565	—	10	3-1/4	6-5/8	10	5-1/8				•





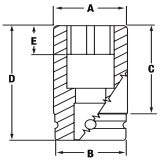
IM445

WARNING • Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS



SIM485



Deep, inches

	6	A	B	C	D	E
1-3/16	**SIM445**	2-7/8	3-1/4	2-5/8	4-1/4	1
1-7/16	**SIM465**	2-7/8	3-1/4	2-5/8	4-1/4	1
1-1/2	**SIM485**	2-7/8	3-1/4	2-5/8	4-1/4	1
1-5/8	**SIM525**	2-7/8	3-1/4	2-5/8	4-1/4	1-1/8
1-11/16	**SIM545**	3	3-1/4	2-5/8	4-1/4	1-1/8
2	**SIM645**	3-3/8	3-1/4	3-1/8	4-3/4	1-1/4
2-1/16	**SIM665**	3-7/16	3-1/4	3-1/8	4-3/4	1-5/16
2-3/16	**SIM705**	3-1/2	3-1/4	3-3/8	5	1-3/8
2-1/4	**SIM725**	3-9/16	3-1/4	3-5/8	5-1/4	1-1/2
2-5/16	**SIM745**	3-5/8	3-1/4	3-1/2	5-1/4	1-9/16
2-3/8	**SIM765**	3-3/4	3-1/4	3-1/2	5-1/4	1-9/16
2-7/16	**SIM785**	3-3/4	3-1/4	3-1/2	5-1/4	1-9/16
2-1/2	**SIM805**	3-7/8	3-1/4	3-1/2	5-1/4	1-5/8
2-9/16	**SIM825**	3-7/8	3-1/4	3-3/4	5-1/2	1-5/8
2-5/8	**SIM845**	4	3-1/4	3-3/4	5-1/2	1-11/16
2-11/16	**SIM865**	4-1/8	3-1/4	3-3/4	5-1/2	1-3/4
2-3/4	**SIM885**	4-1/8	3-1/4	3-5/8	5-1/2	1-13/16
2-13/16	**SIM905**	4-1/4	3-1/4	3-7/8	5-3/4	1-13/16
2-7/8	**SIM925**	4-5/16	3-1/4	3-7/8	5-3/4	1-7/8
2-15/16	**SIM945**	4-3/8	3-1/4	3-7/8	5-3/4	1-15/16
3	**SIM965**	4-7/16	3-1/4	4-1/8	6	1-15/16
3-1/16	**SIM985**	4-9/16	3-1/4	4-1/8	6	2
3-1/8	**SIM1005**	4-5/8	3-1/4	4-1/8	6	2-1/16
3-3/16	**SIM1025**	4-11/16	3-1/4	4-1/4	6-1/4	2-1/8
3-1/4	**SIM1045**	4-3/4	3-1/4	4-1/4	6-1/4	2-1/8
3-5/16	**SIM1065**	4-7/8	3-1/4	4-1/4	6-1/4	2-3/16
3-3/8	**SIM1085**	4-15/16	3-1/4	4-1/4	6-1/4	2-1/4
3-7/16	**SIM1105**	5	3-1/4	4-1/2	6-1/2	2-1/4
3-1/2	**SIM1125**	5-1/16	3-1/4	4-1/2	6-1/2	2-5/16
3-9/16	**SIM1145**	5-1/8	3-1/4	4-3/8	6-1/2	2-3/8
3-5/8	**SIM1165**	5-1/4	3-1/4	4-5/8	6-3/4	2-7/16
3-11/16	**SIM1185**	5-5/16	3-1/4	4-5/8	6-3/4	2-7/16
3-3/4	**SIM1205**	5-3/8	3-1/4	4-5/8	6-3/4	2-1/2
3-13/16	**SIM1225**	5-7/16	3-1/4	4-7/8	7	2-1/2
3-7/8	**SIM1245**	5-1/2	3-1/4	4-7/8	7	2-9/16
3-15/16	**SIM1265**	5-5/8	3-1/4	5-1/8	7-1/4	2-9/16
4	**SIM1285**	5-5/8	3-1/4	5	7-1/4	2-5/8
4-1/16	**SIM1305**	5-3/4	3-1/4	5-1/4	7-1/2	2-11/16
4-1/8	**SIM1325**	5-13/16	3-1/4	5-1/4	7-1/2	2-3/4
4-1/4	**SIM1365**	6	3-1/4	5-1/2	7-3/4	2-13/16
4-5/16	**SIM1385**	6-1/4	3-1/4	5-1/2	7-3/4	3
4-3/8	**SIM1405**	6-1/4	3-1/4	5-3/8	7-3/4	3
4-1/2	**SIM1445**	6-1/4	3-1/4	5-5/8	8	3
4-5/8	**SIM1485**	6-3/8	3-1/4	5-5/8	8	3-1/16
4-3/4	**SIM1525**	6-1/2	3-1/4	5-5/8	8	3-1/16

Locking Rings and Pins for 1-1/2″ and 2-1/2″ Extensions, Adaptors, Impact Sockets



IM445R

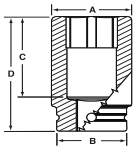


IM729P

Stock No.	Description	Use with
IM243R	Synthetic Rubber Locking Ring	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm) Plus IM124 Adaptor
IM243P	Steel Locking Pin	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm)
IM445R	Rubber Locking Ring	All 1-1/2″ Drive Sockets/Accessories
IM729P	Steel Locking Pin	All 2-1/2″ Drive Sockets/Accessories



IM2209



Shallow, inches

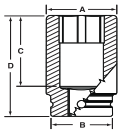
Set Contains:						716IM	713IM	714IM	711IM
	6	A	B	C	D	6	6	6	6
2	IM649	3-7/16	5	2-31/32	5-1/2	•			
2-3/16	IM709	3-21/32	5	3-7/32	5-3/4	•			
2-1/4	IM729	3-23/32	5	3-7/32	5-3/4	•			
2-3/8	IM769	3-7/8	5	3-15/32	6	•			
2-1/2	IM809	4	5	3-15/32	6	•			
2-9/16	IM829	4-3/32	5	3-15/32	6	•			
2-5/8	IM849	4-5/32	5	3-15/32	6	•			
2-3/4	IM889	4-5/16	5	3-23/32	6-1/4	•			
2-7/8	IM929	4-7/16	5	3-23/32	6-1/4	•			
2-15/16	IM949	4-17/32	5	3-23/32	6-1/4	•			
3	IM969	4-19/32	5	3-23/32	6-1/4	•			
3-1/8	IM1009	4-3/4	5	3-31/32	6-1/2	•			
3-1/4	IM1049	5	5	3-31/32	6-1/2	•			
3-3/8	IM1089	5	5	3-31/32	6-1/2	•			
3-7/16	IM1109	5	5	4-7/32	6-3/4	•			
3-1/2	IM1129	5-3/16	5	4-7/32	6-3/4	•			
3-5/8	IM1169	5-5/16	5	4-7/32	6-3/4		•		
3-3/4	IM1209	5-15/32	5	4-15/32	7		•		
3-7/8	IM1249	5-5/8	5	4-15/32	7		•		
4	IM1289	5-3/4	5	4-15/32	7		•		
4-1/16	IM1309	5-27/32	5	4-15/32	7		•		
4-1/8	IM1329	5-29/32	5	4-23/32	7-1/4		•		
4-1/4	IM1369	6-1/16	5	4-23/32	7-1/4		•		
4-3/8	IM1409	6-7/32	5	4-23/32	7-1/4		•		
4-1/2	IM1449	6-11/32	5	4-31/32	7-1/2		•		
4-5/8	IM1489	6-1/2	5	4-31/32	7-1/2		•		
4-3/4	IM1529	6-21/32	5	4-31/32	7-1/2		•		
4-7/8	IM1569	6-25/32	5	5-7/32	7-3/4		•		
5	IM1609	6-15/16	5	5-7/32	7-3/4		•		
5-1/8	IM1649	7-3/32	5	5-7/32	7-3/4			•	
5-1/4	IM1689	7-7/32	5	5-15/32	8			•	
5-3/8	IM1729	7-3/8	5	5-15/32	8			•	
5-7/16	IM1749	7-7/16	5	5-3/8	8			•	
5-1/2	IM1769	7-17/32	5	5-5/8	8-1/4			•	
5-5/8	IM1809	7-21/32	5	5-19/32	8-1/4			•	
5-3/4	IM1849	7-13/16	5	5-19/32	8-1/4			•	
5-7/8	IM1889	7-31/32	5	5-13/16	8-1/2			•	
6	IM1929	8-3/32	5	5-3/4	8-1/2			•	
6-1/8	IM1969	8-1/4	5	5-3/4	8-1/2			•	
6-1/4	IM20099	8-13/32	5	5-31/32	8-3/4			•	
6-3/8	IM2049	8-17/32	5	5-15/16	8-3/4			•	
6-1/2	IM2089	8-11/16	5	5-15/16	8-3/4			•	
6-5/8	IM2129	8-27/32	5	6-5/32	9			•	
6-3/4	IM2169	8-31/32	5	6-1/8	9				•
6-7/8	IM2209	9-1/8	5	6-1/8	9				•
7	IM2249	9-9/32	5	6-5/16	9-1/4				•
7-1/8	IM2289	9-13/32	5	6-5/16	9-1/4				•
7-1/4	IM2329	9-9/16	5	6-17/32	9-1/2				•
7-3/8	IM2369	9-23/32	5	6-1/2	9-1/2				•
7-1/2	IM2409	9-7/8	5	6-1/2	9-1/2				•
7-5/8	IM2449	10	5	6-23/32	9-3/4				•
7-3/4	IM2489	10-5/32	5	6-11/16	9-3/4				•
7-7/8	IM2529	10-5/16	5	6-11/16	9-3/4				•
8	IM2569	10-7/16	5	6-7/8	10				•

WARNING • Read safety precautions on pages W1 to W4

FLANK DRIVE® IMPACT SOCKETS



IMM1159



Shallow, mm

mm	6	A	B	C	D	Set Contains: 713IMM 6	710IMM 6	709IMM 6
60	**IMM609**	97.6	127	88.1	152.4	•		
65	**IMM659**	104.0	127	88.1	152.4	•		
67	**IMM679**	105.6	127	88.1	152.4	•		
70	**IMM709**	109.5	127	94.5	158.8	•		
71	**IMM719**	110.3	127	94.5	158.8	•		
75	**IMM759**	115.1	127	94.5	158.8	•		
80	**IMM809**	121.4	127	100.8	165.1	•		
85	**IMM859**	127.0	127	100.8	165.1	•		
86	**IMM869**	127.0	127	100.8	165.1	•		
90	**IMM909**	132.6	127	107.2	171.5	•		
95	**IMM959**	138.9	127	107.2	171.5	•		
98	**IMM989**	142.1	127	113.5	177.8	•		
100	**IMM1009**	144.5	127	113.5	177.8	•		
105	**IMM1059**	150.8	127	119.9	184.2		•	
110	**IMM1109**	156.4	127	119.9	184.2		•	
115	**IMM1159**	161.9	127	126.2	190.5		•	
120	**IMM1209**	168.3	127	126.2	190.5		•	
125	**IMM1259**	173.8	127	132.6	196.9		•	
130	**IMM1309**	179.4	127	132.6	196.9		•	
135	**IMM1359**	185.7	127	138.9	203.2		•	
140	**IMM1409**	191.3	127	142.9	209.6		•	
145	**IMM1459**	196.9	127	142.1	209.6		•	
150	**IMM1509**	203.2	127	147.6	215.9		•	
155	**IMM1559**	208.8	127	146.1	215.9			•
160	**IMM1609**	215.1	127	151.6	222.3			•
165	**IMM1659**	215.1	127	150.8	222.3			•
170	**IMM1709**	226.2	127	156.4	228.6			•
175	**IMM1759**	232.6	127	161.9	235.0			•
180	**IMM1809**	238.1	127	160.3	235.0			•
185	**IMM1859**	243.7	127	165.9	241.3			•
190	**IMM1909**	250.0	127	165.1	241.3			•
200	**IMM2009**	261.9	127	169.9	247.7			•



IM182R



IMR3

Master Ring and Pin Chart for Impact Sockets and Accessories

Stock No.	Description	Use with
IM182R	Rubber Locking Ring	All 3/4″ Drive Sockets/Accessories
IMR2	Socket Retainer	All 3/4″ Drive Sockets/Accessories
IM483R	Rubber Locking Ring	All Spline Drive Sockets/Accessories Plus 1″ Drive Sockets from 1-7/16″ (35 mm)
IM483P	Steel Locking Pin	All Spline Drive Sockets/Accessories Plus 1″ Drive Sockets from 1-7/16″ (35 mm)
IM445R	Rubber Locking Ring	All 1-1/2″ Drive Sockets/Accessories
IM729P	Steel Locking Pin	All 2-1/2″ Drive Sockets/Accessories
IMR3	Socket Retainer	All 1″ Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories
IM243P	Steel Locking Pin	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm)
IM243R	Synthetic Rubber Locking Ring	1″ Drive Sockets/Accessories up to 1-3/8″ (35 mm) Plus IM124 Adaptor



WRENCHES

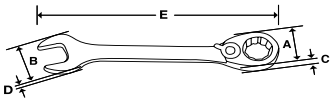
THE KEY TO MAKING WRENCHES THAT PERFORM BETTER IS TO MAKE THEM BETTER IN THE FIRST PLACE. THAT'S WHY WE MAKE OURS WITH SPECIAL ALLOY STEEL, PRECISION FORGING AND HEAT TREATMENT FOR ULTIMATE STRENGTH AND DURABILITY. NICKEL-CHROME FINISHING FOR CORROSION PROTECTION AND EASIER CLEANUP. AND LONGER HANDLES FOR ADDED LEVERAGE AND GREATER ACCESS.

WRENCH BETTER WITH A BETTER WRENCH.

Our entire line of wrenches offers exclusive features, like the Flank Drive® Plus profile on the open end that "bites" into the fastener to minimize slipping and delivers up to 62% more turning power. Our Flank Drive® box-end wrenches have a 7.5° rotation away from the handle, so they can be flipped for better grip in tight areas. And their 15° offset angle provides more knuckle clearance and greater accessibility. Our reversible ratcheting box-end wrenches also provide smooth operation and max power, thanks to their 80-gear teeth and reversible dual pawls.

FLANK DRIVE® PLUS REVERSIBLE RATCHETING COMBINATION

DUAL 80 TECHNOLOGY



- Patented, ratcheting mechanism utilizes Snap-on® Dual 80® Technology, combining dual pawls with a thin-walled, box-end design for smooth operation and more torque transfer in less lateral space
- 12-point ratcheting gear is cold formed and features the Flank Drive® wrenching configuration, the proven design for turning fasteners
- Open end features the patented Flank Drive® Plus wrenching configuration that delivers up to 62% more turning power than conventional wrenches
- Up to 80 gear teeth requires minimal movement in tight areas
- Box end is offset 15° for maximum clearance
- STRONG: Manufactured from special alloy steel; Precision forged, cold-formed and heat treated; Nickel-chrome plating; optimum corrosion protection, strength and durability
- POWERFUL: Continuous arc design; smooth operation distributes stress evenly creating more torque transfer



SOXRRM10



SOXRRM710

Ratcheting Combination/Standard Handle, 15° Offset, mm

mm	12	A	B	C	D	E	SOXRRM704 12	SOXRRM707 12	SOXRRM710 12
6	SOXRRM6	16.3	13.8	6.7	3.7	126	•		
7	SOXRRM7	16.8	15.1	6.9	3.9	137	•		
8	SOXRRM8	17.8	17.0	7.1	4.3	149	•		
9	SOXRRM9	19.6	19.2	7.9	4.7	164	•		
10	SOXRRM10	19.1	21.1	7.2	5.1	179		•	•
11	SOXRRM11	21.1	23.4	7.6	5.5	194		•	•
12	SOXRRM12	22.7	25.1	8.1	5.9	207		•	•
13	SOXRRM13	24	27.2	8.2	6.3	221		•	•
14	SOXRRM14	26.3	29.2	8.2	6.7	235		•	•
15	SOXRRM15	27.8	31.2	9.1	7.1	249		•	•
16	SOXRRM16	28.4	33	9.8	7.4	261			•
17	SOXRRM17	30.5	35.1	9.9	7.8	277		•	•
18	SOXRRM18	31.8	37.1	10.4	8.2	291			•
19	SOXRRM19	32.4	39.4	10.9	8.6	305			•

ASME® B107.100

Sets include storage tray.



SOXRR707

Ratcheting Combination/Standard Handle, 15° Offset, inches

Set Contains:							SOXRR702	SOXRR707
in	12	A	B	C	D	E	12	12
1/4	SOXRR8	21/32	9/16	9/32	5/32	4-15/16	•	
5/16	SOXRR10	27/32	11/16	9/32	3/16	5-29/32	•	
3/8	SOXRR12	3/4	27/32	9/32	7/32	7-1/32		•
7/16	SOXRR14	27/32	15/16	5/16	7/32	7-21/32		•
1/2	SOXRR16	15/16	1-1/16	11/32	1/4	8-11/16		•
9/16	SOXRR18	1-1/32	1-5/32	11/32	1/4	9-1/4		•
5/8	SOXRR20	1-1/8	1-5/16	3/8	9/32	10-9/32		•
11/16	SOXRR22	1-3/16	1-3/8	13/32	5/16	10-7/8		•
3/4	SOXRR24	1-9/32	1-9/16	7/16	11/32	12		•

ASME® B107.100

Sets include storage tray.

FLANK DRIVE® PLUS REVERSIBLE RATCHETING COMBINATION

- Patented open end speed-wrenching configuration delivers more speed than conventional wrenches
- Speed open end provides quick, ratchet-like action
- Flank Drive® wrenching system on the box end provides up to 15–20% more turning power with less risk of tool or fastener damage
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Up to 80 gear teeth for minimal movement in tight areas
- Box end is offset 15° for clearance
- Sized for optimum comfort and balance
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

Reversible Ratcheting Box/Speed Open End, mm

Set Contains: SRXRM710

mm	12	A	B	C	D	E	Gear Teeth	12
10	**SRXRM10**	21.5	19.1	8.3	5.1	179	72	•
11	**SRXRM11**	22.0	21.0	8.6	5.6	194	72	•
12	**SRXRM12**	23.5	22.9	9.3	5.9	207	80	•
13	**SRXRM13**	25.0	24.8	10.2	6.4	221	80	•
14	**SRXRM14**	27.0	26.7	10.2	6.6	235	80	•
15	**SRXRM15**	28.5	28.6	11.1	7.4	249	80	•
16	**SRXRM16**	30.5	30.5	11.1	7.4	261	80	•
17	**SRXRM17**	32.0	32.4	12.0	7.9	277	80	•
18	**SRXRM18**	34.5	34.3	12.0	8.2	291	80	•
19	**SRXRM19**	36.5	36.2	12.9	8.6	305	80	•

ASME® B107.100

Set includes storage tray.



SRXRM710

Reversible Ratcheting Combination/Spline, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



SOSRR12

Set Contains: SOSRR707

Size, inches (Spline)	Stock No.	A	B	C	D	E	
3/8 (#12)	**SOSRR12**	3/4	27/32	9/32	7/32	7-1/32	•
7/16 (#14)	**SOSRR14**	27/32	15/16	5/16	7/32	7-21/32	•
1/2 (#16)	**SOSRR16**	15/16	1-1/16	11/32	1/4	8-11/16	•
9/16 (#18)	**SOSRR18**	1-1/32	1-5/32	11/32	1/4	9-1/4	•
5/8 (#20)	**SOSRR20**	1-1/8	1-5/16	3/8	9/32	10-9/32	•
11/16 (#22)	**SOSRR22**	1-3/16	1-3/8	13/32	5/16	10-7/8	•
3/4 (#24)	**SOSRR24**	1-9/32	1-9/16	7/16	11/32	12	•

Set includes storage tray.



SOSRR707

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® PLUS NON-REVERSIBLE COMBINATION



SOXRM703



SOXRM710

Ratcheting Combination/Standard Handle, 0° Offset, mm

Set Contains:							SOXRM703	SOXRM704	SOXRM710
mm	12	A	B	C	D	E	12	12	12
6	**SOXRM6**	16	13.2	6.4	3.5	123		•	
7	**SOXRM7**	16	15	6.4	3.9	134		•	
8	**SOXRM8**	16.9	17	6.4	4.3	147		•	
9	**SOXRM9**	18.2	19.2	6.8	4.7	159		•	
10	**SOXRM10**	19.1	21.1	7.2	5.1	171			•
11	**SOXRM11**	21.1	23.4	7.6	5.5	183			•
12	**SOXRM12**	22.7	25.1	8.1	5.9	195			•
13	**SOXRM13**	24	27.2	8.2	6.3	207			•
14	**SOXRM14**	26.3	29.2	8.3	6.7	219			•
15	**SOXRM15**	27.8	31.2	8.3	7.1	231			•
16	**SOXRM16**	28.4	33	9.8	7.4	243			•
17	**SOXRM17**	30.5	35.1	9.9	7.8	255			•
18	**SOXRM18**	31.8	37.1	10.4	8.2	267			•
19	**SOXRM19**	32.4	39.4	10.9	8.6	279			•
21	**SOXRM21**	39.5	43.2	13	9.4	314	•		
22	**SOXRM22**	39.7	45.7	13	9.9	329	•		
24	**SOXRM24**	46.1	48.8	14.1	10.5	358	•		

ASME® B107.100

Sets include storage tray.



SOXR704



SOXR707

Ratcheting Combination/Standard Handle, 0° Offset, inches

Set Contains:							SOXR704	SOXR707
11	12	A	B	C	D	E	12	12
1/4	**SOXR8**	5/8	1/2	1/4	9/64	4-27/32		
5/16	**SOXR10**	21/32	43/64	1/4	11/64	6-1/4		
3/8	**SOXR12**	3/4	27/32	9/32	3/16	6-3/4		•
7/16	**SOXR14**	27/32	29/32	5/16	7/32	7-7/32		•
1/2	**SOXR16**	15/16	1-1/16	11/32	1/4	8-5/32		•
9/16	**SOXR18**	1-1/32	1-5/32	11/32	1/4	8-5/8		•
5/8	**SOXR20**	1-1/8	1-5/16	3/8	9/32	9-9/16		•
11/16	**SOXR22**	1-7/32	1-3/8	13/32	5/16	10-1/32		•
3/4	**SOXR24**	1-9/32	1-9/16	7/16	11/32	10-31/32		•
13/16	**SOXR26**	1-9/16	1-3/4	17/32	3/8	12-3/8	•	
7/8	**SOXR28**	1-9/16	1-13/16	17/32	13/32	12-15/16	•	
15/16	**SOXR30**	1-13/16	1-15/16	9/16	7/16	14-1/8	•	
1	**SOXR32**	1-13/16	1-15/16	9/16	7/16	14-11/16	•	

ASME® B107.100

Sets include storage tray.

Non-Reversible Ratcheting Combination/Spline, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

	Stock No.	A	B	C	D	E
7/32 (#7)	**SOSR7**	5/8	17/32	1/4	5/32	4-27/32
1/4 (#8)	**SOSR8**	5/8	17/32	1/4	5/32	4-27/32
9/32 (#9)	**SOSR9**	21/32	11/16	1/4	3/16	5-25/32
5/16 (#10)	**SOSR10**	21/32	11/16	1/4	3/16	5-25/32
11/32 (#11)	**SOSR11**	23/32	3/4	9/32	3/16	6-1/4
3/8 (#12)	**SOSR12**	3/4	27/32	9/32	7/32	6-3/4
7/16 (#14)	**SOSR14**	27/32	15/16	5/16	7/32	7-7/32
1/2 (#16)	**SOSR16**	15/16	1-1/16	11/32	1/4	8-5/32
9/16 (#18)	**SOSR18**	1-1/32	1-5/32	11/32	1/4	8-5/8
5/8 (#20)	**SOSR20**	1-1/8	1-5/16	3/8	9/32	9-9/16
11/16 (#22)	**SOSR22**	1-3/16	1-3/8	13/32	5/16	10-1/32
3/4 (#24)	**SOSR24**	1-9/32	1-9/16	7/16	11/32	10-31/32
13/16 (#26)	**SOSR26**	1-9/16	1-23/32	1/2	3/8	12-11/32
7/8 (#28)	**SOSR28**	1-9/16	1-13/16	1/2	13/32	12-15/16
15/16 (#30)	**SOSR30**	1-13/16	1-15/16	9/16	13/32	14-1/8
1 (#32)	**SOSR32**	1-13/16	2-1/32	9/16	7/16	14-23/32



SOSR10



SOSR30

FLANK DRIVE® RATCHETING COMBINATION

Ratcheting Combination/Standard Handle, 0° Offset, inches

							Set Contains: OXR704	OXR707
	12	A	B	C	D	E	12	12
1/4	**OXR8**	5/8	1/2	1/4	9/64	4-27/32		
5/16	**OXR10**	21/32	43/64	1/4	11/64	6-1/4		
3/8	**OXR12**	3/4	27/32	9/32	3/16	6-3/4		•
7/16	**OXR14**	27/32	29/32	5/16	7/32	7-7/32		•
1/2	**OXR16**	15/16	1-1/16	11/32	1/4	8-5/32		•
9/16	**OXR18**	1-1/32	1-5/32	11/32	1/4	8-5/8		•
5/8	**OXR20**	1-1/8	1-5/16	3/8	9/32	9-9/16		•
11/16	**OXR22**	1-7/32	1-3/8	13/32	5/16	10-1/32		•
3/4	**OXR24**	1-9/32	1-9/16	7/16	11/32	10-31/32		•
13/16	**OXR26**	1-9/16	1-3/4	17/32	3/8	12-3/8	•	
7/8	**OXR28**	1-9/16	1-13/16	17/32	13/32	12-15/16	•	
15/16	**OXR30**	1-13/16	1-15/16	9/16	7/16	14-1/8	•	
1	**OXR32**	1-13/16	9/16	7/16	2-1/16	14-11/16	•	

ASME® B107.100

Sets include storage tray.



OXR704



OXR707

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® RATCHETING COMBINATION





SOXRM703



OXRM710

Ratcheting Combination/Standard Handle, 0° Offset, mm

Set Contains:	OXRM703	OXRM710

mm	12	A	B	C	D	E	12	12
6	**OXRM6**	16	13.2	6.4	3.5	123		
7	**OXRM7**	16	15	6.4	3.9	134		
8	**OXRM8**	16.9	17	6.4	4.3	147		
9	**OXRM9**	18.2	19.2	6.8	4.7	159		
10	**OXRM10**	19.1	21.1	7.2	5.1	171		•
11	**OXRM11**	21.1	23.4	7.6	5.5	183		•
12	**OXRM12**	22.7	25.1	8.1	5.9	195		•
13	**OXRM13**	24	27.2	8.2	6.3	207		•
14	**OXRM14**	26.3	29.2	8.3	6.7	219		•
15	**OXRM15**	27.8	31.2	8.3	7.1	231		•
16	**OXRM16**	28.4	33	9.8	7.4	243		•
17	**OXRM17**	30.5	35.1	9.9	7.8	255		•
18	**OXRM18**	31.8	37.1	10.4	8.2	267		•
19	**OXRM19**	32.4	39.4	10.9	8.6	279		•
21	**OXRM21**	39.5	43.2	13	9.4	314	•	
22	**OXRM22**	39.7	45.7	13	9.9	329	•	
24	**OXRM24**	46.1	448.8	14.1	10.5	358	•	

ASME® B107.100

Sets include storage tray.



OXKRM705



OXKRM707

Ratcheting Combination/Short Handle, 0° Offset, mm

	OXKRM705	OXKRM707

mm	12	A	B	C	D	E	12	12
6	**OXKRM6**	16	13.2	6.4	3.5	81		
7	**OXKRM7**	16	14.9	6.4	3.9	85		
8	**OXKRM8**	16.9	17	6.4	4.3	89		•
9	**OXKRM9**	18.2	19.1	6.8	4.7	93		•
10	**OXKRM10**	19.1	21.1	7.2	5.1	97		•
11	**OXKRM11**	21.1	23.4	7.6	5.5	101		•
12	**OXKRM12**	22.7	25.1	8.1	5.9	105		•
13	**OXKRM13**	24.0	27.2	8.2	6.3	110		•
14	**OXKRM14**	26.3	29.2	8.3	6.7	114		•
15	**OXKRM15**	27.8	31.2	8.3	7.1	118	•	
16	**OXKRM16**	28.4	33.0	9.8	7.4	122	•	
17	**OXKRM17**	30.5	35.1	9.9	7.8	127	•	
18	**OXKRM18**	31.8	37.1	10.4	8.2	131	•	
19	**OXKRM19**	32.4	39.4	10.9	8.6	135	•	

ASME® B107.100

Sets include storage tray.



OXKR707

Ratcheting Combination/Short Handle, 0° Offset, inches

Set Contains:	OXKR707

11	12	A	B	C	D	E	12
1/4	**OXKR8**	5/8	1/2	1/4	9/64	3-3/16	
5/16	**OXKR10**	21/32	43/64	1/4	11/64	3-17/32	
3/8	**OXKR12**	3/4	27/32	9/32	3/16	3-27/32	•
7/16	**OXKR14**	27/32	29/32	5/16	7/32	3-31/32	•
1/2	**OXKR16**	15/16	1-1/16	11/32	1/4	4-5/16	•
9/16	**OXKR18**	1-1/32	1-5/32	11/32	1/4	4-15/32	•
5/8	**OXKR20**	1-1/8	1-5/16	3/8	9/32	4-13/16	•
11/16	**OXKR22**	1-7/32	1-3/8	13/32	5/16	4-31/32	•
3/4	**OXKR24**	1-9/32	1-9/16	7/16	11/32	5-11/32	•

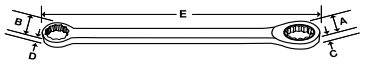
ASME® B107.100

Set includes storage tray.

Ratcheting Box, 0° Offset, mm

mm	12	A	B	C	D	E	Set Contains: XDLRM705K1 — 12	Set Contains: XDLRM705K2 — 12
8	XDLRM8	16.9	11.6	6.4	6.2	231		
9	XDLRM9	18.2	13	6.8	6.2	244		
10	XDLRM10	19.1	14.4	7.2	7.6	257		•
11	XDLRM11	21.1	15.6	7.6	8.5	270	•	
12	XDLRM12	22.7	17.1	8.1	8.9	282	•	
13	XDLRM13	24	18.7	8.2	8.9	295		•
14	XDLRM14	26.3	20.1	8.3	10.2	336	•	
15	XDLRM15	27.8	21.5	8.3	10.9	349		•
16	XDLRM16	28.4	22.6	9.8	11.2	362	•	
17	XDLRM17	30.5	23.7	9.9	11.3	375		•
18	XDLRM18	31.8	24.9	10.4	12.1	388	•	
19	XDLRM19	32.4	26.3	10.9	12.1	401		•

Sets include storage bag.





XDLRM705K1

Ratcheting Box, 0° Offset, inches

11	12	A	B	C	D	E	Set Contains: XDLR705 — 12
5/16	XDLR10	21/32	29/64	1/4	1/4	9-1/16	
3/8	XDLR12	3/4	9/16	9/32	19/64	10-3/32	•
7/16	XDLR14	27/32	39/64	5/16	11/32	10-39/64	•
1/2	XDLR16	15/16	23/32	11/32	23/64	11-5/8	•
9/16	XDLR18	1-1/32	13/16	11/32	13/32	13-1/4	•
5/8	XDLR20	1-1/8	57/64	3/8	7/16	14-1/4	
11/16	XDLR22	1-7/32	15/16	13/32	7/16	14-49/64	
3/4	XDLR24	1-9/32	1-3/64	7/16	31/64	15-51/64	•

Set includes storage bag.

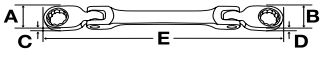


XDLR705

Flank Drive® Double Flex, mm

- 180° flexible ratcheting head combined with narrow width and low-height profile of wrench head allows for access into the tightest of spaces
- Yoke/tang combination utilizes well-established Snap-on® flex ratchet design for ultimate strength and durability
- Unique, patented ratcheting gear design is optimized to maximize ratcheting arc, strength, durability and access for the most balanced wrench available
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- 80-tooth ratcheting gear utilizes key elements of Snap-on® Dual 80® Technology, minimizing swing arc when working in restricted spaces
- Flank Drive® box-end system grips fastener flats to deliver up to 15–20% more turning power with less risk of fastener damage

mm	Stock No.	A	B	C	D	E	Set Contains: XFRM705 — 12
8, 10	XFRM810	16.9	19.1	9.8	10.4	330	•
12,14	XFRM1214	22.7	26.3	8.0	8.3	411	•
13,15	XFRM1315	24.0	26.3	8.2	8.6	413	•
16,18	XFRM1618	28.4	31.8	10.0	10.4	432	•
17,19	XFRM1719	30.5	32.4	10.1	10.9	470	•





XFRM1214

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

REVERSIBLE RATCHETING COMBINATION (Blue-Point®)



BOERM712

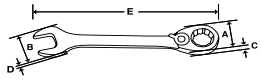
Ratcheting Combination/Standard Handle, 15° Offset, mm (Blue-Point®)

Set Contains: BOERM712 / BOERM704

mm	12	A	B	C	D	E	12	12
6	BOERM6	16.3	16.3	6.6	3.6	114.3		
6	BOERM7	16.5	16.4	6.6	3.9	125		
8	BOERM8	17.8	17.7	6.5	4.0	135	•	
9	BOERM9	19.5	20.0	7.4	4.0	150	•	
10	BOERM10	21.5	21.9	8.0	5.0	160	•	
11	BOERM11	22.0	23.9	8.5	5.5	170	•	
12	BOERM12	23.5	25.0	9.0	5.5	175	•	
13	BOERM13	25.0	25.9	10.0	6.3	180	•	
14	BOERM14	27.0	29.9	10.0	6.5	190	•	
15	BOERM15	28.5	31.1	11.0	7.0	200	•	
16	BOERM16	30.5	33.6	11.0	7.0	210	•	
17	BOERM17	32.0	36.5	12.0	7.0	230	•	
18	BOERM18	34.5	38.5	12.0	8.0	240	•	
19	BOERM19	36.5	38.7	12.9	8.7	250	•	
21	BOERM21	39.4	43.2	13.7	9.4	266.7		•
22	BOERM22	41.7	45.7	14.5	9.4	285.8		•
24	BOERM24	46.5	49.5	15.5	11.2	304.8		•
25	BOERM25	47.2	52.8	15.5	11.2	327.2		•

ASME® B107.100

Sets include storage tray.





BOER708

Ratcheting Combination/Standard Handle, 15° Offset, inches (Blue-Point®)

Set Contains: BOER708 / BOER704

11	12	A	B	C	D	E	12	12
7/32	BOER7	5/8	21/32	1/4	5/32	4-1/2		
1/4	BOER8	21/32	21/32	1/4	5/32	4-1/2		
5/16	BOER10	11/16	11/16	1/4	5/32	5-5/16	•	
11/32	BOER11	25/32	25/32	9/32	5/32	5-15/16		
3/8	BOER12	27/32	7/8	5/16	3/16	6-5/16	•	
7/16	BOER14	7/8	15/16	11/32	7/32	6-11/16	•	
1/2	BOER16	31/32	1-1/32	13/32	1/4	7-1/16	•	
9/16	BOER18	1-1/16	1-3/16	13/32	1/4	7-1/2	•	
5/8	BOER20	1-3/16	1-5/16	7/16	9/32	8-1/4	•	
11/16	BOER22	1-1/4	1-7/16	15/32	9/32	9-1/16	•	
3/4	BOER24	1-7/16	1-17/32	1/2	11/32	9-13/16	•	
13/16	BOER26	1-9/16	1-23/32	17/32	3/8	10-1/2		•
7/8	BOER28	1-21/32	1-27/32	9/16	3/8	11-1/4		•
15/16	BOER30	1-27/32	1-31/32	5/8	7/16	12		•
1	BOER32	1-7/8	2-3/32	5/8	7/16	12-7/8		•

ASME® B107.100

Set includes storage tray.



BOERMS712

Ratcheting Combination/Short Handle, 15° Offset, mm (Blue-Point®)

Set Contains: BOERMS712

mm	12	A	B	C	D	E	12
8	BOERMS8	17.8	17.7	6.5	4.0	90	•
9	BOERMS9	19.5	20.0	7.4	4.0	95	•
10	BOERMS10	21.5	21.9	8.0	5.0	100	•
11	BOERMS11	22.0	23.9	8.5	5.5	105	•
12	BOERMS12	23.5	25.0	9.0	5.5	110	•
13	BOERMS13	25.0	25.9	10.0	6.3	115	•
14	BOERMS14	27.0	29.9	10.0	6.5	120	•
15	BOERMS15	28.5	31.1	11.0	7.0	125	•
16	BOERMS16	30.5	33.6	11.0	7.0	128	•
17	BOERMS17	32.0	36.5	12.0	7.0	132	•
18	BOERMS18	34.5	38.5	12.0	8.0	138	•
19	BOERMS19	36.5	38.7	12.9	8.7	142	•

ASME® B107.100

Set includes storage tray.

Ratcheting Combination/Short Handle, 15° Offset, inches (Blue-Point®)

Set Contains: BOERS708

	12	A	B	C	D	E	12
5/16	**BOERS10**	11/16	11/16	1/4	5/32	3-9/16	•
3/8	**BOERS12**	27/32	7/8	5/16	3/16	3-15/16	•
7/16	**BOERS14**	7/8	15/16	11/32	7/32	4-1/8	•
1/2	**BOERS16**	31/32	1-1/32	13/32	1/4	4-1/2	•
9/16	**BOERS18**	1-1/16	1-3/16	13/32	1/4	4-3/4	•
5/8	**BOERS20**	1-3/16	1-5/16	7/16	9/32	5-1/16	•
11/16	**BOERS22**	1-1/4	1-7/16	15/32	9/32	5-3/16	•
3/4	**BOERS24**	1-7/16	1-17/32	1/2	11/32	5-9/16	•

ASME® B107.100

Set includes storage tray.



BOERS708

Flex Head Ratcheting Combination/Standard Handle, 15° Offset, mm (Blue-Point®)

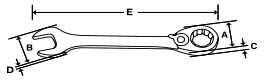
- Flex head pivots 90° in either direction to reach hard-to-get fasteners
- Reversible dual pawl ratcheting box end yields smooth operation and maximum strength
- 4.5° (5° or smaller wrenches) tooth engagement; less movement to engage the next tooth
- Tough, durable nickel-chrome finish

Set Contains: BOERMF712A

mm	12	A	B	C	D	E	12
8	**BOERMF8A**	17.8	17.7	6.5	4.0	142	•
9	**BOERMF9A**	19.5	20.0	7.4	4.0	152	•
10	**BOERMF10A**	21.5	21.9	8.0	5.0	162	•
11	**BOERMF11A**	22.0	23.9	8.5	5.5	172	•
12	**BOERMF12A**	23.5	25.0	9.0	5.5	180	•
13	**BOERMF13A**	25.0	25.9	10.0	6.3	188	•
14	**BOERMF14A**	27.0	29.9	10.0	6.5	196	•
15	**BOERMF15A**	28.5	31.1	11.0	7.0	204	•
16	**BOERMF16A**	30.5	33.6	11.0	7.0	214	•
17	**BOERMF17A**	32.0	36.5	12.0	7.0	228	•
18	**BOERMF18A**	34.5	38.5	12.0	8.0	242	•
19	**BOERMF19A**	36.5	38.7	12.9	8.7	256	•

ASME® B107.100

Set includes storage tray.





BOERMF712A

Flex Head Ratcheting Combination/Standard Handle, 15° Offset, inches (Blue-Point®)

Set Contains: BOERF708A

	12	A	B	C	D	E	12
5/16	**BOERF10A**	11/16	11/16	1/4	5/32	5-19/32	•
3/8	**BOERF12A**	27/32	7/8	5/16	3/16	6-3/8	•
7/16	**BOERF14A**	7/8	15/16	11/32	7/32	6-3/4	•
1/2	**BOERF16A**	31/32	1-1/32	13/32	1/4	7-13/32	•
9/16	**BOERF18A**	1-1/16	1-3/16	13/32	1/4	7-23/32	•
5/8	**BOERF20A**	1-3/16	1-5/16	7/16	9/32	8-7/16	•
11/16	**BOERF22A**	1-1/4	1-7/16	15/32	9/32	8-31/32	•
3/4	**BOERF24A**	1-7/16	1-17/32	1/2	11/32	10-1/16	•

ASME® B107.100

Set includes storage tray.



BOERF708A

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

REVERSIBLE RATCHETING COMBINATION (Blue-Point®)



BOERMSF712

Flex Head Ratcheting Combination/Midget Handle, 15° Offset, mm (Blue-Point®)

Set Contains: BOERMSF712

mm	12	A	B	C	D	E	12
8	BOERMSF8	17.8	17.7	6.5	4.0	94	•
9	BOERMSF9	19.5	20.0	7.4	4.0	98	•
10	BOERMSF10	21.5	21.9	8	5	103	•
11	BOERMSF11	22	23.9	8.5	5.5	108	•
12	BOERMSF12	23.5	25	9	5.5	111	•
13	BOERMSF13	25	25.9	10	6.3	115	•
14	BOERMSF14	27	29.9	10	6.5	120	•
15	BOERMSF15	28.5	31.1	11	7	124	•
16	BOERMSF16	30.5	33.6	11	7	128	•
17	BOERMSF17	32	36.5	12	7	133	•
18	BOERMSF18	34.5	38.5	12	8	140	•
19	BOERMSF19	36.5	38.7	12.9	8.7	147	•

ASME® B107.100

Set includes storage bag.



BOERSF708

Flex Head Ratcheting Combination/Midget Handle, 15° Offset, inches (Blue-Point®)

Set Contains: BOERSF708

11	12	A	B	C	D	E	12
5/16	BOERSF10	11/16	11/16	1/4	5/32	3-11/16	•
3/8	BOERSF12	27/32	7/8	5/16	3/16	4-1/16	•
7/16	BOERSF14	7/8	15/16	11/32	7/32	4-1/4	•
1/2	BOERSF16	31/32	1-1/32	13/32	1/4	4-17/32	•
9/16	BOERSF18	1-1/16	1-3/16	13/32	1/4	4-23/32	•
5/8	BOERSF20	1-3/16	1-5/16	7/16	9/32	5-1/32	•
11/16	BOERSF22	1-1/4	1-7/16	15/32	9/32	5-1/4	•
3/4	BOERSF24	1-7/16	1-17/32	1/2	11/32	5-25/32	•

ASME® B107.100

Set includes storage bag.

RATCHETING WRENCH ADAPTORS



RWA2

Ratcheting Wrench Adaptors

- Converts a ratcheting wrench into a ratchet
- Used with reversible ratcheting box wrenches, such as the SOXRR, SOXRRM, BOERM, BOERMF and BOERMS Series
- Can be used with the combination ratcheting box wrenches such as the OXR, OXRM, OXIR, and OXIRM series
- Reverse lever on wrench is used to secure or remove adaptor from the wrench
- Push button on adaptor is used to release the socket

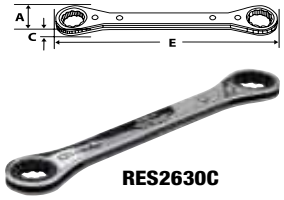
Stock No.	Configuration	Use with Ratcheting Wrench Size
RWA1	1/4″ Drive	13 mm
RWA2	3/8″ Drive	16 mm
RWA3	1/2″ Drive	19 mm
RWA4	1/4″ Hex	13 mm
RWA1FR	1/4″ Drive	1/2″
RWA2FR	3/8″ Drive	5/8″
RWA3FR	1/2″ Drive	3/4″
RWA4FR	1/4″ Hex	1/2″

RATCHETING BOX

Standard Handle Spline, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



RES2630C

	11	Stock No.	A	C	E	Number of Gear Teeth
#8–#10	1/4–5/16	RES810C	19/32–43/64	3/8	4-1/2	14–15
#12–#14	3/8–7/16	RES1214C	1-1/64–1-5/32	1/2	6-7/8	17–18
#18–#20	9/16–5/8	RES1820C	1-19/64–1-7/16	1/2	8-1/8	19–21
#26–#30	13/16–15/16	RES2630C	1-13/32–1-37/64	1/2	9-1/4	21–24

Standard Handle, 0° Offset, mm



mm	6	12	A	C	E
7–8	**RBM78SC**	**RBM78C**	15.1–17.1	9.5	114.3
8–10	—	**RBM810C**	20.2–22.6	9.5	139.7
9–10	—	**RBM910C**	20.2–22.6	9.5	139.7
10–11	**RBM1011SC**	**RBM1011C**	25.8–29.4	12.7	174.6
10–12	—	**RBM1012C**	25.8–29.4	12.7	174.6
12–13	**RBM1213SC**	**RBM1213C**	25.8–29.4	12.7	174.6
12–14	—	**RBM1214C**	25.8–29.4	12.7	174.6
14–15	—	**RBM1415C**	32.9–36.5	12.7	206.4
16–18	—	**RBM1618C**	32.9–36.5	12.7	206.4
17–19	—	**RBM1719C**	32.9–36.5	12.7	206.4



RBM1213C

Standard Handle, 0° Offset, inches

Set Contains: RB604C

	6	12	A	C	E	12
1/4–5/16	**R810SC**	**R810C**	19/32–43/64	3/8	4-1/2	
5/16–11/32	—	**R1011C**	5/8–3/4	11/32	5-3/8	
5/16–3/8	—	**R1012C**	51/64–57/64	3/8	5-1/2	
3/8–7/16	**R1214SC**	**R1214C**	51/64–57/64	3/8	5-1/2	•
1/2–9/16	**R1618SC**	**R1618C**	1-1/64–1-5/32	1/2	6-7/8	•
5/8–11/16	—	**R2022C**	1-19/64–1-7/16	1/2	8-1/8	•
5/8–3/4	—	**R2024C**	1-19/64–1-7/16	1/2	8-1/8	
3/4–13/16	—	**R2426C**	1-13/32–1-37/64	1/2	9-1/4	
3/4–7/8	—	**R2428C**	1-13/32–1-37/64	1/2	9-1/4	•
13/16–15/16	—	**R2630C**	1-13/32–1-37/64	1/2	9-1/4	
7/8–15/16	—	**R2830C**	1-29/32–2-17/64	9/16	15	
15/16–1	—	**R3032C**	1-29/32–2-17/64	9/16	15	
1-1/16–1-1/8	—	**R3436A‡**	2–2	9/16	12-3/4	
1-1/8–1-1/4	**R3640SA‡**	—	2-3/32–2-3/32	9/16	12-13/16	
1-3/16–1-1/4	—	**R3840A‡**	2–2	9/16	12-3/4	

Set includes storage tray.



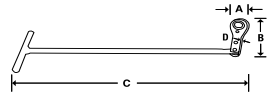
RB604C

T-Handle, mm

Set Contains: RTBM605 / RTBM505

mm	12	A	B	C	D	12	12
8	**RTBM8**	17.5	71.4	307.2	9.5	•	
10	**RTBM10**	23.0	76.2	307.2	9.5	•	
12	**RTBM12**	29.4	86.5	308.8	12.7	•	
13	**RTBM13**	29.4	86.5	308.8	12.7	•	
14	**RTBM14**	29.4	86.5	308.8	12.7	•	
15	**RTBM15**	36.8	98.6	308.8	12.7		•
16	**RTBM16**	36.8	98.6	308.8	12.7		•
17	**RTBM17**	36.8	98.6	308.8	12.7		•
18	**RTBM18**	36.8	98.6	308.8	12.7		•
19	**RTBM19**	36.8	98.6	308.8	12.7		•

Sets include storage tray.





RTBM605

T-Handle, inches

Set Contains: RTB607

	12	A	B	C	D	12
1/4	**RTB8**	11/16	2-13/16	12-3/32	3/8	•
5/16	**RTB10**	11/16	2-13/16	12-3/32	3/8	•
11/32	**RTB11**	29/32	3	12-3/32	3/8	•
3/8	**RTB12**	29/32	3	12-3/32	3/8	•
7/16	**RTB14**	29/32	3	12-3/32	3/8	•
1/2	**RTB16**	1-5/32	3-13/32	12-5/32	1/2	•
9/16	**RTB18**	1-5/32	3-13/32	12-5/32	1/2	•

Set includes storage tray.



RTB607

⚠WARNING

- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

RATCHETING BOX (Blue-Point®)



BXORM706

Reversible/Standard Handle, 25° Offset, mm (Blue-Point®)

Set Contains: BXORM706

mm	12	A	C	E	12
8–9	BXORM89	18.0–19.3	6.4–7.6	184.2	•
10–11	BXORM1011	21.8–22.1	8.1–8.6	203.2	•
12–13	BXORM1213	23.6–24.6	8.9–10.2	222.3	•
14–15	BXORM1415	27.2–28.7	10.2–10.9	241.3	•
16–17	BXORM1617	31.0–32.0	10.9–11.9	260.4	•
18–19	BXORM1819	34.5–36.8	12.2–13.2	279.4	•

Set includes storage tray.



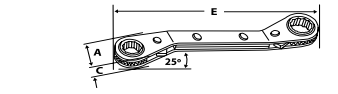
BXOR704

Reversible/Standard Handle, 25° Offset, inches (Blue-Point®)

Set Contains: BXOR704

	12	A	C	E	12
5/16–3/8	BXOR1012	23/32–7/8	1/4–5/16	7-1/2	•
7/16–1/2	BXOR1416	7/8–31/32	11/32–11/32	8-3/4	•
9/16–5/8	BXOR1820	1-1/16–1-7/32	13/32–7/16	9-3/4	•
11/16–3/4	BXOR2224	1-9/32–1-7/16	15/32–1/2	11	•

Set includes storage tray.



RBYAM605

Standard Handle, 25° Offset, mm (Blue-Point®)

Set Contains: RBYAM605

mm	12	A	C	E	12
7–8	RYAM78	15.5–16.3	9.5	105.2	•
9–10	RYAM910	19.8–22.6	9.5	134.5	•
11–12	RYAM1112	25.4–29	12.7	165.9	•
13–14	RYAM1314	25.4–29	12.7	165.9	•
15–17	RYAM1517	33–36.5	12.7	197.2	•
16–18	RYAM1618	33–36.5	12.7	197.2	
19–21	RYAM1921	35.7–40.1	12.7	224.2	

Set includes storage tray.



RBYA605

Standard Handle, 25° Offset, inches (Blue-Point®)

Set Contains: RBYA605

	12	A	C	E	12
1/4–5/16	RYA810	9/16–5/8	11/32	4-9/32	•
5/16–11/32	RYA1011	19/32–11/16	3/8	4-1/32	
3/8–7/16	RYA1214	3/4–7/8	11/32	6-5/32	•
1/2–9/16	RYA1618	15/16–1	13/32	6-31/32	•
9/16–3/4	RYA1824	1-9/32–1-7/16	1/2	8	
5/8–11/16	RYA2022	1-1/8–1-1/4	13/32	7-27/32	•
3/4–7/8	RYA2428	1-3/8–1-1/2	7/16	8-5/8	•

Set includes storage tray.

Latch-on® Head, 0° Offset, mm (Blue-Point®)

- Latch-on® head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

Set Contains: RBZM605

mm	12	A	C	E	12
7–8	**RBZM78**	15.1–17.1	9.5	114.3	•
9–10	**RBZM910**	20.4–22.6	9.5	140.3	•
11–12	**RBZM1112**	25.8–29.4	12.7	174.6	•
13–14	**RBZM1314**	25.8–29.4	12.7	174.6	•
15–17	**RBZM1517**	32.9–36.5	12.7	206.4	•
16–18	**RBZM1618**	32.9–36.5	12.7	206.4	
19–21	**RBZM1921**	35.7–40.1	12.7	234.9	

Set includes storage tray.



RBZM605

Latch-on® Head, 0° Offset, inches (Blue-Point®)

- Latch-on® head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

Set Contains: RBZ605

	12	A	C	E	12
1/4–5/16	**RBZ810**	19/32–11/16	3/8	4-1/2	•
3/8–7/16	**RBZ1214**	13/16–29/32	3/8	5-1/2	•
1/2–9/16	**RBZ1618**	1-1/32–1-5/32	1/2	6-7/8	•
5/8–11/16	**RBZ2022**	1-5/16–1-7/16	1/2	8-1/8	•
3/4–7/8	**RBZ2428**	1-13/32–1-19/32	1/2	9-1/4	•

Set includes storage tray.





RBZ605

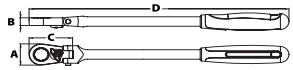
Locking Flex Head Ratcheting Box/Cushion Grip, mm (Blue-Point®)

Set Contains: BOERMFLCG712

mm	12	A	B	C	D	12
8	**BOERMFLCG8**	17.8	6.55	32	228	•
9	**BOERMFLCG9**	19.5	7.45	34	229	•
10	**BOERMFLCG10**	21.5	8.05	38	233	•
11	**BOERMFLCG11**	22	8.55	40	235	•
12	**BOERMFLCG12**	23.5	9.05	42	285	•
13	**BOERMFLCG13**	25	10.05	45	287	•
14	**BOERMFLCG14**	27	10.05	48	289	•
15	**BOERMFLCG15**	28.5	11.05	52	293	•
16	**BOERMFLCG16**	30.5	11.05	54	347	•
17	**BOERMFLCG17**	32	12.05	56	348	•
18	**BOERMFLCG18**	34.5	12.05	60	352	•
19	**BOERMFLCG19**	36.5	12.95	64	354	•

ASME® B107.100

Set includes storage bag.





BOERMFLCG712

Locking Flex Head Ratcheting Box/Cushion Grip, inches (Blue-Point®)

Set Contains: BOERFLCG708

	12	A	B	C	D	12
5/16	**BOERFLCG10**	23/32	1/4	1-1/4	9	•
3/8	**BOERFLCG12**	27/32	5/16	1-1/2	9-1/4	•
7/16	**BOERFLCG14**	7/8	11/32	1-9/16	9-19/32	•
1/2	**BOERFLCG16**	31/32	13/32	1-25/32	11-9/32	•
9/16	**BOERFLCG18**	1-1/16	13/32	1-29/32	11-3/8	•
5/8	**BOERFLCG20**	1-7/32	7/16	2-1/8	13-21/32	•
11/16	**BOERFLCG22**	1-1/4	15/32	2-7/32	13-23/32	•
3/4	**BOERFLCG24**	1-7/16	1/2	2-17/32	13-15/16	•

ASME® B107.100

Set includes storage bag.



BOERFLCG708

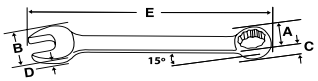
⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® PLUS COMBINATION



SOEXM710





SOEXM02FMBR

Standard Handle, mm

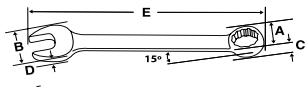
Snap-on® Flank Drive® Plus combination wrenches exceed the limits of any other open-end design. The open end features a series of flutes or notches that grip a fastener away from its corners, much like our box ends do. Force is directed away from the weaker corners of the nut and directed to the stronger flats.

- FLANK DRIVE® PLUS WRENCHING SYSTEM: Provides flat-to-flat contact with fasteners; prevents slipping and rounding of fasteners; up to 62% more turning power and strength
- LEVERAGE: Longer length is sized for optimum comfort and balance; increased leverage, comfort and balance
- ACCESSIBLE: Handle is offset 15° from the box end for maximum knuckle clearance and increased access in any space
- VERSATILE: 7.5° rotation away from handle; wrench can be flipped for a better grip in tight spaces
- POWERFUL: Continuous arc design; distributes stress evenly, wrench end will not spread or widen
- STRONG: Manufactured from special alloy steel; precision-forged, cold formed and heat treated; nickel-chrome plating; optimum corrosion protection, strength and durability
- FLANK DRIVE® WRENCHING SYSTEM: Provides flat-to-flat contact with fasteners; prevents slipping and rounding of fasteners; providing up to 20% more turning power and strength

							Set Contains:	SOEXM710*	SOEXM707*	SOEXM705*	SOEXM01FMBR**	SOEXM02FMBR**
mm	12	A	B	C	D	E	12	12	12	12	12	12
7	SOEXM7	11	15	5	4	135				•		
8	SOEXM8	13	17	6	4	146				•		
9	SOEXM9	14	19	6	5	159				•		
10	SOEXM10	15	21	7	5	171	•	•		•		
11	SOEXM11	17	23	8	6	184	•	•		•		
12	SOEXM12	18	25	8	6	195	•	•		•		
13	SOEXM13	20	27	9	6	207	•	•		•		
14	SOEXM14	21	29	9	7	219	•	•		•		
15	SOEXM15	22	31	10	7	231	•	•		•		
16	SOEXM16	24	33	10	7	242	•			•		
17	SOEXM17	25	35	11	8	255	•	•		•		
18	SOEXM18	27	37	12	8	267	•			•		
19	SOEXM19	28	39	12	9	279	•			•		
20	SOEXM20	30	41	13	9	292			•			•
21	SOEXM21	31	43	13	9	304			•			•
22	SOEXM22	33	46	14	10	318			•			•
23	SOEXM23	34	47	14	10	327			•			•
24	SOEXM24	35	49	15	11	337			•			•
25	SOEXM25	37	52	16	11	356						•

ASME® B107.100

*Sets include storage tray.
**Sets include foam organizer.





SOEX710



SOEX01FMBR

Standard Handle, inches

Selection, convenience and quality. Flank Drive® Plus combination wrenches are available in many different styles and sizes. Just like all Snap-on® wrenches, they are sized for optimum comfort and balance in the user's hand. Tough, durable nickel-chrome plating produces a mirror-like finish that helps protect against corrosion and makes it easy to wipe clean.

							Set Contains: SOEX710*	SOEX707*	SOEX703K1*	SOEX704*	SOEX01FMBR **	SOEX02FMBR**
	12	A	B	C	D	E	12	12	12	12	12	12
1/4	**SOEX8**	13/32	17/32	3/16	5/32	5					•	
5/16	**SOEX10**	1/2	21/32	7/32	5/32	5-3/4	•				•	
11/32	**SOEX11**	17/32	23/32	1/4	3/16	6-1/8					•	
3/8	**SOEX12**	19/32	25/32	1/4	3/16	6-1/2	•	•			•	
7/16	**SOEX14**	21/32	29/32	9/32	7/32	7-1/4	•	•			•	
1/2	**SOEX16**	3/4	1-1/16	11/32	1/4	8	•	•			•	
9/16	**SOEX18**	27/32	1-5/32	3/8	9/32	8-3/4	•	•			•	
5/8	**SOEX20**	15/16	1-5/16	13/32	9/32	9-1/2	•	•			•	
11/16	**SOEX22**	1-1/32	1-13/32	7/16	5/16	10-1/4	•	•			•	
3/4	**SOEX24**	1-1/8	1-9/16	15/32	11/32	11	•	•			•	
13/16	**SOEX26**	1-3/16	1-21/32	17/32	3/8	11-3/4	•				•	
7/8	**SOEX28**	1-9/32	1-13/16	9/16	3/8	12-1/2	•				•	
15/16	**SOEX30**	1-3/8	1-29/32	19/32	13/32	13-1/4				•	•	
1	**SOEX32**	1-15/32	2-1/32	5/8	7/16	14				•		•
1-1/16	**SOEX34**	1-9/16	2-5/32	19/32	15/32	14-3/4				•		•
1-1/8	**SOEX36**	1-5/8	2-5/16	11/16	15/32	15-17/32				•		•
1-3/16	**SOEX38**	1-23/32	2-13/32	23/32	1/2	16-1/4			•			•
1-1/4	**SOEX40**	1-13/16	2-9/16	3/4	17/32	17			•			•
1-5/16	**SOEX42**	1-29/32	2-21/32	3/4	9/16	17-25/32			•			•

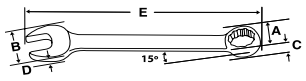
ASME® B107.100

*Sets include storage tray.
**Sets include foam storage tray.

WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® PLUS COMBINATION





SOEXLM710B

Long Handle, mm

Set Contains: SOEXLM710B

mm	12	A	B	C	D	E	12
10	**SOEXLM10B**	15	21	7	5	186	•
11	**SOEXLM11B**	17	23	8	6	204	•
12	**SOEXLM12B**	18	25	8	6	218	•
13	**SOEXLM13B**	20	27	9	6	234	•
14	**SOEXLM14B**	21	29	9	7	250	•
15	**SOEXLM15B**	22	31	10	7	266	•
16	**SOEXLM16B**	24	33	10	7	280	•
17	**SOEXLM17B**	25	35	11	8	298	•
18	**SOEXLM18B**	27	37	12	8	314	•
19	**SOEXLM19B**	28	39	12	9	331	•

Set includes storage tray.



SOEXL707B

Long Handle, inches

Set Contains: SOEXL707B

	12	A	B	C	D	E	12
3/8	**SOEXL12B**	19/32	25/32	1/4	3/16	7	•
7/16	**SOEXL14B**	21/32	29/32	9/32	7/32	8	•
1/2	**SOEXL16B**	3/4	1-1/16	11/32	1/4	9	•
9/16	**SOEXL18B**	27/32	1-5/32	3/8	9/32	10	•
5/8	**SOEXL20B**	15/16	1-5/16	13/32	9/32	11	•
11/16	**SOEXL22B**	1-1/32	1-13/32	7/16	5/16	12	•
3/4	**SOEXL24B**	1-1/8	1-9/16	15/32	11/32	13	•
13/16	**SOEXL26B**	1-3/16	1-21/32	17/32	3/8	14	
7/8	**SOEXL28B**	1-9/32	1-13/16	9/16	3/8	15	
15/16	**SOEXL30B**	1-3/8	1-29/32	19/32	13/32	16	
1	**SOEXL32B**	1-15/32	2-1/32	5/8	7/16	17	

Set includes storage tray.



SOEXM150

Short Handle, mm

mm	12	A	B	C	D	E
10	**SOEXM100**	15	21	7	5	133
11	**SOEXM110**	17	23	8	6	138
12	**SOEXM120**	18	25	8	6	143
13	**SOEXM130**	20	27	9	6	148
14	**SOEXM140**	21	29	9	7	152
15	**SOEXM150**	22	31	10	7	157
17	**SOEXM170**	25	35	11	8	167



OSHM713



OSHM707B



OEXM713B



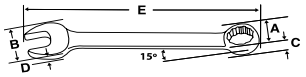
OEXM710B



OEXM707B



OEXM706



Standard Handle, mm

mm	6	12	A	B	C	D	E	Set Contains: OSHM713	OSHM707B*	OEXM725KB**	OEXM723KB**	OEXM713B*	OEXM710B*	OEXM707B*	OEXM705**	OEXM706**
								6	6	12	12	12	12	12	12	12
7	OSHM70B	—	11	15	5	4	135	•								
8	OSHM80B	OEXM80B	13	17	6	4	146	•		•	•					
9	OSHM90B	OEXM90B	14	19	6	5	159	•		•	•					
10	OSHM100B	OEXM100B	15	21	7	5	171	•	•	•	•	•	•	•		
11	OSHM110B	OEXM110B	17	23	8	6	184	•	•	•	•	•	•	•		
12	OSHM120B	OEXM120B	18	25	8	6	195	•	•	•	•	•	•	•		
13	OSHM130B	OEXM130B	20	27	9	6	207	•	•	•	•	•	•	•		
14	OSHM140B	OEXM140B	21	29	9	7	219	•	•	•	•	•	•	•		
15	OSHM150B	OEXM150B	22	31	10	7	231	•	•	•	•	•	•	•		
16	OSHM160B	OEXM160B	24	33	10	7	242	•		•	•	•	•			
17	OSHM170B	OEXM170B	25	35	11	8	255	•	•	•	•	•	•	•		
18	OSHM180B	OEXM180B	27	37	12	8	267	•		•	•	•	•			
19	OSHM190B	OEXM190B	28	39	12	9	279	•		•	•	•	•			
20	—	OEXM200B	30	41	13	9	292			•	•	•			•	
21	—	OEXM210B	31	43	13	9	304			•	•	•			•	
22	—	OEXM220B	33	46	14	10	318			•	•	•			•	
23	—	OEXM230B	34	47	14	10	327			•	•				•	
24	—	OEXM240B	35	49	15	11	337			•	•				•	
25	—	OEXM250B	37	52	16	11	356			•	•					•
26	—	OEXM260B	38	53	16	11	363				•					•
27	—	OEXM270B	39	55	17	12	375			•	•					•
28	—	OEXM280B	40	56	17	12	375				•					•
29	—	OEXM290B	42	58	18	12	394			•	•					•
30	—	OEXM300B	44	61	19	13	413			•	•					•
32	—	OEXM320B	46	65	19	14	432			•	•					
34	—	OEXM340B	48	68	19	14	452			•						
36	—	OEXM360B	53	74	22	15	489			•						

ASME®/ANSI® B107.100

*Set includes storage tray.
**Set includes storage bag.

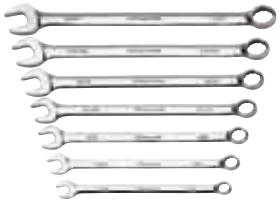
⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® COMBINATION



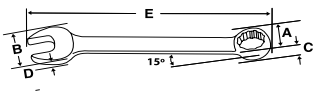
OSH711B



OEX707B



OEX704B



Standard Handle, inches

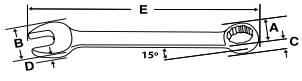
								OSH711B*	OSH707B*	OSH713B*	OEX724KB**	OEX714KB**	OEX710*	OEX709B*	OEX707B*	OEX703K1**	OEX703K2**	OEX704B**	OEX711B*
11	6	12	A	B	C	D	E	6	6	12	12	12	12	12	12	12	12	12	12
1/4	—	OEX8B	13/32	17/32	3/16	5/32	5				•								
5/16	OSH10B	OEX10B	1/2	21/32	7/32	5/32	5-3/4			•	•		•						
11/32	OSH11B	OEX11B	17/32	3/4	1/4	3/16	6-1/8			•	•								
3/8	OSH12B	OEX12B	19/32	13/16	5/16	3/16	6-1/2	•	•	•	•	•	•	•	•				•
7/16	OSH14B	OEX14B	21/32	29/32	5/16	7/32	7-1/4	•	•	•	•	•	•	•	•				•
1/2	OSH16B	OEX16B	3/4	1-1/16	11/32	1/4	8	•	•	•	•	•	•	•	•				•
9/16	OSH18B	OEX18B	27/32	1-3/16	3/8	9/32	8-3/4	•	•	•	•	•	•	•	•				•
5/8	OSH20B	OEX20B	15/16	1-5/16	13/32	9/32	9-1/2	•	•	•	•	•	•	•	•				•
11/16	OSH22B	OEX22B	1-1/32	1-13/32	7/16	5/16	10-1/4	•	•	•	•	•	•	•	•				•
3/4	OSH24B	OEX24B	1-1/8	1-9/16	15/32	11/32	11	•	•	•	•	•	•	•	•				•
13/16	OSH26B	OEX26B	1-3/16	1-21/32	17/32	3/8	11-3/4	•		•	•	•	•	•					•
7/8	OSH28B	OEX28B	1-9/32	1-13/16	9/16	3/8	12-1/2	•		•	•	•	•	•					•
15/16	OSH30B	OEX30B	1-3/8	1-29/32	19/32	13/32	13-1/4	•		•	•	•						•	•
1	OSH32B	OEX32B	1-15/32	2-1/32	21/32	7/16	14	•		•	•	•						•	•
1-1/16	—	OEX34B	1-9/16	2-3/16	11/16	15/32	14-3/4				•	•						•	
1-1/8	—	OEX36B	1-5/8	2-5/16	11/16	17/32	15-7/16				•	•						•	
1-3/16	—	OEX38B	1-3/4	2-7/16	3/4	1/2	16-5/16				•						•		
1-1/4	—	OEX40B	1-13/16	2-9/16	3/4	17/32	17-1/16				•	•					•		
1-5/16	—	OEX42B	1-29/32	2-21/32	3/4	9/16	17-13/16				•						•		
1-3/8	—	OEX44B	2	2-13/16	3/4	19/32	18-9/16				•							•	
1-7/16	—	OEX46B	2-1/16	2-29/32	7/8	19/32	19-1/32				•							•	
1-1/2	—	OEX48B	2-5/32	3-1/16	7/8	5/8	20-1/16				•							•	
1-9/16	—	OEX50B	2-1/4	3-3/16	7/8	23/32	20-13/16				•								
1-5/8	—	OEX52B	2-11/32	3-11/32	7/8	11/16	21-9/16				•								
1-11/16	—	OEX54A	2-7/16	3-13/32	7/8	23/32	22-9/32												
1-3/4	—	OEX56A	2-17/32	3-9/16	1-1/32	23/32	22-7/8												
1-13/16	—	OEX58A	2-5/8	3-21/32	1-1/32	3/4	23-15/32												
1-7/8	—	OEX60A	2-11/32	3-13/16	1-1/32	25/32	24-1/32												
2	—	OEX64A	2-7/8	4-1/16	1-1/32	27/32	25-1/4												

ASME® B107.100
OEX32B – OEX52B are full polished chrome. OEX54A – OEX64A are satin finish chrome.

*Set includes storage tray.
**Set includes storage bag.



GOEXM715



Standard Handle, mm, Industrial

mm	12	A	B	C	D	E	Set Contains: GOEXM715 12
10	GOEXM100B	15	21	7	5	171	•
11	GOEXM110B	17	23	8	6	184	•
12	GOEXM120B	18	25	8	6	195	•
13	GOEXM130B	20	27	9	6	207	•
14	GOEXM140B	21	29	9	7	219	•
15	GOEXM150B	22	31	10	7	231	•
16	GOEXM160B	24	33	10	7	242	•
17	GOEXM170B	25	35	11	8	255	•

mm	12	A	B	C	D	E	Set Contains: GOEXM715 12
18	GOEXM180B	27	37	12	8	267	•
19	GOEXM190B	28	39	12	9	279	•
20	GOEXM200B	30	41	13	9	292	•
21	GOEXM210B	31	43	13	10	304	•
22	GOEXM220B	33	46	14	10	318	•
23	GOEXM230B	34	47	14	10	327	•
24	GOEXM240B	35	49	15	11	337	•
27	GOEXM270B	39	55	17	12	375	

ASME®/ANSI® B107.100

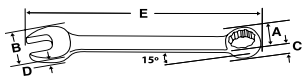
Set includes storage tray.



GOEX722K



GOEX711B





GOEX56A



GOEX1100A

Standard Handle, inches, Industrial

							Set Contains: GOEX722K***	GOEX714KB**	GOEX711B*	GOEX707B*
12	12	A	B	C	D	E	12	12	12	12
5/16	GOEX10B	1/2	21/32	7/32	5/32	5-3/4	•			
3/8	GOEX12B	19/32	13/16	5/16	3/16	6-1/2	•	•	•	•
7/16	GOEX14B	21/32	29/32	5/16	7/32	7-1/4	•	•	•	•
1/2	GOEX16B	3/4	1-1/16	11/32	1/4	8	•	•	•	•
9/16	GOEX18B	27/32	1-3/16	3/8	9/32	8-3/4	•	•	•	•
5/8	GOEX20B	15/16	1-5/16	13/32	9/32	9-1/2	•	•	•	•
11/16	GOEX22B	1-1/32	1-13/32	7/16	5/16	10-1/4	•	•	•	•
3/4	GOEX24B	1-1/8	1-9/16	15/32	11/32	11	•	•	•	•
13/16	GOEX26B	1-3/16	1-21/32	17/32	3/8	11-3/4	•	•	•	
7/8	GOEX28B	1-9/32	1-13/16	9/16	3/8	12-1/2	•	•	•	
15/16	GOEX30B	1-3/8	1-29/32	19/32	13/32	13-1/4	•	•	•	
1	GOEX32B	1-15/32	2-1/32	21/32	7/16	14	•	•	•	
1-1/16	GOEX34B	1-9/16	2-3/16	11/16	15/32	14-3/4	•	•		
1-1/8	GOEX36B	1-5/8	2-5/16	11/16	17/32	15-7/16	•	•		
1-3/16	GOEX38B	1-3/4	2-7/16	3/4	1/2	16-5/16	•			
1-1/4	GOEX40B	1-13/16	2-9/16	3/4	17/32	17-1/16	•	•		
1-5/16	GOEX42B	1-29/32	2-21/32	3/4	9/16	17-13/16	•			
1-3/8	GOEX44B	2	2-13/16	3/4	19/32	18-9/16	•			
1-7/16	GOEX46B	2-1/16	2-29/32	7/8	19/32	19-1/32	•			
1-1/2	GOEX48B	2-5/32	3-1/16	7/8	5/8	20-1/16	•			
1-9/16	GOEX50B	2-1/4	3-3/16	7/8	23/32	20-13/16	•			
1-5/8	GOEX52B	2-11/32	3-11/32	7/8	11/16	21-9/16	•			
1-3/4	GOEX56A	2-17/32	3-9/16	1-1/32	23/32	22-7/8				
1-13/16	GOEX58A	2-5/8	3-21/32	1-1/32	3/4	23-15/32				
1-7/8	GOEX60A	2-11/32	3-13/16	1-1/32	25/32	24-1/32				
2	GOEX64A	2-7/8	4-1/16	1-1/32	27/32	25-1/4				
2-1/16	GOEX66A	2-31/32	4-5/32	1-1/8	27/32	25-25/32				
2-1/8	GOEX68A	3-1/16	4-5/16	1-5/32	7/8	26-3/8				
2-3/16	GOEX70A	3-1/8	4-13/32	1-1/8	7/8	26-31/32				
2-1/4	GOEX72A	3-7/32	4-9/16	1-1/8	15/16	27-9/16				
2-3/8	GOEX76A	3-13/32	4-13/16	1-9/32	31/32	28-3/4				
2-1/2	GOEX80A	3-19/32	5-1/16	1-9/32	1	29-29/32				
2-5/8	GOEX84A	4-7/8	6-5/8	1-5/8	1-3/16	32				
2-3/4	GOEX88A	4-7/8	6-5/8	1-5/8	1-3/16	32				
2-7/8	GOEX92A	4-7/8	6-5/8	1-5/8	1-3/16	32				
2-15/16	GOEX94A	4-7/8	6-5/8	1-5/8	1-3/16	32				
3	GOEX96A	4-7/8	6-5/8	1-5/8	1-3/16	32				
3-1/8	GOEX1100A	4-7/8	6-5/8	1-5/8	1-3/16	32				
3-3/8	GOEX1108A	4-7/8	6-5/8	1-5/8	1-3/16	32				
3-1/2	GOEX1112A	4-7/8	6-5/8	1-5/8	1-3/16	32				

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*Set includes storage tray.
**Set includes storage bag.
***Set includes storage bag C2200.

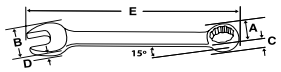
⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® COMBINATION



OEXLM710B





OEXL707B

Long Handle, mm

mm	12	A	B	C	D	E	Set Contains: OEXLM710B 12	OEXLM707B 12
10	OEXLM10B	15	21	7	5	186	•	•
11	OEXLM11B	17	23	8	6	203	•	•
12	OEXLM12B	18	25	8	6	218	•	•
13	OEXLM13B	20	27	9	6	234	•	•
14	OEXLM14B	21	29	9	7	250	•	•
15	OEXLM15B	22	31	10	7	266	•	•
16	OEXLM16B	24	33	10	7	282	•	
17	OEXLM17B	25	35	11	8	298	•	•
18	OEXLM18B	27	37	12	8	314	•	
19	OEXLM19B	28	39	12	9	330	•	

ASME® B107.100

Sets include storage tray.

Long Handle, inches

12	A	B	C	D	E	Set Contains: OEXL707B 12
OEXL12B	19/32	25/32	1/4	3/16	7	•
OEXL14B	21/32	29/32	5/16	7/32	8	•
OEXL16B	3/4	1-1/16	11/32	1/4	9	•
OEXL18B	27/32	1-5/32	3/8	9/32	10	•
OEXL20B	15/16	1-5/16	13/32	9/32	11	•
OEXL22B	1-1/32	1-13/32	7/16	5/16	12	•
OEXL24B	1-1/8	1-9/16	15/32	11/32	13	•
OEXL26B	1-3/16	1-21/32	17/32	3/8	14	
OEXL28B	1-9/32	1-13/16	9/16	3/8	15	
OEXL30B	1-3/8	1-29/32	19/32	13/32	16	
OEXL32B	1-15/32	2-1/32	5/8	7/16	17	

ASME® B107.100

Set includes storage tray.



GOEXM17B



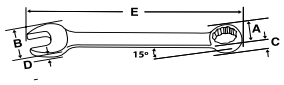
OEXSM710B

Short Handle, mm

mm	12	12	A	B	C	D	E	Set Contains: OEXSM719 12	OEXSM714K** 12	OEXSM710B* 12
6	OEXM6B	GOEXM6B	10	13	5	4	113	•	•	
7	OEXM7B	GOEXM7B	11	15	5	4	118	•	•	
8	OEXM8B	GOEXM8B	13	17	6	4	123	•	•	
9	OEXM9B	GOEXM9B	14	19	6	5	128	•	•	
10	OEXM10B	GOEXM10B	15	21	7	5	133	•	•	•
11	OEXM11B	GOEXM11B	17	23	8	6	138	•	•	•
12	OEXM12B	GOEXM12B	18	25	8	6	142	•	•	•
13	OEXM13B	GOEXM13B	20	27	9	6	148	•	•	•
14	OEXM14B	GOEXM14B	21	29	9	7	152	•	•	•
15	OEXM15B	GOEXM15B	22	31	10	7	157	•	•	•
16	OEXM16B	GOEXM16B	24	33	10	7	162	•	•	•
17	OEXM17B	GOEXM17B	25	35	11	8	167	•	•	•
18	OEXM18B	GOEXM18B	27	37	12	8	172	•	•	•
19	OEXM19B	GOEXM19B	28	39	12	9	177	•	•	•
20	OEXM20B	—	30	41	13	9	182	•		
21	OEXM21B	—	31	43	13	9	186	•		
22	OEXM22B	—	31	43	13	9	186	•		
23	OEXM23B	—	34	47	14	10	197	•		
24	OEXM24B	—	35	49	15	11	201	•		

ASME® B107.100

*Sets include storage tray.
**Sets include storage bag C1402.





GOEX200B

Short Handle, inches

								Set Contains: OEXS721	OEXS715K**	OEXS709B*
	12	12	A	B	C	D	E	12	12	12
1/4	OEX080B	GOEX080B	13/32	17/32	3/16	5/32	4-17/32	•	•	
9/32	OEX090B	—	7/16	19/32	7/32	5/32	4-21/32	•	•	
5/16	OEX100B	GOEX100B	1/2	21/32	7/32	5/32	4-27/32	•	•	•
11/32	OEX110B	GOEX110B	17/32	23/32	1/4	3/16	5	•	•	•
3/8	OEX120B	GOEX120B	19/32	25/32	1/4	3/16	5-1/8	•	•	•
7/16	OEX140B	GOEX140B	21/32	29/32	5/16	7/32	5-7/16	•	•	•
1/2	OEX160B	GOEX160B	3/4	1-1/16	11/32	1/4	5-3/4	•	•	•
9/16	OEX180B	GOEX180B	27/32	1-5/32	3/8	9/32	6-1/16	•	•	•
5/8	OEX200B	GOEX200B	15/16	1-5/16	13/32	9/32	6-11/32	•	•	•
11/16	OEX220B	GOEX220B	1-1/32	1-13/32	7/16	5/16	6-21/32	•	•	•
3/4	OEX240B	GOEX240B	1-1/8	1-9/16	15/32	11/32	6-31/32	•	•	•
13/16	OEX260B	GOEX260B	1-3/16	1-21/32	17/32	3/8	7-9/32	•	•	
7/8	OEX280B	GOEX280B	1-9/32	1-13/16	9/16	3/8	7-9/16	•	•	
15/16	OEX300B	GOEX300B	1-3/8	1-29/32	19/32	13/32	7-7/8	•	•	
1	OEX320B	GOEX320B	1-15/32	2-1/32	5/8	7/16	8-3/16	•	•	
1-1/16	OEX340B	—	1-9/16	2-5/32	21/32	15/32	8-17/32	•		
1-1/8	OEX360B	—	1-5/8	2-5/16	11/16	1/2	8-27/32	•		
1-3/16	OEX380B	—	1-23/32	2-13/32	23/32	1/2	9-1/8	•		
1-1/4	OEX400B	—	1-13/16	2-9/16	3/4	17/32	9-7/16	•		
1-5/16	OEX420B	—	1-29/32	2-21/32	3/4	9/16	9-3/4	•		
1-3/8	OEX440B	—	2	2-13/16	3/4	19/32	10-1/16	•		

ASME® B107.100

*Set includes storage tray.
**Set includes storage bag.



OEXS715K



OEXS709B

Midget, mm

									Set Contains: Style	OXIM707SBK** 6	OXIM710B* 12
mm	6	12	A	B	C	D	E				
4	OXIM4SB	—	7	10	4	3	72	6-Point	•	
5	OXIM5SB	—	8	12	4	3	76	6-Point	•	
5.5	OXIM55SB	—	9	13	4	4	79	6-Point	•	
6	OXIM6SB	OXIM6B	10	13	5	4	81	12-Point	•	
7	OXIM7SB	OXIM7B	11	15	5	4	85	6-Point	•	
8	OXIM8SB	OXIM8B	13	17	6	4	89	6-Point	•	
9	OXIM9SB	OXIM9B	14	19	6	5	93	6-Point	•	
10	—	OXIM10B	15	21	7	5	98	12-Point		•
11	—	OXIM11B	17	23	8	6	102	12-Point		•
12	—	OXIM12B	18	25	8	6	106	12-Point		•
13	—	OXIM13B	20	27	9	6	110	12-Point		•
14	—	OXIM14B	21	29	9	7	115	12-Point		•
15	—	OXIM15B	22	31	10	7	119	12-Point		•
16	—	OXIM16B	24	33	10	7	122	12-Point		•
17	—	OXIM17B	25	35	11	8	127	12-Point		•
18	—	OXIM18B	27	37	12	8	131	12-Point		•
19	—	OXIM19B	28	39	12	9	136	12-Point		•

ASME® B107.100

*Set includes storage tray.
**Set includes storage bag.

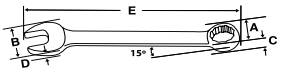


OXIM707SBK

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® COMBINATION





OXI709SBK

Midget, inches

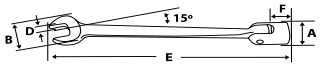
	6	12	A	B	C	D	E	OXI709SBK* 6	OXI707BK* 12	OXI706B** 12
1/8	OXI4SB	—	7/32	11/32	1/8	1/8	2-11/16	•		
5/32	OXI5SB	—	9/32	13/32	5/32	1/8	2-27/32	•		
3/16	OXI6SB	OXI6B	5/16	7/16	5/32	1/8	2-31/32	•	•	
7/32	OXI7SB	OXI7B	3/8	1/2	3/16	1/8	3-3/32	•	•	
1/4	OXI8SB	OXI8B	13/32	17/32	3/16	5/32	3-7/32	•	•	
9/32	OXI9SB	OXI9B	7/16	19/32	7/32	5/32	3-11/32	•	•	
5/16	OXI10SB	OXI10B	1/2	21/32	7/32	5/32	3-1/2	•	•	
11/32	OXI11SB	OXI11B	17/32	23/32	1/4	3/16	3-5/8	•	•	
3/8	OXI12SB	OXI12B	19/32	25/32	1/4	3/16	3-3/4	•	•	
7/16	—	OXI14B	21/32	29/32	5/16	7/32	4-1/32			•
1/2	—	OXI16B	3/4	1-1/16	11/32	1/4	4-9/32			•
9/16	—	OXI18B	27/32	1-5/32	3/8	9/32	4-17/32			•
5/8	—	OXI20B	15/16	1-5/16	13/32	9/32	4-13/16			•
11/16	—	OXI22B	1-1/32	1-13/32	7/16	5/16	5-1/16			•
3/4	—	OXI24B	1-1/8	1-9/16	15/32	11/32	5-11/32			•

ASME® B107.100

* Set includes storage bag.
**Set includes storage tray.



FHOM606B





FHO607B

Flex Combination, mm

mm	12	A	B	D	E	F	FHOM606B 12
8	FHOM8B	12	17	5	146	6	
9	FHOM9B	13	18	5	156	6	
10	FHOM10B	14	20	5	166	6	•
11	FHOM11B	16	23	6	181	7	
12	FHOM12B	17	30	6	198	9	•
13	FHOM13B	19	27	7	205	9	•
14	FHOM14B	20	30	7	213	9	•
15	FHOM15B	21	31	7	224	10	•
16	FHOM16B	23	33	7	229	10	
17	FHOM17B	24	37	8	246	10	•
18	FHOM18B	24	38	8	254	11	
19	FHOM19B	26	40	8	261	12	

ASME® B107.100

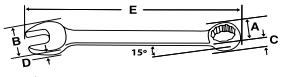
Set includes storage tray.

Flex Combination, inches

	12	A	B	D	E	F	FHO607B 12
1/4	FHO8B	3/8	17/32	1/8	4-15/16	7/32	
5/16	FHO10B	15/32	21/32	3/16	5-31/32	1/4	
3/8	FHO12B	9/16	17/32	7/32	6-1/2	1/4	•
7/16	FHO14B	5/8	29/32	7/32	7-1/8	9/32	•
1/2	FHO16B	23/32	1-1/16	1/4	7-13/16	11/32	•
9/16	FHO18B	25/32	1-3/16	9/32	8-3/8	11/32	•
5/8	FHO20B	29/32	1-5/16	9/32	9	3/8	•
11/16	FHO22B	1	1-7/16	9/32	9-11/16	13/32	•
3/4	FHO24B	1-1/32	1-1/2	5/16	10-1/4	15/32	•
13/16	FHO26B	1-1/32	1-23/32	5/16	10-5/16	1/2	
7/8	FHO28B	1-3/16	1-27/32	5/16	10-15/32	9/16	

ASME® B107.100

Set includes storage tray.





WOEX90B

British Standard, Short Handle

BS	Decimal Equivalent, inches	12	A	B	C	D	E
3/16″	.338	WOEX6B	25/32	19/32	3/16	1/4	5-3/32
1BA	.365	WOEX70B	25/32	19/32	3/16	1/4	5-1/8
0BA	.413	WOEX80B	29/32	21/32	7/32	5/16	5-13/32
1/4″	.445	WOEX90B	29/32	21/32	7/32	5/16	5-15/32
5/16″	.525	WOEX100B	1-5/32	27/32	9/32	3/8	6-1/32
3/8	0.6	WOEX110B	1-5/16	15/16	9/32	13/32	6-11/32
7/16″	.710	WOEX120B	1-5/16	1-1/32	5/16	7/16	6-23/32

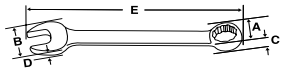
SPLINE COMBINATION

Short Handle, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.
Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



OES18B

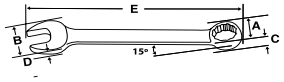


		Stock No.	A	B	C	D	E
1/4	#8	**OES8B**	13/32	17/32	1/8	5/32	4-1/2
5/16	#10	**OES10B**	15/32	21/32	11/64	15/64	4-55/64
3/8	#12	**OES12B**	17/32	25/32	13/64	17/64	5-7/32
7/16	#14	**OES14B**	5/8	29/32	15/64	5/16	5-27/64
1/2	#16	**OES16B**	23/32	1-1/16	1/4	5/16	5-47/64
9/16	#18	**OES18B**	13/16	1-3/16	17/64	21/64	6-1/32
5/8	#20	**OES20B**	7/8	1-5/16	9/32	11/32	6-5/16
11/16	#22	**OES22B**	31/32	1-7/16	19/64	23/64	6-39/64
3/4	#24	**OES24B**	1-1/16	1-9/16	5/16	3/8	6-29/32

COMBINATION (Blue-Point®)



BLPCWSM712B





BLPCW10B

Standard Handle, mm (Blue-Point®)

Set Contains: BLPCWSM712B

mm	Stock No.	E	12
8	**BLPCWM8B**	139.5	•
9	**BLPCWM9B**	151.6	•
10	**BLPCWM10B**	162.7	•
11	**BLPCWM11B**	175.2	•
12	**BLPCWM12B**	185.6	•
13	**BLPCWM13B**	197.2	•
14	**BLPCWM14B**	208.5	•
15	**BLPCWM15B**	219.9	•
16	**BLPCWM16B**	230.0	•
17	**BLPCWM17B**	243.3	•
18	**BLPCWM18B**	254.1	•
19	**BLPCWM19B**	265.9	•

Set includes storage tray.

Standard Handle, inches (Blue-Point®)

Set Contains: BLPCWS711B

	Stock No.	E	
1/4	**BLPCW8B**	4-49/64	
5/16	**BLPCW10B**	5-1/2	
3/8	**BLPCW12B**	6-3/16	•
7/16	**BLPCW14B**	6-57/64	•
1/2	**BLPCW16B**	7-49/64	•
9/16	**BLPCW18B**	8-13/64	•
5/8	**BLPCW20B**	9-1/16	•
11/16	**BLPCW22B**	9-49/64	•
3/4	**BLPCW24B**	10-15/32	•
13/16	**BLPCW26B**	11-3/16	•
7/8	**BLPCW28B**	11-59/64	•
15/16	**BLPCW30B**	12-5/8	•
1	**BLPCW32B**	13-21/64	•

Set includes storage tray.

FLANK DRIVE® OFFSET BOX

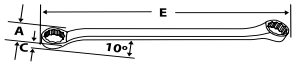
Standard Handle, 10° Offset, mm

Set Contains: XBM605A

mm	6	12	A	C	E	12
8–10	—	**XBM810A**	12.3–15	6.7–7.7	185	
10–11	—	**XBM1011A**	15–16.4	7.7–8.3	202	•
10–12	—	**XBM1012A**	15–17.7	7.7–8.8	208	
11–13	—	**XBM1113A**	16.4–19.1	8.3–9.3	219	
12–14	**XBM1214SA**	**XBM1214A**	17.7–20.4	8.8–9.7	230	•
13–15	**XBM1315SA**	**XBM1315A**	19.1–21.8	9.3–10.2	241	•
14–17	—	**XBM1417A**	20.4–24.5	9.8–11.4	248	
16–18	—	**XBM1618A**	23.1–25.9	10.9–11.9	275	•
17–19	—	**XBM1719A**	24.5–27.2	11.4–12.3	286	•
18–21	—	**XBM1821A**	25.9–29.9	11.9–13.3	303	
22–24	—	**XBM2224A**	31.3–34	13.7–14.7	342	
27–30	—	**XBM2730A**	38.1–42.2	16–17.3	404	

ASME® B107.100

Set includes storage tray.





XBM605A

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® OFFSET BOX



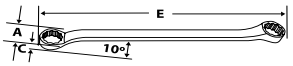
XB605A

Standard Handle, 10° Offset, inches

Set Contains: XB605A

	12	A	C	E	12
3/8–7/16	**XB1214A**	9/16–21/32	5/16–11/32	7-19/32	•
7/16–1/2	**XB1416A**	21/32–3/4	5/16–11/32	7-15/16	
1/2–9/16	**XB1618A**	3/4–13/16	11/32–3/8	8-11/16	•
9/16–5/8	**XB1820A**	13/16–29/32	13/32–7/16	9-13/32	
5/8–11/16	**XB2022A**	29/32–1	7/16–15/32	10-5/32	•
11/16–3/4	**XB2224A**	1–1-1/16	15/32–1/2	10-15/16	
3/4–13/16	**XB2426A**	1-1/16–1-5/32	1/2–17/32	11-21/32	•
7/8–15/16	**XB2830A**	1-1/4–1-11/32	17/32–9/16	13-1/8	•
15/16–1	**XB3032A**	1-11/32–1-13/32	9/16–19/32	13-7/8	
1–1-1/16	**XB3234A**	1-13/32–1-1/2	19/32–5/8	14-19/32	
1-1/16–1-1/4	**XB3440A**	1-1/2–1-3/4	5/8–23/32	16-3/32	
1-1/8–1-3/16	**XB3638A**	1-9/32–1-21/32	21/32–11/16	16-3/32	
1-1/4–1-5/16	**XB4042A**	1-3/4–1-27/32	23/32–3/4	17-19/32	
1-3/8–1-7/16	**XB4446A**	1-31/32–2-1/16	3/4–25/32	19-1/8	
1-1/2–1-5/8	**XB4852A**	2-3/32–2-9/32	13/16–7/8	20-15/16	

ASME® B107.100 Set includes storage tray.





XSM608A

Short Handle, 10° Offset, mm

Set Contains: XSM608A

mm	12	A	C	E	12
6–7	**XSM67A**	9.6–10.9	5.7–6.2	86	•
8–9	**XSM89A**	12.3–13.7	6.7–7.2	103	•
8–10	**XSM810**	12.3–15	6.7–7.7	107	
9–10	**XSM910A**	13.7–15	7.2–7.7	112	•
11–12	**XSM1112A**	16.4–17.7	8.3–8.8	128	•
13–14	**XSM1314A**	19.1–20.4	9.3–9.8	146	•
15–16	**XSM1516A**	21.8–23.1	10.2–10.9	163	•
17–19	**XSM1719A**	24.5–27.2	11.4–12.3	185	•
18–20	**XSM1820A**	25.9–28.6	11.9–12.8	194	•

ASME® B107.100 Set includes storage tray.



XS609A

Short Handle, 10° Offset, inches

Set Contains: XS609A

	12	A	C	E	12
3/16–7/32	**XS67A**	5/16–11/32	7/32–7/32	3-27/32	•
1/4–5/16	**XS810A**	13/32–15/32	1/4–9/32	4-1/4	•
5/16–3/8	**XS1012A**	15/32–9/16	9/32–5/16	4-9/16	•
3/8–7/16	**XS1214A**	9/16–21/32	5/16–11/32	4-29/32	•
7/16–1/2	**XS1416A**	21/32–3/4	11/32–11/32	5-3/16	•
1/2–9/16	**XS1618A**	3/4–13/16	3/8–3/8	5-17/32	•
9/16–5/8	**XS1820A**	13/16–29/32	13/32–7/16	5-7/8	•
5/8–3/4	**XS2024A**	29/32–1-1/16	7/16–1/2	6-3/8	•
11/16–13/16	**XS2226A**	1–1-5/32	15/32–17/32	6-23/32	•

ASME® B107.100 Set includes storage tray.



XID604KA

Midget, 10° Offset, inches

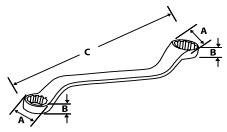
Set Contains: XID604KA

	12	A	C	E	12
3/16–13/64	**XID1213A**	5/16–11/32	1/8–5/32	2-13/16	•
7/32–15/64	**XID1415A**	3/8–3/8	5/32–5/32	3-1/16	•
1/4–9/32	**XID1618A**	13/32–7/16	5/32–3/16	3-13/32	•
5/16–11/32	**XID2022A**	15/32–1/2	3/16–7/32	3-31/32	•

ASME® B107.100 Set includes storage bag.

FLANK DRIVE® OFFSET BOX

- Heads of XO, XOM and XSO Series are deeply offset at 60° to the handles for improved access to recessed fasteners
- Wrenches feature the 12-point Flank Drive® configuration for strength and turning power





XOM605



XO605

Standard Handle, Deep 60° Offset, mm

Set Contains: XOM605

mm	12	A	B	C	12
8–10	**XOM810**	11.7–14.2	6.9–7.3	178.1	
9–10	**XOM910**	14.2–16.3	7.6	193.0	
10–11	**XOM1011**	15–16.3	7.6	193.0	•
12–14	**XOM1214**	15–20.3	9.0	210.0	•
13–14	**XOM1314**	18.8–21.2	8.9	223.3	
13–15	**XOM1315**	16.3–21.2	8.9	223.0	•
15–16	**XOM1516**	23.0–25.2	10.8	252.7	
16–18	**XOM1618**	17.7–25.4	10.8	253.0	•
17–19	**XOM1719**	17.7–27.4	11.1	260.0	•
18–20	**XOM1820A**	32.5–33.3	13.8	330.0	
20–21	**XOM2021**	32.5–33.3	13.7	329.6	
22–24	**XOM2224**	31.9–34.1	13.7	329.6	

ASME® B107.100 Set includes storage tray.

Standard Handle, Deep 60° Offset, inches

Set Contains: XO605

	12	A	B	C	12
1/4–5/16	**XO810**	25/64–15/32	1/4–9/32	6-27/64	
5/16–3/8	**XO1012**	15/32–9/16	9/32	7	
3/8–7/16	**XO1214**	9/16–5/8	5/16	7-19/32	•
1/2–9/16	**XO1618**	23/32–13/16	11/32	8-25/32	•
9/16–5/8	**XO1820**	13/16–29/32	13/32	9-3/8	•
5/8–11/16	**XO2022**	29/32–1	13/32	9-15/16	
5/8–3/4	**XO2024**	29/32–1-3/32	7/16	10-1/4	
11/16–13/16	**XO2226**	1–1-5/32	15/32	10-27/32	•
3/4–7/8	**XO2428**	1-3/32–1-1/4	1/2	11-13/32	•
7/8–15/16	**XO2830**	1-1/4–1-11/32	17/32	12-31/32	
15/16–1	**XO3032**	1-11/32–1-7/16	9/16	13-15/16	

ASME®/ANSI® B107.6 Set includes storage tray.

Short Handle, Deep 60° Offset, inches

	Stock No.	A	B	C
1/4–9/32	**XSO89**	13/32–7/16	3/16–7/32	3-7/8
1/4–5/16	**XSO810A**	3/8–7/16	3/16–7/32	4-5/32
3/8–7/16	**XSO1214A**	17/32–5/8	1/4–9/32	4-13/16
5/8–11/16	**XSO2022**	29/32–1	3/8–7/16	6-5/16
5/8–3/4	**XSO2024A**	7/8–1-1/16	3/16–7/32	6-1/2

ASME®/ANSI® B107.100



XSO1214A

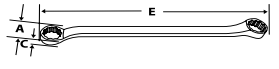
FLANK DRIVE® HIGH-PERFORMANCE OFFSET BOX

Standard Handle, 0° Offset, mm

Set Contains: XDHFM606

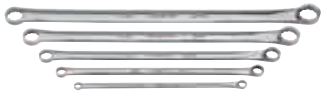
mm	12	A	C	E	12
6–7	**XDHFM67**	9.1–10.4	5.3–5.8	211.5	
8–9	**XDHFM89**	11.6–13.0	5.8–6.2	226.1	
8–10	**XDHFM810**	11.6–14.4	6.2–7.6	232.7	
10–11	**XDHFM1011**	14.4–15.6	7.6–8.5	253.7	•
10–12	**XDHFM1012**	14.4–17.1	8.5–9.0	272.2	
12–13	**XDHFM1213**	17.1–18.7	9.0–9.0	286.2	•
12–14	**XDHFM1214**	17.1–20.1	9.0–10.2	298.4	
13–14	**XDHFM1314**	18.7–20.1	9.0–9.7	299.2	
13–15	**XDHFM1315**	20.1–21.5	9.8–10.9	323.5	
14–15	**XDHFM1415**	20.1–21.5	9.8–10.9	323.5	•
14–17	**XDHFM1417**	20.1–23.7	9.8–11.3	345.0	
15–16	**XDHFM1516**	21.5–22.6	10.9–10.9	347.5	•
16–18	**XDHFM1618**	23.8–26.3	11.3–12.1	372.1	
17–19	**XDHFM1719**	23.8–26.3	11.3–12.1	372.1	•
18–20	**XDHFM1820**	25.0–27.3	12.1–13.6	395.7	•
21–22	**XDHFM2122**	28.8–30.6	13.7–14.6	421.2	
22–24	**XDHFM2224**	30.6–33.1	14.0–14.9	445.2	

Set includes storage tray.





XDHFM606



XDHF605

Standard Handle, 0° Offset, inches

Set Contains: XDHF605

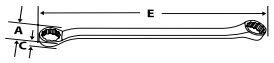
	12	A	C	E	12
1/4–5/16	**XDHF810**	13/32–15/32	7/32–1/4	8-5/16	•
3/8–7/16	**XDHF1214**	17/32–5/8	5/16–11/32	10-1/16	•
1/2–9/16	**XDHF1618**	23/32–13/16	11/32–13/32	11-3/4	•
5/8–3/4	**XDHF2024**	7/8–1-1/32	7/16–15/32	13-5/8	•
11/16–13/16	**XDHF2226**	31/32–1-5/32	15/32–17/32	15-5/8	•

Set includes storage tray.

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® HIGH-PERFORMANCE OFFSET BOX



Short Handle, 0° Offset, mm



XDHSFM1214

mm	12	A	C	E
8–10	XDHSFM810	12.1–14.9	6.2–7.6	162.9
10–12	XDHSFM1012	14.4–17.1	7.6–9.0	190.5
12–14	XDHSFM1214	17.1–20.1	8.5–10.2	208.8
17–19	XDHSFM1719	23.8–26.3	11.3–12.1	260.3

Short Handle, 15° Offset, inches

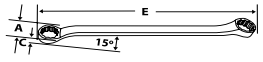


XDHS1012

	12	A	C	E
5/16–3/8	XDHS1012	31/64–9/16	1/4–5/16	7

Standard Handle, 15° Offset, mm

Set Contains: XDHM606





XDHM606

mm	12	A	C	E	12
8–9	XDHM89	11.6–13.0	5.8–6.2	219.2	•
8–10	XDHM810	11.6–14.4	6.2–7.6	225.6	
10–11	XDHM1011	14.4–15.6	7.6–8.5	246.3	•
10–12	XDHM1012	14.4–17.1	7.6–9.0	264.0	
12–13	XDHM1213	17.1–18.7	9.0–9.0	277.6	•
12–14	XDHM1214	17.1–20.1	9.0–10.2	289.6	
14–15	XDHM1415	20.1–21.5	9.8–10.9	313.1	•
14–17	XDHM1417	20.1–23.7	9.8–11.3	334.7	
15–16	XDHM1516	21.5–22.6	10.9–10.9	334.8	
17–19	XDHM1719	23.7–26.3	11.3–12.1	360.1	•
18–20	XDHM1820	24.9–27.3	12.1–13.6	384.0	•

Set includes storage tray.

Standard Handle, 15° Offset, inches

Set Contains: XDH605



XDH605

	12	12	A	C	E	12
7/32–1/4	XDH78A	GXDH78A	11/32–3/8	13/64–15/64	7-15/64	
1/4–5/16	XDH810B	GXDH810B	3/8–29/64	1/4–1/4	8-3/64	•
5/16–3/8	XDH1012B	GXDH1012B	29/64–35/64	1/4–19/64	8-7/8	
3/8–7/16	XDH1214A	GXDH1214A	35/64–5/8	19/64–11/32	9-11/16	•
7/16–1/2	XDH1416A	—	11/32–3/4	11/32–23/64	10-7/16	
1/2–9/16	XDH1618A	GXDH1618A	23/32–13/16	23/64–13/32	11-7/16	•
9/16–5/8	XDH1820A	—	13/16–29/32	13/32–7/16	12-3/8	
5/8–3/4	XDH2024A	—	57/64–1-3/64	7/16–31/64	13-9/32	•
11/16–3/4	XDH2224A	—	31/32–1-1/32	15/32–3/4	14-7/32	
11/16–13/16	XDH2226A	—	63/64–1-9/64	31/64–17/32	15-5/32	•
3/4–7/8	XDH2428	—	1-3/64–1-1/64	31/64–37/64	15-3/4	
25/32–7/8	XDH2528	—	1-5/64–1-13/64	35/64–37/64	16-5/64	
15/16–1	XDH3032	—	1-5/16–1-25/64	37/64–39/64	15-1/2	
1-1/16–1-1/4	XDH3440	—	1-31/64–1-47/64	5/8–23/32	18-1/4	
1-1/4–1-5/16	XDH4042	—	1-47/64–1-13/16	23/32–47/64	19-1/4	
1-1/4–1-3/8	XDH4044	—	1-47/64–1-15/16	23/32–49/64	20-1/4	
1-1/4–1-7/16	XDH4046	—	1-47/64–2	23/32–51/64	21	
1-7/16–1-1/2	XDH4648	—	2–2-1/16	51/64–13/16	22	

Aerospace Spec. AS954E

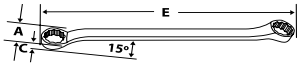
Set includes storage tray.

SPLINE OFFSET BOX

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33797 and MIL-W-8982. The unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



XDES1618A



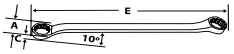
Box/Spline, 15° Offset, inches

		Stock No.	A	C	E
#7–#9	7/32–9/32	**XDES79A**	11/32–7/16	11/64–13/64	7-1/4
#8–#10	1/4–5/16	**XDES810A**	3/8–15/32	3/16–7/32	8-1/16
#12–#14	3/8–7/16	**XDES1214A**	35/64–41/64	5/16–11/32	9-3/4
#16–#18	1/2–9/16	**XDES1618A**	3/4–13/16	3/8–3/8	11-7/16
#18–#20	9/16–5/8	**XDES1820A**	13/16–57/64	25/64–13/32	12-3/8
#22–#24	11/16–3/4	**XDES2224A**	31/32–1-5/64	0.438–0.525	14-1/4
#26–#30	13/16–15/16	**XDES2630A**	1-5/32–1-5/16	1/2–9/16	16-3/16
#28–#32	7/8–1	**XDES2832A**	1-1/4–1-7/16	17/32–37/64	17

TORX® BOX



XLE605



TORX®/Long Handle, 10° Offset

Set Contains: XLE605

#		A	C	E	
E5–E6	**XLE56**	9/32–5/16	5/32–3/16	6-13/32	•
E7–E8	**XLE78**	11/32–3/8	7/32–7/32	7-7/32	•
E10–E12	**XLE1012A**	15/32–17/32	1/4–5/16	8-7/8	•
E14–E16	**XLE1416**	5/8–23/32	11/32–11/32	10-7/16	•
E18–E20	**XLE1820**	13/16–7/8	13/32–7/16	12-3/8	•

ASME® B107.100

Set includes storage tray.



ETX705

TORX®/Standard Handle, 0° Offset

Set Contains: ETX705

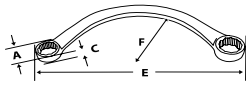
#		A	C	E	
E5–E6	**ETX0506**	17/64–5/16	5/32–11/64	4-41/64	•
E7–E8	**ETX0708**	21/64–3/8	7/32–15/64	5-15/32	•
E10–E12	**ETX1012**	29/64–35/64	1/4–19/64	6-13/32	•
E14–E16	**ETX1416**	5/8–23/32	11/32–23/64	7-1/2	•
E18–E20	**ETX1820**	13/16–57/64	13/32–7/16	8-37/64	•

Set includes storage tray.

FLANK DRIVE® SPECIALTY BOX



CXM605



Half-Moon, mm

Set Contains: CXM605

mm	12	A	C	E	F	12
10–12	**CXM1012**	15–17	6–7	128	48	•
11–13	**CXM1113**	16–18	8–8	144	57	•
14–17	**CXM1417**	20–23	9–9	166	65	•
15–19	**CXM1519**	22–27	10–11	198	78	•
18–21	**CXM1821**	27–31	11–13	224	86	•

ASME® B107.100

Set includes storage tray.



CX605

Half-Moon, inches

Set Contains: CX605

	12	A	C	E	F	12
5/16–3/8	**CX1012**	15/32–9/16	3/16–5/16	4-5/8	2-1/16	
7/16–1/2	**CX1416**	5/8–23/32	5/16–5/16	5	2-7/32	•
9/16–5/8	**CX1820**	13/16–7/8	11/32–3/8	6-1/2	2-9/16	•
5/8–3/4	**CX2024**	7/8–1-7/32	13/32–7/16	7-3/4	3-1/16	•
11/16–13/16	**CX2226**	31/32–1-9/32	13/32–15/32	8-1/2	3-1/2	•
7/8–15/16	**CX2830**	1-1/4–1-11/32	9/16–9/16	10	4-1/16	•

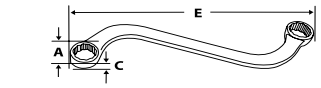
ASME® B107.100

Set includes storage tray.

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SPECIALTY BOX





SBXM605



SBX605

S-Shaped, mm

Set Contains: SBXM605

mm	12	A	C	E	12
10–12	**SBXM1012**	14–18	6–8	140	•
11–13	**SBXM1113**	16–19	7–8	155	•
14–15	**SBXM1415**	21–22	9–9	190	•
16–18	**SBXM1618**	24–27	10–11	173	•
17–19	**SBXM1719**	25–28	10–12	240	•

ASME® B107.100

Set includes storage tray.

S-Shaped, inches

Set Contains: SBX605

	12	A	C	E	12
5/16–3/8	**SBX1012**	15/32–9/16	9/16–7/32	3-3/4	•
7/16–1/2	**SBX1416**	21/32–3/4	9/32–5/16	5-5/16	•
9/16–5/8	**SBX1820**	27/32–15/16	11/32–11/32	6-7/8	•
11/16–3/4	**SBX2224**	1-1/32–1-1/8	11/32–11/32	8-7/16	•
13/16–7/8	**SBX2628**	1-7/32–1-5/16	17/32–9/16	10	•

ASME® B107.100

Set includes storage tray.

OPEN END



VOM705





V0806B

Standard, mm

Set Contains: VOM705

mm	Stock No.	B	D	E	
6–7	**VOM67B**	13–15	4–4	97	
7–8	**VOM78B**	15–17	4–4	106	
8–9	**VOM89B**	17–20	4–5	119	
8–10	**VOM810B**	17–21	4–5	121	
10–11	**VOM1011B**	21–23	5–6	136	•
11–13	**VOM1113B**	23–27	6–6	151	
12–13	**VOM1213B**	25–27	6–6	157	•
12–14	**VOM1214B**	25–29	6–7	162	
14–15	**VOM1415B**	29–31	7–7	178	•
16–18	**VOM1618B**	33–37	7–8	205	•
17–19	**VOM1719B**	35–38	8–9	216	•
19–22	**VOM1922B**	39-46	9–10	245	
21–24	**VOM2124B**	43–49	9–10	267	
22–24	**VOM2224B**	46–49	10–10	273	
27–30	**VOM2730B**	55–61	11–12	338	
30–32	**VOM3032B**	61–65	12–12	368	

ASME®/ANSI® B107.100

Set includes storage tray.

Standard, inches

Set Contains: VO820K* / V0806B**

	Stock No.	B	D	E		
3/16–1/4	**VO68**	13/32	9/64	3-13/32		
1/4–5/16	**VO810B**	17/32–21/32	5/32–5/32	4-1/16	•	•
5/16–3/8	**VO1012B**	21/32–25/32	5/32–3/16	4-21/32	•	
3/8–7/16	**VO1214B**	25/32–29/32	3/16–7/32	5-5/16	•	•
7/16–1/2	**VO1416B**	29/32–1-1/16	7/32–1/4	5-15/16	•	
1/2–9/16	**VO1618B**	1-1/16–1-5/32	1/4–9/32	6-19/32	•	•
9/16–5/8	**VO1820B**	1-5/32–1-5/16	9/32–9/32	7-9/32	•	
5/8–11/16	**VO2022B**	1-5/16–1-13/32	9/32–5/16	7-15/16	•	•
5/8–3/4	**VO2024B**	1-5/16–1-9/16	9/32–11/32	8-9/32	•	
11/16–3/4	**VO2224B**	1-13/32–1-9/16	5/16–11/32	8-5/8	•	
3/4–13/16	**VO2426B**	1-9/16–1-21/32	11/32–3/8	9-11/32	•	•
3/4–7/8	**VO2428B**	1-9/16–1-13/16	11/32–3/8	9-21/32	•	
13/16–7/8	**VO2628B**	1-21/32–1-13/16	3/8–3/8	10-1/32	•	
7/8–15/16	**VO2830B**	1-13/16–1-29/32	3/8–13/32	10-3/4	•	•
15/16–1	**VO3032B**	1-29/32–2-1/32	13/32–13/32	11-15/32	•	
1–1-1/16	**VO3234B**	2-1/32–2-5/32	13/32–7/16	12-7/32	•	
1-1/16–1-1/4	**VO3440B**	2-5/32–2-17/32	7/16–1/2	12-15/16	•	
1-1/8–1-3/16	**VO3638B**	2-5/16–2-13/32	7/16–15/32	13-23/32	•	
1-1/4–1-5/16	**VO4042B**	2-17/32–2-21/32	1/2–1/2	15-1/4	•	
1-3/8–1-7/16	**VO4446B**	2-13/16–2-29/32	17/32–17/32	16-7/8	•	
1-1/2–1-5/8	**VO4852B**	3-1/16–3-5/16	9/16–19/32	18-29/32	•	

ASME®/ANSI® B107.100

*Set includes storage bag.
**Set includes storage tray.

Low Torque/Slimline, 15° Offset, mm

mm	Stock No.	B	D	E	Set Contains: LTAM811
6–7	LTAM67	13–15	3	165	•
8–10	LTAM810	17–21	3	165	•
10–11	LTAM1011	21–23	3	165	•
12–14	LTAM1214	25–29	4	241	•
13–15	LTAM1315	27–31	4	241	•
16–18	LTAM1618	33–37	4	241	•
17–19	LTAM1719	35–39	4	241	•
19–22	LTAM1922	39-45	4	241	•
21–24	LTAM2124	43–49	4	241	•
27–30	LTAM2730	55–61	6	311	•
32–36	LTAM3236	65–73	6	311	•

ASME®/ANSI® B107.100

Set includes storage bag.



LTAM811

Low Torque/Slimline, 15° Offset, inches

	Stock No.	B	D	E	Set Contains: LTA812	LTA805K
3/8–7/16	LTA1214	25/32–29/32	3/32	9-1/2	•	
7/16–1/2	LTA1416	29/32–1-1/32	5/32	9-1/2	•	•
1/2–9/16	LTA1618	1-1/32–1-5/32	5/32	9-1/2	•	•
5/8–11/16	LTA2022	1-9/32–1-13/32	5/32	9-1/2	•	•
3/4–13/16	LTA2426	1-17/32–1-11/16	5/32	9-1/2	•	
3/4–7/8	LTA2428	1-17/32–1-25/32	5/32	9-1/2	•	•
15/16–1	LTA3032	1-29/32–2-1/32	5/32	9-1/2	•	•
1-1/16–1-1/8	LTA3436	2-5/32–2-9/32	1/4	12-1/4	•	
1-1/4–1-5/16	LTA4042	2-17/32–2-21/32	1/4	12-1/4	•	
1-3/8–1-7/16	LTA4446	2-25/32–2-29/32	1/4	12-1/4	•	
1-1/2–1-5/8	LTA4852	3-1/16–3-9/32	9/32	14-1/4	•	
1-11/16–1-7/8	LTA5460	3-13/32–3-17/32	9/32	14-1/4	•	

ASME® B107.100

Sets includes storage bag.



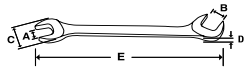
LTA805K

Ignition, 15°/60° Offset, mm

A	B	Stock No.	C	D	E	Set Contains: DSM810K
3.2	5.5	DSM3.25.5	8–11	3	74	•
5.5	3.2	DSM5.53.2	11–8	3	83	•
4	5	DSM45	9–11	3	77	•
5	4	DSM54	11–9	3	81	•
6	7	DSM67	12–14	3	85	•
7	6	DSM76	14–12	3	89	•
8	9	DSM89	15–17	3	93	•
9	8	DSM98	17–15	3	97	•
10	11	DSM1011	20–22	4	101	•
11	10	DSM1110	22–20	4	105	•

ASME®/ANSI® B107.100

Set includes C1003A storage bag.





DSM810K

Ignition, 15°/60° Offset, inches

A	B	Stock No.	C	D	E	Set Contains: DS809K	DS806AK
1/8	1/8	DS88A	5/16–5/16	1/8	2-29/32	•	
5/32	5/32	DS1010A	3/8–3/8	1/8	2-7/8	•	
3/16	3/16	DS1212A	13/32–13/32	1/8	3-1/8	•	
15/64	1/4	DS1516A	15/32–1/2	1/8	3-1/4	•	•
1/4	15/64	DS1615A	1/2–15/32	1/8	3-13/32	•	•
9/32	5/16	DS1820A	9/16–19/32	1/8	3-1/2	•	•
5/16	9/32	DS2018A	19/32–9/16	1/8	3-21/32	•	•
11/32	3/8	DS2224A	21/32–23/32	5/32	3-3/4	•	•
3/8	11/32	DS2422A	23/32–21/32	5/32	3-3/4	•	•

ASME®/ANSI® B107.100

Sets include storage bag.

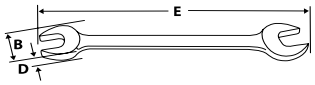


DS809K

⚠WARNING

- Use only moderate force on slimline wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

OPEN END



Four-Way Angle Head, mm

- Angle head wrenches are offset at 30° and 60° angles to the handle
- Both ends are the same size to permit use of one wrench in four positions



VSM807B

Set Contains:						VSM814**	VSM807B*	SVSM807A*
mm	Stock No.	Flank Drive® Plus Stock No.	B	D	E			Flank Drive® Plus
10	VSM5210B	SVSM10A	20	6	127	•	•	•
11	VSM5211B	SVSM11A	22	6	137	•	•	•
12	VSM5212B	SVSM12A	24	6	145	•	•	•
13	VSM5213B	SVSM13A	26	6	154	•	•	•
14	VSM5214B	SVSM14A	28	6	164	•	•	•
15	VSM5215B	SVSM15A	30	7	173	•	•	•
16	VSM5216B	SVSM16A	31	7	181	•		
17	VSM5217B	SVSM17A	34	7	191	•	•	•
18	VSM5218B	SVSM18A	36	7	200	•		
19	VSM5219B	SVSM19A	37	7	210	•		
21	VSM5221B	SVSM21A	41	8	228	•		
22	VSM5222B	SVSM22A	44	8	239	•		
24	VSM5224B	SVSM24A	47	8	254	•		
27	VSM5227B	SVSM27A	53	9	283	•		

ASME® B107.100

*Set includes storage tray.
**Set includes storage bag.

Four-Way Angle Head, inches



GVS24B



VS807B

Set Contains:								VS828A**	VS814A**	VS807B*	SVS807A*
"	Stock No.	Industrial Stock No.	Flank Drive® Plus Stock No.	B	D	E					Flank Drive® Plus
1/4	VS8B	—	—	17/32	3/16	3-11/16	•				
5/16	VS10B	—	—	21/32	3/16	4-1/4	•				
11/32	VS11B	—	—	23/32	7/32	4-17/32	•				
3/8	VS12B	—	SVS12A	25/32	7/32	4-27/32	•	•	•	•	
7/16	VS14B	—	SVS14A	7/8	7/32	5-13/32	•	•	•	•	
1/2	VS16B	GVS16B	SVS16A	1	1/4	5-31/32	•	•	•	•	
9/16	VS18B	GVS18B	SVS18A	1-1/8	1/4	6-9/16	•	•	•	•	
5/8	VS20B	GVS20B	SVS20A	1-1/4	9/32	7-1/8	•	•	•	•	
11/16	VS22B	GVS22B	SVS22A	1-3/8	9/32	7-11/16	•	•	•	•	
3/4	VS24B	GVS24B	SVS24A	1-15/32	9/32	8-9/32	•	•	•	•	
13/16	VS26B	GVS26B	SVS26A	1-19/32	5/16	8-27/32	•	•			
7/8	VS28B	GVS28B	SVS28A	1-23/32	5/16	9-13/32	•	•			
15/16	VS30B	GVS30B	SVS30A	1-27/32	11/32	10	•	•			
1	VS32B	GVS32B	SVS32A	1-31/32	11/32	10-9/16	•	•			
1-1/16	VS34B	—	SVS34A	2-3/32	11/32	11-1/8	•	•			
1-1/8	VS36B	—	SVS36A	2-3/16	3/8	11-23/32	•	•			
1-3/16	VS38B	—	SVS38A	2-11/32	3/8	12-9/32	•				
1-1/4	VS40B	GVS40B	SVS40A	2-7/16	13/32	12-7/8	•	•			
1-5/16	VS42B	—	—	2-9/16	13/32	13-7/16	•				
1-3/8	VS44B	—	—	1-3/8	13/32	14	•				
1-7/16	VS46B	—	—	2-27/32	7/16	14-19/32	•				
1-1/2	VS48B	—	—	2-15/16	7/16	15-5/32	•				
1-5/8	VS52B	—	—	3-7/32	15/32	16-5/16	•				
1-11/16	VS54B	—	—	3-11/32	1/2	16-7/8	•				
1-3/4	VS56B	—	—	3-15/32	1/2	17-7/16	•				
1-13/16	VS58B	—	—	3-19/32	1/2	18	•				
1-7/8	VS60B	—	—	3-23/32	17/32	18-19/32	•				
2	VS64B	—	—	3-31/32	9/16	19-3/4	•				

ASME® B107.100

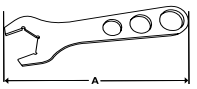
*Set includes storage tray.
**Set includes storage bag.

Aluminum (for AN fittings)

- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications, as well as race and show cars
- Machined from heat-treated aluminum to exacting tolerances
- Corner reliefs on open end prevent rounding the corners of the fitting
- Handle length is designed to apply appropriate torque without overtightening
- Wrenches are color coded and stamped for quick size identification
- All wrenches are .36″ thick

#	"	Stock No.	Color	Overall Length, inches (mm)	Set Contains: ANWR708A
No. 3	1/2	**ANWR3A**	Silver	4 (101.6)	•
No. 4	9/16	**ANWR4A**	Black	4-3/4 (120.7)	•
No. 6	11/16	**ANWR6A**	Light Blue	5-3/4 (146.1)	•
No. 8	7/8	**ANWR8A**	Pink	5-3/4 (146.1)	•
No. 10	1	**ANWR10A**	Gold	7-1/8 (181.0)	•
No. 12	1-1/4	**ANWR12A**	Red	7-1/2 (190.5)	•
No. 16	1-1/2	**ANWR16A**	Brass	8-3/4 (222.3)	•
No. 20	1-13/16	**ANWR20A**	Dark Blue	9-1/4 (237.0)	•

Set includes heavy-gauge vinyl storage pouch.





ANWR708A

OPEN END (Blue-Point®)



BD0EM1415



BD0E1820

Standard, mm (Blue-Point®)

mm	Stock No.	Length, mm
10–11	**BDOEM1011**	145
12–13	**BDOEM1213**	165
14–15	**BDOEM1415**	185
16–17	**BDOEM1617**	185
18–19	**BDOEM1819**	227

Standard, inches (Blue-Point®)

"	Stock No.	Length, inches
5/16–3/8	**BDOE1012**	5-5/16
7/16–1/2	**BDOE1416**	6-1/2
9/16–5/8	**BDOE1820**	7-9/32
11/16–3/4	**BDOE2224**	8-15/16

ASME®/ANSI® B107.100

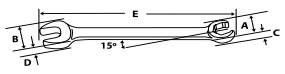
FLANK DRIVE® FLARE NUT

Open End and Flare Nut, mm

mm	6	A	B	C	D	E	Set Contains: RXSM605B 6
8	**RXSM8B**	17	17	7	7	135	
9	**RXSM9B**	18	19	7	7	144	
10	**RXSM10B**	20	21	8	8	152	•
11	**RXSM11B**	21	23	9	9	162	•
12	**RXSM12B**	22	25	9	9	169	•
13	**RXSM13B**	24	27	9	9	178	•
14	**RXSM14B**	25	29	10	10	186	•
15	**RXSM15B**	26	31	10	10	194	
16	**RXSM16B**	27	33	11	11	202	
17	**RXSM17B**	29	35	11	11	211	
18	**RXSM18B**	30	37	12	12	219	
19	**RXSM19B**	32	39	12	12	228	
20	**RXSM20B**	33	41	13	13	235	

ASME® B107.100

Set includes storage tray.



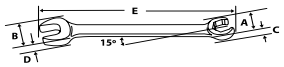


RXSM605B

⚠WARNING

- Use only moderate force on flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

FLANK DRIVE® FLARE NUT





RXS605B

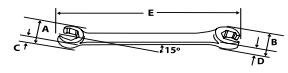
Open End and Flare Nut, inches

Set Contains: RXS605B

	6	12	A	B	C	D	E	6
3/8	RXS12B	—	3/4	25/32	5/16	5/16	5-27/32	•
7/16	RXS14B	RXS14BS	27/32	29/32	11/32	11/32	6-3/8	•
1/2	RXS16B	—	29/32	1-1/16	3/8	3/8	6-7/8	•
9/16	RXS18B	—	1	1-5/32	13/32	13/32	7-13/32	•
5/8	RXS20B	—	1-3/32	1-5/16	7/16	7/16	7-15/16	•
11/16	—	RXS22BS	1-5/32	1-13/32	15/32	15/32	8-15/32	
3/4	—	RXS24BS	1-1/4	1-9/16	1/2	1/2	9	

ASME® B107.100

Set includes storage tray.





RXFMS606B

Double End Flare Nut, mm

Set Contains: RXFMS606B

mm	6	A–B	C–D	E	6
9–11	RXFMS911B	18–21	7–8	145	•
10–12	RXFMS1012B	20–22	8–9	153	•
13–14	RXFMS1314B	24–25	9–10	173	•
15–17	RXFMS1517B	26–29	10–11	193	•
16–18	RXFMS1618B	28–30	11–12	200	•
19–21	RXFMS1921B	32–34	12–13	223	•

ANSI® B107.100

Set includes storage tray.



RXFS605B

Double End Flare Nut, inches

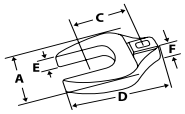
Set Contains: RXFS605B

	6	A–B	C–D	E	6
1/4–5/16	RXFS810B	19/32–21/32	1/4–9/32	4-27/32	•
3/8–7/16	RXFS1214B	3/4-27/32	5/16–11/32	5-13/16	•
1/2–9/16	RXFS1618B	29/32–1	3/8–13/32	6-13/16	•
5/8–11/16	RXFS2022B	1-3/32–1-5/32	7/16–15/32	7-3/4	•
3/4–13/16	RXFS2426B	1-1/4–1-5/16	1/2–17/32	8-25/32	•
3/4–7/8	RXFS2428B	1-1/4–1-27/64	1/2–5/8	9-1/2	
3/4–1	RXFS2432B	1-1/4–1-9/16	1/2–5/8	9-1/2	
7/8–1-1/8	RXFS2836B	1-13/32–1-3/4	9/16–11/16	10-1/2	

ANSI® B107.100

Set includes storage tray.

1/4" DRIVE CROWFOOT WRENCHES





TMCOS16

Flank Drive® Plus, Open End, inches

	Stock No.	A	C	D	E	F
7/16	TMCOS14	29/32	5/8	1-5/32	5/16	5/16
1/2	TMCOS16	1-1/16	21/32	1-15/64	5/16	5/16
9/16	TMCOS18	1-5/32	11/16	1-19/64	5/16	5/16

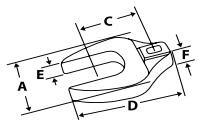
1/4" DRIVE CROWFOOT WRENCHES

Open End, mm

mm	Stock No.	A	C	D	E	F	107TMCOM Set Contains:
7	TMCOM7	13.5	13.2	24.4	6.6	6.6	•
8	TMCOM8	16.8	14.1	25.9	6.6	6.6	•
10	TMCOM10	19.8	14.6	27.5	6.6	6.6	•
11	TMCOM11	22.4	16.0	29.4	7.9	7.9	•
12	TMCOM12	24.4	16.5	30.6	7.9	7.9	•
13	TMCOM13	26.4	16.6	31.2	7.9	7.9	•
14	TMCOM14	29.0	17.7	32.9	7.9	7.9	•

ASME® B107.21

Set includes storage tray.





107TMCOM

Open End, inches

	Stock No.	A	C	D	E	F	106TMCO Set Contains:
1/4	TMCO8	17/32	17/32	31/32	1/4	1/4	•
5/16	TMCO10	21/32	9/16	1-1/32	1/4	1/4	•
3/8	TMCO12	25/32	19/32	1-3/32	1/4	1/4	•
7/16	TMCO14	7/8	5/8	1-5/32	5/16	5/16	•
1/2	TMCO16	1-1/32	21/32	1-1/4	5/16	5/16	•
9/16	TMCO18	1-1/8	11/16	1-9/32	5/16	5/16	•

ASME® B107.21

Set includes storage tray.



106TMCO

Flank Drive® Flare Nut/Shallow, 12-Point, inches

	12	A	B	C	E	Maximum Recommended Working Torque, in-lb
1/4	TMRX8	13/32	1/8	31/32	1/4	75
5/16	TMRX10	1/2	3/16	31/32	1/4	75
3/8	TMRX12	19/32	1/4	31/32	1/4	75

ASME® B107.21



TMRX12

Flank Drive® Flare Nut/Deep, 12-Point, inches

	12	A	B	C	E	Maximum Recommended Working Torque, in-lb
3/8	AN85086B	19/32	9/32	1/2	1/2	75
7/16	AN85087B	11/16	11/32	9/16	9/16	200
1/2″	AN85088B	25/32	13/32	19/32	9/16	200
9/16″	AN85089B	27/32	15/32	5/8	9/16	200

ASME® B107.21



AN85088B

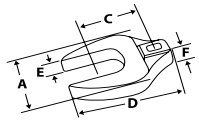
3/8" DRIVE CROWFOOT WRENCHES

Flank Drive® Plus/Open End, inches

	Stock No.	A	C	D	E	F
5/8	FCOS20	1-1/4	27/32	1-19/32	7/32	17/32
3/4	FCOS24	1-17/32	1	1-29/32	1/4	17/32
15/16	FCOS30	2	1-1/8	2-1/8	23/64	43/64
1-1/16	FCOS34	2	1-3/32	2-1/8	23/64	43/64



FCOS24



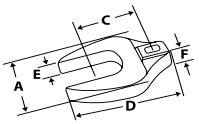
⚠WARNING

- Use only moderate force on flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

3/8" DRIVE CROWFOOT WRENCHES



214FC





211GFCO

Open End, Inches, Chrome

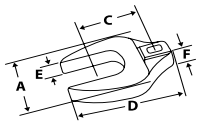
Set Contains:									242FC	226FC	214FC	211FCOA	211GFCO
Inches	Stock No.	Industrial Stock No.	A	C	D	E	F	Maximum Recommended Working Torque, in-lb					
3/8	FCO12A	GFCO12A	7/8	23/32	1-19/64	7/32	33/64	175				•	•
7/16	FCO14A	GFCO14A	7/8	21/32	1-17/64	7/32	33/64	250	•	•	•	•	•
1/2	FCO16A	GFCO16A	1-1/32	51/64	1-29/64	7/32	33/64	300	•	•	•	•	•
9/16	FCO18A	GFCO18A	1-1/4	15/16	1-5/8	7/32	33/64	400	•	•	•	•	•
5/8	FCO20A	GFCO20A	1-1/4	7/8	1-19/32	7/32	33/64	500	•	•	•	•	•
11/16	FCO22A	GFCO22A	1-33/64	1-3/32	1-59/64	1/4	33/64	650	•	•	•	•	•
3/4	FCO24A	GFCO24A	1-33/64	1-1/32	1-57/64	1/4	33/64	850	•	•	•	•	•
13/16	FCO26A	GFCO26A	1-23/32	1-3/32	2	9/32	19/32	1,050	•	•	•	•	•
7/8	FCO28A	GFCO28A	1-23/32	1-3/64	1-31/32	9/32	19/32	1,250	•	•	•	•	•
15/16	FCO30A	GFCO30A	2	1-5/32	2-1/8	11/32	21/32	1,400	•	•	•	•	•
1	FCO32A	GFCO32A	2	1-1/8	2-3/32	11/32	21/32	1,600	•	•	•	•	•
1-1/16	FC34B	—	2	1-9/64	2	11/32	21/32	1,650	•	•	•		
1-1/8	FC36A	—	2	1-11/64	2	23/64	39/64	1,700	•	•	•		
1-3/16	FC38A	—	2	1-13/64	2-1/16	23/64	39/64	1,750	•	•	•		
1-1/4	FC40A	—	2-5/32	1-1/4	2-7/32	23/64	41/64	1,750	•	•	•		
1-5/16	FC42A	—	2-5/32	1-9/32	2-7/32	23/64	41/64	1,750	•	•			
1-3/8	FC44A	—	2-23/64	1-5/16	2-3/8	23/64	41/64	1,800	•	•			
1-7/16	FC46A	—	2-23/64	1-23/64	2-3/8	23/64	41/64	1,800	•	•			
1-1/2	FC48A	—	2-17/32	1-25/64	2-1/2	23/64	41/64	1,800	•	•			
1-9/16	FC50A	—	2-17/32	1-27/64	2-1/2	23/64	41/64	1,800	•	•			
1-5/8	FC52A	—	2-21/32	1-29/64	2-19/32	23/64	41/64	1,800	•	•			
1-11/16	FC54A	—	2-21/32	1-1/2	2-19/32	23/64	41/64	1,800	•	•			
1-3/4	FC56A	—	2-7/8	1-17/32	2-3/4	23/64	41/64	1,800	•	•			
1-13/16	FC58A	—	2-7/8	1-9/16	2-3/4	23/64	41/64	1,800	•	•			
1-7/8	FC60A	—	3-5/32	1-19/32	2-55/64	23/64	41/64	1,800	•	•			
1-15/16	FC62A	—	3-5/32	1-21/32	2-55/64	23/64	41/64	1,040	•	•			
2	FC64A	—	3-13/32	1-47/64	3	31/64	45/64	1,800	•	•			
2-1/16	FC66A	—	3-13/32	1-25/32	3	31/64	45/64	1,800	•				
2-1/8	FC68A	—	3-19/32	1-13/16	3-3/16	31/64	45/64	1,800	•				
2-3/16	FC70A	—	3-19/32	1-27/32	3-3/16	31/64	45/64	1,275	•				
2-1/4	FC72A	—	3-27/32	1-15/16	3-7/16	31/64	45/64	1,800	•				
2-5/16	FC74A	—	3-27/32	1-15/16	3-7/16	31/64	45/64	1,800	•				
2-3/8	FC76A	—	4-1/8	2-5/64	3-11/16	31/64	45/64	1,800	•				
2-7/16	FC78A	—	4-1/8	2-1/8	3-11/16	31/64	45/64	1,800	•				
2-1/2	FC80A	—	4-9/32	2-11/64	3-13/16	31/64	45/64	1,800	•				
2-9/16	FC82A	—	4-9/32	2-11/64	3-13/16	31/64	45/64	1,800	•				
2-5/8	FC84A	—	4-17/32	2-21/64	4-1/16	31/64	45/64	1,800	•				
2-11/16	FC86A	—	4-17/32	2-3/8	4-1/16	31/64	45/64	1,800	•				
2-3/4	FC88A	—	4-23/32	2-7/16	4-1/4	31/64	45/64	1,900	•				
2-13/16	FC90A	—	4-23/32	2-17/32	4-1/4	31/64	45/64	2,075	•				
2-7/8	FC92A	—	4-23/32	2-17/32	4-9/16	31/64	45/64	2,075	•				
2-15/16	FC94A	—	5-3/32	2-43/64	4-9/16	31/64	45/64	2,200	•				
3	FC96A	—	5-3/32	2-23/32	4-1/2	31/64	45/64	2,200	•				

ASME®/ANSI® B107.100

Sets include storage tray.



210FCOMA



Open End, mm, Chrome

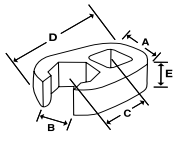
mm	Stock No.	A	C	D	E	F	Maximum Recommended Working Torque, in-lb	Set Contains: 216FCOM	210FCOMA*
9	**FCOM9A**	22.4	18.8	33.3	5.3	13.2	150	•	
10	**FCOM10A**	22.4	17.6	33.0	5.3	13.2	200	•	•
11	**FCOM11A**	22.4	16.6	32.3	5.3	13.2	250	•	•
12	**FCOM12A**	26.2	21.0	37.3	5.3	13.2	275	•	•
13	**FCOM13A**	26.2	19.8	36.8	5.3	13.2	300	•	•
14	**FCOM14A**	26.2	18.6	36.1	5.3	13.2	325	•	•
15	**FCOM15A**	31.8	22.7	40.9	5.3	13.2	400	•	•
16	**FCOM16A**	31.8	21.7	40.4	5.3	13.2	450	•	•
17	**FCOM17A**	31.8	20.5	39.9	5.3	13.2	500	•	•
18	**FCOM18A**	38.4	27.2	48.5	6.4	13.2	650	•	•
19	**FCOM19A**	38.4	26.2	48.0	6.4	13.2	750	•	•
20	**FCOM20A**	38.4	25.0	48.0	6.4	13.2	850	•	
21	**FCOM21A**	43.7	27.4	48.8	7.1	15.0	1,050	•	
22	**FCOM22A**	43.7	26.4	50.0	7.1	15.0	1,250	•	
23	**FCOM23A**	50.5	30.1	54.4	8.9	16.8	1,400	•	
24	**FCOM24A**	50.5	28.8	53.8	8.9	16.8	1,600	•	

ASME® B107.21

*Set includes storage tray.



210FRHMA



Flank Drive® Flare Nut, 6-Point, mm

mm	6	A	B	C	D	E	Maximum Recommended Working Torque, in-lb	Set Contains: 6
9	**FRHM9**	22.4	6.7	14.2	33.3	9.7	220	
10	**FRHM10**	22.9	7.4	14.2	35.3	9.7	265	•
11	**FRHM11**	22.9	8.3	14.2	35.3	9.7	310	•
12	**FRHM12**	25.4	9.0	14.2	36.6	9.7	355	•
13	**FRHM13**	25.4	9.4	14.2	36.6	9.7	400	•
14	**FRHM14**	28.4	10.5	18.8	40.9	11.2	485	•
15	**FRHM15**	28.4	11.2	18.8	40.9	11.2	575	•
16	**FRHM16**	28.4	11.7	18.8	40.9	11.2	665	•
17	**FRHM17**	33.3	12.6	20.6	44.7	12.7	750	•
18	**FRHM18**	33.3	13.6	20.6	44.7	12.7	840	•
19	**FRHM19**	33.3	14.7	20.6	44.7	12.7	930	•
20	**FRHM20**	41.1	15.2	22.1	50.3	14.2	1,060	
21	**FRHM21**	41.1	16.3	22.1	50.3	14.2	1,150	
22	**FRHM22**	41.1	17.0	22.1	50.3	14.2	1,285	

ASME® B107.21

Set includes storage tray.

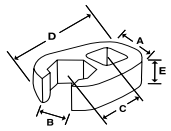
⚠WARNING

- Use only moderate force on crowfoot and flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

3/8" DRIVE CROWFOOT WRENCHES



207SFRH



Flank Drive® Flare Nut, 6-Point, inches

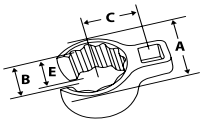
Set Contains:								207SFRH
6	6	A	B	C	D	E	Maximum Recommended Working Torque, in-lb	6
3/8	**FRH120S**	13/32	1/4	9/16	1-11/32	3/8	240	•
7/16	**FRH140S**	29/32	5/16	9/16	1-13/32	3/8	320	•
1/2	**FRH160S**	1	11/32	9/16	1-7/16	3/8	400	•
9/16	**FRH180S**	1-1/8	3/8	3/4	1-5/8	7/16	510	•
5/8	**FRH200S**	1-1/8	7/16	3/4	1-5/8	7/16	625	•
11/16	**FRH220S**	1-5/16	1/2	13/16	1-25/32	1/2	750	•
3/4	**FRH240S**	1-5/16	9/16	13/16	1-25/32	1/2	880	•
13/16	**FRH260S**	1-5/8	5/8	7/8	1-31/32	9/16	1,025	
7/8	**FRH280S**	1-5/8	23/32	7/8	1-31/32	9/16	1,180	
15/16	**FRH300S**	1-7/8	11/16	15/16	2-3/16	5/8	1,280	
1	**FRH320S**	1-7/8	3/4	15/16	2-3/16	5/8	1,480	

ASME® B107.21

Set includes storage tray.



205ANM



Flank Drive® Flare Nut, Deep, 12-Point, mm

Set Contains:						205ANM
mm	12	A	B	C	E	12
12	**ANM12**	18.9	8.3	16.3	15.0	•
13	**ANM13**	21.2	9.7	17.7	15.0	•
14	**ANM14**	21.2	10.5	17.7	15.0	•
17	**ANM17**	26.6	13.0	19.7	19.1	•
19	**ANM19**	29.0	14.6	20.9	19.8	•

Set includes storage tray.



208AN

Flank Drive® Flare Nut, Deep, 12-Point, inches

Set Contains:							208AN
11	12	A	B	C	E	Maximum Recommended Working Torque, in-lb	12
5/8	**AN850810B**	15/16	1/2	23/32	23/32	250	•
11/16	**AN850811B**	1-1/32	17/32	25/32	23/32	310	•
3/4	**AN850812B**	1-1/8	9/16	13/16	3/4	450	•
13/16	**AN850813B**	1-7/32	5/8	7/8	3/4	450	•
7/8	**AN850814B**	1-5/16	25/32	15/16	25/32	625	•
15/16	**AN850815B**	1-3/8	3/4	31/32	25/32	625	•
1	**AN850816B**	1-7/16	3/4	1	13/16	625	•
1-1/16	**AN850817B**	1-17/32	25/32	1-1/32	13/16	625	•

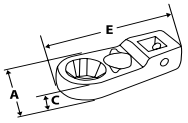
ASME®/ANSI® B107.21

Set includes storage tray.

3/8" DRIVE CROWFOOT WRENCHES



BFCRM712A





BFCR708A

Ratcheting, mm (Blue-Point®)

mm		A	C	E	Set Contains: BFCRM712A
8	**BFCRM8A**	17.8	6.5	49.3	•
9	**BFCRM9A**	19.5	7.4	50.8	•
10	**BFCRM10A**	21.5	8.0	53.8	•
11	**BFCRM11A**	22.0	8.5	53.8	•
12	**BFCRM12A**	23.5	9.0	57.2	•
13	**BFCRM13A**	25.0	10.0	57.2	•
14	**BFCRM14A**	27.0	10.0	60.3	•
15	**BFCRM15A**	28.5	11.0	63.5	•
16	**BFCRM16A**	30.5	11.0	66.7	•
17	**BFCRM17A**	34.5	12.0	68.3	•
18	**BFCRM18A**	36.5	12.0	71.4	•
19	**BFCRM19A**	36.5	12.9	73.0	•

Ratcheting, inches (Blue-Point®)

"		A	C	E	Set Contains: BFCR708A
5/16	**BFCR10A**	11/16	1/4	2	•
3/8	**BFCR12A**	27/32	5/16	2-1/8	•
7/16	**BFCR14A**	7/8	11/32	2-1/8	•
1/2	**BFCR16A**	31/32	13/32	2-1/4	•
9/16	**BFCR18A**	1-1/16	13/32	2-3/8	•
5/8	**BFCR20A**	1-3/16	7/16	2-5/8	•
11/16	**BFCR22A**	1-1/4	15/32	2-5/8	•
3/4	**BFCR24A**	1-7/16	1/2	2-7/8	•

Set includes FXLBP10—10″ locking extension

Set includes storage tray.

Crowfoot Wrench Holder



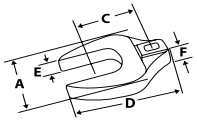
A277

A277 3/8″ Drive 8-3/4″ Crowfoot Wrench Holder

- Organizes and stores crowfoot wrenches
- 2 pc design snaps apart for access to desired size
- 8-3/4″ long

1/2" DRIVE CROWFOOT WRENCHES

Open End, mm



mm		A	C	E	F	Maximum Recommended Working Torque, in-lb
20	**SCOM20**	40.4	42.9	7.8	15.9	1,400
21	**SCOM21**	40.4	42.9	7.8	15.9	1,500
22	**SCOM22**	44.7	44.5	8.2	15.9	1,500
23	**SCOM23**	48.0	44.5	8.9	15.9	1,600
24	**SCOM24**	46.7	44.5	8.5	15.9	1,800
25	**SCOM25**	51.1	45.2	8.9	15.9	1,800
26	**SCOM26**	53.1	45.2	9.2	15.9	1,800
27	**SCOM27**	53.1	44.5	9.2	15.9	2,000
28	**SCOM28**	53.1	43.6	9.2	15.9	2,100
30	**SCOM30**	59.7	44.5	9.9	15.9	2,200
32	**SCOM32**	62.7	50.0	10.3	15.9	2,300
34	**SCOM34**	62.7	51.6	10.3	15.9	2,400
35	**SCOM35**	69.1	50.8	11.0	15.9	2,500
36	**SCOM36**	69.1	50.0	11.0	15.9	2,600
38	**SCOM38**	75.4	50.8	11.8	15.9	2,900
40	**SCOM40**	75.4	51.6	11.8	15.9	3,000
41	**SCOM41**	81.8	50.8	12.5	15.9	3,400
42	**SCOM42**	81.8	50.0	12.5	15.9	3,400
46	**SCOM46**	91.2	51.2	13.5	15.9	4,100
50	**SCOM50A**	100.8	53.8	14.6	16.1	—



SCOM32

Adjustable, inches/mm

ADCF8 3/8″ Drive Metric 0–29 mm Adjustable Crowfoot Wrench

- Metric and SAE scales
- Opening range from 0–1.14″ (0–29 mm)
- Lateral side nut is designed to work on difficult-to-access fasteners and minimizes dirt accumulation

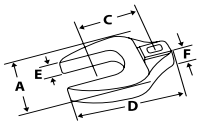


ADCF8

⚠WARNING

- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages W1 to W4

1/2" DRIVE CROWFOOT WRENCHES





314SC0A

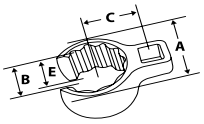
Open End, inches

Set Contains: 314SC0A

		A	C	E	F	Maximum Recommended Working Torque, in-lb	
15/16	**SC030**	1-27/32	1-15/32	11/32	5/8	1,800	
1	**SC032**	1-31/32	1-11/16	23/64	5/8	1,900	
1-1/16	**SC034**	2-3/32	1-3/4	3/8	5/8	2,000	•
1-1/8	**SC036**	2-7/32	1-3/4	3/8	5/8	2,100	•
1-3/16	**SC038**	2-11/32	1-3/4	13/32	5/8	2,200	•
1-1/4	**SC040**	2-15/32	2	13/32	5/8	2,300	•
1-5/16	**SC042**	2-19/32	2	7/16	5/8	2,400	•
1-3/8	**SC044**	2-23/32	2	7/16	5/8	2,500	•
1-7/16	**SC046**	2-27/32	2	7/16	5/8	2,600	•
1-1/2	**SC048**	2-31/32	2	15/32	5/8	2,900	•
1-9/16	**SC050**	2-31/32	1-31/32	15/32	5/8	3,000	
1-5/8	**SC052**	3-7/32	1-31/32	1/2	5/8	3,400	•
1-11/16	**SC054**	3-11/32	2-3/16	1/2	5/8	3,700	•
1-3/4	**SC056**	3-15/32	2-3/16	17/32	5/8	3,900	•
1-13/16	**SC058**	3-19/32	2-3/16	17/32	5/8	4,100	•
1-7/8	**SC060**	3-23/32	2-3/16	9/16	5/8	4,300	•
2	**SC064**	3-31/32	2-7/32	9/16	5/8	5,000	•
2-1/8	**SC068**	3-31/32	2-7/32	37/64	5/8	5,000	
2-1/4	**SC072**	3-31/32	2-13/32	37/64	5/8	5,000	
2-3/8	**SC076**	4-3/8	2-31/64	19/32	5/8	5,000	
2-7/16	**SC078**	4-3/8	2-7/16	19/32	5/8	5,000	
2-1/2	**SC080**	4-3/8	2-13/32	19/32	5/8	5,000	

ASME® B107.21

Set includes storage tray.





315AN

Flank Drive® Flare Nut/Deep, 12-Point, inches

Set Contains: 315AN

	12	A	B	C	E	Maximum Recommended Working Torque, in-lb	12
1-1/8	**AN850818B**	1-5/8	27/32	1-5/32	7/8	825	•
1-3/16	**AN850819B**	1-11/16	29/32	1-3/16	7/8	825	•
1-1/4	**AN850820B**	1-25/32	15/16	1-7/32	7/8	825	•
1-5/16	**AN850821B**	1-27/32	31/32	1-1/4	7/8	900	•
1-3/8	**AN850822B**	1-15/16	1-1/16	1-5/16	15/16	900	•
1-7/16	**AN850823B**	2	1-1/16	1-11/32	15/16	900	•
1-1/2	**AN850824B**	2-3/32	1-1/8	1-3/8	15/16	900	•
1-9/16	**AN850825B**	2-5/32	1-5/32	1-13/32	15/16	900	•
1-5/8	**AN850826B**	2-7/32	1-7/32	1-7/16	15/16	1,100	•
1-11/16	**AN850827B**	2-5/16	1-5/16	1-1/2	1-1/32	1,100	•
1-3/4	**AN850828B**	2-3/8	1-5/16	1-9/16	1-1/32	1,150	•
1-13/16	**AN850829B**	2-15/32	1-11/32	1-19/32	1-1/32	1,200	•
1-7/8	**AN850830B**	2-9/16	1-3/8	1-21/32	1-1/16	1,200	•
1-15/16	**AN850831B**	2-5/8	1-7/16	1-11/16	1-1/16	1,200	•
2	**AN850832B**	2-23/32	1-9/16	1-23/32	1-1/16	1,400	•
2-1/8	**AN850834B**	2-7/8	1-9/16	1-13/16	1-1/8	1,450	
2-3/16	**AN850835B**	2-15/16	1-21/32	1-27/32	1-1/8	1,500	
2-1/4	**AN850836B**	3-1/32	1-11/16	1-7/8	1-1/8	1,500	
2-3/8	**AN850838B**	3-3/16	1-13/16	1-31/32	1-3/16	1,600	
2-7/16	**AN850839B**	3-1/4	1-13/16	2	1-3/16	1,650	
2-9/16	**AN850841B**	3-7/16	1-29/32	2-3/32	1-9/32	1,750	
2-5/8	**AN850842B**	3-1/2	2-1/16	2-1/8	1-9/32	1,800	
2-11/16	**AN850843B**	3-19/32	2-1/16	2-5/32	1-9/32	1,800	
2-3/4	**AN850844B**	3-21/32	2-1/16	2-7/32	1-9/32	1,850	
3-1/8	**AN850850B**	4-1/8	2-5/16	2-7/16	1-5/16	2,000	

ASME® B107.21

Flank Drive® Straight Striking, 12-Point, inches/mm



		Set Contains: DX634				
12	mm	12	A	B	C	12
1-3/16	30	**DX138A**	7/8	2-3/32	7-35/64	•
1-1/4	32	**DX140A**	7/8	2-3/32	7-35/64	•
1-5/16	33	**DX142A**	7/8	2-3/32	7-35/64	•
1-3/8	35	**DX144A**	61/64	2-17/64	7-41/64	•
1-7/16	36	**DX146A**	61/64	2-17/64	7-41/64	•
1-1/2	38	**DX148A**	61/64	1-17/64	7-41/64	•
1-5/8	41	**DX152A**	1-9/64	2-5/8	7-53/64	•
1-11/16	43	**DX154A**	1-9/64	2-5/8	7-53/64	•
1-3/4	44	**DX156A**	1-7/32	2-13/16	7-29/32	•
1-13/16	46	**DX158A**	1-7/32	2-13/16	7-29/32	•
1-7/8	47	**DX160A**	1-7/32	2-13/16	7-29/32	•
—	50	**DXM50**	1-13/32	3-11/64	11-19/32	•
2	51	**DX164A**	1-13/32	3-11/64	11-19/32	•
2-1/16	52	**DX166A**	1-13/32	3-11/64	11-19/32	•
2-3/16	55	**DX170A**	1-17/32	3-29/64	11-47/64	•
2-1/4	57	**DX172A**	1-17/32	3-29/64	11-47/64	•
2-3/8	60	**DX176A**	1-21/32	3-23/32	11-55/64	•
2-7/16	62	**DX178A**	1-21/32	3-23/32	11-55/64	•
2-1/2	63	**DX180A**	1-21/32	3-23/32	11-55/64	•
2-9/16	65	**DX182A**	1-51/64	3-63/64	13	•
2-5/8	67	**DX184A**	1-51/64	3-63/64	13	•
2-3/4	70	**DX188A**	1-59/64	4-17/64	14-17/64	•
2-13/16	71	**DX190A**	1-59/64	4-17/64	14-17/64	•
2-15/16	75	**DX194A**	2-3/64	4-17/32	14-13/32	•
3	76	**DX196A**	2-3/64	4-17/32	14-13/32	•
3-1/8	79	**DX1100A**	2-17/64	4-29/32	17-37/64	•
3-3/8	85	**DX1108A**	2-17/64	4-29/32	17-37/64	•
3-1/2	89	**DX1112A**	2-29/64	5-19/64	17-51/64	•
3-3/4	95	**DX1120A**	2-21/32	5-17/32	17-51/64	•
3-7/8	98	**DX1124A**	2-21/32	5-17/32	17-57/64	•
4-1/8	105	**DX1132A**	2-59/64	6-1/32	18-9/64	•
4-1/4	108	**DX1136A**	2-59/64	6-1/32	18-9/64	•
4-1/2	114	**DX1144A**	3-5/32	6-25/32	20-1/64	•
4-5/8	117	**DX1148A**	3-5/32	6-25/32	20-1/64	•

ASME® B107.100

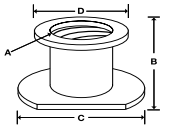


DX158A

Slugging Wrench Retainers

		Set Contains: HTX100P				
Stock No.	Description	A	B	C	D	
HTX24	Slugging Wrench Retainer	3/8	1-29/32	1-15/16	1-3/4	•
HTX28	Slugging Wrench Retainer	7/8	2	2-3/16	1-29/32	•
HTX32	Slugging Wrench Retainer	1	2-1/8	2-1/2	2-1/32	•
HTX36	Slugging Wrench Retainer	1-1/8	2-1/4	2-1/2	2-5/32	•
HTX40	Slugging Wrench Retainer	1-1/4	2-3/8	2-7/8	2-9/32	•
HTX44	Slugging Wrench Retainer	1-3/8	2-15/32	3-1/8	2-3/8	•
HTX48	Slugging Wrench Retainer	1-1/2	2-5/8	3-1/8	2-1/2	•
HTX52	Slugging Wrench Retainer	1-5/8	2-3/4	3-5/8	2-21/32	•
HTX56	Slugging Wrench Retainer	1-3/4	2-7/8	3-7/8	2-3/4	•
HTX60	Slugging Wrench Retainer	1-7/8	3	4-1/2	2-7/8	•

Set includes storage case.





HTX100P



HTX52

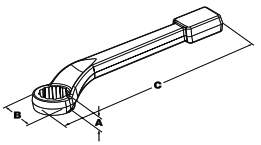
⚠WARNING

- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages W1 to W4

HEAVY-DUTY STRIKING WRENCHES


HX400B


HX1000A



Flank Drive® Offset Handle Sledge Hammer, 12-Point, inches/mm

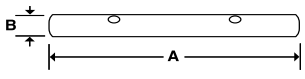
Set Contains: HX635

	mm	12	A	B	C	12
1-1/16	27	**HX340A**	11/16	1-5/8	10	•
1-1/8	—	**HX360A**	3/4	1-15/16	11	•
1-3/16	30	**HX380A**	3/4	1-15/16	11	•
1-1/4	32	**HX400B**	3/4	1-15/16	11	•
1-5/16	33	**HX420A**	3/4	1-15/16	11	•
1-3/8	35	**HX440A**	7/8	2-1/8	11-1/2	•
1-7/16	36	**HX460A**	7/8	2-1/8	11-1/2	•
1-1/2	38	**HX480A**	1	2-7/16	12	•
1-5/8	41	**HX520A**	1	2-7/16	12	•
1-11/16	43	**HX540A**	1-1/8	2-5/8	12-1/2	•
1-3/4	44	**HX560A**	1-1/8	2-5/8	12-1/2	•
1-13/16	46	**HX580A**	1-1/8	2-5/8	12-1/2	•
1-7/8	47	**HX600A**	1-1/4	2-7/8	13	•
1-15/16	49	**HX620A**	1-1/2	2-7/8	13	•
—	50	**HXM50**	1-1/4	2-7/8	13	•
2	51	**HX640A**	1-1/4	2-7/8	13	•
2-1/8	—	**HX680A**	1-3/8	3-1/4	13-9/16	•
2-3/16	55	**HX700A**	1-3/8	3-1/4	13-9/16	•
2-1/4	57	**HX720A**	1-3/8	3-1/4	13-9/16	•
2-5/16	59	**HX740A**	1-3/8	3-1/4	13-9/16	•
2-3/8	60	**HX760A**	1-1/2	3-5/8	14-1/8	•
2-1/2	64	**HX800A**	1-1/2	3-5/8	14-1/8	•
2-9/16	65	**HX820A**	1-1/2	3-5/8	14-1/8	•
2-5/8	67	**HX840A**	1-5/8	3-15/16	15	•
2-3/4	70	**HX880A**	1-5/8	3-15/16	15	•
2-7/8	73	**HX920A**	1-3/4	4-7/16	16	•
2-15/16	75	**HX940A**	1-3/4	4-7/16	16	•
3	76	**HX960A**	1-3/4	4-7/16	16	•
3-1/8	80	**HX1000A**	1-3/4	4-7/16	16	•
3-3/8	85	**HX1080A**	2	6-1/4	18-1/4	•
3-1/2	89	**HX1120A**	2	6-1/4	18-1/4	•
3-3/4	95	**HX1200A**	2	6-1/4	18-1/4	•
3-7/8	98	**HX1240A**	2	6-1/4	18-1/4	•
4-1/8	105	**HX1320A**	2	6-1/4	18-1/4	•
4-1/4	108	**HX1360A**	2	6-1/4	18-1/4	•

Set includes storage case.

HEAVY-DUTY TUBULAR WRENCHES


13B



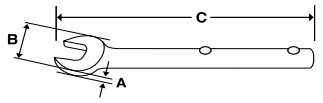
Tubular Handles

Stock No.	A	B	Size, inches
13B	13-1/2	7/8	13
24B	24	7/8	24
36B	36	1-9/64	36

Open-End Tubular, inches/mm

	mm	Stock No.	A	B	C	Fits Handle No.
7/8	—	**OE128C**	1/2	1-15/16	10-1/2	13B or 24B
15/16	—	**OE130C**	1/2	1-15/16	10-1/2	13B or 24B
1	—	**OE132C**	9/16	2-5/16	11-5/16	13B or 24B
1-1/16	27	**OE134C**	9/16	2-5/16	11-5/16	13B or 24B
1-1/8	—	**OE136C**	9/16	2-5/16	11-1/4	13B or 24B
1-1/4	32	**OE140C**	5/8	2-3/4	12-5/16	13B or 24B
1-5/16	33	**OE142C**	5/8	2-3/4	12-5/16	13B or 24B
1-3/8	35	**OE144C**	5/8	2-3/4	12-1/4	13B or 24B
1-7/16	36	**OE146C**	11/16	3-1/8	13-1/4	13B or 24B
1-1/2	38	**OE148C**	11/16	3-1/8	13-5/16	13B or 24B

ASME® B107.100



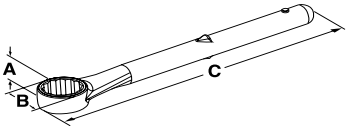


OE148C

Flank Drive® Straight Box, inches/mm

	mm	12	A	B	C	Fits Handle No.
3/4	—	**XH124C**	1/2	1-1/4	10-13/16	13B or 24B
13/16	—	**XH126C**	1/2	1-1/4	10-13/16	13B or 24B
7/8	—	**XH128C**	5/8	1-7/16	10-15/16	13B or 24B
15/16	—	**XH130C**	5/8	1-7/16	10-15/16	13B or 24B
1	—	**XH132C**	11/16	1-9/16	11	13B or 24B
1-1/16	27	**XH134C**	11/16	1-9/16	11	13B or 24B
1-1/8	—	**XH136C**	11/16	1-11/16	11-1/8	13B or 24B
1-1/4	32	**XH140C**	3/4	1-15/16	13-1/2	13B or 24B
1-5/16	33	**XH142C**	3/4	1-15/16	13-1/2	13B or 24B
1-7/16	36	**XH146C**	7/8	2-3/16	13-5/8	13B or 24B
1-1/2	38	**XH148C**	7/8	2-3/16	13-3/4	13B or 24B
1-5/8	41	**XH152C**	15/16	2-3/8	13-3/4	13B or 24B
3-1/8	79	**XH1100C**	1-3/4	4-15/16	14-7/8	36B

ASME® B107.100

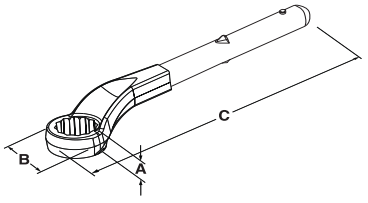




XH124C

Flank Drive® Offset Box, inches

Size, inches	12	A	B	C	Fits Handle No.
1-1/16	**X340B**	5/8	1-21/32	10-1/2	24B
1-1/8	**X360B**	47/64	1-29/32	10-45/64	24B
1-1/4	**X400C**	47/64	1-29/32	10-45/64	24B
1-5/16	**X420B**	13/16	2	10-51/64	24B
1-3/8	**X440B**	7/8	2-5/64	10-51/64	24B
1-7/16	**X460B**	7/8	2-11/64	10-51/64	24B
1-1/2	**X480B**	15/16	2-1/4	10-29/32	24B
1-9/16	**X500B**	15/16	2-21/64	10-29/32	24B
1-5/8	**X520B**	1	2-27/64	11	24B
1-11/16	**X540B**	1-1/16	2-39/64	13-19/64	36B
1-3/4	**X560B**	1-1/16	2-39/64	13-19/64	36B
1-13/16	**X580B**	1-1/8	2-3/4	13-13/32	36B
1-7/8	**X600B**	1-1/8	2-3/4	13-13/32	36B
2	**X640B**	1-1/4	2-31/32	13-1/2	36B
2-1/16	**X660B**	1-1/4	2-31/32	13-1/2	36B
2-3/16	**X700B**	1-5/16	3-15/64	13-39/64	36B
2-1/4	**X720B**	1-5/16	3-15/64	13-39/64	36B
2-3/8	**X760B**	1-3/8	3-13/32	13-45/64	36B
2-9/16	**X820B**	1-1/2	3-21/32	13-51/64	36B
2-5/8	**X840B**	1-1/2	3-3/4	13-29/32	36B
2-3/4	**X880B**	1-5/8	3-15/16	14	36B
2-15/16	**X940B**	1-11/16	4-5/32	14-7/64	36B
3-1/8	**X1000B**	1-3/4	4-13/32	14-13/64	36B





X1000B

⚠WARNING • Read safety precautions on pages W1 to W4

COMBINATION T- AND L-SHAPED WRENCHES

- Ergonomic soft grip handle provides comfort during repetitive tasks
- Deliver superior turning power
- Allow maximum pressure to be applied when loosening difficult fasteners with both “T” and “L” applications
- Blades are constructed from high-strength steel and hardened for durability
- Blade tips are black oxide coated to prevent chipping and to help maintain a secure fastener engagement
- Short blade provides maximum torque for tight quarters
- Long blade promotes quick fastener turning in difficult-to-access situations
- Hole in the handle for hanging tool or attaching a tether
- Color-coded handles identify metric and inch sizes at a glance



AWSGM800



AWBSGM800

Hex/Soft Grip Handle, mm

mm	Blue Handle	T-Length, mm	Length, mm	AWSGM800 Set Contains:
2	AWSGM2	95	152	•
2.5	AWSGM2.5A	95	152	•
3	AWSGM3A	98	152	•
4	AWSGM4A	98	187	•
5	AWSGM5A	117	187	•
6	AWSGM6	117	246	•
8	AWSGM8A	117	246	•
10	AWSGM10A	124	248	•

Set includes storage tray.

Ball Hex/Soft Grip Handle, mm

mm	Blue Handle	T-Length, mm	Length, mm	AWBSGM800 Set Contains:
2	AWBSGM2	95	152	•
2.5	AWBSGM25	95	152	•
3	AWBSGM3	98	152	•
4	AWBSGM4	98	187	•
5	AWBSGM5A	117	187	•
6	AWBSGM6	117	246	•
8	AWBSGM8	117	246	•
10	AWBSGM10	124	248	•

Set includes storage tray.



AWSG800



AWBSG800

Hex/Soft Grip Handle, inches

Red Handle	T-Length, inches	Length, inches	AWSG800 Set Contains:
AWSG06A	3-7/8	6	•
AWSG07	3-7/8	6	•
AWSG08	3-7/8	6	•
AWSG09	3-7/8	6	•
AWSG10	3-7/8	7-3/8	•
AWSG12A	4-3/4	7-3/4	•
AWSG14	4-3/4	7-3/4	•
AWSG16A	4-3/4	9-5/8	•
AWSG20A	4-3/4	9-5/8	
AWSG24A	4-3/4	9-5/8	

Set includes storage tray.

Ball Hex/Soft Grip Handle, inches

Red Handle	T-Length, inches	Length, inches	AWBSG800 Set Contains:
AWBSG06A	3-7/8	6	•
AWBSG07	3-7/8	6	•
AWBSG08	3-7/8	6	•
AWBSG09	3-7/8	6	•
AWBSG10	3-7/8	7-3/8	•
AWBSG12	4-3/4	7-3/4	•
AWBSG14	4-3/4	7-3/4	•
AWBSG16	4-3/4	9-5/8	•
AWBSG20	4-3/4	9-5/8	
AWBSG24A	4-3/4	9-5/8	

Set includes storage tray.

TORX®/Soft Grip Handle

#	Green Handle	Length, inches	T-Length, inches	AWSGT800 Set Contains:
T6	**AWSGT6**	6	3-7/8	
T7	**AWSGT7**	6	3-7/8	
T8	**AWSGT8A**	6	3-7/8	
T9	**AWSGT9A**	6	3-7/8	
T10	**AWSGT10A**	6	3-7/8	•
T15	**AWSGT15**	7-3/8	3-7/8	•
T20	**AWSGT20A**	7-3/8	3-7/8	•
T25	**AWSGT25**	7-5/8	4-3/4	•
T27	**AWSGT27**	7-5/8	4-3/4	•
T30	**AWSGT30**	9-5/8	4-3/4	•
T40	**AWSGT40**	9-5/8	4-3/4	•
T45	**AWSGT45**	9-3/4	4-3/4	•
T50	**AWSGT50**	9-3/4	4-3/4	

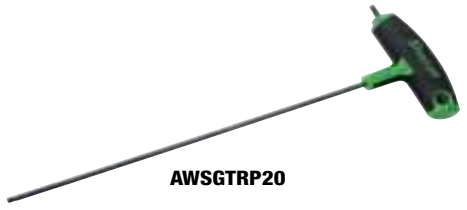
Set includes storage tray.



AWSGT800

TORX Plus®/Special Application

Size	Green Handle	T-Length, inches	Length, inches
T20	**AWSGTRP20**	3-7/8	10-1/2
T25	**AWSGTRP25**	4-3/4	10-1/2



AWSGTRP20

TORX®/Tamper-Proof

#	Stock No.	AWSGTPT800 Set Contains:
T6	**AWSGTPT6**	
T7	**AWSGTPT7**	
T8	**AWSGTPT8**	
T9	**AWSGTPT9**	
T10	**AWSGTPT10**	•
T15	**AWSGTPT15**	•
T20	**AWSGTPT20**	•
T25	**AWSGTPT25**	•
T27	**AWSGTPT27**	•
T30	**AWSGTPT30**	•
T40	**AWSGTPT40**	•
T45	**AWSGTPT45**	•
T50	**AWSGTPT50**	

Set includes storage tray.



AWSGTPT10



AWSGTPT800

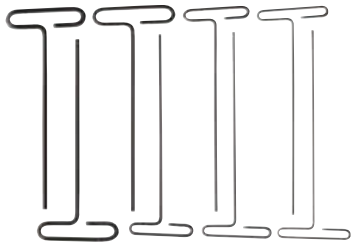
⚠WARNING

• Plastic handle does not protect against electric shock
• Read safety precautions on pages W1 to W4

T-SHAPE



AWMCG1600B



GAW1900A



AWCG1600B

Hex/T-Handle, mm

mm	Blue Handle 152 mm Length	AWMCG1600B Set Contains:
2.5	AWMCG16025B	•
2	AWMCG1602B	•
3	AWMCG1603B	•
4	AWMCG1604B	•
5	AWMCG1605B	•
6	AWMCG1606B	•
8	AWMCG1608B	•
10	AWMCG1610B	•

Hex/T-Handle, inches

	Standard Handle 9" Length	Red Handle 6" Length	GAW1900A Set Contains:	AWCG1600B Set Contains:
3/32	GAW1906	AWCG1606B	•	•
7/64	GAW1907	AWCG1607B	•	•
1/8	GAW1908	AWCG1608B	•	•
9/64	GAW1909	AWCG1609B	•	•
5/32	GAW1910	AWCG1610B	•	•
3/16	GAW1912	AWCG1612B	•	•
7/32	GAW1914	AWCG1614B	•	•
1/4	GAW1916	AWCG1616B	•	•
5/16	GAW1920	AWCG1620B	•	
3/8	GAW1924	AWCG1624B	•	



AWBMCG1600



AWBCG1600



AWCGT500

Ball Hex/ T-Handle, mm

mm	Blue Handle 228 mm Length	AWBMCG1600 Set Contains:
2	AWBMCG1602	•
2.5	AWBMCG16025	•
3	AWBMCG1603	•
4	AWBMCG1604	•
5	AWBMCG1605	•
6	AWBMCG1606	•
8	AWBMCG1608	•
10	AWBMCG1610	•

Set includes storage tray.

Ball Hex/ T-Handle, inches

	Red Handle 9" Length	AWBCG1600 Set Contains:
3/32	AWBCG1606	•
7/64	AWBCG1607	•
1/8	AWBCG1608	•
9/64	AWBCG1609	•
5/32	AWBCG1610	•
3/16	AWBCG1612	•
7/32	AWBCG1614	•
1/4	AWBCG1616	•
5/16	AWBCG1620	
3/8	AWBCG1624	

TORX®/ T-Handle

#	Green Handle 6" Length	AWCGT500 Set Contains:
T7	AWCGT7	
T8	AWCGT8	•
T10	AWCGT10	•
T15	AWCGT15	•
T20	AWCGT20	•
T25	AWCGT25	•
T27	AWCGT27	
T30	AWCGT30	
T40	AWCGT40	
T45	AWCGT45	

Wrench Stands

AWSTAND Storage Stand for L-Shaped/T-Shaped Wrenches

- Mounting holes on top and bottom of stand provide many mounting locations
- Another AWSTAND can be added for increased storage options
- Stands can mount to a Slots-N-Dots™ Plus personal workcenter or lie flat on top of tool box
- Stand holds the following wrench styles:

– L- or T-shaped SAE hex 1/16–3/8″ (excludes AWSG and AWSBSG series)
– L- or T-shaped metric hex 2–10 mm (excludes AWSGM and AWSBSGM series)
– L- or T-shaped TORX® T6 T50 (excludes AWSGT and AWSGTPT series)

- Metric or TORX® on one stand
- SAE and metric on one stand
- Metric and SAE ball wrenches

Tools not included with stand.

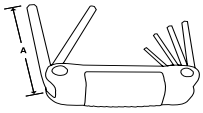


AWSTAND

FOLDING SETS

Hex, mm

mm	AWMEF7K	AWMEF8K	AWMEF6K
	A	A	A
1.5	45.7	—	—
2	50.8	50.8	—
2.5	55.9	55.9	—
3	61.0	61.0	83.8
4	66.0	66.0	88.9
5	78.7	78.7	96.5
6	83.8	96.5	101.6
7	—	106.7	—
8	—	121.9	121.9
10	—	—	129.5





AWMEF6K



AWMEF8K



AWMEF7K

AWMEF10K 10 pc Metric Folding Hex Key Set



AWEF6K



AWEF9K



AWTEF8K



AWEFBH9K

Hex, inches

	AWEF6K		AWEF9K
	A		A
5/32	2.7	0.05	1.8
3/16	3.3	1/16	1.9
7/32	3.5	5/64	2.0
1/4	3.7	3/32	2.1
5/16	4.8	7/64	2.3
3/8	5.1	1/8	2.4
		9/64	2.6
		5/32	2.7
		3/16	2.9

AWEF11K 11 pc SAE Folding Hex Key Set

TORX®

#	AWTEF8K
	A
T8	2.4
T10	2.7
T15	3.0
T20	3.2
T25	3.4
T27	3.5
T30	3.7
T40	3.9

AWTEF11K 11 pc TORX® Folding Hex Key Set

Ball Hex, inches

	AWEFBH9K
	A
5/64	2.0
3/32	2.1
7/64	2.3
1/8	2.4
9/64	2.6
5/32	2.7
3/16	2.9
7/32	3.5
1/4	3.7

AWEFBH11K 11 pc SAE Folding Hex Ball Key Set
AWMEFBH10K 10 pc Metric Folding Hex Ball Key Set

AWCPEF16K 16 pc Metric/SAE Folding Combination Hex Key Set

- Set includes (16 pc) AWEF9K hex set (.050–3/16″) and AWMEF7K metric hex set (1.5–6 mm)

⚠WARNING

- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

FOLDING SETS



AWHD8K



AWEF6M6K



AWTEFBH11K

Combination Folding Key Sets

AWHD8K 8 pc TORX®/Hex Folding Key Set
- Includes two TORX® sizes (T27, T40) and six hex sizes (5/32″, 3/16″, 7/32″, 1/4″, 5/16″ and 3/8″)
- Fits a wide range of Harley-Davidson® motorcycles

AWEF6M6K 12 pc Metric/SAE Folding Hex Key Set
- Includes (12) folding hex keys (SAE 5/64, 3/32, 7/64, 1/8, 9/64 and 5/32″) (metric 1.5, 2, 2.5, 3, 4 and 5 mm)
- Turn-and-flip feature eliminates the need for constant removal of the tool to reposition it in the screw head when working next to obstructions
- 90° stops turn the tool into a speed wrench
- Hex sizes molded into the storage case for easy identification of each hex
- Flutes in storage case allow for easy selection
- Access the blades from the top or bottom, eliminating the need to unstack the blades
- High-torque steel is 20% stronger and has twice the wear resistance of standard grades of steel
- Handle is 40% stronger than steel cases
- Corrosion-resistant finish is five times more resistant than the competition

TORX® Ball Hex

AWTEFBH11K 11 pc TORX® Folding Ball Hex Key Set
- New tri-fold design allows for up to five additional keys in the set, without increased size of housing
- Impact-modified nylon housing is designed to minimize the loss of torque transfer to hex keys and help prevent damage if dropped
- Black-oxide finish for corrosion protection
- Ball-end allows fasteners to be turned continuously without removing the key to reposition
- Includes (11) folding hex keys (T8–T50)

AWTEFTP11K 11 pc TORX® Tamper-Proof Folding Key Set

L-SHAPED



AWBPH13



AWBS13



AWBXL13



BHS13A



BHS7A



DBHS13

Ball Hex Key Sets

Ball hex allows up to 25° angle entry. Made from high strength steel.

AWBPH13 13 pc SAE L-Shaped Ball Hex Wrench Set
- Screw-holding tip holds fastener to tool for delicate installations
- Includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8″ sizes
- Includes plastic index

AWBS13 13 pc SAE L-Shaped Stubby Ball Hex Wrench Set
- Stubby length for access to tight quarters
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8″ sizes
- Includes plastic index

AWBXL13 13 pc SAE L-Shaped Extra-Long Ball Hex Wrench Set
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8″ sizes
- Includes plastic index

BHS13A 13 pc SAE L-Shaped Ball Hex Wrench Set
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, and 3/8″ sizes
- Includes plastic index

BHS7A 7 pc SAE L-Shaped Ball Hex Wrench Set
- Includes 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 3/16″ sizes
- Includes plastic index

DBHS13 13 pc SAE L-Shaped Double Ball Hex Wrench Set
- 100° angle bend allows for access to fasteners a 90° stubby key cannot reach
- 100° angle provides a ±10° range of motion, or full 20°, creating clearance to help prevent “knuckle-busting”
- Ball hex on short-arm has a thicker “neck” than traditional ball hex designs, providing up to 50% more torque on the long arm
- Long arm utilizes an XL-pattern to access fasteners in deep recesses, with standard ball-hex tip
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8″ sizes
- Includes plastic index

AWBMXL9 9 pc Metric Extra-Long L-Shaped Ball Hex Wrench Set
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

AWMBPH9 9 pc Metric L-Shaped Ball Hex Wrench Set
- Screw-holding tip holds fastener to tool for delicate installations
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

AWMBS9 9 pc Metric Stubby L-Shaped Ball Hex Wrench Set
- Stubby length for access in tight quarters
- Includes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

BHM9A 9 pc Metric L-Shaped Ball Hex Wrench Set
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

DBHM9 9 pc Metric L-Shaped Double Ball Wrench Set
- 100° angle bend allows for access to fasteners a 90° stubby key cannot reach
- Ball hex on short-arm has a thicker "neck" than traditional ball hex designs, providing up to 50% more torque on the long arm
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index



AWBMXL9



AWMBPH9



AWMBS9



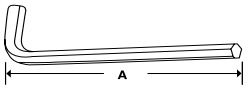
BHM9A



DBHM9



AWM110DHK





AW1013DK

Hex, mm, Zinc

	Stock No.	mm	A	Set Contains: AWM140DK*	AWM110DK*	AWM110DHK**
Standard Length	AWM2D	2	47.7	•	•	•
	AWM2-1/2D	2.5	52.0	•	•	•
	AWM3D	3	58.6	•	•	•
	AWM4D	4	65.6	•	•	•
	AWM5D	5	75.6	•	•	•
	AWM6D	6	82.2	•	•	•
	AWM7D	7	92.4	•	•	•
	AWM8D	8	99.2	•	•	•
	AWM9D	9	105.1	•	•	•
	AWM10D	10	111.4	•	•	•
	AWM12D	12	139.3	•	•	•
	AWM14D	14	138.8	•		
	AWM17D	17	167.2	•		
	AWM19D	19	193.6	•		
Long	AWML1.5D	1.5	77.7			
	AWML2D	2	83.0			
	AWML2.5D	2.5	89.8			
	AWML3D	3	100.0			
	AWML4D	4	107.0			
	AWML5D	5	118.5			
	AWML6D	6	141.0			
	AWML8D	8	161.5			
	AWML10D	10	172.0			
	AWML12D	12	193.6			

*Set includes C1209 storage bag.
**Set includes metal index.

Hex, inches, Zinc

Stock No.	"	A	Set Contains: AW1020DK*	AW1015DK*	AW1013DK*	AW1015DHK**
AW028D	0.028	1-1/4	•	•		•
AW035D	0.035	1-5/16	•	•		•
AW050D	0.050	1-3/4	•	•	•	•
AW2D	1/16	1-3/4	•	•	•	•
AW2-1/2D	5/64	1-7/8	•	•	•	•
AW3D	3/32	2	•	•	•	•
AW3-1/2D	7/64	2-1/8	•	•	•	•
AW4D	1/8	2-1/4	•	•	•	•
AW4-1/2D	9/64	2-3/8	•	•	•	•
AW5D	5/32	2-1/2	•	•	•	•
AW6D	3/16	2-3/4	•	•	•	•
AW7D	7/32	3	•	•	•	•
AW8D	1/4	3-1/4	•	•	•	•
AW10D	5/16	3-3/4	•	•	•	•
AW12D	3/8	4-1/4	•	•	•	•
AW14D	7/16	4-3/4	•			
AW16D	1/2	5-1/4	•			
AW18D	9/16	5-3/4	•			
AW20D	5/8	6-1/4	•			
AW24D	3/4	7-1/4	•			

*Set includes C1209 storage bag.
**Set includes metal index.

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

L-SHAPED



AWL1010DHK





MS1015KA

Hex/Long, inches, Zinc

Stock No.	A	Set Contains: AWL1010DK*	AWL1010DHK**
AWL3D	3/32	3-1/8	•	•
AWL3-1/2D	7/64	3-1/2	•	•
AWL4D	1/8	3-3/4	•	•
AWL4-1/2D	9/64	4	•	•
AWL5D	5/32	4-1/8	•	•
AWL6D	3/16	4-1/2	•	•
AWL7D	7/32	4-7/8	•	•
AWL8D	1/4	5-1/4	•	•
AWL10D	5/16	6	•	•
AWL12D	3/8	6-3/4	•	•
AWL14D	7/16	7-1/2		
AWL16D	1/2	8-1/4		
AWL18D	9/16	9		
AWL20D	5/8	9-3/4		

*Set includes storage bag.
**Set includes metal index.

Multi-Spline, Industrial

Stock No.	A	B	Set Contains: MS1015KA*
MS2A	4	.033	•
MS3A	4	.048	•
MS4A	6	.060	•
MS5A	4	.069	•
MS6A	4	.076	•
MS7A	6	.072	•
MS8A	6	.096	•
MS10A	6	.110	•
MS16A	6	.144	•
MS20A	6	.183	•
MS24A	6	.216	•
MS28A	6	.251	•
MS32A	6	.291	•
MS40A	6	.372	•
MS48A	6	.454	•

*Set includes storage bag.



AWMG9

Hex, mm, Gold Finish

Stock No.	mm	Set Contains: AWMG9
AWMG9-1	1.5	•
AWMG9-2	2	•
AWMG9-3	2.5	•
AWMG9-4	3	•
AWMG9-5	4	•
AWMG9-6	5	•
AWMG9-7	6	•
AWMG9-8	8	•
AWMG9-9	10	•



AWS13

Hex, SAE, Natural Finish

Stock No.		Set Contains: AWS13
AWS13-1	1/20	•
AWS13-2	1/16	•
AWS13-3	5/64	•
AWS13-4	3/32	•
AWS13-5	7/64	•
AWS13-6	1/8	•
AWS13-7	9/64	•
AWS13-8	5/32	•
AWS13-9	3/16	•
AWS13-10	7/32	•
AWS13-11	1/4	•
AWS13-12	5/16	•
AWS13-13	3/8	•



AWTPH8

TORX®/Screw Holding Tip

Stock No.	#	Set Contains: AWTPH8
AWTPHT9	T9	•
AWTPHT10	T10	•
AWTPHT15	T15	•
AWTPHT20	T20	•
AWTPHT25	T25	•
AWTPHT27	T27	•
AWTPHT30	T30	•
AWTPHT40	T40	•



AWTR8

TORX®/Tamper-Resistant

Stock No.	#	Set Contains: AWTR8
AWTR8-1	TR9	•
AWTR8-2	TR10	•
AWTR8-3	TR15	•
AWTR8-4	TR20	•
AWTR8-5	TR25	•
AWTR8-6	TR27	•
AWTR8-7	TR30	•
AWTR8-8	TR40	•



AWMXL10

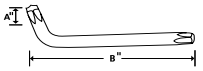
Hex/Extra-Long, mm

Set Contains: AWMXL10

Stock No.	mm	A	B	
AWMXL10-1.5	1.5	91.5	15	•
AWMXL10-2	2	102	17.5	•
AWMXL10-2.5	2.5	114.5	20	•
AWMXL10-3	3	129	22	•
AWMXL10-4	4	146	26	•
AWMXL10-5	5	165	32	•
AWMXL10-6	6	132	32.5	•
AWMXL10-7	7	160	37	•
AWMXL10-8	8	203	43	•
AWMXL10-10	10	223	49	•



AWT100KA



TORX®

Set Contains: AWT100KA

Stock No.	# t	A	B	
AWT8A	T8	.137	1-7/8	
AWT9A	T9	.148	1-7/8	
AWT10A	T10	.162	2	•
AWT15A	T15	.194	2-1/8	•
AWT20A	T20	.228	2-1/4	•
AWT25A	T25	.262	2-3/8	•
AWT27A	T27	.295	2-1/2	•
AWT30A	T30	.218	2-3/4	•
AWT40A	T40	.262	3	•
AWT45A	T45	.430	3-5/8	•
AWT50A	T50	.348	3-3/4	•
AWT55A	T55	.442	4-1/4	•



AWTXL8

TORX®/Extra-Long

Set Contains: AWTXL8

Stock No.	Hex Diameter Size (TORX®)	A	B	
AWTXL8-T9	T9	4	0.74	•
AWTXL8-T10	T10	4.25	0.81	•
AWTXL8-T15	T15	4.6	0.88	•
AWTXL8-T20	T20	4.95	0.94	•
AWTXL8-T25	T25	5.61	1.03	•
AWTXL8-T27	T27	6.02	1.18	•
AWTXL8-T30	T30	6.496	1.26	•
AWTXL8-T40	T40	7	1.46	•



DBT7

Double Ball TORX® Key

Set Contains: DBT7

Stock No.	#	
DBT10	T10	•
DBT15	T15	•
DBT20	T20	•
DBT25	T25	•
DBT27	T27	•
DBT30	T30	•
DBT40	T40	•



BLPPKTX5

Hex Pivot Head, mm (Blue-Point®)

Set Contains: BLPPKM5 BLPPKS5 BLPPKTX5

Stock No.	Description			
BLPPKM5-4	4 mm Metric Pivot Head Wrench (Blue-Point®)	•		
BLPPKM5-5	5 mm Metric Pivot Head Wrench (Blue-Point®)	•		
BLPPKM5-6	6 mm Metric Pivot Head Wrench (Blue-Point®)	•		
BLPPKM5-7	7 mm Metric Pivot Head Wrench (Blue-Point®)	•		
BLPPKM5-8	8 mm Metric Pivot Head Wrench (Blue-Point®)	•		
BLPPKS5-1/4	1/4″ SAE Pivot Head Wrench (Blue-Point®)		•	
BLPPKS5-3/16	3/16″ SAE Pivot Head Wrench (Blue-Point®)		•	
BLPPKS5-3/8	3/8″ SAE Pivot Head Wrench (Blue-Point®)		•	
BLPPKS5-5/16	5/16″ SAE Pivot Head Wrench (Blue-Point®)		•	
BLPPKS5-7/32	7/32″ SAE Pivot Head Wrench (Blue-Point®)		•	
BLPPKTX5-T30	T30 TORX® Pivot Head Wrench (Blue-Point®)			•
BLPPKTX5-T40	T40 TORX® Pivot Head Wrench (Blue-Point®)			•
BLPPKTX5-T45	T45 TORX® Pivot Head Wrench (Blue-Point®)			•
BLPPKTX5-T50	T50 TORX® Pivot Head Wrench (Blue-Point®)			•

Stock No.	Description			
BLPPKTX5-T47	T47 Pivot Head Wrench (Blue-Point®)			•

T47 is not a TORX® licensed product.



AWXL13

Hex, Extra-Long, SAE

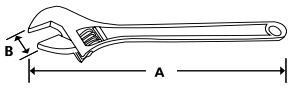
Set Contains: AWXL13

Stock No.	#	A	B	
AWXL13-050	0.05	3.1	0.58	•
AWXL13-1/16	1/16	3.4	0.63	•
AWXL13-1/4	1/4	6.7	1.4	•
AWXL13-1/8	1/8	4.6	0.88	•
AWXL13-3/16	3/16	5.4	1.1	•
AWXL13-3/32	3/32	4	0.74	•
AWXL13-3/8	3/8	8.2	1.8	•
AWXL13-5/16	5/16	7.4	1.6	•
AWXL13-5/32	5/32	5.3	1	•
AWXL13-5/64	5/64	3.7	0.69	•
AWXL13-7/32	7/32	5.85	1.3	•
AWXL13-7/64	7/64	4.25	0.81	•
AWXL13-9/64	9/64	4.95	0.94	•

⚠WARNING

- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

ADJUSTABLE





FADH704B

Flank Drive® Plus Adjustable/Cushion Handle

- Flank Drive® Plus provides up to 62% more turning power, allowing for more torque to the handle and reducing fastener wear
- Durable finish provides corrosion resistance
- High-strength alloy steel provides greater wrench strength and longer tool life

Stock No.	A inches (mm)	B inches (mm)	Set Contains: FADH702A	FADH704B
FADH6B	6 (152)	3/4 (19)		•
FADH8B	8 (203)	15/16 (24)	•	•
FADH10B	10 (254)	1-1/8 (29)		•
FADH12B	12 (304)	1-5/16 (33)	•	•

ASME® Standard

Sets include storage tray.

Colors Available

Red Orange Green
O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



AD704B



AD120A

Adjustable

- Opposing fractional and metric quick sizing scales are provided for convenience
- High-strength alloy steel machined to exacting specs and precision heat treated for strength and durability
- Nickel-chrome finish helps protect against corrosion and speeds clean up

Stock No.	A inches (mm)	B inches (mm)	Set Contains: AD702	AD704B
AD6B	6 (155)	25/32 (20)		•
AD8B	8 (205)	1-1/16 (27)	•	•
AD10B	10 (255)	1-3/16 (30)		•
AD12B	12 (305)	1-11/32 (34)	•	•

ASME® B107.100

Sets include storage tray.

AD120A 10″ Adjustable Wrench



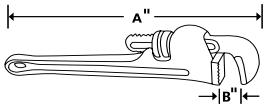
ADHW6A

Wide-Mouth Adjustable/Cushion Handle

- Opens larger than standard adjustable wrench
- Longer jaws and slimline design for greater reach
- Metric and fractional scales for quick observation
- Adjustable moving jaw will not fall out, even when at max opening
- Elastomer handle is soft, insulates against cold and provides a nonslip surface
- ADHW6A opens as wide as an 8″ adjustable wrench; ADHW8A opens as wide as a 10″ adjustable wrench

Stock No.	A	B
ADHW6A	6 (152)	1-1/4 (32)
ADHW8A	8 (203)	1-1/2 (38)
ADHW10A	10 (254)	1-3/4 (44.5)
ADHW12A	12 (305)	2 (50.8)

ASME® B107.100





PW10C



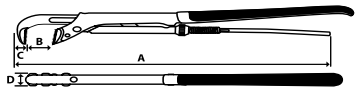
PWA10A

Pipe Wrenches

Stock No. Coated Handle	Stock No. Aluminum Handle	A	B
PW6C	—	6	3/4
PW8C	—	8	1
PW10C	PWA10A	10	1-1/2
PW12C	—	12	2
PW14C	PWA14A	14	2
PW18C	PWA18A	18	2-1/2
PW24C	PWA24A	24	3
PW36C	PWA36A	36	5

Pliers Wrenches

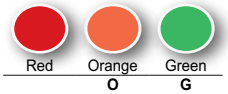
- Inwardly angled teeth (fine teeth at back of jaw, coarse teeth at front of jaw) for a stronger grip
- Quick adjustment of grip width
- Built-in guard against unthreading
- Soft, warm to the touch, high-friction handle surfaces with a strong, stable core





PWZ1

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

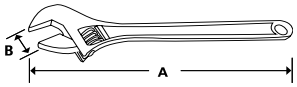
Stock No.	A	B	C	D	Weight, lb
PWZ0	8-3/16	1-1/2	5/16	9/16	1
PWZ1	12-5/8	1-3/4	1/2	3/4	1-5/8
PWZ2	17	2-1/2	5/8	13/16	2-1/2
PWZ3	21-1/2	3-1/2	3/4	1	6-3/8
PWZ4*	28-5/8	4-5/8	1-1/2	1-5/16	12
PWZ5*	41-3/4	6-5/16	1-1/2	1-3/8	17

*Only available in Red

ADJUSTABLE (Blue-Point®)

Standard, Industrial (Blue-Point®)

- Inch and metric scales on fixed jaw indicate wrench opening
- Fixed jaw and handle forged in one piece to ensure maximum strength
- Wrench is balanced to minimize wrist stress
- Hole in the handle end for a tether or hanging





GAJS30A GAJS30



BLPADJ404

Stock No.	A inches (mm)	B inches (mm)	Set Contains: BLPADJ703	Set Contains: BLPADJ404
GAJ4A	4 (108)	1/2 (13)		
GAJ6A	6 (160)	1 (25.4)		•
GAJ8A	8 (210)	1-1/8 (29)		•
GAJ10A	10 (260)	1-9/32 (33)		•
GAJ12A	12 (310)	1-1/2 (38)		•
GAJ15A	15 (385)	1-19/32 (43)	•	
GAJ18A	18 (450)	2-1/16 (52)	•	
GAJ24A	24 (610)	2-7/16 (62)	•	
GAJS30*	30 (778)	3-11/32 (85)		
GAJS30A	30 (778)	3-11/32 (85)		

*Side-Adjustable nut style provides smoother operation, allows greater jaw opening and offers minimum jaw play ASME® B107.10

Sets include storage tray.

Soft Grip, Industrial (Blue-Point®)



BLPADJ404SG

Stock No.	A inches (mm)	B inches (mm)	Set Contains: BLPADJ404SG
GAJ6SG	6 (160)	1 (25.4)	•
GAJ8SG	8 (210)	1-1/8 (29)	•
GAJ10SG	10 (260)	1-9/32 (32.8)	•
GAJ12SG	12 (310)	1-1/2 (38)	•

Set includes storage tray.

Aluminum (for AN fittings)

- Securely tighten expensive AN fittings to reduce the risk of damage in aircraft, marine and industrial applications, as well as for race and show cars
- Machined from aluminum billet to exacting tolerances and made from quality heat-treated aluminum



ANADJ8A

Stock No.	Overall Length, inches (mm)	Maximum Opening
ANADJ8A	8 (203)	AN #10 (1″)

⚠WARNING

- Do not use "cheater bars" on handles
- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION



N6893B

Valve Persuader

N6893B 1-1/4″ Valve Persuader Wrench

- Persuader end provides extra leverage on valve wheels
- Hooks around valve stems and protrudes through spokes
- 15″ long
- Opening is 1-1/4″

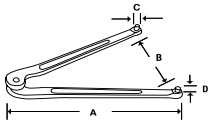


FRW10

Extension Wrench

FRW10 Offset Extension Wrench

- 10″ of reach to fastener
- 0° swing arc
- Allows impact and pneumatic wrenches to reach fasteners buried in assemblies
- Allows ratchet to swing free and clear where obstructions limit swing arc closer to the fastener





AFS482C

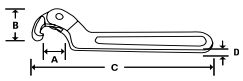
Adjustable Face Pin Spanners

Used for servicing seal and packing nuts on hydraulic cylinders.

6-3/8″ Adjustable Face Pin Spanner Wrench

- Used for servicing seal and packing nuts on hydraulic cylinders

Stock No.	A	B	C	D
AFS482C	6-3/8	2	3/16	5/32
AFS483C	8-1/4	3	1/4	3/16
AFS484C	10-3/8	4	5/16	1/4





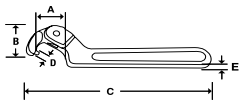
304AHSKA

Adjustable Hook Spanners

- Service collars, rings and bearings
- Single jaw and roll pin construction with industrial finish
- Assure that jaw hook is properly positioned when in use

C0412 Kit Bag (For 304AHSKA/304APSKA Sets)

Stock No.	A	B	C	D	304AHSKA Set Contains:
AHS300C	3/4–2	1/8	6-3/8	11/32	•
AHS301C	1-1/4–3	5/32	8-1/8	13/32	•
AHS304C	2–4-3/4	3/16	11-3/8	15/32	•
AHS307C	4-1/2–6-1/2	1/4	12-1/8	15/32	•





304APSKA

Adjustable Pin Spanners

- Remove rings, collars and lock nuts
- Assure that jaw hook is properly aligned when in use

C0412 Kit Bag (For 304AHSKA/304APSKA Sets)

Stock No.	A	B	C	D	E	304APSKA Set Contains:
APS351C	3/4–2	1/8	6-3/8	1/8	11/32	•
APS357C	1-1/4–3	3/16	8-1/8	3/16	11/32	•
APS363C	2–4-3/4	1/4	11-3/8	1/4	15/32	•
APS366C	4-1/2–6-1/4	1/4	12-1/8	3/8	15/32	•

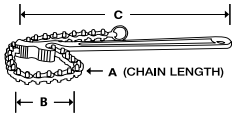
SPECIAL APPLICATION (Blue-Point®)



CW12A



VGP18110





BLPSTWRKT

Chain Wrenches (Blue-Point®)

Stock No.	A	B	C	Replacement Chain
CW12A	16	4	12	CW12A-1
CW15A	19	5	15	CW15A-1
CW24A	23	6	24	CW24A-1

VGP18110 Locking Chain Wrench (Blue-Point®)

- Wraps around and holds irregular shaped objects like oil filters and mufflers
- Chain capacity: up to 6-9/32″ (160 mm)
- Handle length: 9-27/32″ (250 mm)

VGP181101 Replacement Chain, for VGP18110 (Blue-Point®)

VGP181102 Replacement Chain with cutters, for VGP18110 (Blue-Point®)

Strap Wrenches (Blue-Point®)

- Adjusts to fit any circumference or irregular shape
- Will not scratch or damage surfaces
- Cushioned grip for maximum comfort
- Heavy-duty construction for longer life

BLPSTWR4 4″ Strap Wrench (Blue-Point®)

- 4″ max diameter

BLPSTWR6 6″ Strap Wrench (Blue-Point®)

- 6″ max diameter

BLPSTWRKT 2 pc Strap Wrench Set (4–6″) (Blue-Point®)

- BLPSTWR4 and BLPSTWR6 (2 pc)



WITH HIGH-STRENGTH ALLOYS, ALUMINUM, ENGINEERED COMPOSITES AND OTHER WEIGHT-REDUCING MATERIALS UTILIZED IN TODAY'S VEHICLES, ACCURATE TORQUE IS MORE CRITICAL THAN EVER. SNAP-ON® HAS EXPANDED OUR RANGE OF TORQUE MEASUREMENT TO HANDLE AN EVEN BROADER RANGE OF TORQUE AND ANGLE APPLICATIONS.

PRECISELY THE QUALITY AND RELIABILITY YOU NEED, TOO.

Strict manufacturing makes our torque tools more dependable and durable. And features like progressive LEDs, large backlit LCD panels and multiple measurement and alert modes make our TechAngle® electronic torque wrenches more productive. For simpler applications, our compact mechanical torque wrenches provide accuracy and reliability no matter what the drive size, length, head articulation or measurement scale. Plus our TQ Series split-beam wrenches deliver unbeatable comfort, durability and easy-to-set torque adjustment.

TECHANGLE® TORQUE WRENCHES


ATECH1FR240B


ATECH2FR100B


ATECH2FR125B


ATECH1FS100


ATECH1FS240

TechAngle® Models (2% Accuracy)

- **DUAL PROGRESSIVE LEDs** allow user to see active torque at various work positions; enables the user to anticipate torque target for more accurate torque application
- **LARGE LCD SCREEN** with bright backlight; numbers become larger and bolder during active torque for optimal viewing
- **FOUR ALERT MODES** (LCD, LED, Audible, Vibratory) provide excellent feedback in all working conditions
- **SIX MEASUREMENT MODES** (ft-lb, in-lb, Nm, dNm, kg-cm, and angle) at the touch of a button
- **10 PRESETS** allow programming of common torque applications which saves time
- **ADVANCED FEATURES** include cycle counter, customizable sleep timer, language selection, auto torque calculation for torque adaptors, calibration alerts, battery level indication, and numerous alert mode customizations, allowing the user to customize the torque wrench to your work preferences
- **TORQUE-THEN-ANGLE MODE** allows the user to torque fasteners and then switch to angle mode without removing the torque wrench from a fastener
- **MULTI-AXIS GYRO COMPENSATION** patent pending mechanism compensates for tilt angle while tightening in a flexed position providing greater accuracy
- **MULTI-LINGUAL DISPLAY** programmable to display commands and signals in English, Spanish, French or German
- **LOW-PROFILE BUTTONS** protect against accidental activation
- **HIGHLY ACCURATE** torque measurement; 2% CW and 3% CCW
- **POWER INTERRUPTION TECHNOLOGY** prevents loss of continuity if dropped; prevents loss of work during head bolt pattern applications
- **COMFORTABLE HANDLE WITH FLARED END** provides a secure, non-slip grip during high-leverage applications
- **PROTECTED BATTERY CAP** design with solid brass contacts prevents accidental loosening and ensures continuity
- **TWO YEAR WARRANTY** standard on ATECH and CTECH models
- **STORAGE CASE** included
- **LOW END ACCURACY (ATECH125 MODELS)** ±2% CW/ ±3 CCW, 20–100% F.S.; ±4% CW/±6% CCW, 5–19% F.S.

Specification Name	ATECH1FR240B*	ATECH2FR100B	ATECH2FR125B	ATECH1FS100	ATECH1FS240	ATECH2CS100
Square Drive, inches	1/4	3/8	3/8	1/4	1/4	3/8
Color	Black Housing/ Chrome Body	Black Housing/ Chrome Body	Black Housing/ Chrome Body	Chrome	Chrome	Chrome
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head
Gear Teeth	72	80	80	72	72	72
Gear Action	5°	4.5°	4.5°	5°	5°	5°
Range, in-lb	12–240	60–1,200	60–1,500	4–100	12–240	4–100
Range, ft-lb	1–20	5–100	5–125	.33–8.3	1–20	.33–8.33
Range, N•m	1.36–27.12	6.78–135.0	6.78–169.48	.45–11.25	1.36–27.12	.48–12
Head Depth, inches	7/16	9/16	9/16	7/16	7/16	29/32
Head Width, inches	7/8	1-1/4	1-1/4	7/8	7/8	7/8
Weight (without batteries), lb (kg)	1.9 (8.6)	2.3 (1.04)	2.2 (0.9)	.93 (0.42)	.93 (0.42)	.90 (.41)
Battery, Type (qty)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	Lithium Metal (1)	Lithium Metal (1)	Lithium Metal (1)
Length, inches	16.4	17.9	17.9	11.6	11.6	11.5
Ratchet Service Kit	RKRT72A	RKRF80	RKRFLLF80	RKRT72A	RKRT72A	RKRFC72
Flex Joint Repair Kit	RKRT841JT	RKRQD2JT	RKRFLLF80JT	TECH1FRATA	TECH1FRATA	TECH2FCRAT
Storage Case	PBATECH100B	PBATECH100B	PBATECH100B	PBATECH240M	PBATECH240M	PBQD1
Red	ATECH1F240RB	—	ATECH2F125RB	—	—	—
Green	ATECH1F240GB	—	ATECH2F125GB	—	—	—
Orange	ATECH1F240OB	—	ATECH2F125OB	—	—	—

(US #9156148, #9395257, #9242356, #D702519)

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading, ±1 degree at angular velocity › 10 deg/sec ‹ 180 deg/sec, +/- 1 deg of test fixture; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.



ATECH2FS100



ATECH2FM100



ATECH3FS250



ATECH3FR250B



ATECH3FR300B



ATECH4RS600





Protected Battery Cap
Designed with solid brass contacts prevents accidental loosening and ensures continuity.

ATECH2FS100	ATECH2FM100	ATECH3FS250	ATECH2CS240	ATECH3FR250B	ATECH3FR300B	ATECH4RS600*
3/8	3/8	1/2	3/8	1/2	1/2	3/4
Chrome	Chrome	Chrome	Chrome	Black Housing/ Chrome Body	Black Housing/ Chrome Body	Chrome
Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Fixed Head
80	80	80	72	80	80	32
4.5°	5°	4.5°	5°	4.5°	4.5°	11°
60–1,200	60–1,200	150–3,000	12–240	150–3,000	1,480–3,600	360–7,200
5–100	5–100	12.5–250	1–20	12.5–250	15–300	30–600
6.8–135.0	7–135	16.9–339	1.5–30	16.9–339	20.3–406.7	40.7–813.5
9/16	1-1/16	3/4	29/32	3/4	3/4	1-1/4
1-1/4	1-3/16	1-5/8	7/8	1-5/8	1-5/8	2-1/2
2.85 (1.29)	1.6 (.73)	4.35 (1.97)	.93 (.42)	3.75 (1.68)	3.95 (1.79)	10.95 (4.96)
Lithium Metal (1)	Lithium Metal (1)	AA Alkaline (3)	Lithium Metal (1)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)
19.1	15.4	26.7	11.5	26.6	30	48.7
RKRF80	**RKRFBO**	**RKRS80A**	**RKRFC72**	**RKRS80A**	**RKRS80A**	**RKRQC4**
RKRQD2JT	**TECH2FRATA**	**RKRSX936JT**	**TECH2FCRAT**	**RKRSX936JT**	**TECH3FRATB**	—
PBATECH100B	**PBQD2**	**PBATECH250B**	**PBQD1**	**PBATECH250B**	**PBATECH300B**	**PBATECH4**
—	—	—	—	—	**ATECH3F300RB**	—
—	—	—	—	—	**ATECH3F300GB**	—
—	—	—	—	—	**ATECH3F300OB**	—

* Includes protective boot

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading, ±1 degree at angular velocity › 10 deg/sec ‹ 180 deg/sec, +/- 1 deg of test fixture; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

CONTROLTECH® INDUSTRIAL TORQUE WRENCHES



Standard Models/2% Accuracy/Ratcheting Head

FEATURES:

- Torque and Angle combo modes provide the most accurate and fastest way to achieve torque plus angle in a single motion (patent pending)
- Built-in calibration factor for different head lengths (patent pending)
- Dual side LED indicator lights with configurable settings
- Large LCD screen with backlight
- Four indicator modes: LCD, LED, audible, vibratory
- Presets with lockout ability
- Sequence programming and job mode
- USB downloadable data
- Industry-leading two year warranty
- Includes storage case
- Complies with ISO®-6789-2003 and ASME® B107.300 (B107.28) Standards for Electronic Torque Instruments
- CTECH wrenches are manufactured with an all-steel body for strength • CTECHL wrenches are manufactured for rugged black anodized 6061-T aerospace aluminum from durability and reduced weight SPECIFICATIONS:
- Torque Accuracy: ±2%CW, ±3CCW
- Angle Accuracy: ±1% of reading, ±1° @ Angular Velocity ›10°/Sec ‹ 180°/Sec
- Angle Range: 0–360°
- Storage Capacity: 1,500 readings
- Number of Presets: 50
- Operating Temperature: 0–130 °F (-18–54 °C)
- Storage Temperature: 0–130 °F (-18–54 °C)

Standard Models/2% Accuracy/Interchangeable Head

- Snap-on® ControlTech® Industrial Electronic Torque Wrenches are fully programmable for reliable and consistent torque application
- Torque plus Angle combo modes allow the user to simultaneously complete precise “torque plus turn” specifications in a single motion
- In addition to the LED indicator lights, an audible beep and handle vibration alert the user when target torque is achieved
- The rugged all-steel construction is designed to stand-up to even the toughest work conditions

Stock No.	Head Type	Square Drive, inches	Gear Teeth	Gear Action	Torque Range, in-lb	Torque Range, ft-lb	Torque Range, N•m	Shank Diameter, inches	Weight, lb (kg)	Length, inches (mm)
CTECH1FR240A*	Sealed Flex Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	2.0 (.9)	14.1 (358)
CTECH1R240A*	Fixed Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	2.0 (.9)	14.1 (358)
CTECH2FR100A**	Sealed Flex Head	3/8	80	4.5°	60–1,200	5.0–100.0	6.8–135.6	—	2.7 (1.2)	17.2 (437)
CTECH3FR250A***	Sealed Flex Head	1/2	80	4.5°	150–3,000	12.5–250	16.9–339	—	4.5 (2.10)	26.7 (678)
CTECH4R600A†	Sealed Fixed Head	3/4	32	11°	360-7,200	30–600	40.7–813.5	—	10.5 (4.8)	48.6 (1,234)
CTECH1J240A	Interchangeable	—	—	—	12–240	1.0–20.0	1.4–27.2	J (0.425″)	1.8 (0.8)	12.5 (318)
CTECH2Y100A	Interchangeable	—	—	—	60–1,200	5–100	6.8–135.6	Y (0.560″)	2.7 (1.2)	17.2 (437)
CTECH3X250A	Interchangeable	—	—	—	150–3,000	12.5–250	16.9–339	X (0.735″)	3.6 (1.6)	24.1 (612)
CTECH4Z600A	Interchangeable	—	—	—	30–600	360–7,200	40.7–813.5	Z (0.990″)	7.6 (3.5)	44.8 (1,138)
CTECHL1J240A	Interchangeable	—	—	—	1.0–20.0	12–240	1.4–27.2	J (0.425″)	1.0 (0.45)	12.5 (316)
CTECH1JM240	Interchangeable	—	—	—	12–240	1–20	1.36–27.12	J (0.425″)	0.80 (0.36) w/battery, excluding case	10.15 (258)
CTECHL1R240A	Sealed Fixed Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	1.2 (0.54)	14.1 (358)
CTECHL1240A	Fixed Head	1/4	—	—	1.0–20.0	12–240	1.4–27.2	—	1.1 (0.49)	12.4 (315)
CTECHAN135A	IZO/ISO (Interchangeable)	—	—	—	60–1,195	5.0–99.6	6.8–135.0	9 x 12 mm	2.85 (1.2) w/o head, w/ batteries	17.8 (452) w/o head
CTECHAN30A	IZO/ISO (Interchangeable)	—	—	—	1.11–22.13	13.3–365.5	1.50–30.00	9 x 12 mm	2.0 (.9) w/o head, w/ batteries	13.3 (338) w/o head
CTECHBN340A	IZO/ISO (Interchangeable)	—	—	—	12.5–250.8	150–3,009	17.0–340.0	14 x 18 mm	3.75 (1.7) w/o head, w/ batteries	23.9 (607) w/o head
CTECHANM30	IZO/ISO Interchangeable Head	—	—	—	13.3–265.5	1.11–22.13	1.5–30	9 x 12 mm	—	—
CTECH1MR240	Fixed Head	1/4	72	5º	12–240	1–20	1.36–27.12	—	0.93 (0.42)	11.6 (295)
CTECH2MR240	Fixed Head	3/8	80	4.5º	12–240	1–20	1.36–27.12	—	0.93 (0.42)	11.6 (295)
CTECH2MR1200	Fixed Head	3/8	80	4.5º	60–1,200	5–100	6.8–135.6	—	1.6 (.73)	15.4 (391)
CTECH1MR100	Fixed Head	1/4	72	5º	5–100	0.42–8.33	0.57–11.30	—	0.9 (0.41)	10.9 (267)
CTECH2MR100	Fixed Head	3/8″	72	5º	5-100	0.42 - 8.33	0.57 - 11.30	—	0.9 (0.41)	10.9 (267.05)
CTECHYM1200	Interchangeable	—	—	—	60–1,200	5–100	6.8–135.6	Y (0.560″)	1.4 (.63)	13.75 (349)

*Uses Ratchet Service Kit RKRT72A Includes three AAA Lithium batteries.
***Uses Ratchet Service Kit RKRS80A. Includes three AA Lithium batteries.
CTAL Torque Wrenches include three AAA Lithium batteries.
**Uses Ratchet Service Kit RKRF80. Includes three AA Lithium batteries.
†Uses Ratchet Service Kit RKRQC4. Includes three AA Lithium batteries.



TECH2R100



TECH4R600

Standard Models/2% Accuracy/Fixed Head

- Manual preset, automatic track and peak hold modes
- Torque units conversion: N•m, ft-lb, in-lb
- Audible (tone) and tactile (vibrating handle) preset alerts
- Stand on handle bottom keeps tool from rolling off flat surface
- Dual 80® Technology on all 72- and 80-tooth ratchet heads
- Low battery indicator and auto shutoff (after two minutes idle)
- ISO® 6789-2003 and ASME® B107.300-2010 standards compliant
- Certificate of NIST® traceability for 20–100% of full scale

Specifications	TECH1R240	TECH2R100	TECH3R250	TECH4R600
Square Drive, inches	1/4	3/8	1/2	3/4
Head Type	Sealed Fixed Ratchet	Sealed Fixed Ratchet	Sealed Fixed Ratchet	Sealed Fixed Ratchet
Gear Teeth	5°	4.5°	4.5°	11°
Gear Action	72	80	80	32
Range, in-lb	24–240	60–1,200	300–3,000	720–7,200
Range, ft-lb	2–20	5–100	25–250	60–600
Range, N•m	2.71–27.12	6.8–135	34–339	81–813
Head Depth, inches	7/16	5/8	3/4	1-1/4
Head Width, inches	7/8	1-5/32	1-5/8	2-1/2
Length, inches	15-1/4	17-1/4	26-1/4	48
Operating Temperature	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)
Storage Temperature	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)
Battery, Type (qty)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)
Ratchet Service Kit	**RKRT72A**	**RKRF80**	**RKRS80A**	**RKRQC4**
Storage Case	**PBTECH2**	**PBTECH2**	**PBTECH3**	**PBATECH4**

CE



TECH3FR250

Standard Models/2% Accuracy/Flex Head

- Techwrench® (standard models)
- Torque accuracy ratchet head models: 2% CW, 3% CCW from 20–100% F.S.; 4% CW, 6% CCW from 10–19% F.S. 8% CW; 10% CCW from 5–9% of full scale (TECH Z only)
- Torque accuracy interchangeable head models: 4% CW, 6% CCW from 20–100% F.S. (TECH Y only)
- Sealed flex head ratchets move ±15°

Specifications	TECH1FR240	TECH2FR100	TECH3FR250
Square Drive, inches	1/4	3/8	1/2
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head
Gear Teeth	5°	4.5°	4.5°
Gear Action	72	80	80
Range, in-lb	24–240	60–1,200	300–3,000
Range, ft-lb	2–20	5–100	25–250
Range, N•m	2.7–27.1	6.8–135	34–339
Head Depth, inches	7/16	5/8	3/4
Head Width, inches	7/8	1-5/32	1-5/8
Length, inches	15-1/4	17-1/4	26-1/4
Operating Temperature	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)
Storage Temperature	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)
Ratchet Service Kit	**RKRT72A**	**RKRF80**	**RKRS80A**
Storage Case	**PBTECH2**	**PBTECH2**	**PBTECH3**



TECH2Y100



TECH4Z600

Standard Models/4% Accuracy/ Interchangeable Head

Specifications	TECH1J240	TECH2Y100	TECH3X250	TECH4Z600
Head Type	Interchangeable	Interchangeable	Interchangeable	Interchangeable
Range, in-lb	24–240	60–1,200	300–3,000	720–7,200
Range, ft-lb	2–20	5–100	25–250	60–600
Range, N•m	27.1–27.12	6.8–135	34–339	81–813
Shank Dia.	J (0.425″)	Y (0.560″)	X (0.735″)	Z (0.990″)
Length, inches	13-3/4	15-1/2	23-3/4	42
Operating Temperature	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)
Storage Temperature	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)
Storage Case	**PBTECH2**	**PBTECH2**	**PBTECH3**	**PBATECH4**

Wrench length specification does not include the length of interchangeable heads.
The certification of accuracy provided per ASME® and ISO® standards is 20%–100% of full scale.

*CE

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

ADJUSTABLE CLICK-TYPE







The QD Series of Click-Type Torque Instruments feature an innovative design that provides consistently accurate readings and rugged, trouble-free performance.

FEATURES:

- **CERTIFICATE OF CALIBRATION:** A Certificate of Calibration is packed with every QD Series Torque Instrument. Actual certification readings and individual instrument serial number are included. Each torque instrument, as calibrated at the factory, is certified to meet the accuracy specified in ANSI® B107.300-2010 (B107.14) and was calibrated on a torque standard traceable to the National Institute of Standards Technology (NIST®).
- **ACCURACY:** All QD Series Torque Wrenches are accurate to ±4% clockwise and ±6% counterclockwise from 20% of full scale to full scale
- **LONG LIFE RATCHET HEAD:** QD Series Torque wrenches feature the Snap-on® High-Strength Sealed Ratchet Head. Sealed ratchet heads keep out dirt and moisture while being virtually maintenance free. US Patent #4,934,220 applies to all QD Series Ratchet Head models. US Patent #6,125,722 applies to 1/4″, 3/8″ and 1/2″ drive Ratchet Head models only.
- **MINIMAL FRICTION "HOUR GLASS" CAM:** Retains and releases lubricant where needed to reduce friction
- **POSITIVE STOP:** Instrument can not be accidentally disassembled if wound down past scale
- **KNURLED HANDLE** for a secure non-slip grip
- **ONE YEAR WARRANTY**
- **STORAGE CASE** included with each instrument
- All QD models with "A" suffix have roll-marked scales for better permanence and visibility

US Torque Instruments (in-lb)/±4% Accuracy

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/4	**QD150**	Fixed	—	—	10 in-lb	50 in-lb	.5 in-lb	9-3/4	5/8	13/16	**PBQD1**	—
1/4	**QD1R50**	Fixed Ratchet	36	10°	10 in-lb	50 in-lb	.5 in-lb	9-7/8	7/8	7/16	**PBQD1**	**RKRT936**
1/4	**QD1200**	Fixed	—	—	40 in-lb	200 in-lb	1 in-lb	10-15/16	5/8	13/16	**PBQD1**	—
1/4	**QD1R200**	Fixed Ratchet	36	10°	40 in-lb	200 in-lb	1 in-lb	11-1/16	7/8	7/16	**PBQD1**	**RKRT936**
3/8	**QD2R200**	Compact Ratchet	36	10°	40 in-lb	200 in-lb	1 in-lb	11-1/16	7/8	7/16	**PBQD1**	**RKRFC936**
3/8	**QD21000A**	Fixed	—	—	200 in-lb	1,000 in-lb	5 in-lb	14-9/16	1	1-3/16	**PBQD2**	—
3/8	**QD2R1000A**	Fixed Ratchet	80	4.5°	200 in-lb	1,000 in-lb	5 in-lb	14-9/16	1	1-3/16	**PBQD2**	**RKRF80**
1/2	**QD3R1600A**	Fixed Ratchet	80	4.5°	300 in-lb	1,600 in-lb	10 in-lb	19	1-5/8	3/4	**PBQD3**	**RKRS80A**
1/2	**QD32500A**	Fixed	—	—	500 in-lb	2,500 in-lb	10 in-lb	18-1/8	1	1-1/4	**PBQD3**	—
1/2	**QD3R2500A**	Fixed Ratchet	80	4.5°	500 in-lb	2,500 in-lb	10 in-lb	19-1/8	1-5/8	3/4	**PBQD3**	**RKRS80A**

US Torque Instruments: Dual-Scale (ft-lb/N•m)

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
3/8	**QD2100A**	Fixed	—	—	20 ft-lb	100 ft-lb	.5 ft-lb	14-9/16	1	1-3/16	**PBQD2**	—
3/8	**QD275A**	Fixed	—	—	15 ft-lb	75 ft-lb	.5 ft-lb	14-9/16	1	1-3/16	**PBQD2**	—
3/8	**QD2R75B**	Flex Head	80	4.5°	5	75	.5 ft-lb	15-3/4	1-5/32	9/16	**PBQD2**	**RKRFR80**
3/8	**QD2R75A**	Fixed	80	4.5°	10	75	.5 ft-lb	15-3/4	9/16	1-5/32	**PBQD2**	**RKRFR80**
3/8	**QD2R100A**	Fixed Ratchet	80	4.5°	20 ft-lb	100 ft-lb	.5 ft-lb	15-9/16	1-5/32	9/16	**PBQD2**	**RKRF80**
1/2	**QD3150A**	Fixed	—	—	30 ft-lb	150 ft-lb	1 ft-lb	18	1	1-1/4	**PBQD3**	—
1/2	**QD3250A**	Fixed	—	—	50 ft-lb	250 ft-lb	1 ft-lb	23-3/32	1	1-1/4	**PBQD3**	—
1/2	**QD3FR250A***	Flex Head	80	4.5°	50 ft-lb	250 ft-lb	1 ft-lb	25-3/4	1-5/8	3/4	**PBATECH300B**	—
1/2	**QD3R250A**	Fixed Ratchet	80	4.5°	50 ft-lb	250 ft-lb	1 ft-lb	24-3/16	1-5/8	3/4	**PBQD3**	**RKRS80A**
3/4	**QD4400A**	Fixed	—	—	75 ft-lb	400 ft-lb	2.5 ft-lb	33-3/4	1-1/2	1-1/2	**PBQC4**	—
3/4	**QD4600A**	Fixed	—	—	120 ft-lb	600 ft-lb	5 ft-lb	40-3/4	1-1/2	1-1/2	**PBQC4**	—
3/4	**QD4R400A**	Fixed Ratchet	32	11°	75 ft-lb	400 ft-lb	2.5 ft-lb	35-3/4	2-1/2	1-1/4	**PBQC4**	**RKRQC4**
3/4	**QD4R600A**	Fixed Ratchet	32	11°	100 ft-lb	600 ft-lb	5 ft-lb	42-3/4	2-1/2	1-1/4	**PBQC4**	**RKRQC4**
1	**QD5R1000A**	Fixed Ratchet	30	12°	200 ft-lb	1,000 ft-lb	5 ft-lb	71	3-1/8	1-1/2	**PBQC5**	**RKRQC5**

*Clockwise-only calibration



BRUTUS3R300



QD2RN100A

Torque Wrenches

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/2	**BRUTUS3R300**	Fixed Ratchet	36	10°	60 ft-lb	300 ft-lb	2 ft-lb	32-1/2	1-3/4	3/4	**PBTQ4**	**RKRS80A**
3/8	**QD2RN100A**	Fixed Ratchet	80	4.5°	20 N•m	100 N•m	.5 N•m	15-9/16	1-5/32	9/16	**PBQD2**	**RKRF80**

BRUTUS3R300 1/2″ Drive Adjustable Click-Type Torque Wrench (60–300 ft-lb)

- Expanded range allows extended coverage with the 1/2″ drive tool servicing a majority of vehicles and large pickup trucks
- Gives the user additional range in applying torque and angle on high-torque applications
- Stamped scale (ft-lb) offers better permanency and visibility
- Features heavy-duty components; thicker diameter main tube, cam and internal components for strength and durability
- Accuracy is ±6% CW and CCW



QD3RM30A

Metric Torque Instruments (kg m, kg cm)

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, min	Range, max	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Repair Kit
3/8	**QD2RM1000A**	Flex Head	80	4.5°	200 kg•cm	1,000 kg•cm	5 kg•cm	15-9/16	1-5/32	9/16	**PBQD2**	**RKRF80**
1/2	**QD3RM30A**	Fixed Ratchet	80	4.5°	6 kg•m	30 kg•m	.2 kg•m	19	1-5/8	3/4	**PBQD3**	**RKRS80A**

"A" suffix models feature roll-marked tubes and 80 tooth gears



QD1RN6A



QD1RN25A



QD2RN25A

Newton Meter Torque Wrenches/±4% Accuracy

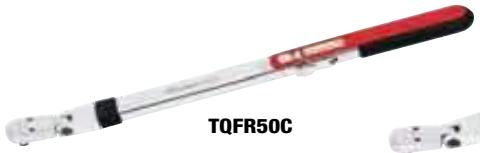
Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/4	**QD1RN6A**	Fixed Ratchet	36	10°	1 N•m	6 N•m	.05 N•m	9-7/8	7/8	7/16	**PBQD1**	**RKRT936**
1/4	**QD1RN25A**	Fixed Ratchet	36	10°	5 N•m	25 N•m	.1 N•m	11-3/4	7/8	7/16	**PBQD1**	**RKRT936**
3/8	**QD2RN25A**	Compact Ratchet	36	10°	5 N•m	25 N•m	.1 N•m	11-3/4	7/8	7/16	**PBQD2**	**RKRFC936**
3/8	**QD2RN50A**	Fixed Ratchet	80	4.5°	10 N•m	50 N•m	.5 N•m	15-9/16	1-5/32	9/16	**PBQD2**	**RKRF80**
3/8	**QD2RN100A**	Fixed Ratchet	80	4.5°	20 N•m	100 N•m	.5 N•m	15-9/16	1-5/32	9/16	**PBQD2**	**RKRF80**
1/2	**QD3RN200A**	Fixed Ratchet	80	4.5°	40 N•m	200 N•m	2 N•m	19	1-5/8	3/4	**PBQD3**	**RKRS80A**
1/2	**QD3RN350A**	Fixed Ratchet	80	4.5°	70 N•m	350 N•m	2 N•m	24-3/16	1-5/8	3/4	**PBQD3**	**RKRS80A**
3/4	**QD4RN800A**	Fixed Ratchet	32	11°	150 N•m	800 N•m	5 N•m	42-3/4	2-1/2	1-1/4	**PBQC4**	**RKRQC4**
1	**QD5RN1500A**	Fixed Ratchet	30	12°	300 N•m	1,500 N•m	10 N•m	68.4	3-1/8	1-1/2	**S10-117-6**	**RKRQC5**

"A" suffix models feature roll-marked tubes

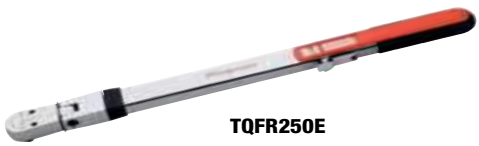
⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

ADJUSTABLE CLICK-TYPE


TQFR50C


TQFR100C


TQFR250E


TQR250E


TQR600E

Adjustable Click Type Torque Wrench

- Snap-on® sealed ratchet head is virtually maintenance free; more time working with the tool, less time on tool maintenance
- Thumb screw-type adjustment is faster than cycling through a micrometer-style torque wrench; guard prevents setting from being changed accidentally; setting is displayed in window; conversion table to N•m is displayed on handle
- Sealed neck keeps dust and grit away from the torque mechanism for longer tool life
- "Split beam" measuring element provides accurate, reliable readings and eliminates the heavy coil spring used in conventional click-type wrenches; yields fewer moving parts, reducing friction and wear
- Cushion grip handle provides comfort plus control and resists most automotive fluids
- Designed for measuring torque in a clockwise direction only; wrench is not reversible
- CE: EU—GB, FR, ES, DE

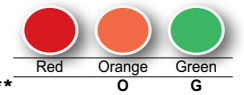
US Reading Torque Wrenches with Conversion Scale/±4% Accuracy

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth*, inches	Ratchet Service Kit	Storage Case
3/8	**TQFR50C†**	Flex Head	36	10°	120 in-lb	600 in-lb	10 in-lb	18-5/8	1-5/8	9/16	**RKRF936**	**PBTQ1**
3/8	**TQFR100C****	Flex Head	36	10°	20 ft-lb	100 ft-lb	2 ft-lb	18-5/8	1-5/8	9/16	**RKRF936**	**PBTQ1**
3/8	**TQFR250E†**	Flex Head	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	9/16	**RKRS936**	**PBTQ3**
1/2	**TQR250E**	Fixed Ratchet	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	3/4	**RKRS936**	**PBTQ3**
3/4	**TQR400E†»**	Detach Ratchet	32	11°	130 ft-lb	400 ft-lb	10 ft-lb	38-1/8	2-1/2	1-1/4	**RKRTQ4**	**PBTQ4**
3/4	**TQR600E†»**	Detach Ratchet	32	11°	200 ft-lb	600 ft-lb	10 ft-lb	48-5/8	2-1/2	1-1/4	**RKRTQ4**	**PBTQ4**

All wrenches are non-reversible.
*Does not include square drive dimension
»Three-piece construction disassembles for storage/transport
†TQFR50C, TQR250E, TQR400E and TQR600E available in Red only

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).
All wrenches and drivers are calibrated per ASME® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment.

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


TQFRN350E

Newton Meter Torque Wrenches with Conversion Scale

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Depth*, inches	Storage Case	Repair Kit
3/8	**TQFRN130B**	Flex Head	30	12°	25 N•m	130 N•m	5 N•m	17-5/8	9/16	**PB50A**	**RKQJA2D**
1/2	**TQFRN350E**	Flex Head	32	11°	70 N•m	350 N•m	5 N•m	22-1/8	3/4	**PBTQ1**	**RKTQ3**
3/8	**TQFRN68B**	Flex Head	30	12°	14 N•m	68 N•m	2 N•m	17-5/8	9/16	**PB50A**	**RKQJA2D**

*Does not include square drive dimension
All wrenches are non-reversible.
The 3/8" drive models in this chart have metal handles.


TQFRM34D

Metric Torque Wrenches with Conversion Scale

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth*, inches	Storage Case	Repair Kit
1/2	**TQFRM34D**	Flex Head	32	11°	5.0 kg•m	34 kg•m	1.0 kg•m	22-1/8	1-5/8	3/4	**PBTQ3**	**RKTQ3**
3/4	**TQRM80C**	Detach Ratchet	32	11°	26.0 kg•m	80 kg•m	2.0 kg•m	48	2-3/8	1-1/4	**PB39**	**RKRQC4**

*Does not include square drive dimension
All wrenches are non-reversible.

TORQOMETER® TORQUE WRENCHES



TE50FUA



TE175L

US Reading/Standard 2% Accuracy

- Dial torque wrenches allow the user to easily apply and monitor torque
- Long-lasting performance given minimal component contact
- Steel welded bodies with bright nickel-chrome finish
- Heat-treated dial guards protect the dial crystal from damage
- Patented torsion bar machined from aircraft quality alloy steel for long life and precise performance across the entire scale
- Operating temperature range of 0–100 °F
- Wide selection of models—from 1/4–1-1/2″ drives to ranges, scales, and dial configurations—there is a dial wrench to cover nearly every need
- Certificate of calibration models, add “C” suffix to stock number

Square Drive, inches	Basic Models Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range	Increments	Length, inches	Width, inches	Head Depth,* inches	Storage Case
1/4	**TE1A**	**TE1FUA**	—	15 in-lb	1/4 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TE3A**	**TE3FUA**	—	30 in-lb	1/2 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TE6A**	**TE6FUA**	—	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TE12A**	**TE12FUA**	**TE12LA**	150 in-lb	2-1/2 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TE25A**	**TE25FUA**	**TE25LA**	300 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TE50A**	**TE50FUA**	**TE50LA**	600 in-lb	10 in-lb	12-1/2	2-11/16	1-1/4	**PB9**
3/8	**TE12FA**	**TE12FFUA**	**TE12FLA**	12 ft-lb	1/2 ft-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TE25FA**	**TE25FFUA**	**TE25FLA**	25 ft-lb	1/2 ft-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TE50FA**	**TE50FFUA**	**TE50FLA**	50 ft-lb	1 ft-lb	12-1/2	2-11/16	1-1/4	**PB9**
1/2	**TE51**	**TE51FU**	**TE51L**	600 in-lb	10 in-lb	15	2-11/16	1-5/16	—
1/2	**TE51F**	**TE51FFU**	**TE51FL**	50 ft-lb	1 ft-lb	15	2-11/16	1-5/16	—
1/2	**TE100**	**TE100FU**	**TE100L**	100 ft-lb	1 ft-lb	16	2-3/4	1-3/8	**PBR5**
1/2	**TE175**	**TE175FU**	**TE175L**	175 ft-lb	2-1/2 ft-lb	18-3/4	2-3/4	1-3/8	**PBR5**
1/2	**TE250**	**TE250FU**	**TE250L**	250 ft-lb	5 ft-lb	23-3/4	2-3/4	1-3/8	**PB8A**
3/4	**TE352A**	**TE352FUA**	**TE352LA**	350 ft-lb	5 ft-lb	29-7/8	3-1/4	1-25/32	—
3/4	**TE602A**	**TE602FUA**	**TE602LA**	600 ft-lb	10 ft-lb	40-7/8	3-1/4	1-25/32	**PB39**
1	**TE803****	**TE803FU****	**TE803L****	800 ft-lb	10 ft-lb	66-13/16	3-9/16	2-1/32	—
1	**TE1003**†	**TE1003FU****	**TE1003L****	1,000 ft-lb	10 ft-lb	66-13/16	3-9/16	2-1/32	—
1	**TE1503**†	**TE1503FU**†	**TE1503L**†	1,500 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1	**TE2003**†	**TE2003FU**†	**TE2003L**†	2,000 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1-1/2	**TE2005**†	**TE2005FU**†	**TE2005L**†	2,000 ft-lb	25 ft-lb	80	3-9/16	2-3/8	—
1-1/2	**TE3005**	**TE3005FU****	**TE3005L****	3,000 ft-lb	50 ft-lb	140	5-1/2	2-13/16	—

*Does not include square drive dimension
**Includes separately packed 92TQPA 4' tubular extension handle. TE3005 includes 94TQPA 10' extension handle
†Includes separately packed 93TQPA 5' tubular extension handle
Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available.
Basic model = 1 needle Follow-up = 2 needles Signal = signal light GTE models feature a black oxide finish.



BASIC MODEL

- Needle shows torque achieved



FOLLOW UP MODEL

- Two separate needles show targeted torque and torque achieved



SIGNAL MODEL

- Features a built-in light that flashes when targeted torque is achieved

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

TORQOMETER® TORQUE WRENCHES


TESI75


TESI75L

Newton Meter Reading/Standard 2% Accuracy

• Certificate of calibration models are designated by the "C" suffix added to stock number

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range, N•m	Increments, N•m	Length, inches	Width, inches	Head Depth*, inches	Storage Case
1/4	**TESI5**	**TESI5FU**	**TESI5L**	5	.2	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TESI10**	**TESI10FU**	**TESI10L**	10	.5	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TESI20**	**TESI20FU**	**TESI20L**	20	.5	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TESI30**	**TESI30FU**	**TESI30L**	30	1	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TESI60**	**TESI60FU**	**TESI60L**	60	2	12-1/2	2-11/16	1-1/4	**PB9**
3/8	**TESI70**	**TESI70FU**	**TESI70L**	70	2	12-1/2	2-11/16	1-1/4	**PB9**
3/8	**TESI75**	**TESI75FU**	**TESI75L**	75	1	12-1/2	2-11/16	1-1/4	**PB9**
1/2	**TESI125**	**TESI125FU**	**TESI125L**	125	5	16	2-11/16	1-3/8	**PBR5**
1/2	**TESI200**	**TESI200FU**	**TESI200L**	200	5	18-3/4	2-3/4	1-3/8	**PBR5**
1/2	**TESI250**	**TESI250FU**	**TESI250L**	250	5	18-3/4	2-3/4	1-3/8	**PBR5**
3/4	**TESI500A**	**TESI500FUA**	**TESI500LA**	500	10	29-7/8	3-1/4	1-25/32	**PB39**
3/4	**TESI800A**	**TESI800FUA**	**TESI800LA**	800	20	40-7/8	3-1/4	1-25/32	**PB39**
1	**TESI1360****	**TESI1360FU****	**TESI1360L****	1,360	20	66-13/16	3-9/16	2-1/32	—
1	**TESI2803****	**TESI2803FU*****	**TESI2803L*****	2,800	50	80	4-13/32	2-1/8	—
1-1/2	**TESI2805*****	**TESI2805FU*****	—	2,800	50	80	4-25/32	2-3/8	—
1-1/2	—	**TESI4000FU**	**TESI4000L**	4,000	100	140	5-1/2	2-13/16	—

*Does not include square drive dimension
**Includes separately packed 92TQPA 4' tubular extension handle
Includes separately packed 93TQPA 5' tubular extension handle
TE3005 includes 94TQPA 10' extension handle
Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.
Basic model = 1 needle Follow-Up = 2 needles Signal = signal light


TER175


TER175L

Combination US/Newton Meter Reading/Precise 1% Accuracy

• Certificate of calibration models are designated by the "C" suffix added to stock number

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range, N•m	Increments, N•m	US Range	US Increments	Length, inches	Width, inches	Head Depth*, inches	Storage Case
1/4	**TER1A**	**TER1FUA**	**TER1LA**	1.7	.05	15 in-lb	.5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TER3A**	**TER3FUA**	**TER3LA**	3.5	0.1	30 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TER6A**	**TER6FUA**	—	8.4	0.2	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TER12A**	**TER12FUA**	**TER12LA**	17	.5	150 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TER25A**	**TER25FUA**	**TER25LA**	0–3,200 N•cm	50 N•cm	0–300 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TER50A**	**TER50FUA**	**TER50LA**	60	1	600 in-lb	20 in-lb	12-1/2	2-11/16	1-1/4	**PB9**
1/2	**TER51**	**TER51FU**	**TER51L**	60	1	600 in-lb	20 in-lb	15	2-11/16	1-5/16	—
1/2	**TER100**	**TER100FU**	**TER100L**	140	5	100 ft-lb	2 ft-lb	16	2-3/4	1-3/8	**PBR5**
1/2	**TER175**	**TER175FU**	**TER175L**	230	10	175 ft-lb	5 ft-lb	18-3/4	2-3/4	1-3/8	**PBR5**
3/4	**TER352A**	**TER352FUA**	**TER352LA**	480	10	350 ft-lb	5 ft-lb	29-7/8	3-1/4	1-3/8	**PB39**
3/4	**TER602A**	**TER602FUA**	**TER602LA**	800	20	600 ft-lb	20 ft-lb	40-7/8	3-1/4	1-25/32	**PB39**
1	**TER1003****	—	**TER1003L****	1,360	20	1,000 ft-lb	20 ft-lb	66-13/16	3-9/16	2-1/32	—

*Does not include square drive dimension
**Includes separately packed 92TQPA 4' tubular extension handle
Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.
Basic model= 1 needle Follow-Up = 2 needles Signal = signal light

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).
All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20%–100% of full scale, using NIST® traceable equipment.



TEC175



TEC175L

Combination US/Metric Reading/Standard 2% Accuracy

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Metric Range	Metric Increments	US Range	US Increments	Length, inches	Width, inches	Head Depth*, inches	Storage Case
1/4	**TEC1A**	**TEC1FUA**	—	16 kg•cm	1 kg•cm	15 in-lb	.5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TEC3A**	**TEC3FUA**	—	35 kg•cm	1 kg•cm	30 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
1/4	**TEC6A**	**TEC6FUA**	—	90 kg•cm	2.5 kg•cm	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TEC12A**	**TEC12FUA**	**TEC12LA**	175 kg•cm	5 kg•cm	150 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TEC25FA**	**TEC25FFUA**	**TEC25FLA**	350 kg•cm	10 kg•cm	25 ft-lb	1 ft-lb	9-29/32	2-11/16	1-1/4	**PB9**
3/8	**TEC50A**	**TEC50FUA**	**TEC50LA**	700 kg•cm	20 kg•cm	600 in-lb	20 in-lb	12-1/2	2-11/16	1-1/4	**PB9**
1/2	**TEC51**	**TEC51FU**	**TEC51L**	700 kg•cm	20 kg•cm	600 in-lb	20 in-lb	15	2-11/16	1-5/16	—
1/2	**TEC100**	**TEC100FU**	**TEC100L**	14 kg•m	.5 kg•m	100 ft-lb	2 ft-lb	16	2-3/4	1-3/8	**PBR5**
1/2	**TEC175**	**TEC175FU**	**TEC175L**	25 kg•m	1 kg•m	175 ft-lb	5 ft-lb	18-3/4	2-3/4	1-3/8	**PBR5**
1/2	**TEC250**	**TEC250FU**	**TEC250L**	35 kg•m	1 kg•m	250 ft-lb	10 ft-lb	23-3/4	2-3/4	1-3/8	**PB8A**
3/4	**TEC352A**	**TEC352FUA**	**TEC352LA**	50 kg•m	1 kg•m	350 ft-lb	10 ft-lb	29-7/8	3-1/4	1-25/32	**PB39**
3/4	**TEC602A**	**TEC602FUA**	**TEC602LA**	80 kg•m	2 kg•m	600 ft-lb	20 ft-lb	40-7/8	3-1/4	1-25/32	**PB39**
1	**TEC803****	**TEC803FU****	**TEC803L****	110 kg•m	2 kg•m	800 ft-lb	25 ft-lb	66-13/16	3-9/16	2-1/32	—
1	—	—	**TEC1003L****	136 kg•m	2 kg•m	1,000 ft-lb	20 ft-lb	66-13/16	3-9/16	2-1/32	—
1	—	**TEC1503FU†**	**TEC1503L†**	200 kg•m	5 kg•m	1,500 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1	—	**TEC2003FU†**	**TEC2003L†**	280 kg•m	5 kg•m	2,000 ft-lb	50 ft-lb	80	4-13/32	2-1/8	—
1-1/2	**TEC2005†**	**TEC2005FU†**	**TEC2005L†**	280 kg•m	5 kg•m	2,000 ft-lb	50 ft-lb	80	4-13/32	2-3/8	—
1-1/2	**TEC3005**	**TEC3005FU**	**TEC3005L**	400 kg•m	5 kg•m	3,000 ft-lb	50 ft-lb	140	5-1/2	2-13/16	—

*Does not include square drive dimension.
**Includes separately packed 92TQPA 4' tubular extension handle.
†Includes separately packed 93TQPA 5' tubular extension handle.
Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available.
Basic model= 1 needle Follow-Up = 2 needles Signal = signal light



TEX602TLA



85TQP



TEX2003TFU

US Reading/Standard 2% Accuracy

Input Drive Female Square, inches	Output Drive Male Square, inches	Follow up Models Stock No.	Light Signal Models Stock No.	US Range, ft-lb	US Increments, ft-lb	Length, inches	Width, inches	Head Depth, inches	Increments, ft. lb.	Optional "T" Bars/ Extension Handles "T" Bars	Length, inches	Ext. Handle	Ext. Handle Length, inches
3/4	3/4	**TEX602TFUA***	**TEX602TLA***	600	10	9	3-1/4	3-3/4	—	**81TQP**	66	—	—
3/4	1	**TEX1003TFUA**	**TEX1003TLA**	1,000	10	9-7/8	3-5/8	4-1/8	—	**81TQP**	66	—	—
1	1	**TEX1503TFU**	**TEX1503TL**	1,500	25	10-7/8	4-3/8	4-7/16		**82TQP**	18	**85TQP**	31
1	1	**TEX2003TFU**	**TEX2003TL**	2,000	—	10-7/8	4-3/8	4-7/16	25	**82TQP**	—	**85TQP**	31
1	1-1/2	**TEX2005TFU**	**TEX2005TL**	2,000	25	10-7/8	4-3/8	4-7/16	—	**82TQP**	18	**85TQP**	31
1-1/2	1-1/2	**TEX3005TFU**	—	3,000	50	12	5-1/8	6-1/2	—	**83TQP**	18	**87TQP**	66
1-1/2	1-1/2	**TEX4005TFU**	**TEX4005TL**	4,000	50	12	5-1/8	6-1/2	—	**84TQP**	20	**89TQP**	72

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.
*T-Bar not included
Basic model= 1 needle Follow-Up = 2 needles Signal = signal light

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

T-HANDLE TORQOMETER® TORQUE WRENCHES



TEXC602TFUA



TEXC4005TL

Combination US/Metric Reading/Standard 2% Accuracy

Input Drive Female Square, inches	Output Drive Male Square, inches	Follow-up Models Stock No.	Light Signal Models Stock No.	US Range, ft-lb	US Increments, ft-lb	Metric Range, kg•m	kg•m	Length, inches	Width, inches	Head Depth, inches	Optional "T" Bars/ Extension Handles "T" Bar	T Bar Length, inches	Ext. Handle	Ext. Handle Length, inches
3/4	3/4	TEXC602TFUA	TEXC602TLA	600	20	80	2	9	3-1/4	3-3/4	81TQP	66	—	—
3/4	1	TEXC1003TFUA	TEXC1003TLA	1,000	20	136	2	9-7/8	3-5/8	4-1/8	81TQP	66	—	—
1	1	TEXC1503TFU	TEXC1503TL	1,500	25	200	5	10-7/8	4-3/8	4-7/16	85TQP	31	82TQP	18
1	1	TEXC2003TFU	TEXC2003TL	2,000	50	280	5	10-7/8	4-3/8	4-7/16	82TQP	18	85TQP	31
1	1-1/2	TEXC2005TFU	TEXC2005TL	2,000	50	280	5	10-7/8	4-3/8	4-7/16	82TQP	18	85TQP	31
1-1/2	1-1/2	TEXC3005TFU	TEXC3005TL	3,000	100	400	5	12	5-1/8	6-1/2	83TQP	18	87TQP	66
1-1/2	1-1/2	TEXC4005TFU	TEXC4005TL	4,000	100	550	10	12	5-1/8	6-1/2	84TQP	20	89TQP	72

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.
*T-Bar not included
Basic model= 1 needle Follow-Up = 2 needles Signal = signal light

TORQOMETER® TORQUE DRIVERS – 1/4" DRIVE



TQS012A

US Reading Standard/2% Accuracy

Standard Basic Models Stock No.	Standard Follow-up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow-up Models Stock No.	Length, inches	Range	Increments
TQS004A	TQS004FUA	8-5/8	—	TQSS004FUA	5-3/4	8 in-oz	1/4 in-oz
TQS008A	TQS008FUA	7-3/4	—	TQSS008FUA	5-1/4	16 in-oz	1/2 in-oz
TQS012A	TQS012FUA	7-3/4	TQSS012A	TQSS012FUA	5-1/4	24 in-oz/1.5 in-lb	1/2 in-oz/1/32 in-lb
TQS025A	TQS025FUA	7-3/4	TQSS025A	TQSS025FUA	5-1/4	48 in-oz/3 in-lb	1 in-oz/1/16 in-lb
TQS050A	TQS050FUA	7-3/4	TQSS050A	TQSS050FUA	5-1/4	96 in-oz/6 in-lb	2 in-oz/1/8 in-lb
TQS1A	TQS1FUA	7-3/4	TQSS1A	TQSS1FUA	5-1/4	192 in-oz/12 in-lb	4 in-oz/1/4 in-lb
TQS2A	TQS2FUA	7-3/4	TQSS2A	TQSS2FUA	5-1/4	384 in-oz/24 in-lb	8 in-oz/1/2 in-lb
TQS2.5A	TQS2.5FUA	7-3/4	TQSS2.5A	TQSS2.5FUA	5-1/4	480 in-oz/30 in-lb	12 in-oz/1 in-lb
TQS4A*	TQS4FUA*	8-11/16	TQSS4A*	TQSS4FUA	5-1/4	50 in-lb	1 in-lb
TQS6A*	TQS6FUA*	8-11/16	TQSS6A*	TQSS6FUA	5-1/4	75 in-lb	1 in-lb

*Includes 1/4" internal square drive in handle
Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number.
All wrenches include PB47 Storage Case.
Basic model = 1 needle Follow-up = 2 needles



TQSC4FUA

Combination US/Metric Reading/Standard 2% Accuracy

Standard Basic Models Stock No.	Standard Follow-up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow-up Models Stock No.	Length, inches	Range	Increments
—	TQSC1FUA	7-3/4	—	TQSSC1FUA	5-1/4	17 kg•cm/15 in-lb	.5 kg•cm/.5 in-lb
—	TQSC2.5FUA	7-3/4	—	TQSSC2.5FUA	5-1/4	35 kg•cm/30 in-lb	1.000 kg•cm/1.0 in-lb
—	TQSC4FUA*	8-11/16	—	TQSSC4FUA*	5-1/4	56 kg•cm/50 in-lb	2 kg•cm/2 in-lb
—	TQSC6FUA*	—	—	TQSSC6FUA*	5-1/4	90 kg•cm/75 in-lb	3 kg•cm/5 in-lb

Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number.
All wrenches include PB47 Storage Case. *Includes 1/4" internal square drive in handle
Basic model = 1 needle Follow-Up = 2 needles

Combination US/Newton Meter Reading/Standard 2% Accuracy**

Standard Basic Models Stock No.	Standard Follow up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow up Models Stock No.	Length, inches	Range	Increments
—	TQSI.34FUA	7-3/4	—	TQSSI.34FUA	5-1/4	.34 N•m	.01 N•m
TQSI055A	—	7-3/4	TQSSI.055A	—	5-1/4	.055 N•m	.001 N•m
—	TQSI055FUA	7-3/4	—	TQSSI055FUA	5-1/4	.055 N•m	.001 N•m
—	—	—	TQSSI.11A	TQSSI.11FUA	5-1/4	.110 N•m	.005 N•m
—	—	—	—	TQSSI.70FUA	5-1/4	.70 N•m	.02 N•m
—	TQSI135FUA	7-3/4	—	TQSSI1.35FUA	5-1/4	1.35 N•m	.05 N•m
—	TQSR1FUA	7-3/4	—	—	—	1.6 N•cm/15 in-lb	5 N•cm/.25 in-lb
—	TQSR2.5FUA	7-3/4	—	—	—	3.4 N•m/30 in-lb	.1 N•m/1 in-lb
—	TQSR4FUA*	8-11/16	—	—	—	5.5 N•m/50 in-lb	.1 N•m/1 in-lb
—	TQSR6FUA*	8-11/16	—	—	—	8.4 N•m/75 in-lb	.2 N•m/5 in-lb

*Includes 1/4" internal square drive in handle.
**Precise 1% models are available on special order.
Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.
All wrenches include PB47 Storage Case.
ANSI® Spec. B107.300 applies to all these models.
Basic model = 1 needle
Follow-up = 2 needles

Torque Angle Gauges

TA358 3/8″ Square Drive Torque Angle Gauge
- Determines angle controlled torque tightening
- Allows user to follow manufacturer's specifications
- Used on automotive, diesel and industrial equipment, plus head bolts and rod bolts on motorcycles

TA360 1/2″ Square Drive Torque Angle Gauge
- Allows user to follow manufacturer's specifications
- Calibrated in degrees in large, easy-to-read increments



TA358

TORQUE SCREWDRIVER

TechAngle® Electronic Torque Screwdriver

- Four alert modes (LCD, LED, Audible, Vibratory)
- Advanced features: programmable sleep timer, cycle counter, overload indication, calibration alert, battery level, language selection and torque record memory including 10 presets and storage for up to 50 records
- Three modes of operation: Torque, Angle, Torque Then Angle
- Displays in seven units of measure: in-lb, in-oz, ft-lb, Nm, Kg-cm, cNm and angle
- Guaranteed accuracy +/- 2% CW and 3% CCW at 20–100% of full scale (+/- 4% CW and 6% CCW at 5–19% of full scale)



Approaching Target | Target Achieved | Over Torque



ATECHMS80F

Stock No.	Description	Range	Increments	Length, inches
ATECHMS80F	1/4″ Hex Electronic Screwdriver (Tool Only)	4-80 in-lb (0.45–9 N•m)	.01 in-lb	7-1/2
ATECHMS80FK	1/4″ Hex Electronic Screwdriver Kit	4-80 in-lb (0.45–9 N•m)	.01 in-lb	7-1/2
ATECHMS100F*	1/4″ Hex Electronic Screwdriver (Tool Only)	5–100 in-oz	.01 in-lb	7-1/2
ATECHMS80M	1/4″ Square Electronic Driver (Tool Only)	4-80 in-lb (0.45–9 N•m)	.01 in-lb	7-1/2
ATECHMS80MK	1/4″ Square Electronic Driver Kit	4-80 in-lb (0.45–9 N•m)	.01 in-lb	7-1/2
ATECHMS100M*‡	1/4″ Square Electronic Driver (Tool Only)	5–100 in-oz	.01 in-lb	7-1/2
MSTECHHDL	Electronic Driver L-Handle	—	—	—

*scales are +/-3% CW and CCW (+/- 5% CW and +/-6% CCW) at 5–19% of full scale.

CE

ASME B107.300-2010

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

TORQUE DRIVERS

Preset Torque Screwdrivers



QDRIVER3P

- Ideal for low-torque assemblies and precision application
- Drivers accept all standard 1/4″ hex screwdriver bits
- Cam over torque limiting clutch-free wheels when set torque is achieved
- Accuracy is ±6% from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features aluminum body with steel shank
- Comfortable ergonomic tri-lobe grip and magnetic bit retention
- Textured body provides a nonslip grip
- Not supplied with Certificate of Calibration
- When ordering, user must designate desired torque rating to be set

Stock No.	Range, min	Range, max	Length, inches
QDRIVER1P	6 in-oz (4 N•cm)	32 in-oz (22 N•cm)	4-9/16
QDRIVER2P	10 in-oz (7 N•cm)	100 in-oz (70 N•cm)	5-5/8
QDRIVER3P	1.5 in-lb (16 N•cm)	15 in-lb (169 N•cm)	5-5/8
QDRIVER4P	4 in-lb (45 N•cm)	40 in-lb (451 N•cm)	6

ASME® B107.300-2010 Type III, Class A, Style 2, Design A

Adjustable Torque Screwdrivers



QDRIVER3

- Ideal for low-torque assemblies, precision applications and dash/under dash work on most domestic and imported vehicles
- Drivers accept all standard 1/4″ hex screwdriver bits
- Cam over torque limiting clutch-free wheels when set torque is achieved
- Accuracy is ±6% from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features body with steel shank
- Comfortable ergonomic tri-lobe grip and magnetic bit retention
- Textured body provides a nonslip grip

Stock No.	Range	Increments	Length, inches
QDRIVER2	20–100 in-oz (14–70 N•cm)	1 in-oz	5-7/16
QDRIVER3	3–15 in-lb (3–169 N•cm)	0.2 in-lb	6-1/4
QDRIVER4	5–40 in-lb (56–451 N•cm)	0.5 in-lb	6-11/16
QDRIVER4NM	50–450 N•cm	5.0 N•cm	6-11/16

ASME® B107.300-2010 Type III, Class A, Style 1, Design A

TPMS Torque Screwdriver

Stock No.	Description	Range, Dedicated	Length	Accuracy
QDTPMS35	TPMS Adjustable Torque Screwdriver	4 in-lb, 12 in-lb, 35 in-lb	6-5/8	±6%



QDTPMS35

QDTPMS35 TPMS Adjustable Torque Screwdriver

- Highly accurate torque tool intended for maintaining or installing popular styles of tire pressure monitoring sensors
- Manufactured from aircraft-grade aluminum
- Dedicated torque measurements for popular TPMS ratings (4, 12, 35 in-lb)

Torque Limiting Drivers

Stock No.	Range, minimum	Range, maximum	Increments	Length, inches
QTS135	5 in-lb	35 in-lb	0.5 in-lb	7
QTSP135	5 in-lb	35 in-lb	0.5 in-lb	7-1/2



QTS135

QTS135 Adjustable Limiting Driver

- Micrometer-type adjustment
- Clutch allows 25° of free rotation upon reaching the set torque
- Guaranteed accuracy: within ±4% of setting from 20% of capacity to full capacity clockwise and counterclockwise

QTSP135 US Preset Limiting Driver

- Clutch mechanism to help prevent over-torquing by allowing free rotation upon reaching the set torque
- Ideal selection for assembly line work where the same requirement is constant
- Can be reset at different torque values or readjusted for accuracy whenever necessary with a torque tester
- Torque limit is pre-set at the factory so when ordering, user must designate desired torque rating to be set

Adjustable Torque Drivers (1/4″ Square Drive)

Stock No.	Range	Increments	Length, inches
QDRIVER2A	20–100 in-oz (14–70 N•cm)	1 in-oz	5-7/16
QDRIVER3A	3–15 in-lb (34–169 N•cm)	0.2 in-lb	6-1/4
QDRIVER4A	5–40 in-lb (56–451 N•cm)	0.5 in-lb	6-11/16
QDRIVER4NMA	50–450 N•cm	5 N•m	6-11/16



QDRIVER4NMA

INTERCHANGEABLE HEADS

Torque Wrench Bodies/Adjustable

- Interchangeable heads permit ratcheting, fixed- or open-end torquing capability with either adjustable or preset torque wrench bodies
- A push of the locking pin provides quick-change action, with a wide range of head styles to choose from
- Adjustable models provide quick torque settings across the scale range while preset models are dedicated to a single torque measurement (good for repetitive assembly operations)
- Slim profile allows access to tight areas
- Micrometer-style adjustment for fast, accurate torque setting
- All QC series interchangeable torque wrenches are accurate to +/-4% clockwise and +/-6% counterclockwise from 20-100% of full scale
- Tube scales are roll-marked for better permanency and visibility


QC1I200

Stock No.	Model Type	Shank Diameter	Range	Increments	Length, inches	Storage Case
QC1I200	Adjustable	J (0.425″)	40–200 in-lb	1 in-lb	9-3/8	PBQD1
QC2I75	Adjustable	J (0.425″)	5–75 ft-lb	.5 ft-lb	13	PBQD2

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding “C” to the end of the stock number.


QC1P300


QC3P200

Torque Wrench Bodies/Preset

Stock No.	Model Type	Shank Diameter	Range	Length, inches
QC1P60	Preset	J (0.425″)	10–60 in-lb (1.1–6.8 N•m)	6
QC1P100	Preset	J (0.425″)	15–100 in-lb (1.7–11.3 N•m)	8
QC1P300	Preset	J (0.425″)	60–300 in-lb (6.8–33.9 N•m)	10
QC2P75	Preset	J (0.425″)	5–75 ft-lb (7–100 N•m)	11
QC3P150	Preset	Y (0.560″)	30–150 (41–203)	23
QC3P200	Preset	Y (0.560″)	40–200 ft-lb (55–270 N•m)	23
QC4P300	Preset	X (0.735″)	60–300 ft-lb (82–400 N•m)	27

No calibration certificates on preset torque bodies


QD2IN50A


QD3IN200B


QD2IN100A

Torque Wrench Bodies/Adjustable/Dual Range

- Plug-and-play system of interchangeable heads are consistently sized from pin to the center of the fastener, so no adjustment calculations are needed
- Minimal friction “hour glass” cam retains and releases lubricant where needed to reduce friction
- Push buttons for quick-release of interchangeable head
- Positive stop ensures the instrument cannot be accidentally disassembled if wound down past scale
- Each instrument comes in a molded storage case for long-term protection
- Tube scales are roll-marked for better permanency and visibility
- Includes certificate of calibration

Stock No.	Range, N•m	Range, ft-lb	Increments	Shank Type	Weight, lb (kg)	Length, inches (mm)
QD2IN50A	10–50	9.2–35.0	0.5 N•m/0.4 ft-lb	J	2.3 (1.12)	14-1/2 (368)
QD2IN100A	20–100	16.6–71.9	0.5 N•m/0.4 ft-lb	J	2.3 (1.12)	14-1/2 (368)
QD3IN200B	40–200	37–140	2 N•m/1.2 ft-lb	Y	3.36 (1.64)	23 (584)
QD3IN350A	70–350	59–251	2 N•m/1.2 ft-lb	X	3.36 (1.64)	23 (584)
QD4IN800A	150–800	129–572	5 N•m/4.3 ft-lb	Z	11.14 (5.46)	41-1/2 (1,054)

*For use with dual pin heads only

ASME® B107.300

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

INTERCHANGEABLE HEADS



QJD12A-80

Square Drive Heads/Ratcheting

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachment.

Square Drive, inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	Head O.D., inches	Depth, inches	Ratchet Service Kit
1/4	QJD8A-72	—	—	—	15/16	7/16	RKRT72A
1/4	QJD8SL-72	—	—	—	15/16	7/16	RKRT72A
3/8	QJD12A-80	—	—	—	1-1/4	9/16	RKRF80
3/8	QJD12SL-80	—	—	—	1-1/4	9/16	RKRF80
3/8	—	QYD12A-80	—	—	1-1/4	9/16	RKRF80
3/8	—	QYD12SL-80	—	—	1-1/4	9/16	RKRF80
3/8	—	—	QXD12A-80	—	1-1/4	9/16	RKRF80
1/2	QJD16A	—	—	—	1-5/8	3/4	RKRS936
1/2	QJD16SL	—	—	—	1-5/8	3/4	RKRS80A
1/2	—	QYD16A	—	—	1-5/8	3/4	RKRS936
1/2	—	QYD16SL	—	—	1-5/8	3/4	RKRS80A
1/2	—	—	QXD16A	—	1-5/8	3/4	RKRS80A
3/4	—	—	QXD24A	—	2-1/2	1-1/4	RKRQC4
3/4	—	—	—	QZD24BDP	2-1/2	1-1/4	RKRQC4
1	—	—	QXD32A	QZD32BDP	2-1/2	1-1/2	RKRQC5

Center of Fastener to Retaining Pin
QJD Series – 2.50″ QZD Series – 5.75″
QYD Series – 3.00″ QJD-SL Series – 3.5″
QXD Series – 4.50″ QYD-SL Series – 4.43″

*US Patent #6,125,722
Value in parentheses in chart is the Maximum Recommended Working Torque, ft-lb



QXSD16A

Square Drive Heads/Fixed

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachments.

Square Drive, inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	Head O.D., inches	Depth, inches
1/4	QJSD8A	—	—	—	5/8	3/4
3/8	QJSD12A	QYSD12A	—	—	1	1
1/2	QJSD16A	QYSD16A	QXSD16A	—	1	1-1/4
3/4	—	—	QXSD24A	QZSD24ADP	1-1/2	2
1	—	—	QXSD32A	QZSD32ADP	1-3/4	2-1/4

Center of Fastener to Retaining Pin
QJD Series – 2.50″ QXD Series – 4.50″
QYD Series – 3.00″ QZD Series – 5.75″

Value in parentheses is the Maximum Recommended Working Torque, ft-lb



QJBOERM16A



QJBOER16A

Ratcheting Box End Heads, 12-Point, mm

mm	J (0.425")	Y (0.560")	O.D., mm	Head Depth, mm
10	QJBOERM10A	—	21.5	8
12	QJBOERM12A	—	23.5	8
13	QJBOERM13A	—	25	10
15	QJBOERM15A	—	28.5	11
16	QJBOERM16A	QYBOERM16A	30.5	11
17	QJBOERM17A	—	32	12
18	QJBOERM18A	QYBOERM18A	34.5	12
19	QJBOERM19A	—	41.7	12.9
22	QJBOERM22A	—	41.7	14.5
24	QJBOERM24A	QYBOERM24A	46.5	15.5

Center of Fastener to Retaining Pin
QJBOER Series – 2.50″
QYBOER Series – 3.0″

Ratcheting Box End Heads, 12-Point, inches

"	J (0.425")	Y (0.560")	O.D., inches	Head Depth, inches
5/16	QJBOER10A	—	11/16	1/4
3/8	QJBOER12A	—	27/32	5/16
7/16	QJBOER14A	—	7/8	11/32
1/2	QJBOER16A	—	1-1/32	1/4
9/16	QJBOER18A	—	1-1/16	13/32
5/8	QJBOER20A	QYBOER20A	1-3/16	7/16
11/16	—	QYBOER22A	1-1/4	15/32
3/4	QJBOER24A	QYBOER24A	1-7/16	1/2
15/16	QYBOER30A	—	1-27/32	5/8

Center of Fastener to Retaining Pin
QJBOER Series – 2.50″
QYBOER Series – 3.0″

Box End Heads, 0° Offset, 12-Point, inches

	Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
3/8	**QJXD12A**	J (0.425″)	60
7/16	**QJXD14A**	J (0.425″)	60
1/2	**QJXD16A**	J (0.425″)	60
9/16	**QJXD18A**	J (0.425″)	60
11/16	**QJXD22A**	J (0.425″)	60
3/4	**QJXD24A**	J (0.425″)	60
7/8	**QJXD28A**	J (0.425″)	60
15/16	**QJXD30A**	J (0.425″)	60
1	**QJXD32A**	J (0.425″)	60
7/8	**QYXD28A**	Y (0.560″)	160
15/16	**QXXD30A**	X (0.735″)	240
1-1/8	**QXXD36A**	X (0.735″)	240
5/8	**QYXD20A**	Y (0.560″)	160
11/16	**QYXD22A**	Y (0.560″)	160
3/4	**QYXD24A**	Y (0.560″)	160
15/16	**QYXD30A**	Y (0.560″)	160

Center of fastener to retaining pin:
- QJXD Series: 2.50″
- QYXD Series: 3.00″

Box End Heads, 10° Offset, 12-Point, inches

	Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
1/2	**QJXB16A**	J (0.425″)	60
9/16	**QJXB18A**	J (0.425″)	60
5/8	**QJXB20A**	J (0.425″)	60
11/16	**QJXB22A**	J (0.425″)	60
3/4	**QJXB24A**	J (0.425″)	60
1-3/8	**QXXB44A**	X (0.735″)	240
1-1/2	**QXXB48A**	X (0.735″)	240
5/8	**QYXB20A**	Y (0.560″)	79
3/4	**QYXB24A**	Y (0.560″)	160
7/8	**QYXB28A**	Y (0.560″)	160
15/16	**QYXB30A**	Y (0.560″)	160
1	**QYXB32A**	Y (0.560″)	160
1-1/8	**QYXB36A**	Y (0.560″)	160

Center of fastener to retaining pin:
- QJXB Series: 2.50″
- QYXB Series: 3.00″



QYSBXM18A

Box End Heads, 10° Offset, 12-Point, mm

mm	Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
11	**QJXBM11A**	J (0.425″)	59
12	**QJXBM12A**	J (0.425″)	60
13	**QJXBM13A**	J (0.425″)	60
14	**QJXBM14A**	J (0.425″)	60
15	**QJXBM15A**	J (0.425″)	60
16	**QJXBM16A**	J (0.425″)	60
18	**QJXBM18A**	J (0.425″)	60
19	**QJXBM19A**	J (0.425″)	60
18	**QYXBM18A**	Y (0.560″)	160
24	**QYXBM24A**	Y (0.560″)	160
28	**QYXBM28A**	Y (0.560″)	160

Center of fastener to retaining pin:
- QJXBM Series: 2.50″
- QYXBM Series: 3.00″

Box End Heads, 40° Bend, 12-Point, mm

mm	Stock No.	Shank (dia.)	Center of Fastener to Retaining Pin
18	**QYSBXM18A**	Y (0.560″)	**QYSBXM Series – 3.00″**
24	**QYSBXM24A**	Y (0.560″)	**QYSBXM Series – 3.00″**

Center of fastener to retaining pin:
- QYSBXM Series: 3.00″

ISO/IZO Ratchet Head Inserts

Stock No.	Square Drive, inches (mm)	Width, mm	Insert Size, mm	Max Recommended Working Torque, N•m
IZTRAT9X12	1/4 (6)	37	9 x 12	25
IZFRAT9X12	3/8 (10)	38	9 x 12	160
IZSRAT9X12	1/2 (13)	38	9 x 12	160
IZSRAT14X18	1/2 (13)	40	14 x 18	265
IZLRAT14X18	3/4 (19)	40	14 x 18	960
QIZ16Q14X18	1/2 (13)	40	14 x 18	265

IZO Torque Insert Heads

Stock No.	Description
IZ7OE9X12	7 mm OE insert 9 x 12
IZ8OE9X12	8 mm OE insert 9 x 12
IZ9OE9X12	9 mm OE insert 9 x 12
IZ10OE9X12	10 mm OE insert 9 x 12
IZ11OE9X12	11 mm OE insert 9 x 12
IZ13OE9X12	13 mm OE insert 9 x 12
IZ14OE9X12	14 mm OE insert 9 x 12
IZ15OE9X12	15 mm OE insert 9 x 12
IZ16OE9X12	16 mm OE insert 9 x 12
IZ17OE9X12	17 mm OE insert 9 x 12
IZ18OE9X12	18 mm OE insert 9 x 12
IZ19OE9X12	19 mm OE insert 9 x 12
IZ13OE14X18	13 mm OE insert 14 x 18
IZ14OE14X18	14 mm OE insert 14 x 18
IZ15OE14X18	15 mm OE insert 14 x 18

Stock No.	Description
IZ17OE14X18	17 mm OE insert 14 x 18
IZ18OE14X18	18 mm OE insert 14 x 18
IZ19OE14X18	19 mm OE insert 14 x 18
IZ22OE14X18	22 mm OE insert 14 x 18
IZ24OE14X18	24 mm OE insert 14 x 18
IZ27OE14X18	27 mm OE insert 14 x 18
IZ30OE14X18	30 mm OE insert 14 x 18
IZ32OE14X18	32 mm OE insert 14 x 18
IZ36OE14X18	36 mm OE insert 14 x 18
IZ10IR9X12	10 mm Insert Ring 9 x 12
IZ11IR9X12	11 mm Insert Ring 9 x 12
IZ12IR9X12	12 mm Insert Ring 9 x 12
IZ13IR9X12	13 mm Insert Ring 9 x 12
IZ14IR9X12	14 mm Insert Ring 9 x 12
IZ15IR9X12	15 mm Insert Ring 9 x 12

Stock No.	Description
IZ17IR9X12	17 mm Insert Ring 9 x 12
IZ19IR9X12	19 mm Insert Ring 9 x 12
IZ13IR14X18	13 mm Insert Ring 14 x 18
IZ14IR14X18	14 mm Insert Ring 14 x 18
IZ15IR14X18	15 mm Insert Ring 14 x 18
IZ17IR14X18	17 mm Insert Ring 14 x 18
IZ19IR14X18	19 mm Insert Ring 14 x 18
IZ22IR14X18	22 mm Insert Ring 14 x 18
IZ24IR14X18	24 mm Insert Ring 14 x 18
IZ27IR14X18	27 mm Insert Ring 14 x 18
IZ30IR14X18	30 mm Insert Ring 14 x 18
IZ32IR14X18	32 mm Insert Ring 14 x 18
IZ36IR14X18	36 mm Insert Ring 14 x 18
IZWI9X12	Welding insert 9 x 12
IZWI14X18	Welding insert 14 x 18

⚠WARNING

- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

INTERCHANGEABLE HEADS



QYOM32A

Center of fastener to retaining pin:
- QJO Series: 2.50″
- QYO Series: 3.00″

Thin Open End Heads, inches

Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
QJO18ARTH	J (0.425″)	60
QJO22ARTH60	J (0.425″)	60
QJO32ARTH	J (0.425″)	60
QJO34ARTH	J (0.425″)	60
QJO36ARTH	J (0.425″)	60
QJO38ARTH	J (0.425″)	60
QJO40ARTH	J (0.425″)	60
QJO44ARTH	J (0.425″)	60
QJO48ARTH	J (0.425″)	60
QJO50ARTH	J (0.425″)	60
QJO52ARTH	J (0.425″)	60
QJO54ARTH	J (0.425″)	60
QJO56ARTH	J (0.425″)	60
QJO60ARTH	J (0.425″)	60

Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
QJO64ARTH	J (0.425″)	60
QJO66ARTH	J (0.425″)	60
QJO68ARTH	J (0.425″)	60
QJO86ARTH	J (0.425″)	60
QYO44ARTH	J (0.425″)	60
QYO48ARTH	Y (0.560″)	160
QYO50ARTH	Y (0.560″)	160
QYO52ARTH	Y (0.560″)	160
QYO56ARTH	Y (0.560″)	160
QYO60ARTH	Y (0.560″)	160
QYO64ARTH	Y (0.560″)	160
QYO68ARTH	Y (0.560″)	160
QYO72ARTH	Y (0.560″)	160

Thin Open End Heads, mm

mm	Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
17	QJOM17ARTH	J (0.425″)	60
18	QJOM18ARTH	—	—

mm	Stock No.	Shank (dia.)	Maximum Working Torque, ft-lb
46	QJOM46ARTH	—	—

Center of fastener to retaining pin:
- QJOM Series: 2.50″
- QYOM Series: 3.00″
- QXOM Series: 4.50″
- QZOM Series: 5.75″

Open End Heads, mm

mm	J (0.425″)	Y (0.560″)	X (0.735″)	Z (0.990″)	O.D., mm	Head Depth, mm
6	QJOM6A (5)	—	—	—	13	4
7	QJOM7A (6)	—	—	—	15	4
8	QJOM8A (10)	—	—	—	17	4
9	QJOM9A (14)	—	—	—	19	5
10	QJOM10A (22)	—	—	—	21	5
11	QJOM11A (33)	—	—	—	23	6
12	QJOM12A (36)	—	—	—	25	6
13	QJOM13A (41)	—	—	—	27	6
14	QJOM14A (55)	QYOM14A (55)	—	—	29	7
15	QJOM15A (60)	QYOM15A (74)	—	—	31	7
16	QJOM16A (60)	QYOM16A (88)	—	—	33	7
17	QJOM17A (60)	QYOM17A (103)	QXOM17A (103)	—	35	8
18	QJOM18A (60)	QYOM18A (115)	QXOM18A (115)	—	37	8
19	QJOM19A (60)	QYOM19A (138)	QXOM19A (138)	—	39	9
20	QJOM20A (60)	QYOM20A (160)	QXOM20A (160)	—	41	9
21	QJOM21A (60)	QYOM21A (160)	QXOM21A (180)	—	43	9
22	QJOM22A (60)	QYOM22A (160)	QXOM22A (206)	—	46	10
23	QJOM23A (60)	QYOM23A (160)	QXOM23A (229)	—	47	10
24	QJOM24A (60)	QYOM24A (160)	QXOM24A (240)	QZOM24ADP (250)	49	11
25	QJOM25A (60)	QYOM25A (160)	QXOM25A (240)	QZOM25ADP (275)	52	11
26	QJOM26A (60)	QYOM26A (160)	QXOM26A (240)	QZOM26ADP (298)	53	11
27	QJOM27A (60)	QYOM27A (160)	QXOM27A (240)	QZOM27ADP (319)	55	12
29	—	QYOM29A (160)	QXOM29A (240)	QZOM29ADP (379)	58	12
30	QJOM30 (60)	QYOM30A (160)	QXOM30A (240)	QZOM30ADP (413)	61	13
32	QJOM32 (60)	QYOM32A (160)	QXOM32A (240)	QZOM32ADP (480)	65	14
34	—	QYOM34A (160)	QXOM34A (240)	QZOM34ADP (480)	68	14
36	QJOM36A (60)	QYOM36A (160)	QXOM36A (240)	QZOM36ADP (480)	74	15
41	—	QYOM41 (160)	QXOM41A (240)	QZOM41ADP (480)	83	18
46	—	—	QXOM46A (240)	QZOM46ADP (480)	93	19
49	—	QXOM49A (240)	—	—	86	18
50	—	QYOM50A (160)	—	QZOM50ADP (480)	102	20
55	—	—	QXOM55A (240)	QZOM55ADP (480)	113	23
60	—	QYOM60A (160) QXOM60A (240)	—	QZOM60ADP (480)	125	27
65	—	—	—	QZOM65ADP (480)	130	26
70	—	—	—	QZOM70ADP (480)	169	31

*Use with QC1P100 and QC1I200 torque bodies only; other heads may be used with all listed torque bodies

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.

Open End Heads, inches

	J (0.425″)	Y (0.560″)	X (0.735″)	Z (0.990″)	O.D., inches	Head Depth, inches
1/4	QJO8A (5)	—	—	—	17/32	9/64
9/32	QJO9A (7)	—	—	—	21/32	5/32
5/16	QJO10A (9)	—	—	—	21/32	11/64
3/8	QJO12A (18)	—	—	—	25/32	11/64
7/16	QJO14A (26)	—	—	—	29/32	11/64
1/2	QJO16A (34)	QYO16A (58)	—	—	1-1/16	11/64
9/16	QJO18A (58)	QYO18A (58)	—	—	1-1/16	9/32
5/8	QJO20A (60)	QYO20A (70)	—	—	1-5/16	9/32
11/16	QJO22A (60)	QYO22A (99)	—	—	1-7/16	5/16
3/4	QJO24A (60)	QYO24A (125)	QXO24A (125)	—	1-19/32	11/32
13/16	QJO26A (60)	QYO26A (160)	QXO26A (164)	—	1-23/32	3/8
7/8	QJO28A (60)	QYO28A (160)	—	—	1-23/32	3/8
15/16	QJO30A (60)	QYO30A (160)	QXO30A (200)	—	1-29/32	13/32
1	QJO32A (60)	QYO32A (160)	QXO32A (240)	QZO32ADP (298)	2-1/32	7/16
1-1/16	QJO34A (60)	QYO34A (160)	QXO34A (240)	QZO34ADP (480)	2-3/16	15/32
1-1/8	QJO36A (60)	QYO36A (160)	QXO36A (240)	QZO36ADP (367)	2-5/16	15/32
1-3/16	—	QYO38A (160)	QXO38A (240)	QZO38ADP (433)	2-7/16	1/2
1-1/4	QJO40A (60)	QYO40A (160)	QXO40A (240)	QZO40ADP (480)	2-9/16	17/32
1-5/16	—	QYO42A (160)	QXO42A (240)	QZO42ADP (480)	2-21/32	9/16
1-3/8	QJO44A (60)	QYO44A (160)	QXO44A (240)	QZO44ADP (480)	2-3/16	19/32
1-7/16	—	QYO46A (160)	QXO46A (240)	QZO46ADP (480)	3	19/32
1-1/2	QJO48A (60)	QYO48A (160)	QXO48A (240)	QZO48ADP (480)	3-1/16	5/8
1-9/16	—	QYO50A (160)	QXO50A (240)	QZO50ADP (480)	3-3/16	21/32
1-5/8	QJO52A (60)	QYO52A (160)	QXO52A (240)	QZO52ADP (480)	3-11/32	11/16
1-11/16	—	—	QXO54A (240)	QZO54ADP (480)	3-13/32	23/32
1-3/4	—	QYO56A (240)	QXO56A (240)	QZO56ADP (480)	3-9/16	23/32
1-13/16	—	—	QXO58A (240)	QZO58ADP (480)	3-21/32	13/32
1-7/8	—	QYO60A (240)	QXO60A (240)	QZO60ADP (480)	3-13/16	25/32
2	—	—	QXO64A (240)	QZO64ADP (480)	4-1/16	27/32
2-1/16	—	—	QXO66A (240)	QZO66ADP (480)	4-3/16	27/32
2-1/8	—	—	—	QZO68ADP (480)	4-5/16	5/8
2-1/4	—	QYO72 (240)	—	QZO72ADP (480)	4-9/16	15/16
2-3/8	—	—	—	QZO76ADP (480)	—	—
2-1/2	—	—	—	QZO80ADP (480)	5-1/16	1
2-7/8	—	QYO92 (240)	—	—	5-31/32	5/8

*Use with QC1P100 and QC1I200 torque bodies only; other heads may be used with all listed torque bodies

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.



QJO28A

Center of fastener to retaining pin:
- QJO Series: 2.50″
- QYO Series: 3.00″
- QXO Series: 4.50″
- QZO Series: 5.75″

INTERCHANGEABLE HEADS



QZD32A-1

Adaptor

QZD32A-1 Adaptor

- Adaptor Z Shank to 1″ Drive



RTWH28JSL

Ratcheting Flare Nut Heads, 12-Point, inches

	J (0.425″)	Y (0.560″)
7/16	RTWH28JSL	—
1/2	RTWH32JSL	—
9/16	RTWH36JSL	RTWH36YSL
5/8	RTWH40JSL	RTWH40YSL
11/16	RTWH44JSL	RTWH44YSL
3/4	RTWH48JSL	RTWH48YSL
13/16	RTWH52JSL	RTWH52YSL
7/8	RTWH56JSL	RTWH56YSL
3/8	—	RTWH24YSL
15/16	—	RTWH60YSL
1	—	RTWH64YSL
1-1/16	—	RTWH68YSL
1-1/8	—	RTWH72YSL
1-1/4	—	RTWH80YSL
1-3/8	—	RTWH88YSL
1-1/2	—	RTWH96YSL
1-5/8	—	RTWH104YSL

Flare Nut Heads, 6-Point, mm

mm	J (0.425″)	Y (0.560″)	O.D., mm	Head Depth, mm
8	QJRXSM8A (17)	—	17	7
9	QJRXSM9A (25)	—	18	7
10	QJRXSM10A (33)	—	20	8
11	QJRXSM11A (42)	—	21	9
12	QJRXSM12A (50)	—	22	9
13	QJRXSM13A (58)	QYRXSM13A (58)	24	9
14	QJRXSM14A (60)	—	25	10
15	QJRXSM15A (60)	QYRXSM15A (71)	26	10
16	QJRXSM16A (60)	QYRXSM16A (75)	27	11
17	QJRXSM17A (60)	QYRXSM17A (83)	29	11
18	QJRXSM18A (60)	QYRXSM18A (94)	30	12
19	QJRXSM19A (60)	QYRXSM19A (104)	32	12
20	QJRXSM20A	QYRXSM20A (113)	33	13
21	—	QYRXSM21A	34	13

Value in parentheses is the Maximum Recommended Torque, ft-lb.



RPWH128Z

Ratcheting Pipe Wrench Head, inches

Size, inches	Stock No.	Shank (dia.)
2	RPWH128Z	Z (0.990″)



RTWHM16JSL

Ratcheting Flare Nut Heads, 12-Point, mm

mm	Stock No.	Shank (dia.)
16	RTWHM16JSL	J (0.425")

Center of fastener to retaining pin:

- RTWHMJ: 3.51″
- RTWHJ: 3.50″
- RTWHY: 4.43″

Flare Nut Heads, 6-Point, inches

	J (0.425″)	Y (0.560″)	O.D., inches	Head Depth, inches
1/4	QJRXS8A (6)	—	19/32	1/4
5/16	QJRXS10A (17)	—	21/32	9/32
3/8	QJRXS12A (29)	—	3/4	5/16
7/16	QJRXS14A (42)	—	27/32	11/32
1/2	QJRXS16A (54)	—	29/32	3/8
9/16	QJRXS18A (60)	QYRXS18A (67)	1	13/32
5/8	QJRXS20A (60)	QYRXS20A (74)	1-3/32	7/16
11/16	QJRXS22A (60)	QYRXS22A (92)	1-5/32	15/32
3/4	QJRXS24A (60)	QYRXS24A (104)	1-1/4	1/2
13/16	QJRXS26A (60)	QYRXS26A (117)	1-5/16	7/32
7/8	QJRXS28A (60)	QYRXS28A (133)	1-13/32	9/16
15/16	QJRXS30A (60)	QYRXS30A (146)	1-1/2	19/32
1	QJRXS32A (60)	QYRXS32A (158)	1-9/16	5/8
1-1/8	—	QYRXS36A (160)	1-3/4	11/16

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.

Flare Nut Heads, 12-Point, inches

	Shank Dia. Y (0.560″)	O.D., inches	Head Depth, inches
9/16	QYRX18A (67)	31/32	13/32
11/16	QYRX22A (92)	1-7/32	1/2
1-3/8	QYRX44A (160)	2	13/16
1-1/2	QYRX48A (160)	2-5/32	27/32
1-5/8	QYRX52A (160)	2-11/32	1
2-1/4	QYRX72A (160)	3-1/2	1-9/16
5/8	QYRX20A (79)	1-1/16	15/32
3/4	QYRX24A (104)	1-1/4	17/32
13/16	QYRX26A (117)	1-9/32	9/16
7/8	QYRX28A (133)	1-13/32	1-3/8
15/16	QYRX30A (146)	1-7/32	23/32
1	QYRX32A (158)	1-7/32	23/32
1-1/16	QYRX34A (160)	1-5/8	23/32
1-1/8	QYRX36A (160)	1-23/32	3/4
1-3/16	QYRX38A (160)	1-13/16	7/8
1-1/4	QYRX40A (160)	1-27/32	23/32

Value in parentheses is the Maximum Recommended Torque, ft-lb.



QYRX18A

Center of fastener to retaining pin:
- QJRXSM Series: 2.50″
- QYRXSM Series: 3.00″
- QJRXS Series: 2.50″
- QYRXS Series: 3.00″
- QYRX Series: 3.00″

GEARED HEAD MULTIPLIERS



MTMB1990



MTMC1475



MTMP4400

Manual Torque Multipliers

- Ideal for use in the oil and gas industry, mining, railroad, heavy fleet, power gen and aviation
- Compact dimensions allow excellent access and easy handling
- Maximum torque output range from 730–25,000 ft-lb (MTMP25000)
- Anti-Wind-Up Ratchet (AWUR) fitted as standard, except for MTMB740, MTMB950 and MTMB1990; keeps the multiplier loaded for easier operation
- MTMC units are calibrated to give exact multiplication ratio, and each MTMC unit is issued with unique Certificate of Calibration
- True torque multiplication, accuracy guaranteed better than ±4%
- A variety of alternative reaction fixtures is available

Specifications	MTMC730	MTMC1475	MTMC2950	MTMC5100	MTMB2200	MTMB3300
Reaction Type	Interchangeable	Interchangeable	Interchangeable	Interchangeable	Bar	Bar
Torque Ratio	22:1	27:1	25:1	25:1	15.5:1	26:1
Certification	Yes	Yes	Yes	Yes	No	No
Anti-Wind-Up	Yes	Yes	Yes	Yes	Yes	Yes
Torque Output, Minimum ft-lb	74	147	295	516	220	330
Torque Output, Maximum ft-lb	730	1,475	2,950	5,100	2,200	3,300
Torque Output, Minimum N•m	100	200	400	700	300	450
Torque Output, Maximum N•m	1,000	2,000	4,000	7,000	3,000	4,500
Input Drive Female Square, inches	3/8	1/2	1/2	1/2	1/2	1/2
Output Drive Male Square, inches	3/4	1	1	1-1/2	1	1

Specifications	MTMB740	MTMB950	MTMB1990	MTMP4400	MTMP7000	MTMP14700	MTMP25000
Reaction Type	Bar and Cranked	Bar and Cranked	Bar and Cranked	Plate	Plate	Plate	Plate
Torque Ratio	5:1	5:1	5:1	25:1	125:1	125:1	87.5:1
Certification	No	No	No	No	No	No	No
Anti-Wind Up	—	—	—	Yes	Yes	Yes	Yes
Torque Output, Minimum ft-lb	74	96	200	450	700	1470	2,500
Torque Output, Maximum ft-lb	740	950	1,990	4,400	7,000	14,700	25,000
Torque Output, Minimum N•m	100	130	270	610	950	2,000	3,400
Torque Output, Maximum N•m	1,000	1,300	2,700	6,000	9,500	20,000	34,000
Input Drive Female Square, inches	1/2	1/2	3/4	1/2	1/2	1/2	3/4
Output Drive Male Square, inches	3/4	3/4	1	1-1/2	1-1/2	2-1/2	2-1/2

⚠WARNING

- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

ELECTRONIC TORQUE WRENCHES



ED2600

Electronic Dial-Type Torque Wrenches

The straightforward design provides easy setup and usage. There is no need to look directly at the digital display, as the wrench features a three-step LED light bar: a yellow LED warns when the target torque is approaching, a green light illuminates when the target is reached, and a red light indicates over-torque. In addition to the readout and LED's, a buzzer sounds when the desired torque value is reached.

Features:

- Four units of torque: in-lb, ft-lb, N•m, kg•cm
- Three models available, from 5–600 in-lb
- Accuracy: ±1% of indicated value CW and +/- 2% CCW, from 20–100% of full scale
- Accuracy: ±2% of indicated value CW and +/- 2% CCW, from 10–19% of full scale
- Three-step LED visual light system: YELLOW LIGHT = approaching target torque, GREEN LIGHT = target torque reached, RED LIGHT = over torque indicator
- Audible tone sounds when the desired torque is reached
- Display can be rotated 180º to allow for left-hand use
- Battery cover is designed to be aviation FOD proof
- Holds "peak" torque reading for 10 seconds
- Resistant to the majority of chemicals used in industrial environments
- Wrench can be hung on a tool board
- Uses one standard 9 V alkaline battery
- NIST® traceable Certificate of Calibration included
- Meets or exceeds ASME® B107.28-2010

Stock No.	Square Drive, inches	in-lb	ft-lb	N•m	kg-cm	Length, inches (mm)	Weight, lb (kg)	Storage Case
ED1050	1/4	5–50	.42–4.17	.56–5.65	5.7–57.61	11.5 (292)	1.25 (.57)	PBED1
ED2250	3/8	25–250	2.08–20.83	2.82–28.25	28–288.03	14.5 (368)	1.51 (.68)	PBED2
ED2600	3/8	60–600	5–50	6.79–67.79	69–691.27	14.5 (368)	1.51 (.68)	PBED2

CE

TORQUE TESTERS



QC1ETT10

Electronic Torque Testers

These electronic torque testers can be placed on the wall in the factory or on a bench to allow operators to test torque wrenches or power tools without having to leave their station.

- Includes Track and Peak modes
- Can be used with nonimpacting power tools (joint rate simulators required)
- Dual scale (English/N•m or English/dN•m)
- Reads bidirectional (clockwise and counterclockwise)
- Uses rechargeable Ni-Cad batteries (2 Ni-Cad 9 V)
- Charger included
- Integral transducer and sturdy housing allow mounting in virtually any position
- Integral Transducer: Full bridge strain gauge, 350 ohms, 1,500 µE, 3 mV/V F.S., 7.5 V excitation
- Unique neck design allows operator to see display when testing long torque wrenches
- Accuracy: ±0.5% of reading ±1 count in the least significant digit (10–100% of full range) at 25 °C
- Display Accuracy: four digits, 9,999 counts
- Stability: +0.044% per °C

Stock No.	Square Drive, inches	Range English	Range, N•m
QC1ETT10	1/4	10–100 in-oz	7.0–70.6
QC1ETT400	1/4	40–400 in-oz	28–280
QC1ETT50	1/4	5–50 in-lb	5.6–56
QC1ETT100	1/4	10–100 in-lb	11.3–113
QC2ETT250	3/8	25–250 in-lb	28–280
QC2ETT1000	3/8	100–1,000 in-lb	113–1,130
QC3ETT250	1/2	25–250	34–339
QC4ETT600	3/4	60–600	81–813

The certification of accuracy provided per ASME® and ISO® Standards is 10–100% of full scale.

Digital Torque Testers (DTT Series)

- Can be mounted on a wall or in a bench-top vise
- Features an easy-to-use touchscreen to capture peak torque values during a test in real time
- Download stored torque data to a PC
- Testing options: quick check or ASME®-style test
- Refresh rate of 1,000 data points per second
- Record and track torque wrench test results by serial number, plus add traceability by using wrench serial numbers and technician I.D.
- Choose wrench type
- ±0.5% of indicated test value from 10–100% or rated capacity
- Memory Capacity: 500 records (complete check mode only)
- Includes AC/DC power supply, (6) AA alkaline batteries, USB cable and carrying case
- Highly accurate scale (±0.5% ±1 count 10–100% CW and CCW of indicated test value @ 25 °C)
- Ability to customize between units of measure (N•m, kg-cm, ft-lb, inlb, in-oz), operation modes (Track, Peak, First Peak) and wrench type
- Operating temperature (10–32 °C/ 50–90 °F)
- Refresh rate of 1,000 data Points Per Second
- CSA/UL Requirements: Power supply listed under UL (C and US); 100–240V/ 50–60 Hz, 6 A input and 9 V/1.66 A output
- Includes a Certificate of Calibration



QC3DTT250

Stock No.	Description
DTS8269	AC Adaptor
DTS95095	Power Cord, UK
DTS95096	Power Cord, Australia
DTS95097	Power Cord, EU
2344-0050-03	Table Mounting Bracket For DTT Testers

NOTE: Must order the adaptor and appropriate power cord.

	QC2DTT250	QC3DTT250
Square Drive, inches	3/8	1/2
Range English	25–250 in-lb	25–250
Range, N•m	2.9–28.2	33.9–338.9
Accuracy	±0.5% of Indicated Test Value from 10–100% or Rated Capacity	±0.5% of Indicated Test Value from 10–100% or Rated Capacity
Operating Modes	TRACK, PEAK, FIRST PEAK	TRACK, PEAK, FIRST PEAK
Operating Temperature	32–122 °F (0–50 °C)	32–122 °F (0–50 °C)
Humidity	85% Relative Humidity @ 21 °C (70 °F)	85% Relative Humidity @ 21 °C (70 °F)
Power Supply	Included 9 V AC/DC Adaptor, (6) AA Batteries Included	Included 9 V AC/DC Adaptor, (6) AA Batteries Included
Data/Surge/Recall	Memory Capacity—500 Records (complete check mode only)	Memory Capacity—500 Records (complete check mode only)



TBTT100A



TBT600A

Horizontal Torque Testers and Transducers

- Includes (3) transducers
- Full digital display
- Covers ft-lb, in-lb, in-oz, N•m, kg-m, kg-cm scales
- Peak hold and first peak hold capability
- NIST® traceable

Stock No.	Description	Range	Resolution
TBT600A	Horizontal Torque Tester	5–600	—
TBTT16A	Transducer	7.5–200 in-lb	.002 ft-lb, 02 in-lb, .002 N•m., .0002 kg-m, .02 kg-cm
TBTT100A	Transducer	5–100	.01 ft-lb, 1 in-lb, 2 in-oz, .01 N•m, .001 kg-m, 1 kg-cm
TBTT600A	Transducer	30–600 ft-lb	.05 ft-lb, 5 in-lb, 10 in-oz, 1 N•m, .01 kg-m., 1 kg-cm

⚠WARNING

- Do not exceed rated torque
- Do not use torque wrenches to break fasteners loose
- Torque multipliers produce very high reaction force, use caution
- Read safety precautions on pages W1 to W4

VERSATORQ® 2 TORQUE METERING AND DATA ACQUISITION SYSTEM

Versatorq® 2 System Torque Acquisition Meters

The Snap-on® Versatorq® 2 portable ATEX®/UL® certified electronic torque analyzer displays torque readings from sensors that attach between sockets and the driver. This highly versatile torque analyzer and data acquisition system can be used with various sockets, extensions, universal joints, and ratcheting drivers. Sensors, purchased separately, are available in eight ranges from 2–20 in-oz to 150–1,500 ft-lb and provide readings with an accuracy of 1% or 2% (dependent on the transducer).

Now "intrinsically safe" for use in hazardous environments (ATEX, UL®, ULC, CE compliant).

- Ideal for applying torque (CW and CCW) in confined spaces with tight access and jobs requiring repetitive torque applications
- Accuracy rating ±1% of reading (10–100% of sensor range). ±2% with VERSA1S10A and VERSA1S20A
- Track mode displays applied torque value and Peak mode displays highest torque value
- Non-volatile flash memory retains data for 10 years or more
- Plug-and-play mini USB for easy data download; no client software needed
- Customer calibration supports ASME® and ISO®
- Includes carrying case (PB57A), mini USB cable (USBATOMINIB), belt clip (276-61) and batteries
- Versatorq® 2 sensors (sold separately) enable accurate torque application using a standard ratchet or breaker bar of any length, with data readout and storage on the cable-connected Versatorq® 2 meter
- Versatorq® 2 sensors available from 2 in-oz up to 1,500 ft-lb with readings in seven popular measurement scales



VERSATORQ2



VERSA2S100A

Torque Acquisition Meters

VERSATORQ2 Versatorq® 2 System

- Includes carrying case (PB57A), mini USB cable (USBATOMINIB), belt clip (276-61) and batteries
- Sensors sold separately

Specifications	VERSATORQ2
Description	VERSATORQ® 2 System
Display	4 Digit with Alpha and Numerical Function Flags
Display Capacity*	4 Digits
Accuracy	±1% of Reading (10–100% of Sensor Range) (±2% with VERSA1S10A and VERSA1S20A Sensors)
Push-Button Keypad	—
Units of Measure	in-oz, in-lb, ft-lb, n•m, cN•m, kg•cm, kg•m
Operating Temperature	40–110 ºF (23–42 ºC)
Storage Temperature	-2–122 ºF (-20–22 ºC)
Humidity	Up to 90% Non-Condensing
Dimensions	3″ W x 2-1/2″ D x 6″ L
Weight	—
Charge Life (full charge to shutoff)	—
Data Storage/Recall	—
Battery	—

*Versatorq® display ignores torque input less than .5% of full scale in Track mode and 2.0% of full scale in Peak mode
Hazardous Location Designation: Class 1, Zone 2, Ex ic !!A
Temperature Class: T6

Versatorq® 2 Sensors

Stock No.	Square Drive, inches	Range	Sensor Diameter, inches	Sensor Length, inches	Cable Length, inches
VERSA1S10A*	1/4	1–10 in-lb	.7	2.9	48
VERSA1S200A	1/4	20–200 in-lb	.9	2.1	48
VERSA1S20A*	1/4	2–20 in-oz	.5	2.9	48
VERSA1S50A	1/4	5–50 in-lb	.9	2.1	48
VERSA2S100A	3/8	10–100	1.2	2.4	48
VERSA3S250A	1/2	25–250 ft-lb	1.4	2.6	48
VERSA4S600A	3/4	60–600 ft-lb	2.0	3.9	96
VERSA5S1500A**	1	150–1,500	2.4	4.4	92

*Knurled handles allow for fingertip control
**Diameter does not include side-mounted connector
Heavy-duty coiled cord with four-pin MS-style connector
Original Versatorq® Sensors (without "A" suffix in the stock number) are compatible with the VERSATORQ2 meter, but the sensors require calibration

VERSATORQ1® System Accessories

Stock No.	Description
VERSACABLE	RS232 Serial Printer Cable
VERSACABLE2	PC Interface Cable

Please reference the VERSATORQ® 2 instruction manual for the sensor ranges and resolutions in different units of torque measurement.

Versatest™

The Versatest™ indicator is a laboratory-grade monitor designed for precise, in-house torque wrench testing and calibration. High-precision torque transducers provide system readings with an accuracy of +/- 0.25% of indicated value. Twelve transducers are available in ranges from 5 in-oz to 2,000 ft-lb. The 4-in-1 Transducer, with a range of 5 in-lb to 250 ft-lb is also available. All transducers feature a built-in memory chip that identifies the transducer and maintains the calibration. Setup and calibration programming is entered via soft touch keys. The Versatest™ can store and recall up to 3,000 torque readings. Torque readings stored in memory can be downloaded to a computer with optional download cable and software.



VERSATEST600

Specifications	VERSATEST
Description	Electronic Torque Tester/Calibrator
Display	Large 5-1/2″ x 1-1/2″ Backlit LCD Graphics Display (240 x 64 dot matrix, 0.67″ torque digits character height)
Capacity	5 Significant Digits +/- 32,000 Counts (16 bit A/D)
Display Rate	Five Updates per Second
Accuracy	±0.25% of reading at 25 °C (with TTC Transducer calibration)
Bar Graph	100 Segment Analog of Applied Torque Scaled to Limits Set Value
Modes	Track, Peak Hold, First Peak, Power Tool
Humidity	85% Relative Humidity @ 21 °C (70 °F)
Dimensions	10″ W x 10-1/2″ D x 4″ H (including carrying handle)
Power Supply	Auto Switching 100–240 VAC, 50/60 Hz, 50 watts
Data Storage/Recall	3,000 Measurements
Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions
Computer Serial Com Port	RS232 (true), 300–19.2K Baud
Analog Output	+(CW)/-(CCW) 1.8 V at Transducer Full Range Linearity, ±1% of Reading
Loader Control Relays	Two, Normally Open, Form A, Rated 12 V DC @ 1/2 A Close Contact at 110% CW or CCW or Torque/Force Transducer Range

VERSATEST

VERSATEST Electronic Torque Tester/Calibrator

- Large LCD display
- Accuracy: +/- 0.25% of indicated value, CW and CCW, from 10–100% of full scale
- Two RS232C serial ports; for use with a printer and PC
- Data storage /recall (with date/time stamp) up to 3,000 readings
- Real-time clock
- Seven Torque Units: ft-lb, in-lb, in-oz, N•m, dN•m, kgm, kg-cm
- Will also load torque screwdrivers
- Smart Plug-and-Play transducers
- Analog output connect to oscilloscope or X-Y plotter
- External Printer can be mounted on top of the Versatest™ unit
- Four Modes: Track, Peak Hold, First Peak, Power Tool
- Transducers available from 5 in-oz to 2,000 ft-lb
- Statistic Process Control (SPC) built in
- Automatic or manual downloading
- All transducers are individually serialized with Certificate of Calibration traceable to NIST®
- Five Languages: English, Spanish, French, Japanese, German
- CE Conformity

VERSATEST600 Versatest™ Complete Electronic Torque Calibration System

- Provides high-speed monitoring of static and dynamic torque inputs
- Includes the Versatest™ Digital Monitor, VERSA600LDR2 600 ft-lb Mechanical Loader, TTC400 4-in-1 Transducer, TTC5000-1 Bracket and TTC12 3/4″ 600 ft-lb Transducer

VERSA600LDR2 Versatest™ Mechanical Torque Loader

- Unit will load dial, micrometer, beam and electronic torque wrenches
- Maximum capacity of 600 ft-lb
- Use with any TTC series transducer from 15 in-oz to 600 ft-lb

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

ELECTRONIC TORQUE TESTER AND CALIBRATOR



TTC2000SYS



TTC2800SYS

TTC2000 Master Torque Calibration System (Manual)
The system tests and calibrates most click-type, digital, dial torque wrenches as well as torque screwdrivers. Twelve transducers are available in ranges from 5 in-oz to 2,000 ft-lb. Also available is the 4-in-1 Transducer, with a range of 4 in-lb to 250 ft-lb. All transducers feature a built-in memory chip that identifies the transducer and maintains the calibration. Set up and calibration programming is entered via soft touch keys. The TTC2000 can store and recall up to 3,000 torque readings. Torque readings stored in memory can be downloaded to a computer with optional download cable and software. Optional kits are available to calibrate cable tensionmeters, tension and compression gauges and non-impact power tools.

TTC2800/TTC2822 Master Torque Calibration System (Motorized)
The TTC2800 has the same features as the TTC2000 series except for the following enhanced features:
- Electric motor powered crank for easy calibration
- Is offered in 110 V version (TTC2800/Complete TTC2800SYS or 220 V version (TTC2822/Complete system TTC2822SYS)

TTC2000SYS Electronic Manual Torque Tester/Calibrator
(Manual) includes: TTC610 Digital Monitor, TTC600 2000 ft-lb Mechanical Loader, SM0773PU Tool Cabinet w/ Casters, TTC400 4-in-1 Transducer, TTC5000-1 Bracket, TTC12 3/4″ 600 ft-lb Transducer, TTC14 1″ 2000 ft-lb Transducer, TTC5500-1 Extension Arm, 2000-SW WedgeLink Software, 2000-50-3 Download Cable.

TTC2800SYS Motorized Torque Tester/Calibrator
Complete Master Torque Calibration System (Motorized) includes: TTC2800 Monitor, Loader and Tool Cabinet w/ Casters, TTC400 4-in-1 Transducer, TTC5000-1 Bracket, TTC12 3/4″ 600 ft-lb Transducer, TTC14 1″ 2,000 ft-lb Transducers, TTC5500-1 Extension Arm, 2000-SW WedgeLink Software, 2000-50-3 Download Cable

Features
- Accuracy: ±0.25% of indicated value, CW and CCW, from 10–100% of full scale
- Units of Torque: ft-lb, in-lb, in-oz, N•m, dN•m, cN•m, Kgm, Kg-cm
- Units of Force: lbf, ozf, n, dN, kp, gf
- Four Modes: TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL
- Includes built-in low-profile serial printer
- Transducers available from 5 in-oz to 2,000 ft-lb
- Loader hand crank maximum input torque is 8 ft-lbs, maximum output is 2,000 ft-lb
- All transducers are individually serialized with certificates of calibration traceable to N.I.S.T.
- Programmable automatic or manual options for CLEAR, STORE or SEND
- RS232 serial port for downloading data to PC
- Operating Temperature: 10–32 ºC (50–90 ºF)
- Automatic lockup in the event of transducer overload
- Data storage/recall (with date/time stamp) up to 3,000 readings
- Dual Voltage: 110 V or 220 V• Real Time Clock
- Smart “Plug and Play” transducers
- NIST® traceable

	TTC2000SYS	TTC2800SYS
Description	Electronic Manual Torque Tester/Calibrator	Motorized Torque Tester/Calibrator
Capacity	8 digits ±32,000 counts (16 bit A/D)	8 digits ±32,000 counts (16 bit A/D)
Accuracy*	±0.25% of reading at 25 °C (with TTC Transducer calibration)	±0.25% of reading at 25 °C (with TTC Transducer calibration)
Temperature Drift	+0.03 (+0.017)	+0.03 (+0.017)
Maximum Range Display	2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Calibration, Date/Time, Statistics, Torque/Force or Torque Limits Set, Data Store/Recall, Printer Set Up	2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Calibration, Date/Time, Statistics, Torque/Force or Torque Limits Set, Data Store/Recall, Printer Set Up
Modes	Track, Peak Hold, First Peak, Power Tool	Track, Peak Hold, First Peak, Power Tool
Operating Temperature	10–32 (50–90)	10–32 (50–90)
Storage Temperature	-20–50 (-2–122)	-20–50 (-2–122)
Humidity	Up to 90% Non-Condensing	Up to 90% Non-Condensing
Power Supply	UL Approved, 120 VAC/220 VAC, 50/60 Hz	120 VAC ±10%, 50/60 Hz @3.14 A (including motor current). (Includes stepdown transformer for 240 VAC operation.)
Data Storage/ Recall	3,000 Measurements	3,000 Measurements
Statistical Analysis	Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo	Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo
Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions	Lower Set Limit, Upper Set Limit, 10 Divisions
Printer/Computer Serial Output Port	RS232 (True), 300-19.2K Baud	RS232 (True), 300-19.2K Baud
Computer Serial Com Port	RS232 (True), 300–19.2K Baud (Optional)	RS232 (True), 300–19.2K Baud (Optional)
Analog Output	+(CW/-(CW) 1.8 V at Transducer Full Range Linearity, ±1% of reading	+(CW/-(CW) 1.8 V at Transducer Full Range Linearity, ±1% of reading
Loader Control Relays	Two, Normally Open, Form A, Rated 12 DVC @ 1/2 A close contact at 110% CW or CCW or torque/force transducer range	Two, Normally Open, Form A, Rated 12 DVC @ 1/2 A close contact at 110% CW or CCW or torque/force transducer range
Loader Hand Crank	Input torque 8 ft-lb Maximum, Output Torque 2,000 ft-lb Maximum	Input torque 8 ft-lb Maximum, Output Torque 2,000 ft-lb Maximum
Motorized Loader Modes	—	Manual; Auto Dial; Auto Click
Motorized Loader Power Supply	—	120 V AC ±10% Hz @ 3.14 A (including motor current); (optional step-down transformer for 240 V AC operation)

Total Uncertainty: Add 7.5–100% of Range and 8–100% of Range
Training programs are available by location (P/N STRN01 to STRN07)

TTC2000/TTC2800 System Components

TTC600 Loader

TTC610 Digital Indicator

- For electronic torque tester and calibrator

TTC800 Motorized Loader

TTC810 Digital Indicator

Electronic Torque Tester and Calibrator

TTC2000 Electronic Torque Tester/Calibrator

- Automatic sensor recognition with TTC series "Smart" transducers
- Range: 5 in-oz–2,000 ft-lb (bidirectional)
- Total uncertainty (10–100% of range): ± 0.25% of indicated torque value
- Alpha-numeric eight-digit display
- Memory to 3,000 values
- Includes low-profile serial printer
- Date and time stamp for stored values
- Statistical analysis performed on stored data
- Programmable manual or automatic options for Clear, Store and Print functions
- Recall and review of stored torque values
- Modes: Track, Peak, First Peak and Power Tool
- Optional angle encoder
- RS232C port is standard
- Analog output is standard
- Full digital circuitry
- Eight torque measurement units: in-oz, in-lb, ft-lb, cN•m, dN•m, N•m, kg-cm and kg-m
- Automatic lock-up for transducer protection
- NIST® traceable

TTC2000SYS Electronic Manual Torque Tester/Calibrator

- TTC2000SYS includes: TTC2000 Monitor, Mechanical Loader and Cabinet, TTC400 4-in-1 Transducer Kit (4 in-lb–250 ft-lb), TTC12 Transducer Kit (60–600 ft-lb), TTC14 Transducer Kit (200–2,000 ft-Lb), TTC5500-1 Extension Arm, TTC5000-1 4-in-1 Transducer Bracket, 2000-SW WedgeLink Software and 2000-50-3 Download Cable
- NIST® traceable

TTC2800SYS Motorized Torque Tester/Calibrator

- Front Panel Function Keys: SELECT Torque/Force; MODE, UNIT; ZERO TARE; CALIBRATION; DATE/TIME; SET LOW; STORE DATA; RECALL DATA; STATISTICS; SEND/AUTO SEND; AUTO CLEAR; MANUAL CLEAR; ENTER; VALUE increment; VALUE decrement; DIGIT left; DIGIT right
- Model TTC2800SYS includes: TTC2800 TTC Monitor, Motorized Loader, and Cabinet, TTC400 4-in-1 Transducer Kit (4 in-lb–250 ft-lb), TTC5000-1 4-in-1 Transducer Bracket, TTC12 Transducer Kit (60–600 ft-lb), TTC14 Transducer Kit (200–2,000 ft-lb), TTC5500-1 Extension Arm, 2000-SW WedgeLink Software and 2000-50-3 Download Cable
- NIST® traceable

TTC2800-220V Motorized Torque Tester/Calibrator (220 V AC)

- Front Panel Function Keys: SELECT Torque/Force; MODE, UNIT; ZERO TARE; CALIBRATION; DATE/TIME; SET HIGH; SET LOW; STORE DATA; RECALL DATA; STATISTICS; SEND/AUTO SEND; AUTO CLEAR; MANUAL CLEAR; ENTER; VALUE increment; VALUE decrement; DIGIT left; DIGIT right
- NIST® traceable



TTC2800SYS



TTC8



TTC400

Transducers

All TTC series transducers include the correct adaptor for the indicated torque range.

Stock No.	Description	Range	Bench Top Mounting Bracket
TTC4* **	1/4″ Drive Transducer	5–50 in-oz	**TTC3421**
TTC5	1/4″ Drive Transducer	15–200 in-oz	**TTC3421**
TTC6	1/4″ Drive Transducer	4–50 in-lb	**TTC3421**
TTC65	1/4″ Drive Transducer	15–150 in-lb	**TTC3421**
TTC7	3/8″ Drive Transducer	30–400 in-lb	**TTC3421**
TTC8	3/8″ Drive Transducer	80–1,000 in-lb	**TTC3421**
TTC10	1/2″ Drive Transducer	10–125 ft-lb	**TTC3422**
TTC11	1/2″ Drive Transducer	20–250 ft-lb	**TTC3422**
TTC12	3/4″ Drive Transducer	60–600 ft-lb	**TTC3422**
TTC13	1″ Drive Transducer	100–1,000 ft-lb	**TTC15002**
TTC14	1″ Drive Transducer	200–2,000 ft-lb	**TTC15002**
TTC400**	1/4″, 3/8″ and 1/2″ Drive 4-in-1 Transducer	4 in-lb–250 ft-lb	**N/A**
TTC5000-1*	4-in-1 Adaptor Plate	—	—
TTC34325	4-in-1 Table Mounting Bracket	—	—

*TTC400 requires the TTC5000-1 Adaptor Plate when used with the TTC600 Manual Loader, TTC800 Motorized Loader and VERSA600LDR2
**Required for TTC400 4-in-1 Torque Transducer to be used on TTC600/TTC800 loaders
Total Uncertainty: Add 7.5–100% of Range and 8–100% of Range (to some transducers).
***Accuracy is +/-0.5% of indicated test value from 10% to 100% of indicated torque value

⚠WARNING

- Do not exceed rated torque
- Periodic recalibration checks are necessary to maintain and assure torque tester accuracy
- Read safety precautions on pages W1 to W4

ELECTRONIC TORQUE TESTER AND CALIBRATOR



TTC2600



TTC2610



TTC2620



TTC26302

Force Testing Equipment

- Reaction arms, cables, mounting plates and fixtures are available for testing tensiometers, plus compression and tension gauges. The TTC600 and TTC800 loaders and TTC Series transducers can be configured to deliver compression and tension loads
- The TTC610/TTC810 indicator also provides measurement, display, storage and statistical analysis for force inputs

Stock No.	Description
TTC2600	Tensiometer Testing Kit
TTC2610	Tension Gauge Testing Kit
TTC2620	Compression Gauge Testing Kit
TTC26302	Force Arm Kit

Force testing feature can only be used with single transducers and CANNOT be used with the TTC400 4-in-1 multi transducer.

TTCCALKIT Calibration Kit

- Includes TTC3200 Weight Set (#1), TTC500 2-1/2″ Calibration Wheel, TTC1510 5″ Calibration Wheel, TTC1520 10″ Butterfly Calibration Wheel, 2000-226-3 Adaptor (1/2″ x 3/8″), TTC1540 40″ Calibration Arm, 390-2-2 4 oz Calibration Weight Tray, TTC301 8 oz Calibration Weight Tray, TTC3040 7.5 lb Calibration Weight Tray, TTC3020 15 lb Calibration Weight Tray, TTC3030 50 lb Calibration Weight Tray and TTC25002 Calibration Stand Kit
- Kit can be used on all TTC Systems

Accessories

TTC900121 Smart Cable Replacement

Calibration Wheels/Arms

Use to calibrate any TTC Series transducer. Arms are certified to manufacturer's standards.

Stock No.	Description
TTC500	2-1/2″ Calibration Wheel (max 50 in-oz)
TTC1510	5″ Calibration Wheel (max 150 in-lb)
TTC1520	10″ Butterfly Wheel (max 250 ft-lb)
TTC1530	1/2″ and 3/8″ Drive 20″ Calibration Arm
TTC1540	1-1/4″ Drive 40″ Calibration Arm
TTC75002	Torque Screwdriver Testing Kit (for 2800 and 2000 Series Systems)

Weight Sets

Used to calibrate any TTC Series transducer. All weights are NIST® (NBS) traceable.

Stock No.	Description
TTC3200	No. 1 Weight Set (for all transducers)
TTC3210	No. 2 Weight Set (200 in-oz–600 ft-lb)
TTC3220	No. 3 Weight Set (600–2,000 ft-lb)

Weight Hangers/Trays

Used to calibrate any TTC series transducer. Weight trays are certified as to weight.

Stock No.	Description
390-2-2	Weight Hanger (4 oz)
TTC301	Weight Hanger (1/2 lb)
TTC3040	Weight Tray (7.5 lb)
TTC3020	Weight Tray (15 lb)
TTC3030	Weight Tray (50 lb)



QC2JRS400

Joint Rate Simulator Adaptors

- Use with torque tester when testing nonimpacting power tools
- Square drive adaptor is placed on top of square drive of the torque tester and tightened with a set screw
- Adaptor bit is inserted into the power tool and mated to the top of the joint adaptor
- By stacking the Belleville washers in set patterns, the joint rate adaptor can simulate soft, medium or hard joints

Stock No.	Square Drive, inches	Capacity, in-lb	Adaptor Bit	Load Screw
QC1JRS50	1/4	50	1/4″ Hex x 3/16″ Hex	1/4″ x 28 x 1
QC2JRS400	3/8	400	3/8″ Square Internal x 3/8″ Hex	7/16″ x 20 x 1.5
QC2JRS1000	3/8	1,000	3/8″ Square Internal x 1/2″ Hex	5/8″ x 18 x 1.5

Accessories

Stock No.	Description
TTC3421	Tranducer Mount (5–50 in-oz to 80–1,000 in-lb)
TTC3422	Transducer Mount (10–125 ft-lb to 60–600 ft-lb)
2000-150-03	Transducer Mount (60–600 ft-lb to 200–2,000 ft-lb)
TTC75006	Torque Screwdriver Testing Kit (for VERSATEST600 Loader System)
260-27	1/4″ Hex x 1/4″ Square Socket Adaptor
342-40	Female 1/4″ Square x 1/4″ Square Socket Adaptor
342-41-1	Female 1/4″ Square x 1/4″ Square Socket Adaptor
342-41-1S	Female 1/4″ Square x 3/8″ Square Socket Adaptor
342-41-2	Female 3/8″ Square x 3/8″ Square Socket Adaptor
65-26-2	Female 1/2″ Square x 3/8″ Square Socket Adaptor
65-78-1	Female 1/2″ Square x 3/4″ Square Socket Adaptor
65-78-2	Female 3/4″ Square x 3/4″ Square Socket Adaptor
75-25-1	Female 1″ Square x 3/4″ Square Socket Adaptor
75-20	Female 1″ Square x 1″ Square Socket Adaptor
2000-152-3	1/2″ Male x 3/8″ Female Square Drive Reducer
2000-226-3	3/4″ Male x 1/2″ Female Square Drive Reducer
2000-226-2	1″ Male x 3/4″ Female Square Drive Reducer
2000-0154-18	1-1/4″ Male x 3/4″ Female Square Drive Reducer
TTC25002	Complete Calibration Stand Kit (Including Adaptors)
TTC75002	Torque Screwdriver Testing Kit (for 2800 and 2000 Series Systems)
TTC5500-1	Extension Arm (For 2000 and 2800 Series Loaders)
QCDTC3250	Electronic Torque Digital Checker—1/2 and 3/8″ (25–250 ft-lb)
TCR175	Torque Comparator (175 ft-lb Max)
TCR600	Torque Comparator (600 ft-lb Max)
TTC503	USB Download Cable for SureTest and TTC systems



TTC25002

Torque Digital Checker

QCDTC3250 Electronic Torque Digital Checker—1/2 and 3/8″ (25–250 ft-lb)

- Easy method to check a 1/2 or 3/8″ drive torque wrench
- Highly Accurate: +/- 1% CW and +/- 1% CCW of indicated value
- Large, easy-to-read backlit LCD screen
- Three measurement modes: ft-lb, in-lb, N• m
- Three primary torque checking modes—Track, Peak Hold, First Peak
- Integrated exercise adaptor on mounting plate to “break in” mechanical torque wrenches before testing
- Includes GAF2A 3/8″ adaptor with storage pocket for convenience when testing 3/8″ drive torque wrenches
- Integrated exercise adaptor on mounting plate (allows user to break-in for accurate results per ASME® B107-300 standard)
- Battery powered by 3 AA alkaline batteries—optional AC adaptor available (DTS8269)
- Adjustable shut-off feature
- CE approved
- Includes Certificate of Calibration



QCDTC3250

TCR175 Torque Comparator (175 ft-lb Max)

- Determines if a torque wrench requires calibration to maintain proper application of torque
- 1/2″ female square drive input and 175 ft-lb capacity with 5 ft-lb graduations and 230 N•m capacity with 10 N•m increments is a perfect fit for the most popular torque wrenches
- Integrated exercise adaptor makes break-in process in simple, providing the most accurate results (as per B107-300 standard)
- 2% accurate within ±2% of the reading from 20% of full scale to full scale clockwise and counterclockwise
- Able to check a 3/8″ drive torque wrench by using an A2A or GAF2A adaptor
- Does not include Certificate of Calibration



TCR175C

TCR175C Torque Comparator (Certificate of Calibration)

TCR600 Torque Comparator (600 ft-lb Max)

- Similar to TCR175 except for:
- 3/4″ female square drive input and 600 ft-lb capacity with 10 ft-lb graduations and 800 N•m capacity with 20 N•m increments
- Compact design with 1/4″ steel mounting plate allows for convenient installation in any direction: horizontally on a bench, vertically on a wall, or on any other sturdy, flat surface
- Use on most 3/4″ drive torque wrenches
- Does not include Certificate of Calibration



TCR600C

TCR600C Torque Comparator (Certificate of Calibration)

⚠WARNING

- Do not exceed rated torque
- Periodic recalibration checks are necessary to maintain and assure torque tester accuracy
- Read safety precautions on pages W1 to W4

PNEUMATIC TORQUE



PTM1000



WTE4G72L9

Pneumatic Torque Wrenches

PTM Features:

- Twin motor technology allows the PTM to be both lightweight and fast
- Compact and powerful, allowing excellent access to a variety of treaded fasteners
- The secondary trigger ensures hands are away from pinch points during operation
- Run-down speeds up to 224 RPM (for PTM370)
- A wide variety of reaction fixtures are available, making this an extremely versatile tool
- These are nonimpacting tools with low vibration levels
- Operate at noise levels below 85 dB (under load)
- Gearbox rotates independently from the handle so reaction forces are never transferred back to the operator
- All tools are supplied with a Certificate of Calibration and torque vs. pressure chart
- PTM Series offers a wide range of torque output, from 74–4,500 ft-lb
- Accuracy of ±5%
- Includes case, cranked reaction fixture, tool hanger, secondary handle and male quick connect

Stock No.	Description	Torque Range (ft-lb)	Torque Range (N•m)	Square Drive Size
PTM370	Pneumatic Torque Wrench	74–370	100–500	3/4
PTM590	Pneumatic Torque Wrench	118–590	160–800	3/4
PTM740	Pneumatic Torque Wrench	147–740	200–1,000	3/4
PTM1000	Pneumatic Torque Wrench	200–1,000	270–1,350	1
PTM1475	Pneumatic Torque Wrench	295–1,475	400–2,000	1
PTM1990	Pneumatic Torque Wrench	400–1,990	540–2700	1
PTM2950	Pneumatic Torque Wrench	590–2,950	800–4,000	1-1/2
PTM3300	Pneumatic Torque Wrench	660–3,320	900–4,500	1-1/2
PTM4400	Pneumatic Torque Wrench	885–4,425	1200–6,000	1-1/2
WTE4G72L9	9″ Wheel Torque Extension (for PTM740)	—	1,000 (1,350)	1



PTQ1WTCPD562



PTQ1WTCUP482



PTQ1WTCUPD30



PTQ1WTCPBWD1



PTQ1WTCPBWD2

Pneumatic Torque Wrench Wheel Torque Accessories

- Wheel extension and cup combine to create a reaction point when torquing lug nuts on trucks and heavy equipment

Stock No.	Description	Use with Snap-on Sockets
PTQ1WTCUP342	Standard Cup	IM322A, IM342A
PTQ1WTCUP362	Standard Cup	IM362
PTQ1WTCUP482	Standard Cup	IM482, IMM382
PTQ1WTCUP542	Standard Cup	IM502, IM522, IM542
PTQ1WTCUP562	Standard Cup	IM562, IMM412
PTQ1WTCPD362	Deep Well Cup	SIM322, SIM342, SIM362
PTQ1WTCPD562	Deep Well Cup	SIM462, SIM482, SIM522, SIM562
PTQ1WTCUPD30	Deep Well Cup	SIMM302
PTQ1WTCUPD35	Deep Well Cup	SIM382, SIM402, SIM422, SIM442, SIMM302, SIMM322 SIMM332, SIMM352
PTQ1WTCPBWD1	Deep Well Cup	BW626A, BWD482
PTQ1WTCPBWD2	Deep Well Cup	BWDM412

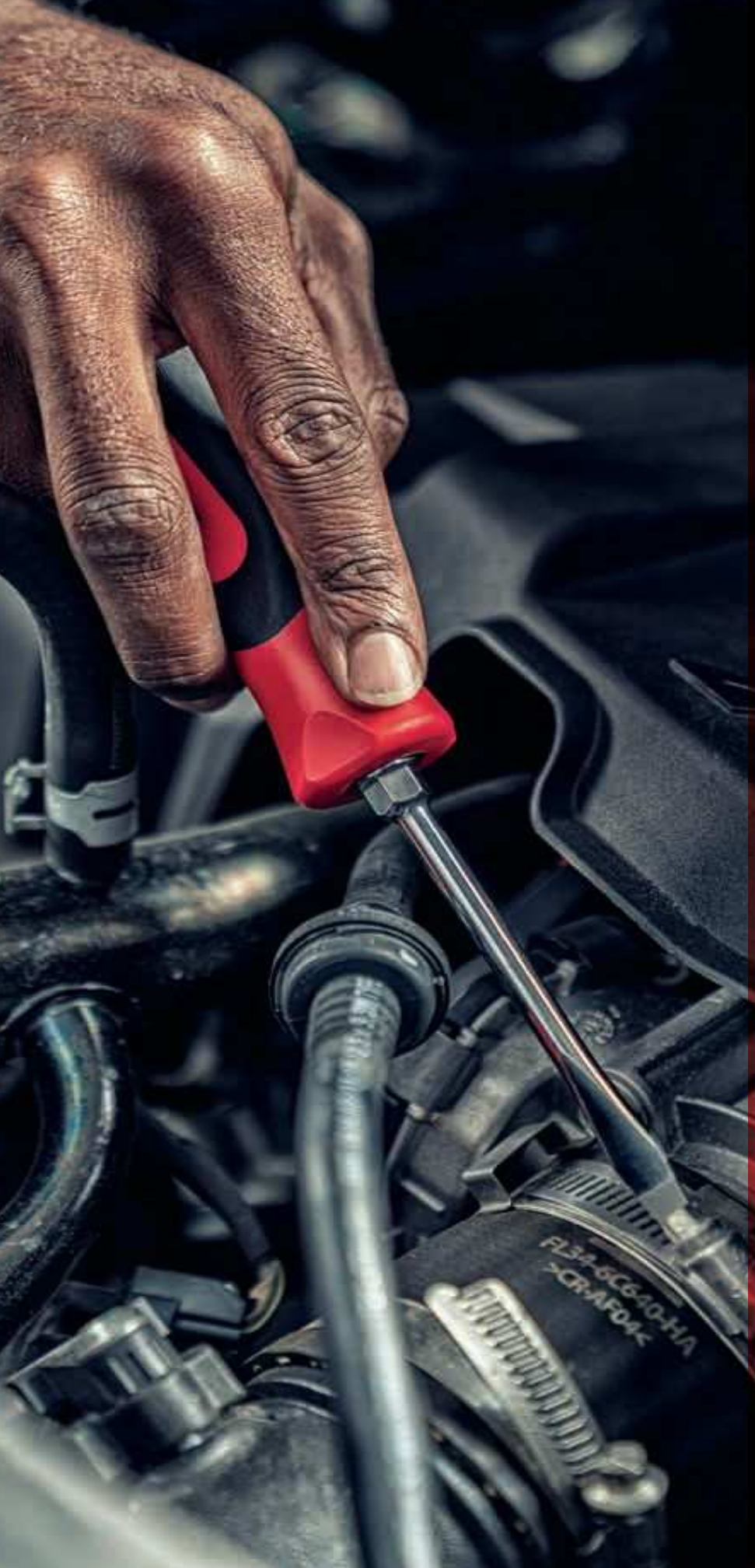


PTMFRL

Pneumatic Torque Filter/Regulators

PTMFRL Filter/Regulator Unit

- Filter and lubricator in one unit
- Large pressure gauge allows the operator to easily select the appropriate pressure
- Adjustable lubricator provides the proper amount of lubrication for PTM Series of tools



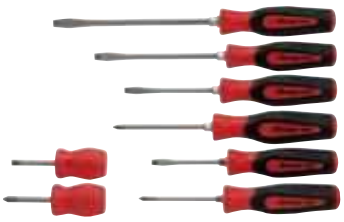
SCREWDRIVERS

THESE TOOLS ARE BASIC, BUT THEIR CONSTRUCTION AND PERFORMANCE ARE ANYTHING BUT. NO MATTER THE LENGTH, THICKNESS, TIPS STYLE OR HANDLE SIZE, EVERY SNAP-ON® SCREWDRIVER IS BLESSED WITH THE ULTIMATE COMBINATION OF COMFORT, POWER AND VERSATILITY.

STILL DRIVEN TO PROVIDE THE INDUSTRY'S BEST DRIVERS.

An inner core that maximizes torque. A middle layer that resists impacts and solvents. And an outer layer of textured material that improves grip, comfort and turning power. These are the features that have made our screwdrivers legendary. They're also available in seven tip type profiles, and feature shanks made from special alloy steel for maximum strength and longevity. And our prybars are made from precision-forged, heat-treated steel to also provide ultimate leverage, versatility and durability.

SOFT GRIP HANDLE COMBINATION SETS INSTINCT®



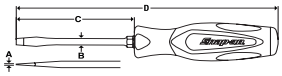
SGDX80BR



SGDX60BO



SGDX60BRFR



Combination Screwdriver Sets

Type	Handle	Stock No	A	B	C	D	SGDX80BR*	SGDX60BR*	SGDX60BRFR
Flat Tip Standard	Hard	SHD1R*†	.040	1/4	1-7/8	3-3/4	•		
	Soft	SGD2BR*	.035	7/32	2-13/16	6-15/16	•	•	•
	Soft	SGD4BR*	.040	1/4	3-15/16	8-27/32	•	•	•
	Soft	SGD6BR*	.050	5/16	5-15/16	10-27/32	•	•	•
	Soft	SGD8BR*	.055	3/8	7-29/32	13-13/32	•		
PHILLIPS® Standard	Hard	SHDP22IRR*	#2	1/4	1-5/8	3-1/2	•		
	Soft	SGDP31IRBR*	#1	3/16	2-31/32	7-1/8	•	•	•
	Soft	SGDP42IRBR*	#2	1/4	3-31/32	8-7/8	•	•	•
	Soft	SGDP63IRBR	#3	5/16	5-29/32	10-13/16		•	•

Set Contains:

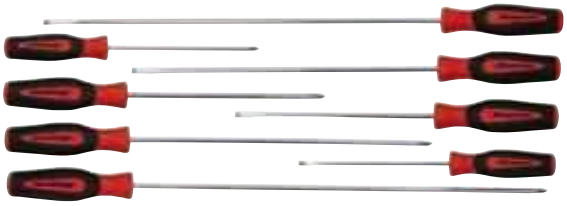
† Does not include hex bolster

Sets shown include storage tray: SGDX60BRFR includes foam organizer.

Colors Available

Red R | Orange O | Green G

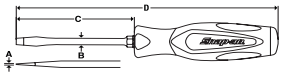
* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SGDXL80BR



SGDX40BR





SGDXXL20BR

Cabinet-Type/Soft Handle, Chrome

Type	Stock No.	A	B	C	D	SGDXL80BR*	SGDX40BR*	SGDXXL20BR*
Flat Tip Cabinet	SGD146BR*	.030	3/16	5-13/16	10-1/8	•		
	SGD480BR*	.032	1/4	7-15/16	12-3/4	•		
	SGD4120BR*	.032	1/4	11-15/16	16-3/4	•		
	SGD4160BR*	.032	1/4	15-15/16	20-3/4	•		
PHILLIPS® Cabinet	SGDP61BR	#1	3/16	6	10	•		
	SGDP82BR	#2	1/4	8	13	•		
	SGDP122BR	#2	1/4	12	17	•		
	SGDP162BR*	#2	1/4	16	21	•		
Flat Tip Mini	SGD304BR*	.020	1/8	3	5-7/8		•	
	SGD306BR*	.030	3/16	3	5-7/8		•	
PHILLIPS® Mini	SGDP300BR*	#0	1/8	3	6		•	
	SGDP301BR*	#1	3/16	3	6		•	
Extra-Long	SGD424BR*	.046	1/4	24	28-3/4			•
	SGDP242BR*	#2	1/4	24	28-3/4			•

Set Contains:

Sets include storage tray.

Colors Available

Red R | Orange O | Green G

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Standard/Hard Handle, Chrome

	Stock No.	A	B	C	D	Set Contains: SHDX80R*	SHDX60R*
Flat Tip Standard	SHD1R*†	.040	1/4	1-7/8	3-3/4	•	
	SHD2R*	.035	7/32	2-13/16	6-15/16	•	•
	SHD4R	.040	1/4	3-15/16	8-27/32	•	•
	SHD6R	.050	5/16	5-15/16	10-27/32	•	•
	SHD8R	.055	3/8	7-29/32	13-13/32	•	
PHILLIPS® Standard	SHDP22IRR	#2	1/4	1-5/8	3-1/2	•	
	SHDP31IRR*	#1	3/16	2-31/32	7-1/8	•	•
	SHDP42IRR*	#2	1/4	3-31/32	8-7/8	•	•
	SHDP63IRR*	#3	5/16	5-29/32	10-13/16		•

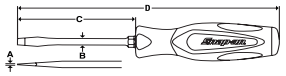
†Does not include hex bolster

Sets include storage tray.

Colors Available

Red R | Orange O | Green G

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





SHDX80R



SHDX60R

Standard/Hard Handle

	Stock No.	A	B	C	D	Set Contains: GSHDX80R	SHDX40R*	SHDXL80R*
Flat Tip Industrial Finish Shank	GSHD1R††	.037	1/4	1-1/2	3-3/4	•		
	GSHD2R††	.032	7/32	2-7/8	7	•		
	GSHD4R††	.037	1/4	4	8-7/8	•		
	GSHD6R††	.046	5/16	6	10-27/32	•		
	GSHD8R††	.050	3/8	8	13-13/32	•		
PHILLIPS® Tip Industrial Finish Shank	GSHDP22IRR††^	#2	1/4	1-1/2	3-3/4	•		
	GSHDP31R††	#1	3/16	3	7-1/4	•		
	GSHDP42R††	#2	1/4	4	8-7/8	•		
Flat Tip Cabinet	SHD146R*	.030	3/16	6	10-1/8			•
	SHD480R*	.032	1/4	8	12-3/4			•
	SHD4120R*	.032	1/4	12	16-3/4			•
	SHD4160R*	.032	1/4	16	20-3/4			•
PHILLIPS® Tip Cabinet	SHDP61R*	#1	3/16	6	10-1/4			•
	SHDP82R*	#2	1/4	8	12-7/8			•
	SHDP122R*	#2	1/4	12	16-3/4			•
	SHDP162R*	#2	1/4	16	20-3/4			•
Flat Tip Mini	SHD304R*	.018	1/8	3	5-7/8		•	
	SHD306R*	.030	3/16	3	5-7/8		•	
PHILLIPS® Tip Mini	SHDP300R*	#0	1/8	3	5-13/16		•	
	SHDP301R*	#1	3/16	3	5-13/16		•	

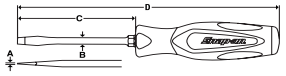
^Does not include hex bolster
†† Industrial Finish

Sets include storage tray.

Colors Available

Red R | Orange O | Green G

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

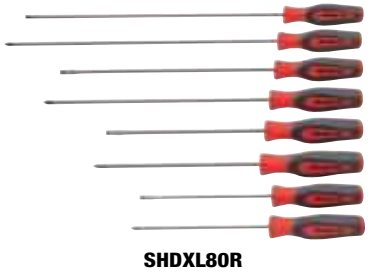




GSHDX80R



SHDX40R

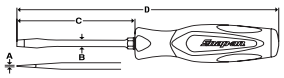


SHDXL80R

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SOFT HANDLE FLAT TIP INSTINCT®





SGDS50BR



SGD2BR



SGD480BR

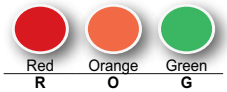


SGD306BR



SGD424BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

— Standard/Soft Handle, Chrome

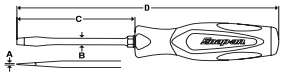
	Stock No.	A	B	C	D	Set Contains: SGDS50BR
Flat Tip Standard	SGD2BR	.035	7/32	2-13/16	6-15/16	•
	SGD4BR	.040	1/4	3-15/16	8-27/32	•
	SGD6BR	.050	5/16	5-15/16	10-27/32	•
	SGD8BR	.055	3/8	7-29/32	13-13/32	
	SGD10BR	.055	3/8	10	15-7/16	
Flat Tip Cabinet	SGD146BR	.030	3/16	5-13/16	10-1/8	
	SGD1410BR	.032	3/16	10	14-5/32	
	SGD1416BR	.032	3/16	16	20-5/32	
	SGD480BR	.032	1/4	7-15/16	12-3/4	
	SGD4100BR	.032	1/4	9-15/16	14-3/4	
	SGD4120BR	.032	1/4	11-15/16	16-3/4	
	SGD4160BR	.032	1/4	15-15/16	20-3/4	
Flat Tip Mini	SGD304BR	.020	1/8	3	5-7/8	•
	SGD306BR	.030	3/16	3	5-7/8	•
Flat Tip Extra-Long	SGD424BR	.046	1/4	24	28-3/4	

Set includes storage tray.

SGDS50BR 5 pc Flat Tip Instinct® Soft Grip Screwdriver Set

- Instinct® handle provides maximum turning power and greater comfort
- Six specially designed curves and flutes provide fingertip control and aid in spinning
- Tips are precision cut and vapor blasted for the best possible grip and help prevent chrome plating from peeling
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Replaceable blades are cold forged from special alloy steel and heat treated for optimum strength and durability
- Hexagon bolster prevents blade from being forced into handle and provides wrench-assisted turning

HARD HANDLE FLAT TIP INSTINCT®





SHD6R



GSHD4R

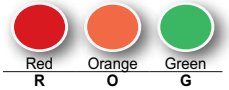


SHD304R



SHD4160R

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

— Standard/Hard Handle, Chrome

	Stock No.	A	B	C	D
Flat Tip Standard	SHD1R†	.040	1/4	1-7/8	3-3/4
	SHD2R	.035	7/32	2-13/16	6-15/16
	SHD4R	.040	1/4	3-15/16	8-27/32
	SHD6R	.050	5/16	5-15/16	10-27/32
	SHD8R	.055	3/8	7-29/32	13-13/32
	SHD10R	.055	3/8	10	15-7/16
Flat Tip Industrial	GSHD1R†	.037	1/4	1-1/2	3-3/4
	GSHD2R	.032	7/32	2-7/8	7
	GSHD4R	.037	1/4	4	8-7/8
	GSHD6R	.046	5/16	6	10-27/32
	GSHD8R	.050	3/8	8	13-13/32
Flat Tip Cabinet	SHD146R	.030	3/16	6	10-1/8
	SHD480R	.032	1/4	8	12-3/4
	SHD4120R	.032	1/4	12	16-3/4
	SHD4160R	.032	1/4	16	20-3/4
Flat Tip Mini	SHD304R	.018	1/8	3	5-7/8
	SHD306R	.030	3/16	3	5-7/8

†Does not include hex bolster

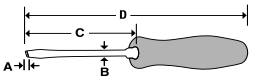
FLAT TIP/POCKET AND SPARK TEST



SDD2040



SDD214



— Pocket, Chrome

Stock No.	Type	Description	A	D
SDD204O	Pocket	Flat Tip Pocket Screwdriver	.025	4-3/4
SDD224O	Pocket	Flat Tip Pocket Screwdriver with Magnet	.025	4-3/4

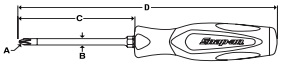
— Spark Test, Chrome

Stock No.	Type	Description	A	D
SDD214	Spark Test	Flat Tip Spark Test Screwdriver	.025 x 1/8	5-1/8

SOFT HANDLE PHILLIPS® INSTINCT®



SGDP42IRBR





SGDP82BR

✚ Standard/Soft Handle, Chrome

Stock No.	A	B	C	D
SGDP31IRBR	#1	3/16	2-31/32	7-1/8
SGDP42IRBR	#2	1/4	3-31/32	8-7/8
SGDP62IRBR	#2	1/4	6	10-7/8
SGDP63IRBR	#3	5/16	5-29/32	10-13/16
SGDP64IRBR	#4	3/8	6	11-1/2
SGDP84BR	#4	3/8	8	15-5/8

✚ Cabinet-Type/Soft Handle, Chrome

Stock No.	A	B	C	D
SGDP101BR	#1	3/16	10	14-1/8
SGDP102BR	#2	1/4	9-3/8	14-1/4
SGDP122BR	#2	1/4	12	17
SGDP162BR	#2	1/4	16	21
SGDP61BR	#1	3/16	6	10
SGDP82BR	#2	1/4	8	13

✚ Mini Tip/Soft Handle, Chrome

Stock No.	A	B	C	D	Set Contains: SGDP50BR
SGDP300BR	#0	1/8	3	6	•
SGDP301BR	#1	3/16	3	6	•
SGDP31IRBR	#1	3/16	2-31/32	7-1/8	•
SGDP42IRBR	#2	1/4	3-31/32	8-7/8	•
SGDP63IRBR	#3	5/16	5-29/32	10-13/16	•



SGDP50BR



SGDP301BR

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SGDP300BR



SGDP216BR

✚ Mini Tip/Soft Handle, Chrome

Stock No.	A	B	C	D
SGDP300BR	#0	1/8	3	6
SGDP301BR	#1	3/16	3	6

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

✚ Extra-Long/Soft Handle, Chrome

Stock No.	A	B	C	D
SGDP116BR	#1	3/16	16	20-5/32
SGDP216BR	#2	3/16	16	20-5/32
SGDP242BR	#2	1/4	24	28-3/4

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SOFT HANDLE PHILLIPS® INSTINCT®



SGDDP50BR

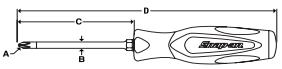
Diamond Tip

- Diamond particles "bite" into fasteners, which minimizes slipping
- Diamond tips are extremely hard for long lasting performance and minimal wear
- Hex shape blades allow a wrench to be used for higher torque applications
- Tip identifier on the crown helps to quickly identify the needed tool

Red	A	B	C	D	Blade	Set Contains: SGDDP50BR
SGDDP31IRBR	#1	.197	3	7-5/32	SSDDP31RB‡	•
SGDDP42IRBR	#2	.236	4	8-29/32	SSDDP42RB‡	•
SGDDP61IRBR	#1	.197	6	10-5/32	SSDDP61RB‡	•
SGDDP62IRBR	#2	.236	6	10-29/32	SSDDP62RB‡	•
SGDDP63IRBR	#3	.315	5-3/4	10-5/8	SSDDP63RB‡	•

Set includes storage tray.

HARD HANDLE PHILLIPS® INSTINCT®





SHDP63IRR

✚ Standard/Hard Handle, Chrome

Stock No.	A	B	C	D
SHDP22IRR†	#2	1/4	1-5/8	3-1/2
SHDP31IRR	#1	3/16	2-31/32	7-1/8
SHDP42IRR	#2	1/4	3-31/32	8-7/8
SHDP62IRR	#2	1/4	6	10-13/32
SHDP63IRR	#3	5/16	5-29/32	10-13/16
SHDP64IRR	#4	3/8	6	11-1/2

†Does not include hex bolster

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



GSHDP31R

✚ Standard/Hard Handle, Industrial

Stock No.	A	B	C	D
GSHDP22IRR †	#2	1/4	1-1/2	3-3/4
GSHDP31R	#1	3/16	3	7-1/4
GSHDP42R	#2	1/4	4	8-7/8

†Does not include hex bolster



SHDP82R

✚ Cabinet-Type/Hard Handle, Chrome

Stock No.	A	B	C	D
SHDP61R	#1	3/16	6	10-1/4
SHDP82R	#2	1/4	8	12-7/8
SHDP122R	#2	1/4	12	16-3/4
SHDP162R	#2	1/4	16	20-3/4

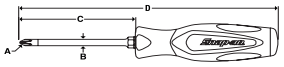
Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER OR SPECIAL COLORS

Mini Tip/Hard Handle, Chrome

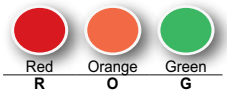
Stock No.	A	B	C	D
SHDP300R	#0	1/8	3	5-13/16
SHDP301R	#1	3/16	3	5-13/16





SHDP300R

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Pocket, Chrome

Stock No.	Description	A	B	C	D
SDDP204BO	PHILLIPS® #1 Pocket Screwdriver	#1	1/8	2	4-7/8



SDDP204BO

SOFT GRIP (Blue-Point®)

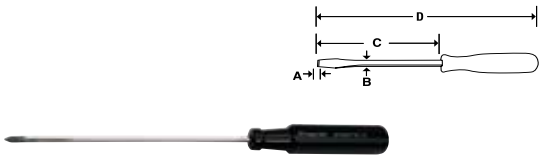
PHILLIPS®/Soft Grip (Blue-Point®)

	Stock No.	Tip Size	Blade Length, inches	Length, inches	Set Contains: BSGDX70
Flat Tip	BSGD3	1/8	3	6-1/2	•
	BSGD4	7/32	5	9	•
	BSGD5	1/4	6	10-1/4	•
	BSGD6	5/16	7	11-1/4	•
	BSGD7	3/8	8	12-3/8	•
PHILLIPS®	BSGDP41	#1	4	8	•
	BSGDP52	#2	5	9-1/4	•



BSGDX70

ELECTRONIC SERVICE



SSDEP61C

Electronic Thin Blade/Flat Tip

Flat Tip Electronic Thin Blade Screwdriver

- Handles have recessed ends for fingertip pressure

Stock No.	A	B	C	D
SSDE42C	.018 x 1/8	1/8	2	5-5/16
SSDE43C	.018 x 1/8	1/8	3	6-5/16
SSDE44C	.018 x 1/8	1/8	4	7-5/16
SSDE46C	.018 x 1/8	1/8	6	9-5/16
SSDE48C	.018 x 1/8	1/8	8	11-5/16
SSDE63C	.030 x 3/16	3/16	3	6-9/16
SSDE64C	.028 x 3/16	3/16	4	7-9/16
SSDE66C	.030 x 3/16	3/16	6	6-9/16
SSDE68C	.028 x 3/16	3/16	8	11-9/16
SSDE610C	.030 x 3/16	3/16	10	13-9/16
SSDEP30C	#0	1/8	3	6-3/8
SSDEP61C	#1	3/16	6	9-5/8

Electronic Miniature

- Made with electrostatic dissipative (ESD) safe material that protects against the transfer of static charges; important when working around sensitive electronic components that can be damaged by static charges
- ESD mark on each tool
- Blade tip finish is industrial black
- Rotating handle for detail work



SGDE70ESD

Electronic Miniature

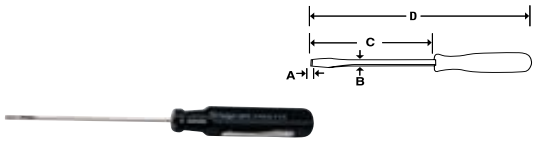
	Stock No.	A	B	C	D	Set Contains: SGDE70ESD
Flat Tip	SGDE215ESD	1-1/2	1/8	2	5-1/2	•
	SGDE220ESD	2	3/32	2	5-3/4	•
	SGDE225ESD	2.5	3/32	2	5-3/4	•
	SGDE230ESD	3	1/8	2	5-3/4	•
PHILLIPS®	SGDEP200ESD	#00	1/8	2	5-3/4	•
	SGDEP20ESD	#0	1/8	2	5-3/4	•
	SGDEP21ESD	#1	3/16	3	6-1/2	•

Set includes storage case.

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

ELECTRONIC SERVICE



SSDE33C

Potentiometer Adjuster, Chrome

Stock No.	A	B	C	D
SSDE33C	.015 x 3/32	3/32	3	5-9/16



SGDEH70ESD

Electronic Miniature/Hex

Stock No.	A	B	C	D	Set Contains: SGDEH70ESD
SGDEH304ESD	1/16	3/32	2	5-1/2	•
SGDEH306ESD	3/32	1/8	3	6-1/2	•
SGDEH307ESD	7/64	3/16	3	6-1/2	•
SGDEH315ESD	1.5 mm	3/32	2	5-1/2	•
SGDEH320ESD	2 mm	3/32	2	5-1/2	•
SGDEH325ESD	2.5 mm	3/32	3	6-1/2	•
SGDEH330ESD	3 mm	3/16	3	6-1/2	•

Set includes storage case.



SGDET70ESD

Electronic Miniature/TORX®

Stock No.	A	B	C	D	Set Contains: SGDET70ESD
SGDET26ESD	T6	1/8	2	5-1/2	•
SGDET27ESD	T7	1/8	2	5-1/2	•
SGDET28ESD	T8	1/8	2	5-1/2	•
SGDET29ESD	T9	1/8	2	5-1/2	•
SGDET210ESD	T10	1/8	2	5-1/2	•
SGDET215ESD	T15	3/16	3	6-1/2	•
SGDET220ESD	T20	3/16	3	6-1/2	•

Set includes storage case.

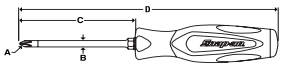


SGDEL40ESD

Electronic Miniature/Long

Stock No.	A	B	C	D	Set Contains: SGDEL40ESD
SGDEL8ESD	3 mm	1/8	8	11-3/8	•
SGDELP8ESD	#0	1/8	8	11-3/8	•
SGDEL10ESD	4 mm	3/16	10	13-3/8	•
SGDELP10ESD	#1	3/16	10	13-3/8	•

TORX® TIP SOFT HANDLE INSTINCT®





SGDTX90BR

Colors Available

Red	Orange	Green
R	O	G
* R	—	—

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

✸ Standard/Soft Handle, Chrome

- Designed for internal-type TORX® fasteners used in automotive and appliance
- Tips are precision cut and vapor blasted for best possible grip
- Chrome-plated blades for superior corrosion resistance and easy clean-up
- Hex bolsters for wrench-assisted turning
- Instinct® soft grip handles offer unique combination of power, comfort and versatility

Stock No.	A	B	C	D	Set Contains: SGDTX90BR	SGDTX50BR*
SGDTX38BR	T8	3/16	3	7-1/4	•	
SGDTX310BR	T10	3/16	3	7-1/4	•	
SGDTX315BR	T15	3/16	3	7-1/4	•	•
SGDTX320BR	T20	3/16	3	7-1/4	•	•
SGDTX425BR	T25	1/4	4	8-7/8	•	•
SGDTX427BR	T27	1/4	4	8-7/8	•	•
SGDTX430BR	T30	1/4	4	8-7/8	•	•
SGDTX640BR	T40	5/16	6	10-7/8	•	
SGDTX645BR	T45	5/16	6	10-7/8	•	

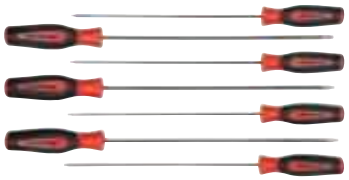
Sets include storage tray.

Long/Soft Handle, Chrome

- TORX® tip offers optimal fastener engagement with minimal cam-out
- Thin, strong alloy blade provides excellent clearance and turning force
- Longer exposed lengths provide access to difficult-to-reach fasteners such as head/tail light assemblies

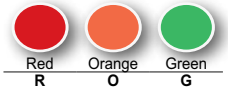
Set Contains: / Stock No.	A	B	C	D	Red
SGDTX1008BR	T8	3/16	10	14-1/8	•
SGDTX1010BR	T10	3/16	10	14-1/8	•
SGDTX1015BR	T15	3/16	10	14-1/8	•
SGDTX1020BR	T20	3/16	10	14-1/8	•
SGDTX1225BR	T25	1/4	12	16-7/8	•
SGDTX1227BR	T27	1/4	12	16-7/8	•
SGDTX1230BR	T30	1/4	12	16-7/8	•

Set includes storage tray.



SGDTXL70BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Pozidriv®

SGDZ42BR Pozidriv® Instinct® Soft Grip Screwdriver

- Tips have wedges for a tight fit on Pozidriv® fasteners
- PHILLIPS® tip drivers should not be used on Pozidriv® fasteners as they will ride out of the recess, round tool and screw recess corners



SGDZ42BR

Mini-Tip/Soft Handle, Chrome

- Designed for internal-type TORX® fasteners used in the automotive and appliance industries

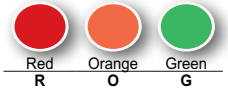
Set Contains: / Stock No.	A	B	C	D	Red
SGDT308BR	T8	3/16	3	5-7/8	•
SGDT310BR	T10	3/16	3	5-7/8	•
SGDT315BR	T15	3/16	3	5-7/8	•
SGDT320BR	T20	3/16	3	5-7/8	•

Set includes storage tray.



SGTX40BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Tamper-Resistant/Soft Handle, Chrome

- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners

Set Contains: / Stock No.	A	B	C	D	Red
SGDTRX315BR	T15	3/16	3	7-1/4	•
SGDTRX320BR	T20	3/16	3	7-1/4	•
SGDTRX425BR	T25	1/4	4	8-7/8	•
SGDTRX427BR	T27	1/4	4	8-7/8	•
SGDTRX430BR	T30	1/4	4	8-7/8	•

Set includes storage tray.

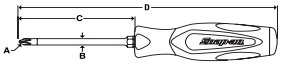


SGDTRX50BR

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

TORX® TIP SOFT HANDLE INSTINCT®





SGDTRXL70BR

Tamper-Resistant/Soft Handle/Long, Chrome

- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners
- Common uses include door and interior trim panels, headlight assemblies and switch modules

Set Contains: SGDTRXL70BR

Stock No.	A	B	C	D	Red
SGDTRX608BR	T8	3/16	6	10	•
SGDTRX610BR	T10	3/16	6	10	•
SGDTRX615BR	T15	3/16	6	10	•
SGDTRX620BR	T20	3/16	6	10	•
SGDTRX825BR	T25	1/4	8	12-3/4	•
SGDTRX827BR	T27	1/4	8	12-3/4	•
SGDTRX830BR	T30	1/4	8	12-3/4	•

Set includes storage tray.



SGTRXL40BR

Tamper-Resistant/Soft Handle/Long Mini-Tip, Chrome

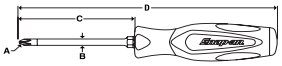
- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners

Set Contains: SGTRXL40BR

Stock No.	A	B	C	D	Red
SGDTR608B	T8	3/16	6	8-7/8	•
SGDTR610B	T10	3/16	6	8-7/8	•
SGDTR615B	T15	3/16	6	8-7/8	•
SGDTR620B	T20	3/16	6	8-7/8	•

Set includes storage tray.

TORX® TIP HARD HANDLE INSTINCT®





SHDTX90R

Standard/Hard Handle, Chrome

Set Contains: SHDTX90R

Stock No.	A	B	C	D	
SHDTX38R	T8	3/16	3	7-1/4	•
SHDTX310R	T10	3/16	3	7-1/4	•
SHDTX315R	T15	3/16	3	7-1/4	•
SHDTX320R	T20	3/16	3	7-1/4	•
SHDTX425R	T25	1/4	4	8-7/8	•
SHDTX427R	T27	1/4	4	8-7/8	•
SHDTX430R	T30	1/4	4	8-7/8	•
SHDTX640R	T40	5/16	6	10-7/8	•
SHDTX645R	T45	5/16	6	10-7/8	•

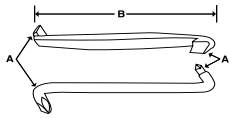
Set includes storage tray.

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

SPECIAL APPLICATION





ST50A

90° Offset, Chrome

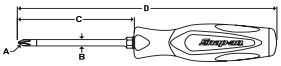
Set Contains: ST50A

Stock No.	Product Type	A	B	
120SSDP	PHILLIPS®	#1 and #2	4-3/4	•
340SSDP	PHILLIPS®	#3 and #4	6	•
10SSD	Flat Tip	.040 x 1/4	4	•
20SSD	Flat Tip	.050 x 5/16	4-11/16	•
30SSD	Flat Tip	.060 x 3/8	5-1/2	•

Ball Hex Tip/Soft Handle, Metric

Set Contains: SGABM900BR

Stock No.	A	B	C	D	Red
SGABM20BR	2	1/8	3	5-13/16	•
SGABM25BR	2.5	1/8″	3	5-13/16	•
SGABM30BR	3	3/16	3	7-5/32	•
SGABM40BR	4	3/16	3	7-5/32	•
SGABM50BR	5	3/16	3	7-5/32	•
SGABM60BR	6	5/16	4	8-29/32	•
SGABM70BR	7	5/16	6	10-29/32	•
SGABM80BR	8	5/16	6	10-29/32	•
SGABM100BR	10	3/8	8	13-1/2	•





SGABM900BR

Colors Available

Red R Orange O Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Ball Hex Tip/Soft Handle, SAE

Set Contains: SGAB1000BR

Stock No.	A	B	C	D	Red
SGAB6BR	3/32	1/8	3	5-13/16	•
SGAB7BR	7/64	1/8	3	5-13/16	•
SGAB8BR	1/8	3/16	3	7-5/32	•
SGAB9BR	9/64	3/16	3	7-5/32	•
SGAB10BR	5/32	3/16	3	7-5/32	•
SGAB12BR	3/16	3/16	3	7-5/32	•
SGAB14BR	7/32	5/16	4	8-29/32	•
SGAB16BR	1/4	5/16	4	8-29/32	•
SGAB20BR	5/16	5/16	6	10-29/32	•
SGAB24BR	3/8	3/8	8	13-1/2	•



SGAB1000BR

Colors Available

Red R Orange O Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Dzus® Fasteners, Chrome

- For Dzus®-type fasteners used in aircraft and auto racing applications

Stock No.	Tip Thickness, inches	Tip Width, inches	Blade Length Exposed, inches	Length, inches
S6180	3/64	3/64	2	6-13/32
S6189	1/32	19/64	2	5-47/64



S6180



S6189

Reversible Blade Screwdrivers and Sets

Set Contains: SDDD101 SDDD41

Stock No.	Description		
SDMDP1S4	PH#1/S4 bit	•	
SDMDP2S4	PH#2/S4 bit	•	
SDMDT15T20‡	Reversible TORX® Bit, T15 / T20	•	
SDMDT25T30‡	Reversible TORX® Bit, T25 / T30	•	
SDDD-1	Tube	•	•
SDMD4P1S4	PH#1/S4 bit		•
SDMD4P2S4	PH#2/S4 bit		•



SDDD101

SDDD101 Reversible Blade Screwdriver Set

- Includes (4) reversible bits for (8) different tip sizes: 1/4″ and 3/16″ flat tips, PHILLIPS® #1 and #2 tips, TORX® T15, T20, T25 and T30 tips
- Individual 1/4″ and 5/16″ nut drivers
- Durable, classic hard handle is textured for a sure grip

SDDD41 Reversible Blade Screwdriver Set

- Includes (2) reversible bits for four different tip sizes: 9/32″ and 13/64″ flat tip, PHILLIPS® #1 and #2 tips
- Durable, classic hard handle is textured for a sure grip



SDDD41

WARNING

- Do not use screwdrivers as prybars, chisels or punches
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

SPECIAL APPLICATION



CM6551A

Miniature, Chrome

CM6551A 5 pc Miniature Screwdriver Set

- Includes (4) blades in the following flat tip sizes: .055″, .070″, .080″ and .100″
- Includes awl and plastic pouch



S6560

TORX® Insert Bits

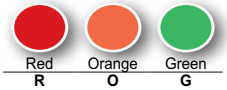
S6560 T60 TORX® Bit

- Small diameter shaft can clear ABS tone ring and still engage bolt heads
- Ball-and-spring retention keeps sockets secure
- 4.6″ long TORX® T60 with 9/16″ hex on other end for use with a socket or wrench
- Can be used with other sockets for optimum positioning
- Rated for use with an impact tool



SDDDM1AR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Pocket Screwdrivers with Reversible Bit

Stock No.	Replacement Bit
SDDDM1AR	SDM3D24

SDDDM1AR Pocket Screwdriver with Reversible Bit

- Handy pocket clip adds convenience, keep a pocket screwdriver at arms length at all times
- Slim-profile classic handle for easy storage in pocket or glove box
- Built in magnet helps retain reversible bit so that it is always available when you need it
- Strong magnet securely holds the bit in place



SGDQ16KT

Pop-Up Screwdriver and Diamond Bit Set

SGDQ16KT‡ Screwdriver Kit

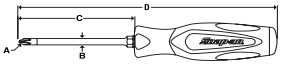
- Easy-to-use spring-loaded shank can adjust to different lengths for clearance, as well as compact storage
- Shank can be fully released to allow for use with cordless drills
- Highly engineered collet incorporates both a magnetic and mechanical locking system to securely hold bits
- Rotating collet sleeve for spinning when quickly setting/removing fasteners
- Diamond particles bite into fasteners, which minimizes cam-out and stripping
- Kit includes: SGDQ6 Pop-Up Screwdriver, SDMD221 and SDMD223 PHILLIPS® Diamond Bits (#1, #2, #3), SDMD213 Flat Tip Diamond Bit, SDMDT10, SDMDT30 TORX® Diamond Bits (T10-T30), and SDMD321, and SDMD323 Power PHILLIPS® Diamond Bits (#1, #2, #3) in a PAKSC062 Nylon Pouch

SGDQ6‡ Pop Up Shank Screwdriver



SDDR40

Square Tip



- Square Tip Screwdrivers offer excellent fastener engagement
- Tips are precision cut and vapor blasted for optimal grip
- Intended for use on #3–12 Square Tip Fasteners

Stock No.	Color	Tip	C	D	Set Contains: SDDR40
SDDROB30Y	Yellow	#0	3	6-21/32	•
SDDROB31G	Green	#1	3	6-21/32	•
SDDROB42R	Red	#2	4	8-13/32	•
SDDROB43	Black	#3	4	8-13/32	•



SSF1



SSFP1



SSFP2

Low-Profile Screwdrivers

- Screwdrivers provide ability to turn screws in extremely limited-access areas where other products cannot reach
- Special alloy steel screwdriver bits are the shortest bits possible (10 mm) but still allow for full engagement of the screw
- Heat-treated contoured handle for comfort and ease of use
- Flat, low-profile design fits in extremely tight areas
- Used in the aviation, aerospace and automotive industries
- Can be used in assembly, on motorcycles and for small engine repairs
- Tether hole in the handle helps prevent FOD (Foreign Object Damage)

Stock No.	Description	Length, inches
SSFP1	PHILLIPS® #1 Tip	4-9/32
SSFP2	PHILLIPS® #2 Tip	4-9/32
SSF1	Flat Tip	4-9/32

Marine Plug Screwdrivers

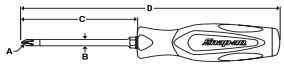
- Intended for use on marine plugs and other large-slotted fasteners requiring high torque
- SGD155 series features a large hex bolster for wrench-assisted turning

Stock No.	A	B	C	D
SGD153BR	.050	3/8	2-3/4	8-1/4
SGD155CR*	.050	1/2	2-29/32	10-3/8

Colors Available

Red	Orange	Green
* R	O	G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





SGD153BR



SGD155CR

Push-Pull Spring Tools

- Designed to securely hold and maneuver small- to medium-sized springs
- Deep V-groove tip and C-groove capture prevents spring from sliding off
- Thicker shank versus picks
- Comfortable, durable acetate handle
- Use to remove light- to medium-duty compression or extension springs, door springs, latch springs, deck tensioner and stabilizer springs on tractors/mowers, brake adjuster springs, throttle return springs and recessed can lights with internal springs; also use to move or position thick-gauge wire and harnesses or to pull cotter pins/latch pins
- Important: These spring tools are non-insulated and should only be used in non-energized applications

Stock No.	A	B	C	D
SPRG618R	3/32	3/16	5-29/32	9-9/16
SPRG625R	7/64	1/4	5-29/32	10-5/16

Colors Available

Red	Orange	Green
R	O	G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SPRG618R



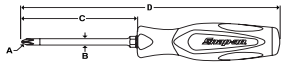
SPRG625R

POZIDRIV® HARD HANDLE INSTINCT®

Pozidriv® Standard/Hard Handle, Chrome

- Walls on tips are less tapered than PHILLIPS® tips
- Tips have wedges for a tight fit on Pozidriv® fasteners
- Important: PHILLIPS® tip drivers should not be used on Pozidriv® fasteners (and vice versa), as they will ride out of the recess, round the tool and screw recess corners

Stock No.	A	B	C	D	Set Contains: SHDZ40R
SHDZ22R	#2	1/4	1-1/2	3-3/4	
SHDZ31R	#1	3/16	3	7-1/4	•
SHDZ42R	#2	1/4	4	8-7/8	•
SHDZ63R	#3	5/16	6	10-7/8	•
SHDZ84R	#4	3/8	8	13-7/16	•





SHDZ40R

RATCHETING SCREWDRIVERS (Blue-Point®)

Ratcheting Screwdrivers (Blue-Point®)

BSGDMR6 6-Bit Ratcheting Standard Screwdriver (Blue-Point®)

- 45-tooth ratcheting mechanism ensures precise positioning and movement
- Bits are stored in a bit magazine inside the handle
- Includes (6) 1/4" hex bits: flat tip (4.5 and 5.5), PHILLIPS® (#1 and #2) and TORX® (T15 and T20)
- Bits are a consumable and carry no warranty



BSGDMR6

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

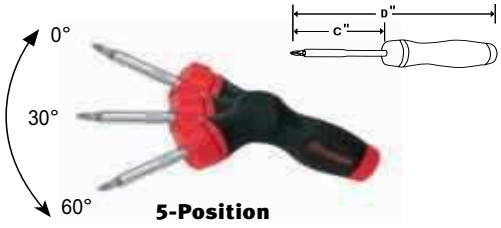
RATCHETING SCREWDRIVERS/SOFT GRIP HANDLE SYSTEM

Red, Orange or Green—pick your preference with a complete screwdriver from the Soft Grip Ratcheting Screwdriver System. Perfectly matched combinations of magnetic bit holding shanks and handles means a perfect match to the technician's particular requirements.


SGDMRCE44


SGDMRC44B


SGDMRC11A



5-Position

SGD Series Screwdrivers Feature:

- High-quality, interchangeable knurled stainless-steel shanks
- Strong magnetic bit retention
- Smooth ratcheting mechanism (US Patent 7,213,491)
- Soft solvent-resistant handle material provides a comfortable, non-slip surface (US Patent 421,888)
- "Thumbs up" forward/lock/reverse lever for easy directional changes

All Handles

- Soft, solvent-resistant cover material to provide a positive gripping surface
- "Thumbs up" forward/reverse lever for quick directional changes
- High-quality knurled stainless steel shanks
- Contoured thumb stop at base of handle helps user apply maximum pressure to the fastener
- Smooth ratcheting mechanism
- Use with any SGDMRC series interchangeable shanks
- Patented ergonomic handle shape provides comfort and control
- Comfort crown of handle cap provides low-friction surface for palm while turning

Five-Position Handle

- Features 0, 30 and 60° locking positions for optimal ergonomics (US Patent 7,481,135)
- Designed for right- or left-hand operation
- Handle stores up to seven insert bits

Stubby Handle

- Compact size for limited clearance applications
- No bit storage in handle

Standard Handle

- Cap functions as a bit holder when working in tight quarters
- Handle stores up to 10 bits

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Five-Position Handle Ratcheting Screwdrivers

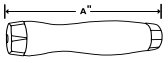
	Stock No.	Handle	Shank	Flat Tip Bit	PHILLIPS® Bit	C	D
5-Position	SGDMRCE44	SGDMRCE4	SGDMRC1-10	SDM213B	SDM222IRB	2-5/8	8-1/2
Standard	SGDMRC44B	SGDMRC4	SGDMRC4-40	SDM213B	SDM222IRB	3-7/8	9-3/4
Stubby	SGDMRC11A	SGDMRC1A	SGDMRC1-10	—	—	2	4-1/2

All stubby screwdrivers include SDM222IRB PHILLIPS® Tip Bit.


SGDMRC1A


SGDMRC4A


SGDMRCE4



Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Soft Grip Handles

Stock No.	Handle Type	A
SGDMRC1A	Stubby	2-5/8
SGDMRC4A	Standard	6
SGDMRCE4	5-Position	5-7/8


SGDMRC31RK

Colors Available

Red RK | Orange OK | Green GK

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Ratcheting Screwdriver Sets

SGDMRC31RK Stubby Ratchet Metric Screwdriver Set

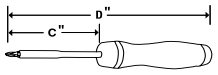
- Ideal set for applications where space is at a premium
- Stubby ratcheting screwdriver accepts interchangeable stainless steel shanks with strong magnetic bit retention (2" and 3-3/4" L included)
- Smooth ratchet action with forward/reverse lock mechanism
- Set includes (8) 1/4" sockets (5–13 mm), (6) metric hex bits (2–6 mm), (8) TORX® bits (T9–T40), (2) flat bits, (3) Phillips® ACR® bits and (1) 1/4" Hex-to-1/4" Square Adaptor
- Case included

Standard Handle

Stock No.	Handle Type	Color	C	D
SSDMR4B	Standard	Black	3-25/32	8-3/4

Includes SDM211B (3/16″) and SDM213B (9/32″) Flat Tip bits plus SDM221IRB (#1), SDM222IRB (#2) and SDM223IRB (#3) PHILLIPS® ACR® bits.
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).


SSDMR4B



Colors Available

Black Red Orange Green
R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Stubby Handle

Stock No.	Color	C	D	End Cap Replacement
SSDMR1A*	Black	1-15/16	4-5/16	SSDMR4B200

Includes SDM222IRB #2 PHILLIPS® ACR® bit.
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).


SSDMR1A


SSDMR1AR

Colors Available

Black Red Orange
* R O

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Long Handle

Stock No.	Handle Type	Color	C	D
SSDMR8A	Long	Black	7-7/16	12-15/16

Includes SDM211B (3/16″) and SDM213B (9/32″) Flat Tip bits plus SDM221IRB (#1), SDM222IRB (#2) and SDM223IRB (#3) PHILLIPS® ACR® bits.
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).

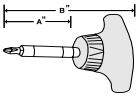

SSDMR8A

Colors Available

Black Red Orange
* R O

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

T-Handle



Stock No.	Handle	A	B
SSDMRT1†	T-Handle, Stubby	2	3-15/16
SSDMRT4†	Standard	3-7/8	5-27/32
SSDMRT8A*	Long	8	10

Includes SDM222IRB #2 PHILLIPS® ACR® bit.
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).


SSDMRT4R

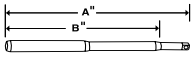

SSDMRT8A

Colors Available

Black Red Orange
* R —
† — R O

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Interchangeable Shanks



- Use with handles in the Soft Grip Ratcheting Screwdriver System
- Neodymium magnet in shank holds bit securely (US Patent RE36,797)
- 1/4″ square drive shanks in standard and flexible styles allow attachment of a wide range of 1/4″ drive sockets and accessories

Stock No.	Description	A	B
SGDMRC1-10	Magnetic Shank/Bit Holder	3-1/4	2
SGDMRC4-40	Magnetic Shank/Bit Holder	5	3-3/4
SGDMRC4-80	Magnetic Shank/Bit Holder	9	7-3/4
SGDMRC4-TM4	1/4″ Drive Shank	5	3-3/4
SGDMRC4-TMF4	Flexible 1/4″ Square Drive Shank	6-1/4	5
SGDMRC4-C6*	Composite Magnetic Bit Holder	7-1/4	6
SGDMRC-SP	1/4″ Speeder Shank	13	—

*SGDMRC4-C6 is not UL® Listed. U.S. Patent Number 6,260,445 B1 applies.


SGDMRC1-10


SGDMRC4-40


SGDMRC4-80


SGDMRC4-TM4


SGDMRC4-TMF4


SGDMRC4-C6

SGDMRC-SP 1/4″ Speeder Shank

- Ideal for aviation technicians and other applications where accessibility is limited


SGDMRC-SP

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

RATCHETING SCREWDRIVER SETS

Ratcheting Screwdriver Sets

- SGDMRC starter sets include standard handle, medium and long magnetic bit holding shanks plus (2) flat tip bits, (2) PHILLIPS® bits and (1) TORX® bit to meet most basic job requirements



SGDMRC103A

Stock No.	Description	Set Contains: SGDMRC103A*
SGDMRC4A	Ratcheting Handle	•
SGDMRC4-40	Magnetic Shank/Bit Holder	•
SGDMRC4-80	Magnetic Shank/Bit Holder	•
SDM211B	3/16″ Flat Tip Bit	•
SDM213B	9/32″ Flat Tip Bit	•
SDM221IRB	#1 PHILLIPS® ACR® Bit	•
SDM222IRB	#2 PHILLIPS® ACR® Bit	•

Set includes PB146A Storage Case.



SGDMRC108A

Stock No.	Description	Set Contains: SGDMRC108A*
SGDMRC1A	Ratcheting Handle	•
SGDMRC4A	Ratcheting Handle	•
SGDMRC1-10	Magnetic Shank/Bit Holder	•
SGDMRC4-40	Magnetic Shank/Bit Holder	•
SGDMRC4-80	Magnetic Shank/Bit Holder	•
SGDMRC4-TM4	1/4″ Drive Shank	•
SDM400A	Master Bit Kit	•

Set includes PB146A Storage Case.

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

TORX® Bit Set (Blue-Point®)

Use on BMW® vehicles: under dash and sensors in engine compartment; Cadillac® vehicles: water pumps; Cadillac® CTS, 3.2 L (2003–2004)/Cadillac® Catera 3.0 L (1997–2001): oil drain plug; Ford® vehicles: Escort® (early models): door hinge bolts; GM® vehicles: fender applications; Jeep® vehicles: Cherokee® (1997–1998): door hinge bolts; VW® vehicles (pre-1999): exterior and interior door hinge bolts

DHW1‡ 5/16″ Hex Drive Reversible Ratcheting Bit Wrench (Blue-Point®)

- Overall length: 10-3/4″ (273 mm)
- Low head clearance for access to tight spots
- Internal ring in square drive provides more secure bit retention than magnetic models
- Knurled wheel for fingertip control
- Reverse lever positioned for one-hand operation



DHW1

SHORTORX

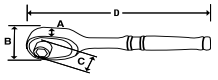
Stock No.	Description	Size	Set Contains: SHORTORX‡
SDMTAS15	T15	5/16	•
SDMTAS20	T20	5/16	•
SDMTAS25	T25	5/16	•
SDMTAS27	T27	5/16	•
SDMTAS30	TORX® Bit	5/16	•
SDMTAS40	TORX® Bit	5/16	•
SDMTAS45	TORX® Bit	5/16	•
DHW1	5/16″ Hex Drive Reversible Ratcheting Bit Wrench (Blue-Point®)	—	•

Magnetic Ratchet and Bit Set

- Ideal for accessing fasteners in tight areas
- Ratchet features magnetic retention for 1/4 hex bits
- Includes: SDM211B flat tip bit, SDM213B (9/32) flat tip bit, SDM2221IRB (#1) PHILLIPS® ACR® bit, SDM222IRB (#2) PHILLIPS® ACR® bit, SDMT15D (T15) TORX® bit
- Use RKRTM72A Service Kit



TM72SET



Stock No.			A	B	C	D
TM72SET	72	5°	7/16	15/16	1-3/4	4-7/16

Ratcheting Offset

Stock No.	Description	Set Contains: BLPBTWSET
BLPBTW4	1/4″ Drive 4″ Mini Ratchet and 1/4″ Ratcheting Bit Driver Combination Wrench (Blue-Point®)	•
BLPBTW6	1/4″ Drive 6″ Mini Ratchet and 1/4″ Ratcheting Bit Driver Combination Wrench (Blue-Point®)	
BLPBTW8	1/4″ Drive 8″ Mini Ratchet and 1/4″ Ratcheting Bit Driver Combination Wrench (Blue-Point®)	•



BLPBTWSET



YA480B



BTWSMPK



BTWOSK

Ratcheting Offset

YA480B Ratcheting Right Angle Screwdriver (Blue-Point®)
- Includes (1) flat tip bit, (1) #2 PHILLIPS® bit and (1) #2 Pozidriv® bit

BTWSMPK‡ 7 pc Bit Miniature Ratcheting Handle Set (Blue-Point®)
- Includes: (1) BTWSM, (1) BTWOS and (1) BTWROS mini ratcheting handles; (1) SDM213B (9/32″) flat tip bit; (1) SDM221IRB (#1); (1) SDM222IRB (#2) PHILLIPS® ACR® bits; (1) SDMT15D (T15) TORX® bit

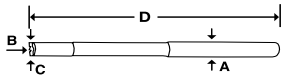
BTWOSK‡ 5 pc Bit Miniature Ratcheting Handle Set (Blue-Point®)
- Includes (1) mini ratcheting handle, (1) flat tip bit (9/32″), (1) PHILLIPS® ACR® bit (#1), (1) PHILLIPS® ACR® bit (#2) and (1) TORX® bit (T15)

BTWS‡ Straight Miniature Ratcheting Handle (Blue-Point®)
- Miniature ratcheting handle for use on 1/4″ hex bits
- Ideal for working in confined spaces
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- Magnetic holder keeps bits in place
- Raised knurled knob for fingertip control
- Reverse lever is easily operated with one hand
- 4-1/2″ compact overall length
- Vinyl grip for comfort and control

BTWOS‡ 25° Offset Miniature Ratcheting Handle (Blue-Point®)
- 25° offset miniature ratcheting handle for use on 1/4″ hex bits
- Ideal for working in confined spaces
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- Magnetic holder keeps bits in place
- Raised knurled knob for fingertip control
- Reverse lever is easily operated with one hand
- 4-1/2″ compact overall length
- Vinyl grip for comfort and control

BTWROS‡ 25° Reverse Offset Miniature Ratcheting Handle (Blue-Point®)
- 25° Reverse Offset
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- 25° offset handles help avoid knuckle injuries
- Magnetic holder keeps bits in place

Aluminum Starters



- Spring-loaded steel bits grip screw slot wall to withstand an 8 lb pull
- Bits release automatically when applied torque reaches a certain level

Stock No.	A	B	C	D
SS5A	5/16	Flat Tip	.032 x 9/32	5
SSM3*	5/16	Flat Tip	.032 x 9/32	2-1/2
SSM5A*	5/16	Flat Tip	.032 x 9/32	5-1/4
SSM6A*	9/32	PHILLIPS®	#3	5-1/2
GA260A	9/32	PHILLIPS®	#2	2-5/8
GA261B	9/32	PHILLIPS®	#3	5-5/8
GA199A	9/32	Combination	.032 x 9/32, #2	5-7/8

*Aluminum handle with magnet.



SS5A



SSM5A



SSM6A



GA260A



GA199A



SSR7

SSR7 Recessed Aluminum Starter (Blue-Point®)
- Round aluminum body with knurled gripping area in center
- Designed to accommodate the most popular sizes of recessed screws: TORX®, Socket Head, PHILLIPS®, etc.
- Opposite end handles #3, #4, #6, #8 and #10 nuts
- Overall length is 6-3/4″

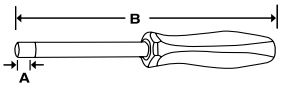
⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

NUT DRIVERS



NDDM900A





NDD900B

Hard Handle, mm, 6-Point

Set Contains: NDDM900A

mm	Stock No.	A*	B	
5	NDDM50A	7.5	169	•
6	NDDM60A	7.5	169	•
7	NDDM70A	9.1	169	•
8	NDDM80A	9.9	169	•
9	NDDM90A	9.9	188	•
10	NDDM100A	13.1	207	•
11	NDDM110A	13.1	207	•
12	NDDM120A	13.1	221	•
13	NDDM130A	13.1	221	•

*Socket length

Set includes storage tray.

Hard Handle, inches, 6-Point

- Most popular sizes included in sets
- Tubular, polished shanks with 1″ recess
- Sizes marked on side and end of handle for identification
- Handles resist oils and solvents and easily wipe clean

Set Contains: NDD900B

	Stock No.	Handle Color	A*	B	
3/16	NDD106B	Black	19/64	6-21/32	•
7/32	NDD107BBR	Brown	19/64	6-21/32	•
1/4	NDD108BR	Red	19/64	6-21/32	•
9/32	NDD109BO	Orange	23/64	6-21/32	•
5/16	NDD110BY	Yellow	23/64	6-21/32	•
11/32	NDD111BG	Green	25/64	6-21/32	•
3/8	NDD112BB	Blue	25/64	7-13/32	•
7/16	NDD114BBR	Brown	33/64	8-5/32	•
1/2	NDD116BR	Red	33/64	8-21/32	•
9/16	NDD118BO	Orange	47/64	9-1/4	
5/8	NDD120BY	Yellow	47/64	9-1/4	

*Socket length

Set includes storage tray.



NDSGM600A

Ergonomic Soft Grip Handle, mm, 6-Point

- Constructed from high-strength steel and is hardened for durability
- Blade and handle display size markings
- Hole in handle can be used for hanging or tethering the tool
- Ergonomic, soft-grip handles provide comfort and unprecedented turning power

Set Contains: NDSGM600A

mm	Stock No.	Handle Color	Overall Length, inches	
7 mm	NDSGM7A	Blue	8-5/8	•
8 mm	NDSGM8A	Blue	8-5/8	•
10 mm	NDSGM10A	Blue	8-5/8	•
12 mm	NDSGM12A	Blue	8-5/8	•
13 mm	NDSGM13A	Blue	8-5/8	•
14 mm	NDSGM14A	Blue	8-5/8	•

Set includes storage tray.



NDSG600A

Ergonomic Soft Grip Handle, inches, 12-Point

Set Contains: NDSG600A

	Stock No.	Handle Color	Length	
1/2	NDSG12A	Red	6-3/8	•
1/4	NDSG14A	Red	6-3/8	•
3/8	NDSG38A	Red	6-3/8	•
5/16	NDSG516A	Red	6-3/8	•
7/16	NDSG716A	Red	6-3/8	•
9/32	NDSG932A	Red	6-3/8	•

Set includes storage tray.

Master Bit Sets (1/4″ hex)



SDM400A

SDM400A Master SAE Screwdriver Bit Set

- Includes (33) hex shank bits, (3) adaptors and (1) convenient storage case
- Popular array of adaptors and bits for use with hand or cordless tools
- Bits made in USA

Includes all bits below:

Bit Type	Stock No.	#
Flat Tip	SDM211B	.031 x .187″
	SDM212B	.035 x .219″
	SDM213B	.038 x .250″
	SDM214C	.046 x .312″
Hex Bit	SDM2704D	1/16″
	SDM2705D	5/64″
	SDM2706D	3/32″
	SDM2707D	7/64″
	SDM2708D	1/8″
	SDM2709D	9/64″
	SDM2710D	5/32″
	SDM2712D	3/16″
	SDM2714D	7/32″
	SDM2716D	1/4″
PHILLIPS® ACR® Bit	SDM221IRB	#1
	SDM222IRB	#2
	SDM223IRB	#3
TORX® Bit	SDMT8D	T8
	SDMT9D	T9
	SDMT10D	T10
	SDMT15D	T15
	SDMT20D	T20
	SDMT25D	T25
	SDMT27D	T27
	SDMT30D	T30
	SDMT40D	T40
Pozidriv® ACR Bit	SDM251IRC	#1
	SDM252IRB	#2
	SDM253IRC	#3
Scrulox® Bit	BTS0	#0
	BTS1	#1
	BTS2	#2
	BTS3	#3
1/4″ Hex opening, 1/4″ drive	TMBS8A	—
1/4″ Hex-to-1/4″ Square	GMB3042	2
Insert Bit Magnetic Holder	SDM11A	—
Storage Case	PB90A	—



SDM410

SDM410 Master Metric Screwdriver Bit Set

- Includes (36) hex shank bits, (3) adaptors and (1) convenient storage case
- Bits made in USA

Includes all bits below:

Bit Type	Stock No.	#
Flat Tip	SDM211B	.031 x .187″
	SDM212B	.035 x .219″
	SDM213B	.038 x .250″
	SDM214C	.046 x .312″
PHILLIPS® ACR® Bit	SDM221IRB	#1
	SDM222IRB	#2
	SDM223IRB	#3
Pozidriv® ACR Bit	SDM251IRC	#1
	SDM252IRB	#2
	SDM253IRC	#3
PHILLIPS® Limited Clearance Bit	SDM222CZ	#2
Metric Hex Bit	SDMM2702B	2 mm
	SDMM2702.5B	2.5 mm
	SDMM2703B	3 mm
	SDMM2704C	4 mm
	SDMM2705C	5 mm
	SDMM2706C	6 mm
	SDMM2708B	8 mm
	SDMM2710B	10 mm
TORX® Bit	SDMT8D	T8
	SDMT9D	T9
	SDMT10D	T10
	SDMT15D	T15
	SDMT20D	T20
	SDMT25D	T25
	SDMT27D	T27
	SDMT30D	T30
	SDMT40D	T40
TORX® Tamper-Resistant Bit	SDMTR8	T8
	SDMTR10	T10
	SDMTR15	T15
	SDMTR20	T20
	SDMTR25	T25
	SDMTR27	T27
	SDMTR30	T30
	SDMTR40	T40
1/4″ Hex opening, 1/4″ drive	TMBS8A	—
1/4″ Hex-to-1/4″ Square	GMB3042	2
Insert Bit Magnetic Holder	SDM11A	—
Storage Case	PB900	—

⚠WARNING

- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

BIT SETS



SDM32KT

Ball Hex Bit Sets (1/4″ hex)

SDM32KT Ball Hex Set (Blue-Point®)

- 1/4″ shank bits for use in difficult access applications where fastener cannot be approached straight on
- 32 pc set

	Stock No.	#
Metric	SDMBMH2702	2 mm
	SDMBMH2702.5	2.5 mm
	SDMBMH2703	3 mm
	SDMBMH2704	4 mm
	SDMBMH2705	5 mm
	SDMBMH2706	6 mm
	SDMBMH2707	7 mm
	SDMBMH2708	8 mm
	SDMBMH2709	9 mm
	SDMBMH2710	10 mm
SAE	SDMBH2706	3/32″
	SDMBH2707	7/64″
	SDMBH2708	1/8″
	SDMBH2709	9/64″
	SDMBH2710	5/32″
	SDMBH2712	3/16″
	SDMBH2714	7/32″
	SDMBH2716	1/4″
	SDMBH2720	5/16″
	SDMBH2724	3/8″

	Stock No.	#
TORX®	SDMBT10	T10
	SDMBT15	T15
	SDMBT20	T20
	SDMBT25	T25
	SDMBT27	T27
	SDMBT30	T30
	SDMBT40	T40
	SDMBT45	T45
	SDMBT50	T50
	SDMBT55	T55
Bit Holder	SDM13	—
1/4″ Fem Hex-to-1/4″ Fem Sq Dr. Adaptor	TMBS108	—

Sets include storage case.



SDM11KT

SDM11KT TORX® Ball Hex Set (Blue-Point®)

- Includes storage case with belt clip

	Stock No.	#
TORX®	SDMBT10	T10
	SDMBT15	T15
	SDMBT20	T20
	SDMBT25	T25
	SDMBT27	T27
	SDMBT30	T30
	SDMBT40	T40
	SDMBT45	T45
	SDMBT50	T50
	SDMBT55	T55
Bit Holder	SDM13	—
1/4″ Fem Hex-to-1/4″ Fem Sq Dr. Adaptor	TMBS108	—



SDMC8RD



SDMC8T

Ratcheting Screwdriver Bit Sets (1/4″ hex)

SDMC8D* 8 pc Diamond Tip Combination Screwdriver Bit Set

- Set includes (1) flat diamond tip bit (1 mm), (3) PHILLIPS® diamond-tip bits (#1, #2, #3) and (4) TORX® diamond-tip bits (T15, T20, T25, T30) in SDMC8 Black Storage Case

SDMC8T 8 pc TORX® Screwdriver Bit Set**

- Set includes (8) TORX® bits (T8–T30) in a black storage case (SDMC8)

SDMC8† Bit Storage Case

- Case is designed to fit the shank of Snap-on® ratcheting screwdriver allowing the tools to be stored together
- Indexable tray has good bit spacing and pivots up to make bit selection/removal easy
- Case available in Red, Black, Green and Orange

Colors Available

	Red	Orange	Green	Black
*	R	O	G	D
**	RT	OT	GT	T
†	R	O	G	—

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

	Stock No.	#
Flat Tip Diamond Bit	SDMD213‡	1 mm/5.5 mm
PHILLIPS® Diamond Bit	SDMD221‡	#1
	SDMD222‡	#2
	SDMD223‡	#3
TORX® Diamond Bit	SDMDT15‡	T15
	SDMDT20‡	T20
	SDMDT25‡	T25
	SDMDT30‡	T30
TORX® Bit	SDMT8D	T8
	SDMT9D	T9
	SDMT10D	T10
	SDMT15D	T15
	SDMT20D	T20
	SDMT25D	T25
	SDMT27D	T27
	SDVT3020	T30

SDMC8 Storage Case

Ratcheting Screwdriver Bit Sets (1/4″ hex)

SDMC8P 8 pc Combination Screwdriver Bit Set**

- Set includes (2) flat tip bits (.031″ and .038″); (3) PHILLIPS® bits (#1, #2 and #3); (1) limited clearance PHILLIPS® bit #2; (1) Scrulox® bit #2 and (1) 1″ adaptor in SDMC8 Black Storage Case

SDMC8H Screwdriver Bit Set

- Set includes (8) hex bits 3/32–5/16″ in SDMC8 Black Storage Case

SDMC8MH 8 pc Metric Hex Screwdriver Bit Set

- Set includes (8) Metric Hex Bits 2–10 mm in SDMC8 Black Storage Case

SDMC8* Bit Storage Case

- Case is designed to fit the shank of Snap-on® ratcheting screwdriver allowing the tools to be stored together
- Indexable tray has good bit spacing and pivots up to make bit selection/removal easy



SDMC8P



SDMC8H



SDMC8MH

Colors Available

	Red	Orange	Green	Black
*	R	O	G	
**	RP	OP	GP	

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Description	Stock No.	Size
Flat Tip Bit	SDM211B	.031 x .187″
	SDM213B	.038 x .250″
PHILLIPS® ACR®	SDM221IRB	#1
	SDM222IRB	#2
	SDM223IRB	#3
PHILLIPS® Limited Clearance Bit	SDM222CZ	#2
Scrulox® Bit	BTS2	#2
Hex-to-Square Adaptor, 1/4″ Hex to 1/4″ Square	GMB3041	1/4″ Hex-to-1/4″ Square
Hex Bit	SDM2706D	3/32″
	SDM2708D	1/8″
	SDM2709D	9/64″
	SDM2710D	5/32″
	SDM2712D	3/16″
	SDM2714D	7/32″
	SDM2716D	1/4″
	SDM2720D	5/16″
Metric Hex Bit	SDMM2702B	2 mm
	SDMM2702.5B	2.5 mm
	SDMM2703B	3 mm
	SDMM2704C	4 mm
	SDMM2705C	5 mm
	SDMM2706C	6 mm
	SDMM2708B	8 mm
	SDMM2710B	10 mm

Power Bit Sets

SDMEXT27K 27 pc 1/4″ Hex Drive Adaptor and Bit Set (Ball-Detent)

Description	Stock No.	Size
Flat Tip Bit	SDM211B	.031 x .187″
	SDM212B	.035 x .219″
	SDM213B	.038 x .250″
PHILLIPS® ACR®	SDM221IRB	#1
	SDM222IRB	#2
	SDM223IRB	#3
PHILLIPS® Power Bit	SDM321B	#1
	SDM322B	#2
	SDM323A	#3
Magnetic Nutsetter	SDMN25	1/4″ Hex x 1/4″
	SDMN31	1/4″ Hex x 5/16″
Scrulox Bit	BTS1	#1
	BTS2	#2
	BTS3	#3
TORX® Bit	SDMT10D	T10
	SDMT15D	T15
	SDMT20D	T20
	SDMT25D	T25
	SDMT27D	T27
	SDMT30D	T30
Hex-to-Square Adaptor, 1/4″ Hex to 1/4″ Square	GMB3041	1/4″ Hex-to-1/4″ Square
	GMB3042	2
	GMB3046	6
Hex-to-Square Adaptor, 1/4″ Hex to 3/8″ Square	AB3042	2
	AB3046	6
Insert Bit Magnetic Holder	SDM11A	—
Quick-Change Coupler, 1/4″ Drive	TMC109A	—

Sets include storage case



SDMEXT27K

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

BIT SETS



SDMEXT19K



SDML19KT

Power Bit Sets

Description	Stock No.	Size	SDMEXT19K Set Contains:
Flat Tip Bit	SDM211B	.031 x .187″	•
	SDM212B	.035 x .219″	•
	SDM213B	.038 x .250″	•
PHILLIPS® ACR® Bit	SDM221IRB	#1	•
	SDM222IRB	#2	•
	SDM223IRB	#3	•
PHILLIPS® Power Bit	SDM321B	#1	•
	SDM322B	#2	•
	SDM323A	#3	•
TORX® Power Bit	SDMT315A	T15	•
	SDMT320A	T20	•
	SDMT325B	T25	•
Hex-to-Square Adaptor, 1/4″ Hex to 1/4″ Square	GMB3041	1	•
	GMB3042	2	•
	GMB3046	6	•
Hex-to-Square Adaptor, 1/4″ Hex to 3/8″ Square	AB3042	2	•
	AB3046	6	•
Insert Bit Magnetic Holder	SDM11A	—	•
Quick-Change Coupler, 1/4″ Drive	TMC109A	—	•

Set includes storage case.

SDMEXT19K 19 pc 1/4″ Hex Drive Adaptor and Bit Set

- Complete set includes the most popular sizes and lengths of extensions, adaptors and bits
- 1/4″ hex-to-1/4 or 3/8″ Square Drives Hex-to-Square Adaptors for use with sockets (2 and 6″ long)
- Magnetic bit holder for use with insert bits and quick-change coupler for use with 1/4″ hex power bits
- Includes (3) flat tip, (3) PHILLIPS®, (3) PHILLIPS® insert bits and (3) TORX® power bits

Power Bit Sets

Description	Stock No.	Size	Length	SDML19KT Set Contains:
Flat Tip Power Bit	SDM414A	.034 x .187″	3	•
	SDM416A	.038 x .250″	3	•
	SDM614	.034 x .187″	6	•
	SDM616	.038 x .250″	6	•
PHILLIPS® Power Bit	SDM421B	#1	2-3/4	•
	SDM422B	#2	2-3/4	•
	SDM423B	#3	2-3/4	•
	SDM621A	#1	6	•
	SDM622A	#2	6	•
	SDM623A	#3	6	•
TORX® Power Bit	SDMT415	T15	2-3/4	•
	SDMT420	T20	2-3/4	•
	SDMT425	T25	2-3/4	•
	SDMT427	T27	2-3/4	•
	SDMT615	T15	6	•
	SDMT620	T20	6	•
	SDMT625	T25	6	•
	SDMT627	.250	6	•
Quick-Change Coupler, 1/4″ Drive	TMC109A	—	—	•

Set includes storage case.

SDML19KT 19 pc Long Power Bit Set

- Includes an assortment of popular-sized bits to cover a wide range of applications
- Helps avoid costly damage to work surface by eliminating chuck contact

CTS561BITXL 14 pc 6″ Power Bit Set (Blue-Point®)
- Comprehensive set includes a stainless steel insert bit adaptor
- Additional length provides greater access and minimizes drill contact with work surface
- Power bits made from tough S2 steel
- T8, T10, T15, T20, T25, T27 and T30
- PHILLIPS® #1, #2 and #3, Square #1 and #2
- SDM611 stainless steel adaptor with magnetic retention
- CTS561BITCS indexable case



CTS561BITXL

CTS561BITSET 23 pc 1/4″ Drive Quick-Change Bit Set (Blue-Point®)
- For Snap-on® cordless screwdrivers, plus other power drivers
- Quick-change hex saves time changing bits
- Manufactured from industrial-grade tool steel
- Includes (22) bits (all 3″ long), plus a 1/4″ square drive (2″ long)
- Includes PHILLIPS® bits #0, #1, #2; flat tip bits 5/32″, 3/16″, 7/16″, 1/4″, 9/32″; TORX® bits T10, T15, T20, T25, T27, T30, T40; hex bits 3/32″, 7/64, 1/8″, 5/32″, 3/16″, 7/32″ and 1/4″
- Includes a storage case



CTS561BITSET

YA52PBSQC 52 pc Power Bit Set (Blue-Point®)
- Ideal for use with cordless drills and screwdrivers
- Includes (7) six-lobe star (tamper-proof) insert bits, (3) square insert bits, (4) PHILLIPS® insert bits, (4) slotted insert bits, (7) hex insert bits, (2) clutch insert bits, (6) six-lobe star (tamper-proof) power bits, (3) square power bits, (3) PHILLIPS® power bits, (3) slotted power bits, (3) hex power bits, (3) socket adaptors, (1) quick-change chuck, (2) PHILLIPS® double end bits and (1) square bit holder in a storage case



YA52PBSQC

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SCREWDRIVER BITS AND ACCESSORIES


SDM611


SDM11A



SSDM10A


TMC109A


TMXKBS6

Screwdriver Bit Holders

SDM611 Insert Bit Magnetic Holder (Blue-Point®)
- For quick hex bit changes when used with electric drill, cordless drill or screw gun
- Magnetic bit retention
- 6″ long

SDM11A Magnetic Bit Retention
- 2-7/8″ Long

SSDM10A Bits Pocket Box
- Pocket-sized storage system for SDM Series bits
- Includes quick-change bit holder

TMC109A Quick Change Coupler
- Use with any 1/4″ drive handle
- Spring-release shell retracts to accept 1/4″ hex power-type bits
- Ideal for production situations where positive bit retention is required

TMXKBS6 1/4″ Hex x 1/4″ Square 6″ Socket
- Used to remove and install various fasteners—allows the ratchet to be used to drive a 1/4″ hex screwdriver bit
- 1/4″ square drive, 6″ extension that accepts different configurations of 1/4″ hex bits
- Employs a magnetic end to help hold the bit in place
- Precision-crafted from special alloy steel for strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean


CFSSB8


FBS8

Screwdriver Bit Sockets

- For use with standard 1/4″ hex SDM series screwdriver bits

Stock No.	Description
CFSSB8	3/8″ Drive Non-Conductive Composite Universal Bit Holder
FBS8	3/8″ Drive Screwdriver Bit Socket
FBS9 *	3/8″ Drive Screwdriver Bit Socket

* Use with 5/16" Hex bit


TMUBS8


TMBS8A

Magnetic Screwdriver Bit Sockets

- For use with standard 1/4″ hex SDM series screwdriver bits

Stock No.	Description
FBSM8A	3/8″ Drive Magnetic Screwdriver Bit Socket
GTMBS8A	1/4″ Drive Magnetic Screwdriver Bit Socket
TMBS8A	1/4″ Drive Magnetic Screwdriver Bit Socket
TMUBS8	1/4″ Drive Magnetic Screwdriver Bit Universal Socket

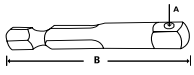

SDMN31

Magnetic Nut Drivers

- Allows ratcheting screwdrivers (with 1/4″ hex end) to be used as a nut driver
- Magnet securely holds nut during use

Stock No.	Size	Hex Size, inches	Length, inches
SDMN25	1/4	1/4	1-3/4
SDMN31	5/16	1/4	1-3/4


GMB3046




AB3042

Hex-to-Square Adaptors

Stock No.	A	B
GMB3041*	Ball Detent	1
GMB3042	Ball Detent	2
GMB3046	Ball Detent	6
AB3042*	Ball Detent	2
AB3044*	Ball Detent	4
AB3046*	Ball Detent	6

*Insert Bit Style, non-impact

- Durable alloy steel for long life
- Specialized heat treat for consistent quality
- Precision milled tip geometry for optimal fastener engagement

	Stock No.	#
Flat Tip 	SDM211B**	.031 x .187″
	SDM212B**	.035 x .219″
	SDM213B**	.038 x .250″
	SDM214C**	.046 x .312″
	SDM215C**	.055 x .375″
PHILLIPS® 	SDM221C	#1
	SDM222ZB	#2
	SDM222CZ*	#2
	SDM223C	#3
Clutch A 	SDM242	3/32″
	SDM243	1/8″
	SDM244	5/32″
	SDM245	3/16″
	SDM246	1/4″
	SDM247	5/16″
Clutch G 	SDM242G	3/32″
	SDM243G	1/8″
	SDM244G	5/32″
	SDM245G	3/16″
	SDM246G	1/4″
Hex, inches 	SDM2704D**	1/16″
	SDM2705D**	5/64″
	SDM2706D**	3/32″
	SDM2707D**	7/64″
	SDM2708D**	1/8″
	SDM2709D**	9/64″
	SDM2710D**	5/32″
	SDM2712D**	3/16″
	SDM2714D**	7/32″
	SDM2716D**	1/4″
	SDM2720D	5/16″
	SDM2724D	3/8″
Hex, mm 	SDMM2702B	2 mm
	SDMM2702.5B	2.5 mm
	SDMM2703B	3 mm
	SDMM2704C	4 mm
	SDMM2705C	5 mm
	SDMM2706C	6 mm
	SDMM2708B	8 mm
	SDMM2710B	10 mm

	Stock No.	#
Pozidriv® 	SDM251C	#1
	SDM252C	#2
	SDM253C	#3
TORX® 	SDMT6A	T6
	SDMT7A	T7
	SDMT8D**	T8
	SDMT9D**	T9
	SDMT10D**	T10
	SDMT15D**	T15
	SDMT20D**	T20
	SDMT25D**	T25
	SDMT27D**	T27
	SDMT30D**	T30
	SDMT40D**	T40
Square 	BTS0	#0
	BTS1	#1
	BTS2	#2
	BTS3	#3
Tri-Wing 	BTW0A	#0
	BTW1A	#1
	BTW2A	#2
	BTW3A	#3
	BTW4A	#4
	BTW5A	#5
	BTW6A	#6
Double Square 	BTSS2	#2

*Small profile/narrow tip **Included as part of SDM400A Master Bit Set

- BTS and BTSS Series bits can be used on recessed double square fasteners commonly used on trailer and RV exteriors
- Bit size varies by application



SDMTW9A



SDMTR10



SDM253IRC



SDM222IRB

Pozidriv® ACR® Installer/Remover

- Anti-cam-out ribs bite into fasteners and help prevent damage to the fastener

Stock No.	#
SDM251IRC	#1
SDM252IRB	#2
SDM252IRC	#2
SDM253IRC	#3

PHILLIPS® ACR®

- Anti-cam-out ribs bite into fasteners and help prevent damage to the fastener

Stock No.	#
SDM221IRB	#1
SDM222IRB	#2
SDM223IRB	#3

Wobble Bits

- Unique geometry provides up to 18° of angle "wobble"

Stock No.	#
SDMTW8A	T8
SDMTW9A	T9
SDMTW10A	T10
SDMTW15A	T15
SDMTW20A	T20
SDMTW25A	T25
SDMTW27A	T27
SDMTW30A	T30
SDMTW40A	T40

Tamper-Resistant TORX®

- Bits SDMTR8–SDMTR40 are 1/4″; bits SDMTR45 and SDMTR50 are 5/16″

Stock No.	#	Diameter, inches
SDMTR8	T8	1/4
SDMTR10	T10	1/4
SDMTR15	T15	1/4
SDMTR20	T20	1/4
SDMTR25	T25	1/4
SDMTR27	T27	1/4
SDMTR30	T30	1/4
SDMTR40	T40	1/4
SDMTR45	T45	5/16
SDMTR50	T50	5/16

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

1/4" HEX SHANK BITS



SDMV208

Valve and Stem

- Durable alloy steel for long life
- Specialized heat treat for consistent quality
- Precision milled tip geometry for optimal fastener engagement

SDMV208 Tire Valve Bit

- Designed for use with all Snap-on® ratcheting screwdrivers
- Similar to what is covered by the TR107A, TR108, TR1170 screwdrivers
- 1/4″ Hex insert bit, 1″ length

Mortorq® Bits

- Designed for use with Mortorq® fasteners
- Used on aerospace applications
- Low-profile head design, high-strength torque acceptance and lighter weight
- Bits designed to allow fastener removal at various angles for ease of use
- Bits with hex size of 1/4″ to be used with Snap-on® ratcheting screwdrivers
- Exacting manufacturing processes ensure precise fastener engagement
- Part numbers stamped on bit

Bit Type	Stock No.	Size
Mortorq®	SDMMT00	#00
	SDMMT1	#1
	SDMMT2	#2
	SDMMT3	#3

Diamond Tip Bits

- Diamond particles “bite” into fasteners, which minimizes slipping
- Diamond particles are extremely hard for long-lasting performance and minimal wear

	Stock No.	#
PHILLIPS®	SDMD221‡	#1
	SDMD222‡	#2
	SDMD223‡	#3
Flat Tip	SDMD212‡	.8 mm/5.5 mm
	SDMD213‡	1 mm/5.5 mm
	SDMD214‡	1.2 mm/6.5 mm
TORX®	SDMDT10‡	T10
	SDMDT15‡	T15
	SDMDT20‡	T20
	SDMDT25‡	T25
	SDMDT30‡	T30
	SDMDT40‡	T40
Power Bit	SDMD321‡	#1
	SDMD322‡	#2
	SDMD323‡	#3

INSERT BITS



BLPTMBS1414

Bit Holder and 1/4″ Bits (Blue-Point®)

Stock No.	Description	Size
BLPTMBS1414	Bit Holder (Blue-Point®)	—
BLPTMBS3814	Bit Holder (Blue-Point®)	—
BLPHB14	Hex Bit (Blue-Point®)	1/4″
BLPHB18	Hex Bit (Blue-Point®)	1/8″
BLPHB316	Hex Bit (Blue-Point®)	3/16″
BLPHB532	Hex Bit (Blue-Point®)	5/32″
BLPHB732	Hex Bit (Blue-Point®)	7/32″
BLPHB964	Hex Bit (Blue-Point®)	9/64″
BLPHBM3	Metric Hex Bit (Blue-Point®)	3 mm
BLPHBM4	Metric Hex Bit (Blue-Point®)	4 mm
BLPHBM5	Metric Hex Bit (Blue-Point®)	5 mm
BLPHBM6	Metric Hex Bit (Blue-Point®)	6 mm
BLPTB10TP	1/4″ Drive T10 TORX® Tamper-Resistant Bit (Blue-Point®)	T10
BLPTB15TP	1/4″ Drive T15 TORX® Tamper-Resistant Bit (Blue-Point®)	T15
BLPTB20TP	1/4″ Drive T20 TORX® Tamper-Resistant Bit (Blue-Point®)	T20
BLPTB25TP	1/4″ Drive T25 TORX® Tamper-Resistant Bit (Blue-Point®)	T25
BLPTB30TP	1/4″ Drive T30 TORX® Tamper-Resistant Bit (Blue-Point®)	T30
BLPFB14	1/4″ Drive SAE 1/4″ Flat Tip Bit (Blue-Point®)	1/4″
BLPFB316	1/4″ Drive SAE 3/16″ Flat Tip Bit (Blue-Point®)	3/16″
BLPFB532	1/4″ Drive SAE 5/32″ Flat Tip Bit (Blue-Point®)	5/32″
BLPFB732	1/4″ Drive SAE 7/32″ Flat Tip Bit (Blue-Point®)	7/32″
BLPFB932	1/4″ Drive SAE 9/32″ Flat Tip Bit (Blue-Point®)	9/32″
BLPPB0	1/4″ Drive #0 PHILLIPS® Tip Bit (Blue-Point®)	#0
BLPPB1	1/4″ Drive #1 PHILLIPS® Tip Bit (Blue-Point®)	#1
BLPPB2	1/4″ Drive #2 PHILLIPS® Tip Bit (Blue-Point®)	#2
BLPPB3	1/4″ Drive #3 PHILLIPS® Tip Bit (Blue-Point®)	#3
BLPSQB1	1/4″ Drive #1 Square Tip Bit (Blue-Point®)	#1
BLPSQB2	1/4″ Drive #2 Square Tip Bit (Blue-Point®)	#2

TORX® Insert Bits

	Stock No.	#		Length, inches
TORX®	SDMTA40	T40	.312	1-1/4
	SDMTA45	T45	.312	1-1/4
	SDMTA50	T50	.312	1-1/4
	SDMTA55	T55	.312	1-1/4

Specialty Insert Bits

	Stock No.	Dimension A, Shank Dia., inches
	SDM3D24	.312

SDM3D24 Flat Tip/#2 PHILLIPS® Insert Bit

- Double end bit PHILLIPS® #2 and .05″ slotted tip
- For use with SDDDM Series pocket screwdrivers

PHILLIPS® (Power)

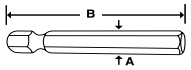
	Stock No.	#		A	B
PHILLIPS®	SDM220A	#0	1/4	—	1
	SDM320A	#0	1/4	.125	1-15/16
	SDM321B	#1	1/4	.187	1-15/16
	SDM322B	#2	1/4	.234	1-15/16
	SDM323A	#3	1/4	.234	1-15/16
	SDM421B	#1	1/4	.187	2-3/4
	SDM422B	#2	1/4	.234	2-3/4
	SDM423B	#3	1/4	.234	2-3/4
	SDM521A	#1	1/4	.187	3-1/2
	SDM522A	#2	1/4	.234	3-1/2
	SDM523A	#3	1/4	.234	3-1/2
	SDM621A	#1	1/4	.187	6
	SDM622A	#2	1/4	.234	6
	SDM623A	#3	1/4	.234	6
	SDMA421	#1	5/16	.250	3
	SDMA422A	#2	5/16	.250	3
	SDMA423A	#3	5/16	.296	3
	SDMB422A	#2	7/16	.312	3
	SDMB423A	#3	7/16	.312	3
	SDMB424A	#4	7/16	.375	3
	SDMB522A	#2	7/16	.312	4-1/2
	SDMB523A	#3	7/16	.312	4-1/2
	SDMB524A	#4	7/16	.375	4-1/2
	SDMB622	#2	7/16	.312	6
	SDMB623A	#3	7/16	.312	6
	SDMB624A	#4	7/16	.312	6

Flat Tip

	Stock No.	#		A	B
Flat Tip	SDM311B	.026 x .122″	1/4	.187	1-15/16
	SDM312B	.028 x .134″	1/4	.187	1-15/16
	SDM313B	.032 x .154″	1/4	.187	1-15/16
	SDM314B	.034 x .187″	1/4	.187	1-15/16
	SDM315A	.036 x .215″	1/4	.234	1-15/16
	SDM316A	.038 x .250″	1/4	.234	1-15/16
	SDM317A	.042 x .275″	1/4	.234	1-15/16
	SDM318A	.046 x .312″	1/4	.234	1-15/16
	SDM319A	.050 x .360″	1/4	.234	1-15/16
	SDM411B	.026 x .122″	1/4	.234	3
	SDM412B	.028 x .134″	1/4	.187	3
	SDM414A	.034 x .187″	1/4	.187	3
	SDM415A	.036 x .215″	1/4	.250	3
	SDM416A	.038 x .250″	1/4	.234	3
	SDM417A	.042 x .275″	1/4	.234	3
	SDM418A	.046 x .312″	1/4	.234	3
	SDM419A	.050 x .360″	1/4	.234	3
	SDM511A	.026 x .122″	1/4	.187	3-1/2
	SDM512A	.028 x .134″	1/4	.187	3-1/2
	SDM513A	.032 x .154″	1/4	.187	3-1/2
	SDM514A	.034 x .187″	1/4	.187	3-1/2
	SDM515A	.036 x .215″	1/4	.234	3-1/2
	SDM516A	.038 x .250″	1/4	.234	3-1/2
	SDM517A	.042 x .275″	1/4	.234	3-1/2
	SDM518A	.046 x .312″	1/4	.234	3-1/2
	SDM519A	.050 x .360″	1/4	.234	3-1/2
	SDM614	.034 x .187″	1/4	.187	6
	SDM616	.038 x .250″	1/4	.234	6



SDM361IA



PHILLIPS® ACR®/Installer (Power)

Stock No.	#		A	B
SDM361IA	#1	1/4	.187	1-15/16
SDM362IA	#2	1/4	.234	1-15/16
SDM363IA	#3	1/4	.234	1-15/16



SDM361RA

PHILLIPS® ACR®/Removal (Power)

Stock No.	#		A	B
SDM361RA	#1	1/4	.187	1-15/16
SDM362RA	#2	1/4	.234	1-15/16
SDM363RA	#3	1/4	.234	1-15/16

TORX® (Power)

	Stock No.	#		A	B
TORX®	SDMT307A	T7	1/4	.140	1-15/16
	SDMT308A	T8	1/4	.140	1-15/16
	SDMT309A	T9	1/4	.140	1-15/16
	SDMT310A	T10	1/4	.140	1-15/16
	SDMT315A	T15	1/4	.140	1-15/16
	SDMT320A	T20	1/4	.203	1-15/16
	SDMT325B	T25	1/4	.203	1-15/16
	SDMT327A	T27	1/4	.203	1-15/16
	SDMT330A	T30	1/4	.250	1-15/16
	SDMT340A	T40	1/4	.250	1-15/16
	SDMT407	T7	1/4	.140	2-3/4
	SDMT408	T8	1/4	.140	2-3/4
	SDMT409	T9	1/4	.140	2-3/4
	SDMT410	T10	1/4	.140	2-3/4
	SDMT415	T15	1/4	.140	2-3/4
	SDMT420	T20	1/4	.203	2-3/4
	SDMT425	T25	1/4	.203	2-3/4
	SDMT427	T27	1/4	.203	2-3/4
	SDMT430	T30	1/4	.250	2-3/4
	SDMT440	T40	1/4	.250	2-3/4
	SDMT507	T7	1/4	.140	3-1/2
	SDMT508	T8	1/4	.140	3-1/2
	SDMT510	T10	1/4	.140	3-1/2
	SDMT515	T15	1/4	.140	3-1/2
	SDMT520	T20	1/4	.203	3-1/2
	SDMT525	T25	1/4	.203	3-1/2
	SDMT527	T27	1/4	.203	3-1/2
	SDMT530	T30	1/4	.250	3-1/2
	SDMT540	T40	1/4	.250	3-1/2
	SDMT607	T7	1/4	.140	6
	SDMT608	T8	1/4	.140	6
	SDMT609	T9	1/4	.140	6
	SDMT610	T10	1/4	.156	6
	SDMT615	T15	1/4	.156	6
	SDMT620	T20	1/4	.187	6
	SDMT625	T25	1/4	.234	6
	SDMT627	T27	1/4	.250	6
	SDMT630	T30	1/4	.250	6
	SDMT640	T40	1/4	.250	6

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

POWER BITS



SDM351B

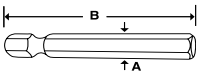


SDM451A



SDMTR308

Pozidriv® (Power)



Stock No.	#		A	B
SDM351B	#1	1/4	.187	1-15/16
SDM352B	#2	1/4	.234	1-15/16
SDM353B	#3	1/4	.234	1-15/16
SDM451A	#1	1/4	.187	2-3/4
SDM452A	#2	1/4	.234	2-3/4
SDM453A	#3	1/4	.234	2-3/4
SDM551A	#1	1/4	.187	3-1/2
SDM552A	#2	1/4	.234	3-1/2
SDM553A	#3	1/4	.234	3-1/2
SDM651A	#1	1/4	.187	6
SDM652A	#2	1/4	.234	6
SDM653A	#3	1/4	.234	6

Tamper-Resistant TORX®

Stock No.	#	Length, inches
SDMTR308	T8	1-15/16
SDMTR310	T10	1-15/16
SDMTR315	T15	1-15/16
SDMTR320	T20	1-15/16
SDMTR325	T25	1-15/16
SDMTR327	T27	1-15/16
SDMTR330	T30	1-15/16



SDMM3702



SDMM37025

Hex, mm (Power)

Stock No.	mm	A	B
SDMM3702	2	.09	1-15/16
SDMM37025	2.5	.11	1-15/16
SDMM3703	3	.13	1-15/16
SDMM3704	4	.18	1-15/16
SDMM3705	5	.22	1-15/16
SDMM3706	6	.27	1-15/16
SDMM3707	7	.31	1-15/16
SDMM3708	8	.36	1-15/16
SDMM3710	10	.45	1-15/16



SDMA4708



SDM3704

Hex, inches (Power)

Stock No.	#		A	B
SDMA4708	1/8	5/16	.234	3
SDMA4710	5/32	5/16	.234	3
SDMA4712	3/16	5/16	.234	3
SDMA4714	7/32	5/16	.281	3
SDMA4716	1/4	5/16	.281	3
SDMA4720	5/16	5/16	.312	3
SDMA4724	3/8	5/16	.312	3
SDM3704	1/16	1/4	.115	1-15/16
SDM3705	5/64	1/4	.234	1-15/16
SDM3706	3/32	1/4	.234	1-15/16
SDM3707	7/64	1/4	.234	1-15/16
SDM3708	1/8	1/4	.234	1-15/16
SDM3709	9/64	1/4	.234	1-15/16
SDM3710	5/32	1/4	.234	1-15/16
SDM3712	3/16	1/4	.234	1-15/16
SDM3714	7/32	1/4	.250	1-15/16
SDM3716	1/4	1/4	.250	1-15/16



SDMTS601

Square

Stock No.	#	
SDMTS601	#1	6
SDMTS602	#2	6

AWLS, HOOKS AND PICKS



SH6ASA

Awls/Hard Grip

Stock No.	Blade Length, inches	Overall Length, inches
SH6ASA	4-3/4	6-5/8

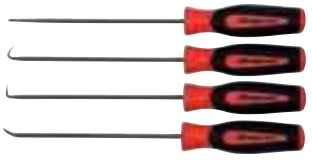
Awls and Hooks/Instinct® Soft Grip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric and cleaning crevices

SGLASA604 and SGLASH1204 sets feature:

- Heavy-duty alloy replaceable steel blades for strength
- Exclusive 45° tip geometry is ideal for pulling wires in tight areas
- Longer blades offer better access in hard-to-reach areas
- Larger handles for a comfortable, secure grip

Stock No.	Description	Blade Diameter, inches	Overall Length, inches	Blade Length, inches	Set Contains: SGASA104BR	SGLASA604BR**	SGLASH1204BR**
SG4ASABR	Instinct® Awl	1/4	8	3-3/4	•		
SG4ASHBR	Instinct® Hook	1/4	8	3-3/4	•		
SG5ASABR‡	Instinct® Awl	1/4	9-5/8	4-3/4	•		
SG7ASABR	Instinct® Awl	1/4	10-5/8	5-3/4	•		
SGL6ASABR	Instinct® Long Heavy-Duty Awl	3/16	10-5/32	6		•	
SGL6ASO45B*	Instinct® Long Heavy-Duty 45° Offset Pick	3/16	10-5/32	6		•	
SGL6ASH45B*	Instinct® Long Heavy-Duty 45° Pick	3/16	10-5/32	6		•	•
SGL6ASH90B*	Instinct® Long Heavy-Duty 90° Pick	3/16	10-5/32	6		•	•
SGL12ASH45B*	Instinct® Long Heavy-Duty 45° Pick	3/16	16-5/32	12			•
SGL12ASH90B*	Instinct® Long Heavy-Duty 90° Pick	3/16	16-5/32	12			•



SGLASA604BR

Colors Available

Red Orange Green
* O G
** R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Miniature Awls, Hooks and Picks/Soft Grip

- Comfortable, nonslip Instinct® handle
- Strong special steel blades for lasting performance
- High-polish finish
- Blades are replaceable
- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric, and cleaning crevices

Stock No.	Description	Blade Diameter, inches	Overall Length, inches	Blade Length, inches	Set Contains: SGASA204CR
SG3ASACR	Instinct® Mini Awl	1/8	6	3-1/8	•
SG3ASH45CR	Instinct® 45° Tip Miniature Pick	1/8	6	3-1/8	•
SG3ASH90CR	Instinct® 90° Tip Miniature Pick	1/8	6	3-1/8	•
SG3ASHCR	Instinct® Miniature Hook	1/8	6	3-1/8	•



SGASA204CR

Colors Available

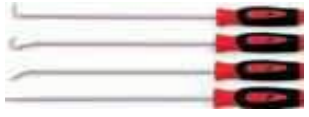
Red Orange Green
R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Long Small Size Awls, Hooks and Picks/Soft Grip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric, and cleaning crevices

Stock No.	Description	Blade Diameter, inches	Overall Length, inches	Blade Length, inches	Set Contains: SGLASA204CR
SGL3ASACR	Long Mini Awl	9/64	9-23/32	7	•
SGL3ASH45CR	Instinct® Long 45° Tip Miniature Pick	9/64	9-23/32	7	•
SGL3ASH90CR	Instinct® Long 90° Tip Miniature Pick	9/64	9-23/32	7	•
SGL3ASHCR	Instinct® Long Miniature Hook	9/64	9-23/32	7	•



SGLASA204CR

Colors Available

Red Orange Green
R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Seal Removal Tools/Soft Grip

- Rounded tip with blended radius edge allows easy removal of seals or O-rings while reducing chance of damage to seal or finished surface
- (2) tip configurations and (2) blade lengths handle most seal removal situations
- Industrial black finish blades
- Applications include transmissions, heater and vacuum hoses, oil pump drive shaft seals, injectors and fuel rail O-rings, inner tie rod rack boot and CV boot removal, fork seals and caliper dust boot assemblies on Harley-Davidson® and other motorcycles and steering racks and pumps

Stock No.	Tip Style	Overall Length, inches	Blade Length, inches	Set Contains: SGSR104AR
SGSR1AR	Spoon	8	5-1/4	•
SGSR2AR	Spoon	5-11/32	2-1/2	•
SGSR3AR	Contoured	5-11/32	2-1/2	•
SGSR4AR	Contoured	8	5-1/4	•



SGSR104AR

Colors Available

Red Orange Green
R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

⚠WARNING

- Do not use bits with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

STANDARD AND EXTRA LONG AWLS, HOOKS AND PICKS



PSLR6



PSLR4LT

Picks and Scribes/Extra-Long (Blue-Point®)

- Use to separate wires, remove small fuses, O-rings, retrieve small parts or mark metal and plastic surfaces
- Shank diameter is 0.02″ thicker than standard picks for added durability and extended tool life
- Each pick is 9-3/4″ (247.7 mm) long

Stock No.	Description	Set Contains: PSLR4	PSLR6
PSLR4-1	Extra-Long Hook Pick (Blue-Point®)	•	•
PSLR4-2	Extra-Long 90° Hook Pick (Blue-Point®)	•	•
PSLR4-3	Extra-Long Straight Pick (Blue-Point®)	•	•
PSLR4-4	Extra-Long Complex Pick (Blue-Point®)	•	•
PSLR4-5	Extra-Long Combination Pick (Blue-Point®)		•
PSLR4-6	Extra-Long Double Angle Pick (Blue-Point®)		•

Picks and Scribes/Extra-Long Lighted (Blue-Point®)

- LED lighted hook and pick set allows easier viewing in dark and hard-to-reach areas
- Made of durable carbon heat-treated steel
- Ergonomic soft grip contoured handle
- Each pick measures 9-3/4″ long (247.7 mm)
- Push-button LED switch on end of handle
- Each pick requires (3) LR41 batteries (included); replacement battery RSND384392PK

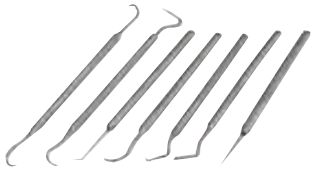
Stock No.	Description	Set Contains: PSLR4LT
PSLR4LT-1	Extra-Long Lighted Hook Pick (Blue-Point®)	•
PSLR4LT-2	Extra-Long Lighted 90° Hook Pick (Blue-Point®)	•
PSLR4LT-3	Extra-Long Lighted Straight Pick (Blue-Point®)	•



YA145A



YA148



YA149A



YA339A

Picks and Scribes (Blue-Point®)

Stock No.	Description	Overall Length, inches (assembled to handle)	Set Contains: YA145A	YA148	YA149A
YA145-1	Straight Tip Pick (Blue-Point®)	7-7/16	•		
YA145-2	90° Tip Pick (Blue-Point®)	7-7/16	•		
YA145-3	Hook Tip Pick (Blue-Point®)	7-7/16	•		
YA145-4	O-Ring Angle Tip Pick (Blue-Point®)	7-7/16	•		
YA145A-5	Black Anodized Handle (Blue-Point®)	—	•		
YA148-1	Scribe—Straight/90° Tip (Blue-Point®)	11-5/8		•	
YA148-2	Scribe—Straight/Hook (Blue-Point®)	11-1/2		•	
YA148-3	Scribe—Straight/Double Bend (Blue-Point®)	11-7/8		•	
YA149-1	Straight Pointed Pick (Blue-Point®)	5-1/2			•
YA149-2	Curved with 90° Pointed Pick (Blue-Point®)	5-1/4			•
YA149-3	45° with Flat Tip Pick (Blue-Point®)	5-1/2			•
YA149-4	90° Pointed Pick (Blue-Point®)	5-1/2			•
YA149-5	Double Ended Short Pick (Blue-Point®)	6-3/16			•
YA149-6	Double Ended Long Curve Pick (Blue-Point®)	6-1/2			•
YA149-7	Half Circle Pointed Pick (Blue-Point®)	5-3/8			•
YA338A	Straight/Hook Scribe	8-1/8			
YA339A	Straight/90° Scribe	8-1/8			

YA145A 4 pc Pick/Scribe Set (Blue-Point®)

- Compact set with (4) interchangeable threaded blades
- Black anodized aluminum handle with laser-etched Blue-Point® logo for better visibility
- Includes storage pouch
- High-quality carbon steel blades

YA148 3 pc Adjustable Pick/Scribe Set (Blue-Point®)

- Thicker 3/16″ dia. blades resist bending
- Longer length for greater reach into tight work areas
- Handle can be adjusted along length of blade
- Includes pouch

YA149A 7 pc Pick Set (Blue-Point®)

- Includes (5) 5-1/2″ single-ended and (2) 7″ double-ended probes made of tempered stainless steel
- Stainless steel picks avoid corrosion
- Includes pouch



PPN300



PPBN300



MPBS12A



MPBS24A



MPBS36A

Prying/Smoothing Tools

- Intended for spreading/smoothing epoxy, adhesives and silicone uniformly
- Other uses include cleaning small parts, removing/installing O-rings and gaskets, prying dashboard parts and vents and prying apart electronic key fobs to access the battery for replacement. Can be used to pry apart relays, fuses and wiring connectors
- Strong glass-reinforced nylon offers the rare combination of flexibility and strength
- While the non-marring composite material will not scratch soft metals, painted surfaces or other composite material, do not use this tool on glass, laminates or acrylic material
- Note: Not intended for live electrical use.

Stock No.	Length, inches	Tip Style	Set Contains: PPN300	PPBN300
PPN1030	7	Narrow, Dual Tip	•	
PPN2040	7	Medium, Dual Tip	•	
PPN4050	7	Wide, Dual Tip	•	
PPBN18	6-9/16	3/16″ Angle Tip		•
PPBN32	6-9/16	5/16″ Angle Tip		•
PPBN48	6-9/16	1/2″ Angle Tip		•

Set includes vinyl pouch.

Striking Prybars/Straight Edge

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- High-leverage design with smooth radius head provides maximum leverage while lifting and pulling back
- Straight tip design for maximum leverage in tight spaces
- Durable ergonomic handle features a tapered design for comfortable grip and withstands extreme work environments
- Blade extends through the handle and contacts the metal end cap to provide a continuous, solid striking force
- Flared end of handle offers protection from off-center handle strikes

Stock No.	Square Shank, inches	Tip Width, inches	Length, inches	Set Contains: MPBS703A
MPBS12A	3/8	5/8	12	•
MPBS24A	7/16	13/16	24	•
MPBS36A	5/8	1-1/8	36-5/8	•



SPBH30R



SPBH48R



SPBH54R

Striking Crown Handle Prybars

- Durable crown handle offers protection from off-center hammer strikes
- Handle is 10-3/8″ long for a comfortable, secure grip (long handle ensures that two hands can fit for high-leverage applications)
- Cylindrical design with taper allows user to find a comfortable grip regardless of hand size
- Made from the same durable, easy-to-clean acetate material used on Snap-on® SPBS series prybars
- Handle resists extreme temperatures
- Striking cap features three times the surface area versus competitive prybars (reduces chance of handle damage/off-center strikes for better performance and safety)
- 3/4″ square bar manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- High-leverage flared tip (1-1/8″) with precision-ground edge
- Blade is permanently stamped with product information and has an industrial finish (protects against corrosion)

Stock No.	Bar Stock Size, inches	Tip Width, inches	Length with Handle, inches
SPBH30R	3/4	1-1/8	30
SPBH48R	3/4	1-1/8	48
SPBH54R	3/4	1-1/8	54

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

WARNING • Read safety precautions on pages W1 to W4

PRYBARS



SPBS704A

Colors Available

Red Orange Green
* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Striking Prybars

- Ergonomic shape and contour handle matched to blade length for optimum leverage
- Blade extends through handle and makes contact with end cap to provide solid striking force
- Metal end cap allows hammer striking while reducing chance of damage to handle
- High-leverage design with smooth radius head provides maximum leverage when lifting and pulling back
- Blade manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish to protect against corrosion

Stock No.	Square Shank, inches	Tip Width, inches	Length, inches	Set Contains: SPBS704A*
SPBS8A*	1/4	7/16	8	•
SPBS12A*	3/8	5/8	12	•
SPBS18A*	7/16	23/32	18	•
SPBS24A*	7/16	13/16	24	•
SPBS36A*	5/8	1-1/8	36-5/8	
SPBS42A*	5/8	1-1/8	42-1/4	



PBFG415

Fiberglass Prybar

PBFG415 Fiberglass Prybar (Blue-Point®)

- Drop-forged rust-resistant, hardened steel wedge end is chemically bonded to fiberglass handle
- 50,000 strands of fiberglass are sleeved by a polypropylene jacket for comfort and variable hand placement during use
- About one-half the weight of a steel prybar of the same length and less flexible than a steel prybar for greater leverage
- Polypropylene sleeve is resistant to heat and cold for greater comfort in all temperatures

Stock No.	Description	Length, inches
PBFG415	Fiberglass Prybar (Blue-Point®)	41-1/2



SPDC18R

Demolition Chisels/Striking Crown Handle

- Exclusive crown handle offers protection from off center hammer strikes
- Handle provides a comfortable secure grip in a variety of environments
- Engineered composite handle offers excellent temperature resistance and bar retention
- Exclusive crown handle offers protection from off-center hammer strikes
- Handle provides a comfortable, secure grip in a wide variety of environments
- Engineered high-impact nylon material offers excellent cold and hot weather resistance and bar retention
- Large striker cap provides a large impact surface—important when using large hammers or mauls
- Tough steel alloy is machined and differentially heat treated for optimum performance
- Good balance and length; 18″ provides optimal clearance without becoming too long or heavy
- High impact nylon offers much better temperature resistance than acetate
- Offers an alternative to air hammers; no need to drag bulky air hoses. Ideal for quick work regardless of location
- Chisel is roll-stamped with part number
- Chisel has a double edge bevel with 1-1/8″ flare tip

Stock No.	Hex Shank, inches	Tip Width, inches	Length, inches
SPDC18R	3/4	1-1/8 Double Edge	18

Colors Available

Red Orange Green
R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Prybars

- Snap-on® prybars feature a patented ergonomic shape and contour handle matched to the blade length for optimum leverage

MPBS1140AO 40° Brake Tool Prybar

- Strong 3/8″ square alloy steel bar with straight tip
- 11″ total length with 40° offset ensures access into tight wheel wells
- Durable, ergonomic handle features a tapered design for comfortable grip and withstands extreme work environments
- Ideal for general prybar applications



MPBS1140AO

Stock No.	Handle Length, inches	Square Shank, inches	Tip Width, inches	Tip Type
MPBS1140AO	5-1/2	3/8	3/8	Straight

Multi-Position Prybars

- Each prybar features 17 incremental angles of 15° to provide great flexibility
- High-leverage design with smooth radius head provides maximum leverage when lifting
- Manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish helps protect against corrosion

Stock No.	Length, inches	Tip Width, inches	Set Contains: PBMP703A
PBMP8A	8	1/2	•
PBMP12A	12	5/8	•
PBMP16A	16	5/8	•
PBMP24A	24	1	
PBMP36A	36	1	



PBMP703A

Non-Marring Prybars

- Made from tough reinforced nylon
- Ideal for removing clips, fasteners, molding or gaskets from interior/exterior applications
- Will not damage delicate surfaces unlike metal removal tools
- Lightweight and resistant to most automotive fluids
- Block end allows use with hammer

Stock No.	Length, inches	Tip Width, inches	Tip Style	Set Contains: PBN500
PBN1	6-3/4	5/8	Narrow Wedge	•
PBN2	6-3/4	15/16	Wide Wedge	•
PBN3	6-3/4	7/8	Narrow Fork	•
PBN5	6-3/4	1-3/16	Wide Fork	•
PBN7	6-3/4	1-3/8	Flat Fork	•
PBN10	6-3/4	5/8	90° L	
PBN15	6-3/4	1-1/4	90°	



PBN1



PBN500



PBN10



PBN15

Prying/Fabrication Tools

PBFT10 Metal Pry/Fabrication Tool (Blue-Point®)

- Slim radius taper end for optimum blend of strength and access
- Unique design fits in tight gaps and can be used in tandem with separate mated parts
- Made from strong 4140 alloy steel
- Includes holes for tethering

Stock No.	Overall Length, inches	Tip Width, inches	Weight, lb (kg)	Base Width, inches	Length of Radius (working end), inches
PBFT10	7	1/2	.23 (.1)	1	1-3/4



PBFT10

WARNING • Read safety precautions on pages W1 to W4

PRYBARS



PBHG48



PBHC48

Heavy-Duty Prybars

- Prybars feature a rubber grip that eliminates contact with rust and damaged surfaces and protects the bar from damage during transit
- Grip offers a nonslip surface that provides a secure gripping surface/leverage, when hands are wet, sweaty or oil covered

Stock No.	Tip Style	Weight, lb	Radius Curves, inches	Length, inches	Diameter, Inches
PBHG48	1-1/2″ Offset Chisel, 2-1/4″ Offset Claw	9.5	5-1/8	48	1″ Hex
PBHC48	1-1/8″ Straight Chisel, 2″ Offset Chisel	11.25	—	48	1″ Hex
PBHC60	1-1/8″ Straight Chisel, 2″ Offset Chisel	14.25	—	60	1″ Hex

PBHC1 48″ Replaceable Rubber Grip.



NPB124B

Wrecking Bars

- Slotted claw on “gooseneck” end and a chisel configuration on opposite end

Stock No.	Stock, inches	Length, inches
NPB124B	3/4	24



PBS704

Prybars

- Snap-on® prybars feature a patented ergonomic shape and contour handle matched to the blade length for optimum leverage

Stock No.	Stock, inches	Length, inches	Set Contains: PBS704
1250	7/16	12	•
1650	9/16	16	•
2050	11/16	20	•
650	5/16	6	•



3260B

Slate Bar

Stock No.	Stock, inches	Edge, inches	Length, inches
3260B	1	1/2	60



7030A

Close Quarters Bars

- Powerful leverage where space is at a premium
- Ideal for aligning molds

Stock No.	Stock, inches	Tip Width, inches	Length, inches
7030A	3/3	7/16	9
7031A	1/2	9/16	16
7032	5/8	3/4	18



1412A



BLPPB704

Pinch Bars

- Pinch bars have a tapered point on one end and a chisel-type edge on the other

Stock No.	Stock, inches	Edge, inches	Length, inches
1412A	1/2	5/8	14
1658C	1/2	5/8	16
2420A	3/4	15/16	20
2430C	3/4	5/8	30
2438C	3/4	7/8	38
2842C	7/8	1	42

BLPPB704 4 pc Pinch Bar Prybar Set (14–20″) (Blue-Point®)

- Includes 1412A (14″) and 2420A (20″) Pinch Bars, 7031A Close-Quarters Bar (16″) plus BPPC1878 Flat Chisel (18″)



UB222PK

Utility Bars

UB222PK Miniature 5-3/8″ Utility Prybar Set (10 pk) (Blue-Point®)

- 5-3/8″ length
- Pack of 10

Die Setter Bars

- Designed for separating, scraping or prying



7035

Stock No.	Stock, inches	Tip Width, inches	Length, inches
7035	5/8	7/16	18
7037	3/4	9/16	30



PLIERS

THE KEY TO MAKING BETTER PLIERS AND CUTTERS IS PRECISE MANUFACTURING AND USING THE BEST POSSIBLE MATERIALS. THAT'S WHY WE USE SPECIAL ALLOY STEEL AND AN EXCLUSIVE COLD-FORGED PROCESS TO ADD STRENGTH AND LONGEVITY TO OUR PLIERS. WE ALSO EMPLOY PROPRIETARY DESIGN TOUCHES LIKE JOINTS THAT ARE POSITIONED CLOSE TO THE CUTTING EDGE, MAKING IT FAR EASIER TO CUT HEAVY WIRE WHILE REDUCING USER FATIGUE.

PLIERS THAT ALWAYS COME THROUGH IN A PINCH.

Our Talon Grip™ makes the job easier, with diamond serrated jaws for added grip and pulling power. Ramped tips and a longer contoured handle for better accessibility. Plus rounded jaw edges to minimize nicking wires. Our VectorEdge blade technology provides the added advantages of parallel blades, more leverage and precise cutting edge alignment. And the cutting edges stay aligned and sharp year after year, even after thousands of cuts on everything from wires and cable ties to spring steel.

PLIERS/CUTTERS SETS



102LHCP



PL305ACF



PL306ACF



PL307ACF



PL330ACF



PLR300



PL400B



PL803A



PL500GS

Pliers and Cutters Sets

Set Contains:	102LHCP	PL305ACF*	PL306ACF*	PL307ACF*	PL330ACF*	PLR300*	PL400B*	PL803A	PL500GS*
Stock No.	**Description**								
415CP	Long Reach 35° Bent Nose Needle Nose Pliers	•							
915CP	Long Reach Needle Nose Pliers	•							
44ACF	4″ Talon Grip™ Combination Slip-Joint Pliers		•						
95ACF	6″ Needle Nose Pliers		•						
84CF	4″ VectorEdge Diagonal Cutters							•	
85ACF	5″ VectorEdge Diagonal Cutters		•						
786CF*	6″ Diagonal Flush-Cut Pliers								
46ACF	6″ Talon Grip™ Combination Slip-Joint Pliers			•					
96ACF	7″ Needle Nose Pliers			•				•	
86ACF	6″ VectorEdge Diagonal Cutter			•			•		•	•
47ACF	8″ Talon Grip™ Combination Slip-Joint Pliers				•			•		•
97ACF	8″ Talon Grip™ Needle Nose Pliers				•		•			•
87ACF	7″ VectorEdge Diagonal Cutter				•			•	•	
49ACF	9″ Talon Grip™ Combination Slip-Joint Pliers					•				
911ACF	11″ Needle Nose Pliers					•				
312CF	11″ VectorEdge Heavy-Duty Diagonal Cutter					•				
57AHLP	Lineman's Pliers						•			•
91ACP	Adjustable Joint Interlocking Channel Pliers (9-1/4″)							•		
PWCS7ACF	7″ Wire Stripper/Cutter/Crimper									•

See product details on following pages.

Sets include storage tray.

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



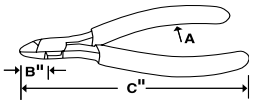
84CF



85ACF



86ACF





86EP



87ACF



786CF



312CF



808CF



388ACF

Diagonal Cutters (Natural)

- Quality forged steel ensures that tools will provide years of service
- Differential heat treatment produces the strength and toughness in desired areas to withstand repeated tough cutting jobs
- Handles are designed for comfort and to deliver the leverage needed to tackle demanding jobs
- DURABLE: Natural steel finish with clear coating; cold-forged special alloy steel; strength and durability, protects against corrosion, provides years of reliable performance
- LEVERAGE: Long contoured handle; joint positioned closer to the cutting edge; comfortable with increased leverage
- COMFORT: Cushioned plastisol handles; comfort and control to reduce fatigue

Stock No.	Description	Handle Style (A)	Jaw Length, inches (B)	Length, inches (C)	VectorEdge
84CF*	4″ Diagonal Cutters	Bowed	3/8	4-3/4	•
85ACF*	5″ Diagonal Cutters	Bowed	9/16	5	•
86ACF*	6″ Diagonal Cutter	Bowed	3/4	6-5/16	•
86EP	Pistol Grip Diagonal Cutters	Pistol	3/4	6-5/16	
87ACF*	7″ Diagonal Cutter	Bowed	13/16	7-3/8	•
786CF*	6″ Diagonal Flush-Cut Pliers	Bowed	3/4	6-5/18	
312CF*	Heavy-Duty Diagonal Cutter	Long Handle	0.80	11	•
808CF*	7″ Long Mini Diagonal Cutter	Bowed	9/16	6-15/16	•
388ACF*	8-5/16″ High-Leverage Diagonal Cutter	Bowed	1-1/16	8-5/16	•

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

⚠WARNING

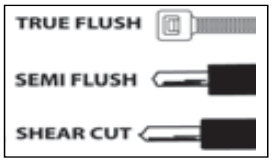
- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

CUTTERS

True Flush: Blades cut stranded wire ends and zip tie ends flat, allowing protruding ends to be trimmed flush

Semi-Flush: Ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required

Shear Cut: Ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life



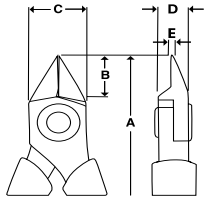


Cushion Throat Cutters

- Urethane insert in jaws captures clipped material, reducing the likelihood of work environment contamination
- Retention of wire clippings enhances worker safety by preventing projectile material from being scattered throughout the worksite
- Handles are designed for comfort and deliver the leverage needed to tackle the most demanding jobs
- Quality forged steel ensures tools will provide years of service
- Fluorescent urethane formula helps reduce the potential of leaving the tool behind—just shine a UV light on the head of the cutter to activate its illuminating effect

Stock No.	Description	Handle Style	Jaw Length, inches (B)	Overall Length, inches (C)
84CFCTA	Cushion Throat Diagonal Cutter	Bowed	3/8	4-3/4
86ACFCT	Cushion Throat Diagonal Cutter	Bowed	3/4	6-5/16
P87150CT	Cushion Throat 5″ Oval Cutter—True Flush Cut	Bowed	17/32	5-3/16
87ACFCT	7″ VectorEdge Diagonal Cutter	Bowed	13/16	7-3/8
388ACFCT	8″ High-Leverage Cushion Throat Diagonal Cutters	Bowed	1-1/16	8-5/16
786CFCT	6″ Diagonal Flush-Cut Cutter with Cushion Throat	Bowed	3/4	6-5/18





P-Series Cutting Pliers

- Diagonal cutting pliers with a tapered head for reaching tight spaces without compromising cutting performance
- Cutting-edge geometry strikes a balance between sturdiness and sharpness, resulting in clean cuts that can last for as long as 200,000 cycles
- Heat-treated frame provides exceptional tool life
- Hot-forged technology aligns grain structure of proprietary alloyed steel to follow the profile of the shanks, giving the pliers extraordinary tenacity and toughness
- Precision grinding in the joint greatly reduces friction, providing smooth operation without lubrication
- Screw joint minimizes friction and maximizes jaw alignment
- Internal torsion spring returns the pliers to the opening position, keeping the tools always ready to work while minimizing hand fatigue
- Staking of the screw threads helps to stop the screw from backing out

Stock No.	Dimension A, mm	Dimension B, mm	Dimension C, mm	Dimension D, mm	Dimension E, mm	Wire Diameter, mm	Cut Type	Head Style	PLP300A Set Contains:
P86145A	109	10.6	12.5	13.1	13.2	0.30–1.25	Semi-Flush	End	
P88145A	115	11.7	12.5	6	0.8	0.30–1.60	Semi-Flush	Tapered	
P88145RA	115	11.7	12.5	6	0.8	0.30–1.25	Semi-Flush	T&R	
P88150RA	130	13.8	15.8	8	1.1	0.40–1.60	Semi-Flush	T&R	
P87150A†	130	13.8	15.8	8	1.1	.40–1.60	True Flush	Oval	•

†Use on plastic and zip ties


P90050A


P93050A


P91045A


P91055A

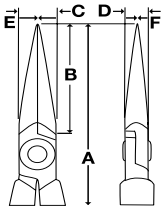

P92050A


P92650A

P-Series Precision Pliers

- Hot-forged technology aligns the grain structure of proprietary alloyed steel to follow the profile of the shanks, giving the pliers extraordinary tenacity and toughness
- Heat-treated frame provides exceptional tool life
- Precision grinding in the joint greatly reduces friction, providing smooth operation without lubrication
- Screw joint minimizes friction and maximizes jaw alignment
- Internal torsion spring returns the pliers to the opening position, keeping the tools always ready to work while minimizing hand fatigue
- Staking of the screw threads helps to stop the screw from backing out


PLP300A



PLP300A*

Stock No.	Description	A, Length, inches (mm)	B, Jaw Flat Length, inches (mm)	C, Head Width, inches (mm)	D, Head Thickness, inches (mm)	E, Tip Width, inches (mm)	Dimension F, Tip Thickness, inches (mm)	Jaw Style	Head Style	
P90050A	5″ Round Nose Pliers	5 (127)	1 (26)	31/64 (12.5)	19/64 (7.6)	7/64 (2.9)	3/64 (1.4)	Smooth	—	
P93050A	5″ Flat Nose Pliers	5-5/64 (129)	1-3/32 (28)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Smooth	—	
P91045A*	4-1/2″ Snipe Nose Pliers	4-49/64 (121)	25/32 (20)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Serrated	Short	•
P91055A	5-1/2″ Snipe Nose Pliers	5-21/32 (144)	1-45/64 (43)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Serrated	Long	
P92050A*	5″ Needle Nose Pliers	5-7/64 (130)	1-7/32 (31)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Serrated	Short	
P92055A	5-1/2″ Needle Nose Pliers	5-45/64 (145)	1-47/64 (44)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Serrated	Long	•
P92650A	5″ 90° Bent Needle Nose Pliers	4-29/32 (125)	1-7/32 (31)	31/64 (12.5)	19/64 (7.6)	5/64 (1.8)	5/64 (1.8)	Serrated	90° Bent	

Sets include storage case.

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

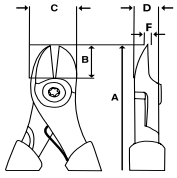

EPC160


HL138ACP


5CF

Pliers/Special Application

Stock No.	Description	A	B	C	D	F
EPC160	Plastic and Cable Cutters	1/4	3/4 (17.7)	27/32 (21.5)	13/32 (9.9)	1/16 (1.4)
HL138ACP*	High-Leverage Combination	7-7/8	1-1/16	1-3/16 (30.2)	1/2 (12.5)	—
5CF*	5″ Ignition Pliers	4-3/4	1/4	7/16 (11.1)	1/4 (6.4)	5/64 (2.0)



EPC160 Plastic and Cable Cutters

- Manufactured from 1% carbon/chrome ball bearing steel to provide strength without brittleness
- Adjustable screw joint minimizes friction and maximizes cutting edge alignment
- Precision hardened cutting edge provides superior durability
- The unique jaw design makes it ideal for cutting plastic, rubber and vinyl (do not use for cutting metal)

HL138ACP 7-7/8″ Combination Pliers

- Reduces effort for cutting and gripping by up to 75%
- 1-1/16″ jaw opening

5CF 5″ Ignition Pliers

- Ideal for extremely small work
- Serrated jaws
- Bowed and cushioned plastisol handles are designed for comfort and leverage to reduce fatigue
- 4-3/4″ in length

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

SPECIAL PURPOSE


497ACF

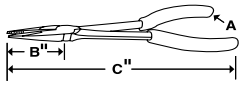

490CF


612AEP


912AEP

Special Purpose Pliers

- Bent Nose—Angled jaws for better access to hard-to-reach areas
- Pistol Grip—Angled handle for access to hard-to-reach areas
- Duck Bill—Specially designed for electronics work



Stock No.	Description	B	C	Talon Grip™
497ACF*	7″ 90° Angle Jaw Needle Nose Pliers	1-5/8	7-1/4	•
490CF	9-1/2″ 90° Bent Needle Nose Pliers	1-5/8	9-5/8	•
612AEP	Pistol Grip Needle Nose Pliers	1-3/8	9-3/4	
912AEP	Pistol Grip Needle Nose Pliers	2-1/4	10-5/8	

Colors Available

Red (*) Orange (O) Green (G)

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


196ACF

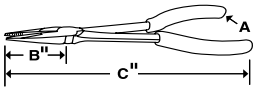

94CF


597ACF


496CF

Needle Nose

- Talon Grip™ diamond-serrated jaws provide precise gripping strength and increased pulling power; jaw tips are perfectly aligned
- Rounded jaw edges minimize nicks to the wire when making loops or bends
- Jaw tips are perfectly aligned and feature machined teeth for precise gripping strength with positive control
- Longer contoured handle with joint location provides higher leverage and increased comfort



Stock No.	Description	B	C	PL3935CF Set Contains: *	Talon Grip™
196ACF*†	8″ Long Nose Pliers with Cutter	2-1/4	8		•
196ANCF*†	8″ Long Nose Pliers with Cutter and Side Fastener	2-1/4	8		•
597ACF	8″ Pin Gripping Pliers	3-3/16	8-7/8		•
94CF*	5″ Needle Nose Pliers	1-1/8	5-13/32		•
95ACF*	6″ Needle Nose Pliers	1-13/32	6-1/32		•
96ACF*	8″ Needle Nose Pliers	2-1/8	7-29/32		•
97ACF*	9″ Needle Nose Pliers	3-1/2	8-13/16		•
495CF*	6″ 35° Bent Needle Nose Pliers	1-13/32	6 -1/32	•	•
496CF*	7″ 35° Bent Needle Nose Pliers	2	7-13/16	•	•
9735CF*	8″ 35° Bent Needle Nose Pliers	3-11/32	8-5/8	•	•

† Rated to cut .049" dia. music wire

Colors Available

Red (*) Orange (O) Green (G)

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


61CF


408CF

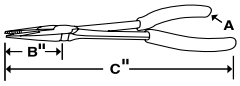

908CF


609CF


PL308CF

Electronic Service

- Talon Grip™ diamond serrated jaws provide a better grip, supplying up to 57% increase in pulling power
- Compact needle nose jaws and longer reach provide increased access in tight working conditions
- The 35° bent nose design, coupled with more compact jaws and longer reach, provide increased access in tight and awkward working conditions (408CF)
- Ideal for holding and twisting safety wire in aviation, marine and FOD applications (609CF)
- Cushioned plastic handles are designed for comfort and leverage to reduce fatigue
- Manufactured from special high-alloy steel for durability and strength



Stock No.	Description	B	C	Set Contains: PL308CF	Talon Grip™
61CF	8″ Duck Bill Pliers	1-29/64	8-3/8		•
408CF	9″ Stork Bent Needle Nose Pliers	1-5/8	8-1/2	•	•
908CF	9″ Stork Needle Nose Pliers	1-45/64	8-5/8	•	•
609CF	9″ Stork Duck Bill Pliers	1-3/8	9-21/64	•	•

Colors Available

Red Orange Green
O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


415CP

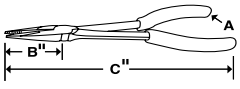

411CF


911ACF


915CP

Long Reach

- Long, slim jaws and flush riveted joints for increased reach into recessed areas
- Ideal for electric and electronic work, holding pins or small components



Stock No.	Description	B	C	Talon Grip™
415CP	15″ Long Reach 35° Bent Needle Nose Pliers	2-7/8	14-3/8	
411CF	11″ Long Reach 35° Bent Needle Nose Pliers	3	10-7/8	•
911ACF*	11″ Needle Nose Pliers	3-3/16	11	•
915CP	15″ Long Reach Needle Nose Pliers	3-3/16	14-1/2	

Colors Available

Red Orange Green
O G

* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Combination

- Talon Grip™: Diamond-serrated jaws mean better grip and up to a 57% increase in pulling power
- Precise: Smooth, clean cuts with less hand pressure; shear cutter and rounded jaw edges
- Durable: Cold-forged, natural steel finish with clear coating; special alloy steel means strength, durability and protection against corrosion
- Comfort: Vinyl grips provide comfort and control
- Accessibility: Patented three-position joint with adjustable jaw width means more opening options and a wider spread
- Leverage: Long, contoured handle provides comfort and increased leverage


49ACF


PL403A

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)	Talon Grip	Set Contains: PL403A
44ACF	Combination Slip Joint	4-1/2	15/64	•	•
46ACF†	Combination Slip Joint	6-7/16	23/64	•	•
47ACF†	Combination Slip Joint	8-1/4	7/16	•	•
49ACF†	Combination Slip Joint	9-1/4	1/2	•	

† Third position gives a wider jaw spread for pieces that are difficult to grasp

Colors Available

Red Orange Green
O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

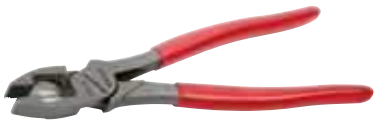
⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

LINEMAN'S/HEAVY-DUTY



57AHLP



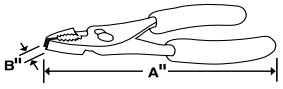
59AHLP



137ACF

Lineman's/Heavy-Duty

- Machined cutter heads for perfectly matched blades
- Induction-hardened head for extra strength and durability
- Gripper teeth behind the head can be a useful crushing area



Stock No.	Description	A	B
57AHLP*	7″ Lineman's Pliers	7-3/8	1/2
59AHLP	9″ Lineman's Pliers	9-1/4	1/2
137ACF*	8″ Heavy-Duty Combination Slip Joint Pliers	8-3/16	27/64

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

ADJUSTABLE JOINT



CHN410



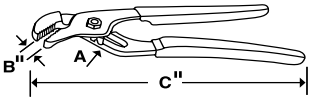


AWP404



Tongue and Groove

- Special tongue and groove design that assures nonslip jaw action
- Unique fastener system inhibits side-to-side jaw wobble for added strength and smoother operation



Stock No.	Description	A	B	C	Set Contains: AWP404
AWP45	Adjustable Joint Pliers	3	1/2	4-3/4	•
AWP65	Adjustable Joint Pliers	5	7/8	7	•
AWP120	Adjustable Joint Pliers	7	2-3/16	12-3/4	•
AWP160	Adjustable Joint Tongue and Groove Pliers	8	3-13/16	16-3/4	•
CHN410	Parrot Jaws Adjustable Joint Pliers (Blue-Point®)	5	1-1/2	10-1/8	

Set includes storage tray

Standard/Adjustable Joint

- Specially hardened jaw teeth provide long life and a solid grip on work objects
- Vinyl covered handles for a secure, comfortable grip



91ACP



CHN480

Stock No.	Description	A	B	C
91ACP*	Adjustable Joint Interlocking Channel Pliers (9-1/4″)	5	1-3/8	9-1/4
CHN480	Interlocking Channel Adjustable Joint Pliers (Blue-Point®)	11	5-1/2	20

Colors Available

Red Orange Green

* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS


LP5SLIM


LP7SLIM


LP6LN



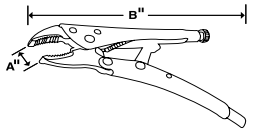
LP404


LP10WR


LP10GRV

A "V" groove houses round objects, preventing lateral movement.





LP Series

- Spring-loaded release lever allows quick "no-pinch" release
- Locking nut secures jaw opening for repeat jobs
- Larger jaw capacity to hold larger objects
- Jaws feature a greater surface area and broader teeth for more secure gripping

Stock No.	Description	Jaw Capacity, inches (A)	Length, inches (B)	Set Contains: LP404
LP5SLIM	Locking Pliers	1-5/32	5	
LP7SLIM	Locking Pliers	1-5/8	7	
LP5WR	Curved Jaw with Cutter Locking Pliers	1-5/32	5	•
LP6LN	Long Nose Locking Pliers	2-1/8	6	•
LP7WR	Curved Jaw with Cutter Locking Pliers	1-5/8	7	•
LP10WR	Curved Jaw with Cutter Locking Pliers	2-7/16	10	•
LP7R	Locking Pliers	1-5/8	7	
LP10R	Locking Pliers	2-7/16	10	
LP10LN	Locking Pliers	2-3/4	10	
LP10GRV	Grooved Jaw Locking Pliers	1-5/8	10	

LP5SLIM Locking Pliers

- Used for removal of socket-style sway bar links
- Thinner jaws fit between the stabilizer bar and stabilizer link to allow a socket to be used for nut removal
- LP7SLIM Applications: 2002-2004 Dodge® Caravans, Chrysler® Town and Country® and any other vehicles with non-greaseable sway bar links

LP10GRV Grooved Jaw Locking Pliers

- Longitudinal V-groove section provides three points of contact preventing lateral movement while working
- Specially tapered groove means the larger the work piece, the larger the groove section that holds it
- Convex tooth section of the mobile jaw pushes flat work pieces against the large, flat fixed jaw for tighter clamping
- Recessed area of the mobile jaw allows angled objects to be held and clears small obstacles
- Serrated milled teeth provide a positive grip on different shaped objects

Locking Pliers/Standard Grip (Blue-Point®)

- Made from high grade heat-treated steel alloys, the hardened precision ground jaws "lock" onto work pieces that are difficult to hold
- Adjusting screws ensure fine adjustments for precise gripping
- Soft grip series improves comfort while resisting damage from oil and grease

Stock No.	Description	Grip Style	Jaw Capacity, inches (A)	Length, inches (B)	Set Contains: BLP404	Set Contains: BSGLP404
BLP5	Curved Jaw	Standard	1.125	5	•	
BLP7	Curved Jaw	Standard	1.625	7	•	
BLP10	Curved Jaw	Standard	1.875	10	•	
BLP6LN	Long Nose	Standard	2.25	6	•	
BSGLP5	Curved Jaw	Soft	1.125	5		•
BSGLP7	Curved Jaw	Soft	1.625	7		•
BSGLP10	Curved Jaw	Soft	1.875	10		•
BSGLP6LN	Long Nose	Soft	2.25	6		•


BLP404


BSGLP404


BSGLP6LN

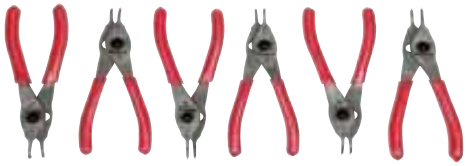

BLP7

⚠WARNING

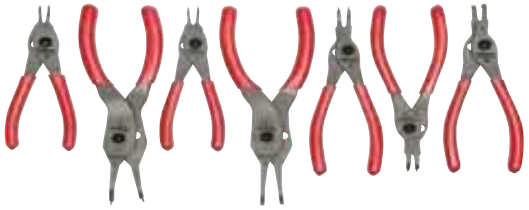
- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

RETAINING RING

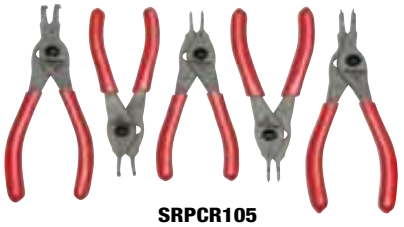




SRPCR112



SRPCR107



SRPCR105

Snap Ring Pliers

- Convert from internal to external rings with push-button quick-release design; up to 80% faster than the previous SRPC design
- Manufactured from special cold-forged steel with a higher alloy content for a higher degree of durability and strength
- Longer 45° and 90° jaws make it easier to access hard-to-reach retaining rings
- Natural steel finish has a tough, clear coating to help protect against corrosion
- Wide cushion grip provides more comfort and control

Stock No.	Style	Dimension A, Length, inches	Dimension B, Ring Size Range, inches	Dimension C, Jaw Angle	Dimension D, Tip Diameter, inches	Set Contains: SRPCR112†	SRPCR107	SRPCR105	SRPCR105ADD
SRPCR3800	Convertible	6-7/16	1/8–1	0°	.038	•	•	•	
SRPCR4700	Convertible	6-7/16	3/16–1-3/8	0°	.047	•	•	•	
SRPCR7000	Convertible	7-7/16	7/16–2	0°	.070	•	•	•	
SRPCR9000	Convertible	8-3/4	1-1/2–3-1/2	0°	.090	•			•
SRPCR3845	Convertible	6-7/16	1/8–1	45°	.038	•			•
SRPCR4745	Convertible	6-7/16	3/16–1-3/8	45°	.047	•			•
SRPCR7045	Convertible	7-7/16	7/16–2	45°	.070	•	•		
SRPCR9045	Convertible	8-3/4	1-1/2–3-1/2	45°	.090	•	•		
SRPCR3890	Convertible	6-7/16	1/8–1	90°	.038	•		•	•
SRPCR4790	Convertible	6-1/2	3/16–1-3/8	90°	.047	•			•
SRPCR7090	Convertible	7-1/2	7/16–2	90°	.070	•	•	•	
SRPCR9090	Convertible	8-3/4	1-1/2–3-1/2	90°	.090	•	•		

ASME®/ANSI® B107.500

Sets shown include storage tray.
†Set comes in foam and a plastic carrying case.

Colors Available

Red Orange O Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



PRH406

Fixed Tip/Convertible

Unique dial feature eliminates the need to take apart the pliers when changing from internal to external.

Stock No.	Length, inches	Ring Size Range, inches	Jaw Angle	Tip Diameter, inches	Set Contains: PRH406
PRH12	5-3/4	1/8–1	18°	.038	•
PRH32	6	5/16–1-3/8	18°	.047	•
PRH34	7-1/2	7/16–2	18°	.070	•
PRH129	5-3/4	1/8–1	90°	.038	•
PRH329	5-7/8	5/16–1-3/8	90°	.047	•
PRH349	7-1/2	7/16–2	90°	.070	•

ASME®/ANSI® B107.500

Set includes storage tray.



PR36



PRH502A



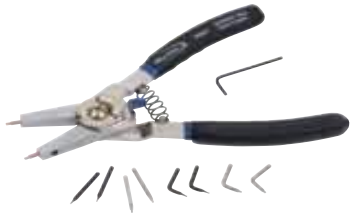
PRH503



PR50A



PR215



PRH57A



PR7A



PR54



PR8A

Interchangeable Tip

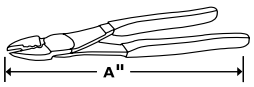
Internal	External	Length, inches	Ring Size Range, inches	Tip Kit Included	Tip Sizes Included, inches (degree)	Optional Kits	Optional Tip Sizes	Set Contains: PR36	PRH502A†	PRH503†	PR50A	PR215†
PR37	—	6-1/4	3/8–2	**PR5 (For PR36 only)**	2 pair each in PR36 set: .047 (0°), .070 (0°), .047 (45°), .038 (90°)	**PR5**	.047″ 0°, .070″ 0°, .047″ 45°, .038″ 90°	•				
—	**PR38**	6-1/4	1/4–2	—	None	**PR5**	.047″ 0°, .070″ 0°, .047″ 45°, .038″ 90°	•				
PRH56A‡	—	6-3/8	Internal 1/4–1; External 1/8–1	**PRC56A-1**	1 pair each: .023 (0°), .036 (0°), .047 (0°), .036 (90°), .047 (90°)	—	—		•	•		
PRC65A‡	—	10	Internal 1-13/64–4; External 1-1/3–4	**PRC65A-1**	1 pair each: .090, .108, .120 (15° and 90°)	—	—			•		
PRH57A‡	—	8	Internal 3/8–2; External 1/4–2	**PRC57A-1**	1 pair each: .036 (0°), .047 (0°), .070 (0°), .036 (90°), .047 (90°)	—	—		•	•		
PR51	—	9-1/2	2-7/16–4	**PR502**	.108 (15°), .108 (45°)	**PR501–PR508**	.108″, 0°				•	
—	**PR52**	9-1/2	1-1/2–3-11/32	**PR507**	.120 (45°), .120 (90°)	**PR501–PR508**	.120″, 0°				•	
PR7A‡		15-11/16	3-1/16–6-1/4	**PR7A-1**	.120 (0°)	**PR7A-2**	.120″, 45°					•
	PR8A‡	15-11/16	3-1/16–6-1/4	**PR7A-1**	.120 (0°)	**PR7A-2**	.120″, 45°					•
PR54		29	6-1/2–10	**PR54-1**	.150 (0°)	**PR54-2**	.150″, 45°					
—	**PR53**	19	6-1/2–10	**PR53-1**	.170 (0°)	**PR53-2, PR53-3**	.170″ (45°), .170″ (90°)					

PR36 Set includes PR5 Tip Kit. Individual PR37 and PR38 units do not include tips and require PR5 Tip Kit.
PRH503-1 Replacement Case for PRH503

⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

WIRE TOOLS



Crimpers

Stock No.	Description	Length, inches (A)	Crimps
29ACF	Cold-Forged Wire Terminal Crimping Tool	9-3/8	10, 12, 14, 16, 18, 20, 22 AWG Insulated and Non-Insulated



29ACF

Colors Available



O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

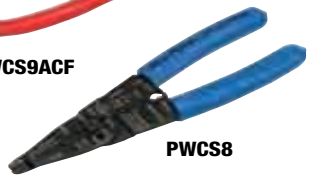
29ACF Cold-Forged Wire Terminal Crimping Tool
- Precision-machined joint and cutting edges, a hardened wire cutter with a knife-to-anvil design, never needs sharpening
- Jaws are designed 20% smaller for better access in confined spaces
- Cold-formed heat treated rivet for smooth action and long life
- For insulated and non-insulated terminals and connectors
- Compact crimper doubles terminal pull-off force
- Crimping dies are laser marked for insulated and bare solderless terminals
- Cushion grips for comfort and control
- Crimps 10–22 AWG wire



PWCSS7ACF



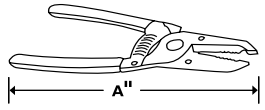
PWCS9ACF



PWCS8



PLWIREKIT



Wire Strippers/Cutters/Crimpers

Stock No.	Description	Dimension A, Length, inches	Strips AWG Sizes
PWCS7ACF*	7″ Wire Stripper/Cutter/Crimper	6-3/4	12, 14, 16, 18 20
PWCSS7ACF*	7″ Wire Stripper/Crimper/Cutter	6-3/4	14–24 AWG
PWCS9ACF*	9″ Wire Stripper/Cutter/Crimper/Bolt Cutter	8-3/4	AWG20–AWG10 (stranded wire), AWG16–AWG8 (solid wire)
PWCS8	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	8-1/4	10–22

PLWIREKIT* 3 pc Wire Service Pliers Set
- Includes 786CF, 29ACF and PWCS7ACF*

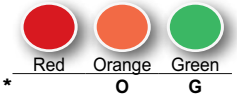
PWCS8 Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)
- Soft grip handles deliver optimal comfort and control during high-strength gripping
- Corrosion-resistant finish
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life

PWCS7ACF* 7″ Wire Stripper/Cutter/Crimper
- Unique smaller wire stripper/crimper that strips 12-, 14-, 16-, 18- and 20-gauge insulated wire
- Crimps insulated and bare wire connectors
- Wire cutter in the jaw and handle
- Ideally suited for work in confined areas, such as under the dash or within electrical service enclosures

PWCS9ACF* 9″ Wire Stripper/Cutter/Crimper/ Bolt Cutter
- Cold forged from special alloy steel and induction heat treated for superior performance and durability
- Pliers tip for grabbing or pulling wire
- Crimps both insulated and non-insulated terminals
- Includes shears in throat area for general cutting applications
- Cushion grips provide comfort, control and power
- Cuts #6 and #8 soft bolts

PWCSS7ACF* 7″ Wire Stripper/Crimper/Cutter
- Strong, serrated gripping nose for bending, pulling and shaping of wire or connectors
- Precision-ground stripping holes make removing wire insulation a snap
- Crimps insulated and bare wire connectors
- Wire cutter in two places: in jaws and near the handle
- Compact design for working in confined areas
- Cold-forged steel for better performance/longer life
- Wire crimper placed in front of the pivot point for crimping in tight spaces
- Natural steel finish has a tough, protective clear coating to guard against corrosion
- Cushioned grips provide comfort and control
- For use on 14–24 AWG wire
- Cutting wire and crimping terminals for: speaker wire, wire for navigation and entertainment systems, data wires that connect to computers, body control modules, power windows and door locks, dash gauges and running lights for boats

Colors Available



* O G

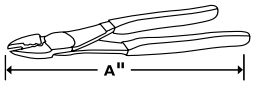
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Crimper (Blue-Point®)

Stock No.	Description	Length, inches (A)	Crimps
PWC47	Computer/Sensor Terminal Crimping Tool	8	Open barrel and Wether-Pac terminals 14–24 AWG



PWC47





PWC34

Modular Connector

PWC34 Crimping Tool (Blue-Point®)
- Double-compound action with ratchet control for almost effortless operation
- Used with insulated connectors on 10–22 gauge wire
- Easy, efficient, single-squeeze crimping of modular connectors

Ratcheting Crimpers

PWC48 Ratcheting Crimper Kit (Blue-Point®)
- Versatile quick-change jaw system allows work on many kinds of terminals
- Exclusive patented quick installation for easy jaw change, no tools required
- Jaws are precision investment casting made of AISI 4140 alloy steel
- Easy adjustment for changing the pressure of the crimp

PWC48-1 Crimping Jaw Set (Blue-Point®)
- Jaw Set A
- Use on insulated 10–22 connectors

PWC48-2 Crimping Jaw Set (Blue-Point®)
- Jaw Set B
- Use on non-insulated 8–20 connectors

PWC48-3 Crimping Jaw Set (Blue-Point®)
- Jaw Set C
- Use on open barrel 10–20 connectors

PWC48-4 Crimping Jaw Set (Blue-Point®)
- Jaw Set H
- Use on open barrel D-Sub connectors

PWC48NJ Ratcheting Crimper (Blue-Point®)
- Ratcheting crimper without jaw set



PWC48-4



PWC48NJ



PWC48

Miscellaneous

PWC39 Cable Slitter (Blue-Point®)
- Slits and removes insulation on single or multiple conductor cables up to 1.25″ OD
- Adjustable blade allows for varying insulation thickness up to .187″
- Lightweight fiberglass-reinforced nylon body
- Extra blade in the handle
- 5-1/4″ long

PWC39-1 Replacement Blade (Blue-Point®)
- Replacement blade for PWC39

PWC52A Connector Pliers (Blue-Point®)
- For gripping round and irregularly shaped objects, such as cannon plugs or plated pipe
- Range is 3/4–2-1/2″
- 9-3/4″ long

PWC52A2L Replaceable Hinge Bolt (Blue-Point®)
- For PWC52A

PWC52-K Vinyl Jaw Inserts (Blue-Point®)
- For PWC52A (set of two)

PWC80A Cable Cutter (Blue-Point®)
- For cutting battery cables and other soft metal cables
- Vinyl-covered handles
- 7-1/2″ long



PWC39



PWC52A



PWC80A

⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

WIRE TOOLS (Blue-Point®)

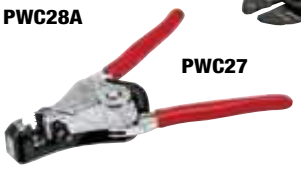

PWC12A


PWC28A


PWC13


PWC14


PWC16A


PWC27


PWC42


PWC24

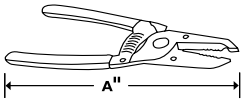

PWC6


PWC9


PWC19


PWCS8


PWC22B



Strippers/Cutters/Crimpers

Stock No.	Description	Length, inches (A)	Strips AWG Sizes	Strips Metric Sizes, mm	Replacement Blades
PWC12A	Wire Stripper/Cutter/Crimper	9-1/2	10, 12, 14, 16, 18	10–18 Insulated and Non-Insulated 7–8 mm Ignition Terminals	—
PWC28A	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	8-1/4	10, 12, 14, 16, 18, 20, 22 Stranded, 8, 10, 12, 14, 16, 18 Solid	10–22 Non-Insulated Terminals and Crimp Sleeves	—
PWC13	Wire Stripper/Cutter/Crimper/Bolt Cutter	7-1/2	12, 14, 16	10–22 Insulated 7–8 mm Ignition Terminals	—
PWC14	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	8-3/4	10, 12, 14, 16, 18, 20, 22	10–22 Insulated and Non-Insulated 7–8 mm Ignition Terminals	—
PWC16A	Wire Stripper/Cutter (Blue-Point®)	5	10–18	Adjustable	—
PWC27	Stripmaster® Automatic Wire Stripper (Blue-Point®)	6-1/4	10, 12, 14, 16, 18, 20, 22	—	**PWC27-7**
PWC42	Stripmaster® Lite Automatic Wire Stripper (Blue-Point®)	5-1/2	16, 18, 20, 22	1.5, 1.0, .5, .42	**PWC42-17**
PWC24	Stripmaster® Custom Automatic Wire Stripper (Blue-Point®)	6-1/4	16, 18, 20, 22, 24, 26	—	**PWC24-1**
PWC6	Wire Stripper/Cutter (Blue-Point®)	6	10, 12, 14, 16, 18, 20	2.6, 2.0, 1.6, 1.3, 1.0, .80	—
PWCS8	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	8-1/4	10–22	7–8 mm Ignition Terminals	—
PWC9	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	9-1/2	10, 12, 14, 16, 18, 20, 22 (2.6, 2.0, 1.6, 1.3, 1.0, .80 mm)	10–22 Insulated and Non-Insulated 7–8 mm Ignition Terminals	—
PWC19	Micro Shear Wire Cutter (Blue-Point®)	5-1/8	Up to 20	Up to .80	—
PWC22B	Automatic Wire Stripper/Cutter (Blue-Point®)	7-1/4	12, 14, 16, 18, 20	.02–6 Stranded and Solid Insulated Wire	—

PLIERS AND CUTTERS (Blue-Point®)


BDGPL800

Pliers and Cutters/Vinyl Grips (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGPL800
BDGAWP100	Adjustable Joint Pliers	1-3/4	10	•
BDG48CP	Slip Joint Pliers	1-27/32	8	•
BDG98CP	Long Needle Nose Pliers	3	8	•
BDG9845CP	45° Bent Needle Nose Pliers	2-13/16	7-3/4	•
BDG57CP	Lineman's	1-1/4	7-1/2	•
BDGEC7	End Cutter	7/16	7	•
BDG86CP	Diagonal Cutter	21/32	6-1/2	•
BDG88CP	Diagonal Cutter	15/16	8-1/8	•


BPL501

Pliers and Cutters (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BPL501
B48CP	Slip Joint Pliers	2-3/32	8-13/32	•
B58HLP	Lineman's Pliers	1-1/2	8-31/32	•
B87CP	Diagonal Cutters	31/32	6-19/32	•
B96CP	Needle Nose Pliers	2-1/32	6-5/16	•
BAWP100	Adjustable Joint Pliers	1-3/8	10-5/32	•

Miniature Pliers and Cutters (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BMPL1000
B45CMP	Combination Pliers	1	4-11/16	•
B65CMP	Duck Bill Pliers	1-5/32	4-7/8	•
B75CMP	Round Nose Pliers	1-5/32	5	•
B85CMP	Diagonal Cutter	21/32	4-11/32	•
B85CTMP	Thin Diagonal Cutter	23/32	4-5/8	•
B945CMP	B945CMP	1	4-11/16	•
B95CLMP	Long Needle Nose Pliers	2-1/16	5-25/32	•
B95CMP	Long Nose Pliers	1-1/8	4-7/8	•
B960CMP	60° Bent Nose Pliers	15/16	4-11/16	•
BMPEC5	End Cutter	5/16	4-1/32	•

Set includes storage tray.



BMPL1000

Miniature Pliers and Cutters/Vinyl Grips

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGMPL845	BDGCPL700
BDG45CMP	Miniature Combination Pliers (Blue-Point®)	1	4-11/16	•	•
BDG65CMP	Miniature Duckbill Pliers (Blue-Point®)	1-5/32	4-7/8	•	
BDG85CMP	Miniature Diagonal Cutter (Blue-Point®)	21/32	4-11/32	•	
BDG85CTMP	Miniature Thin Diagonal Cutter (Blue-Point®)	23/32	4-5/8	•	•
BDG945CMP	Miniature 45° Bent Nose Pliers (Blue-Point®)	1	4-11/16	•	•
BDG95CLMP	Miniature Long Needle Nose Pliers (Blue-Point®)	2-1/16	5-25/32	•	•
BDG95CMP	Miniature Long Nose Pliers (Blue-Point®)	1-1/8	4-7/8	•	
BDGMPEC5	Miniature End Cutter (Blue-Point®)	5/16	4-1/32	•	



BDGMPL845



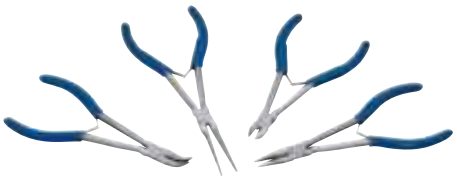
BDGCPL700

BDGMPL845 8 pc Miniature Pliers/Cutters Set (Blue-Point®)
- Includes (8) commonly used mini pliers for precision work in confined spaces
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life
- Nickel-chrome alloy finish resists rust and corrosion
- Laser-hardening process improves nickel-chrome finish by eliminating quenching oil residue from the hardening process
- Pliers feature a leaf-spring design for improved dexterity during precision work
- Cushioned vinyl grips offer comfort during extended use and clean up easily

BDGCPL700 7 pc Pliers and Cutters Set (Blue-Point®)
- Set includes: BDG48CP 8″ Slip Joint Pliers, BDG88CP 8-1/8″ Diagonal Cutters and BDG98CP 8″ Needle Nose Pliers, plus (3) Miniature Pliers and (1) Cutter to cover a large range of jobs
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life
- Nickel-chrome alloy finish resists rust and corrosion
- BDG98CP Needle Nose Pliers features a fastener-turning jaw and cutter
- Mini Pliers feature a leaf-spring design for improved dexterity during precision work
- Cushioned vinyl grips offer comfort during extended use and clean up easily

Long Reach Miniature Pliers (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGPL400LMP
BDG86LMP	Diagonal Cutting Pliers	3/4	5-1/2	•
BDG97LMP	Needle Nose Pliers	2-13/32	7	•
BDG9645LMP	45° Bent Nose Pliers	1-7/32	6	•
BDG96LMP	Long Nose Pliers	1-5/16	6	•



BDGPL400LMP

⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS AND CUTTERS (Blue-Point®)



BDGPL300HG

Extended Reach Hose Grip (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGPL300HG
BDGPL410HG	Small Hose Grip Pliers	2-1/4	11	•
BDGPL411HG	Medium Hose Grip Pliers	2-1/4	11	•
BDGPL412HG	Large Hose Grip Pliers	2	11	•



BDGPL300LR

Long Reach (Blue-Point®)

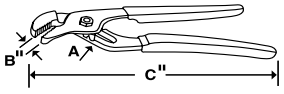
Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGPL300LR
BDG311CP	Diagonal Cutter	1-9/16	11	•
BDG91145CP	45° Bent Needle Nose Pliers	3-3/16	11	•
BDG911CP	Needle Nose Pliers	3-9/16	11	•



BDGPL200XLR

Extra-Long Reach (Blue-Point®)

Stock No.	Description	Jaw Length, inches	Length, inches	Set Contains: BDGPL200XLR
BDG91645CP	45° Bent Needle Nose Pliers	3-3/16	16	•
BDG916CP	Needle Nose Pliers	3-9/16	16	•





AP10

Adjustable Joint (Blue-Point®)

Stock No.	Description	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)
AP7	Adjustable Joint	9	1-1/2	7
AP10	Adjustable Joint	11	1-3/4	10
AP12	Adjustable Joint	13	2-1/16	12



BLPBC30

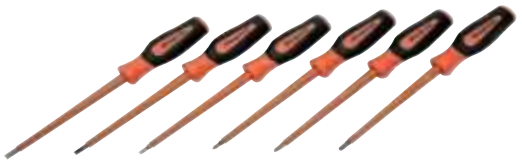
Heavy-Duty Bolt Cutters (Blue-Point®)

Drop-forged, alloy steel jaws are precision ground to provide a long-lasting cutting edge. Lightweight, tubular steel handles deliver extra leverage for tough jobs. Comfortable heavy-duty grips resist slippage.

Stock No.	Capacity (Soft Material), inches	Capacity (Hard Material), inches	Length, inches	Weight, lb (kg)	Replacement Jaw Assembly
BLPBC18	3/8	1/4	18	3.4 (1.55)	BLPBC18-1
BLPBC24	7/16	5/16	24	5.6 (2.55)	BLPBC24-1
BLPBC30	1/2	3/8	30	8.6 (3.9)	BLPBC30-1
BLPBC36	9/16	7/16	36	14.2 (6.45)	BLPBC36-1

Screwdrivers (Soft Grip Handle)

- Slim tip design accesses fasteners in tight areas faster and easier
- No conductive path to user
- No insulation to puncture, tear or wear through
- Exceeds ANSI®, ISO® and ASME® strength and performance requirements for standard steel tools
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC®60900
- US Patent #6,655,240 B1



CNSGDX60

Set Contains: CNSGDX60

	Stock No.	Tip Size	Shank Length, inches	Length, inches	
Flat Tip	CNSGDF66	3/16	6	11-1/2	•
	CNSGDF68	1/4	6	11-1/2	•
	CNSGDF69	9/32	6	11-1/2	•
Phillips® Tip	CNSGDP61	#1	6	11-1/2	•
	CNSGDP62	#2	6	11-1/2	•
	CNSGDP63	#3	6	11-1/2	•

Screwdrivers (Screwdriver Handle)

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- U.S. Patent 5,259,277



IHT60K



IHTS6



IHTP62

Set Contains: IHT60K

	Stock No.	Tip Size	Shank Length, inches	Length, inches	Replacement Bit	
Flat Tip	IHTS3	3/16	3-1/4	8-3/16	IHTS65	•
	IHTS37	7/32	3-1/4	8-3/16	IHTS37-5	
	IHTS38	1/4	3-1/4	8-3/16	IHTS685	
	IHTS6	1/4	6	11	IHTS685	•
	IHTS610	5/16	6	11	IHTS6105	
	IHTS9	5/16	9	14	IHTS6105	•
	IHTS912	3/8	9	14	IHTS912-5	
Phillips® Tip	IHTP31	#1	3-1/4	8-3/16	IHTP315	•
	IHTP62	#2	6	11	IHTP625	
	IHTP63	#3	6	11	IHTP635	•

Screw Starters and Screwdriver Shanks

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900



CSSC9



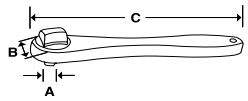
SGDMRC4-C6

Stock No.	Handle Type	Handle Diameter, inches	Tip Style	Tip Width Size	Length, inches
CSSC9	Composite	9/32	Flat Tip/PHILLIPS®	.032 x 9/32″, #2	9
SGDMRC4-C6	Composite Magnetic Bit Holder	3/8	—	—	7-1/4

⚠WARNING

- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Do not use damaged nonconductive tools
- Read safety precautions on pages W1 to W4

NON-CONDUCTIVE COMPOSITE TOOLS



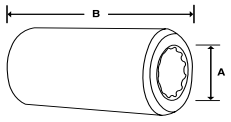


CFS949A

Ratchets

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900

Stock No.	Square Drive, inches (A)	Head Width, inches (B)	Length, inches (C)
CFS949A	3/8	1-19/32	8-3/4
CSS949A	1/2	1-19/32	8-3/4





207CFDSY



IHT208K

Sockets, mm, 12-Point

11	12	Outside Diameter, inches (A)	Length, inches (B)	Set Contains: 207CFDSY
1/4	CFDS8B	15/16	1-3/4	
5/16	CFDS10B	15/16	1-3/4	
3/8	CFDS12B	1	1-3/4	•
7/16	CFDS14B	1	1-3/4	•
1/2	CFDS16B	1-3/16	2	•
9/16	CFDS18B	1-3/16	2	•
5/8	CFDS20B	1-3/16	2	•
11/16	CFDS22B	1-3/8	2-1/4	•
3/4	CFDS24B	1-3/8	2-1/4	•

IHT208K Non-Conductive Composite Ratchet and Socket Set

- Includes (8) CFDS12B–CFDS24B sockets (3/8–3/4″) plus CFS949A ratchet in a C0800 kit bag



CFDSM15B

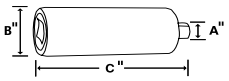
Sockets, mm, 12-Point

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® #60900

mm	Stock No.	Outside Diameter, mm (A)	Length, mm (B)
10	CFDSM10B	25.1	44.9
12	CFDSM12B	29.6	51.2
13	CFDSM13B	29.6	51.2
14	CFDSM14B	29.6	51.2
15	CFDSM15B	29.6	51.2
16	CFDSM16B	33.5	57.4
17	CFDSM17B	33.5	57.4
18	CFDSM18B	33.5	57.4
19	CFDSM19B	33.5	57.4

Extensions

Stock No.	Square Drive, inches (A)	Outside Diameter, inches (B)	Length, inches (C)
CFX3	3/8	1	3
CFX6	3/8	2	6
CFX12	3/8	2	12
CSX5	1/2	1-5/16	5-21/32
CSX10	1/2	1-5/16	10-21/32

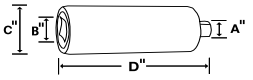




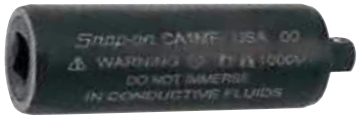
CFX6

Adaptors

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Only Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900



Stock No.	A	B	C	D
CA1MF	3/8	1/2	1-5/16	3-25/32
CA2A	1/2	3/8	1	3-7/8



CA1MF

CFSSB8 3/8″ Drive Non-Conductive Composite Universal Bit Holder

- Composite (insulating) universal bit socket for holding 1/4″ bits
- 1″ O.D.; 1-3/4″ long
- No conductive path to user
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900 ASTM® standards for insulating hand tools



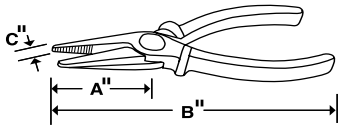
CFSSB8



C59AHLP



C97CP



Pliers

- Non-conductive needle nose pliers feature all composite jaw and handle
- Spring-loaded joint return the pliers to a comfortable working position
- Durable jaw teeth aid in gripping and twisting
- Integral thumb guard for user protection
- Non-conductive lineman's pliers has the same quality as the standard lineman's pliers for performance and durability
- Non-conductive handles are soft grip for comfort and control
- Each tool is individually tested to ensure protection up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC®60900 ASTM® standards for insulating hand tools

Stock No.	Description	Jaw Length, inches (A)	Length, inches (B)	Tip Width, inches (C)
C59AHLP	Lineman's Pliers	1-13/32	10	5/8
C97CP	Needle Nose Pliers	2	8-1/2	5/32

⚠WARNING

- Do not use damaged nonconductive tools
- Do not use "cheater bars" on handles
- Do not use with impact drivers
- Read safety precautions on page W1 to W4

NONCONDUCTIVE COMPOSITE TOOLS

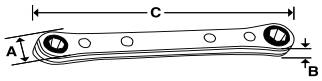

CSN24B

Breaker Bar

- Features the comfort and control of a Snap-on® screwdriver-style handle
- UL® listed
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Meets IEC® 60900 and ASTM® 1505 standards for insulating hand tools
- Exceeds ASME®/ANSI® B107.10M strength requirements for standard steel tools

Stock No.	Description	Head Width, inches	Length, inches	Head Diameter, inches
CSN24B	1/2″ Drive, 24-1/2″ Non-Conductive Composite Breaker Bar	1-1/8	24-1/2	1


CRB1824

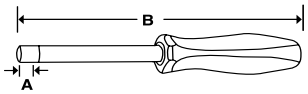


Ratcheting Box Wrench

- UL® listed
- Individually tested to protect up to 1,000 V AC and 1,500 V DC
- All tools meet UL®, IEC®, ASME® and ASTM® specs

Stock No.		Finish	Head Diameter, inches (A)	Head Depth, inches (B)	Length, inches (C)
CRB1824	9/16–3/4	Composite	1-9/16–1-13/16	5/8–5/8	9-1/16


107CNDD



Nut Drivers

- Snap-on® non-conductive composite nut drivers have the 6-point Flank Drive® wrenching system for greater turning power with less fastener damage
- Nut drivers feature narrow, non-conductive composite shanks for greater access and a full 5″ bolt clearance depth
- Screwdriver-style handles provide maximum comfort and control
- Handles are color coded for easy size reference
- Sizes are stamped on the handle crown for better visibility when wearing a tool pouch
- Each tool is individually tested to ensure protection up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC®60900 ASTM® standards for insulating hand tools
- US Patent #6,427,563

Stock No.		Bolt Clearance Diameter, inches (A)	Length, inches (B)	Set Contains: 107CNDD
CNDD106	3/16	5/32	7-5/8	•
CNDD107	7/32	5/32	7-5/8	•
CNDD108	1/4	5/32	7-5/8	•
CNDD110	5/16	5/32	7-5/8	•
CNDD112	3/8	11/32	8-3/8	•
CNDD114	7/16	11/32	8-17/32	•
CNDD116	1/2	11/32	9-1/16	•



PUNCHES, CHISELS, HAMMERS

PROVIDING THE ULTIMATE IN FINESSE, POWER AND RELIABILITY, OUR HAMMERS, PUNCHES AND CHISELS ARE MADE FROM SPECIAL ENERGY-ABSORBING MATERIAL FOR DELIVERING POWERFUL BLOWS WITHOUT PUNISHING YOUR HANDS AND ARMS. AND WITH A WIDE SELECTION IN BOTH HARD AND SOFT GRIPS, YOU'LL ALWAYS FIND THE RIGHT TOOL FOR ANY JOB.

MADE TO HAMMER MEDIOCRITY.

We offer the industry's highest quality and largest range of striking tools. Heat-treated steel and machined heads that direct the striking force to the center of the head provide max strength and performance in our punches and chisels. Our dead blow, ball peen and standard hammers feature a free-flowing shot that improves dead blow action and delivers concentrated blows while reducing rebound. Their composite handles also reduce vibration, prevent slippage and withstand the harshest shop environments.

PUNCHES AND CHISELS

Punches and Chisels

The anvil end on heads of Snap-on® punches and chisels are machined to a modified parabolic curve. This design directs the striking force to the center of the tool head to allow slow metal displacement. The parabolic curve controls mushrooming to reduce chipping and splitting. Heads should be redressed to their original shape with hand files as necessary. The tough alloy steel is machined and differentially heat treated for optimum performance. The hardness of the striking head is reduced to help toughness and add qualities that result in a slower mushrooming of the striking surface.

Soft Grip Punches and Chisels

- Ergonomic soft grip handle provides a powerful grip, improves the thermal sensation in cold work environments and reduces strike vibration
- Semispherical striking area controls mushrooming to help reduce chipping and splitting
- Cutting edges on chisels are hand ground to consistently produce a quality edge
- Black oxide coated



PPCSG710

Stock No.	Description	Length, inches	Point/ Edge, inches	Set Contains: PPCSG710
PCSG812	Flat Chisel	6-1/8	3/8	•
PCSG816	Flat Chisel	6-1/8	1/2	•
PCSG820	Flat Chisel	6-1/8	5/8	•
PPSG103	Pin Punch	6-1/8	3/32	•
PPSG105	Pin Punch	6-1/2	5/32	•
PPSG106	Pin Punch	6-1/2	3/16	•
PPSG203	Starter Punch	6-1/8	3/32	•
PPSG205	Starter Punch	6-1/8	5/32	•
PPSG206	Starter Punch	6-1/8	3/16	•
PPSG4	Center Punch	6-1/8	3/16	•

- Feature a comfortable yet extremely durable split-proof composite handle that provides a non-slip surface and safety shoulder to prevent contacting the metal blade
- Manufactured from special alloy steel that is differentially heat treated to increase durability
- Forged blade is precision ground and honed for strength and blade edge maintenance
- Designed for use with steel and steel-faced hammers
- Chisels are intended for woodwork applications or scraping applications



CHSL400R

Stock No.	Description	Tip Width, inches (mm)	Set Contains: CHSL400
CHSL25	Striking Chisel	1/4 (6.35)	•
CHSL50	Striking Chisel	1/2 (12.7)	•
CHSL75	Striking Chisel	3/4 (19.05)	•
CHSL100	Striking Chisel	1 (25.4)	•

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



PPC704BK

Oval Bearing Race Punches

High alloy steel makes these tools ideal for stubborn bearing races.

Stock No.	Description	Set Contains: PPC704BK
PPC10LB	10″ Oval Bearing Race Punch	•
PPC14LB	14″ Oval Bearing Race Punch	•
PPC20LB	20″ Oval Bearing Race Punch	•
PPC6LB	6″ Oval Bearing Race Punch	•



GA1

Bushing Cutter

GA1 Bushing Cutter (Blue-Point®)

- Made of 1/2″ octagonal stock with a 7/16 x 1/8″ bit
- Curved bit pushes material away from work
- 7-1/4″ long



YA879A



YA900



PGH8A

Gasket Punch Set

PGH8A‡ 11 pc Gasket Punch Set (Blue-Point®)

- Cut holes in gaskets and other soft materials
- Includes 5-3/8″ long mandrel and (10) punches (1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8 and 1″)
- Includes storage case

Automatic Centering Punches

YA879A Heavy-Duty Automatic Center Punch (Blue-Point®)

- Single-hand operation
- Design eliminates need for striking with hammer
- Adjustable spring tension cap
- Hardened-steel point is replaceable
- 1/2″ diameter

YA900 4-3/4″ Automatic Center Punch (Blue-Point®)

- Strikes blow when pressure is applied, no hammer needed
- Cap adjusts force of blow
- 7/16″ diameter
- 4-3/4″ long

	Stock No.	Hex Size, inches	Point/ Edge, inches	Length, inches	Set Contains: PPC250BK	PPC210BK	PPC715BK	PPC710BK	PPSD120BK	PPC100AK	PPCD70BK	PPCM60BK	PPC50AK	PPCM60BK
Punch and Chisel Accessories 	**PPC1A**	N/A	N/A	2-5/8	•	•	•	•						
	PPC5A	N/A	N/A	6-15/16		•								
Center Punches 	**PPC3A**	5/16	1/8	5	•	•	•							
	PPC4A	7/16	3/16	6	•	•	•	•						
	PPC6B	5/8	5/16	7										
	PPC714B	9/16	5/32	14										
Pin Punches 	**PPC103A**	9/32	3/32	4-7/32	•	•	•	•	•		•			
	PPC104A	5/16	1/8	4-3/4	•	•	•		•		•			
	PPC105A	3/8	5/32	5	•	•	•	•	•		•			
	PPC106A	3/8	3/16	5-1/4	•	•	•	•	•		•			
	PPC107A	3/8	7/32	5-1/4	•						•			
	PPC108A	7/16	1/4	5-3/4	•	•	•		•		•			
	PPC110A	1/2	5/16	5-1/4	•	•			•		•			
	PPC112	9/16	3/8	5-1/4	•	•								
Metric Pin Punches 	**PPCM103B**	5/16	(3)	154.2										•
	PPCM104B	5/16	(4)	154.2										•
	PPCM105B	3/8	(5)	154.2										•
	PPCM106B	3/8	(6)	154.2										•
	PPCM107B	3/8	(7)	154.2										•
	PPCM108B	7/16	(8)	154.2										•
Starter Punches 	**PPC203A**	5/16	3/32	5-1/2	•	•	•	•	•			•		
	PPC204A	3/8	1/8	5-3/4	•	•	•		•			•		
	PPC205A	3/8	5/32	6	•	•	•	•	•			•		
	PPC206A	7/16	3/16	6-1/4	•	•	•	•	•			•		
	PPC208A	1/2	1/4	6-3/4	•	•	•		•			•		
	PPC210A	9/16	5/16	7-1/4	•	•			•			•		
Flat Chisels 	**PPC808A**	1/4	1/4	5										
	PPC812B	5/16	3/8	5-1/2	•	•	•	•		•			•	
	PPC816B	7/16	1/2	6	•	•	•	•		•			•	
	PPC820B	1/2	5/8	6-1/2	•	•	•	•		•			•	
	PPC824B	5/8	3/4	7-1/4	•	•				•			•	
	PPC828B	11/16	7/8	8	•	•				•			•	
	PPC832B	7/8	1	9										
	BPPC1878*	7/8	1	18										
Long Flat Chisels 	**PPC820LB**	1/2	5/8	16										
Half Round Nose Cape Chisels 	**PPC12B**	3/8	5/16	6	•					•				
Cape Chisels 	**PPC13B**	5/16	1/4	5-5/8						•				
	PPC14B	3/8	5/16	6	•					•				
Diamond Point Chisels 	**PPC15B**	7/16	7/32	6						•				
	PPC19B	3/8	1/8	5-3/4	•					•				
Kit Bag					**KB2179**	**KB2178**	**KB2182**	**KB2181**	**KB2187**	**KB2175**	**KB2183**	**KB2185**	**KB2173**	**KB2189**

*Blue-Point®

⚠WARNING

- Use the proper punch or chisel for the job
- Do not use punches or chisels having chipped or mushroomed end; discard or dress to original shape with a hand file
- Use hammer with head about 3/8" larger in diameter than head of punch or chisel
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

PUNCHES AND CHISELS



PPRG80

PPRG80 8 pc Roll Pin Punch Guide Set
- Companion tool to the PPR708BK Roll Pin Punch Set
- Provides faster, safer pin installation
- Pin guide is a vinyl sleeve uniting pin and punch to achieve perfect alignment during installation
- Ideal for pin installation in tight quarters where two hands cannot reach
- For use with Snap-on® Roll Pin Punches PPR2–PPR8 (1/16–1/4″)
- Can also be used with Snap-on® Pin Punches PPC103A–PPC108A (3/32–1/4″) and long pin punches PPC104LA–PPC108LA (1/8–1/4″)



GA237

Steel Stamping Sets

- Heat-treated square stamp bodies
- Stored in two-piece wooden containers

Stock No.	Characters	Number Stamps	Figure Size, inches	Square Body, inches	Length, inches
GA237*	0–9	9	3/16	5/16	2-7/16
GA238†	A–Z	27	3/16	5/16	2-7/16
YA817*	0–9	9	1/8	1/4	2-3/8
YA818†	A–Z	27	1/8	1/4	2-3/8

*One stamp serves as both 6 and 9.

†Also includes stamp for period.



DPFT531

Transfer Punches (Blue-Point®)

Stock No.	Description	Set Contains: DPFT531
DPFT531-6	3/32″ Transfer Punch (Blue-Point®)	•
DPFT531-7	7/64″ Transfer Punch (Blue-Point®)	•
DPFT531-8	1/8″ Transfer Punch (Blue-Point®)	•
DPFT531-9	9/6″ Transfer Punch (Blue-Point®)	•
DPFT531-10	5/32″ Transfer Punch (Blue-Point®)	•
DPFT531-11	11/64″ Transfer Punch (Blue-Point®)	•
DPFT531-12	3/16″ Transfer Punch (Blue-Point®)	•
DPFT531-13	13/64″ Transfer Punch (Blue-Point®)	•
DPFT531-14	7/32″ Transfer Punch (Blue-Point®)	•
DPFT531-15	15/64″ Transfer Punch (Blue-Point®)	•
DPFT531-16	1/4″ Transfer Punch (Blue-Point®)	•
DPFT531-17	17/64 Transfer Punch (Blue-Point®)	•
DPFT531-18	9/32 Transfer Punch (Blue-Point®)	•
DPFT531-19	19/64″ Transfer Punch (Blue-Point®)	•
DPFT531-20	5/16″ Transfer Punch (Blue-Point®)	•
DPFT531-21	21/64″ Transfer Punch (Blue-Point®)	•
DPFT531-22	11/32″ Transfer Punch (Blue-Point®)	•
DPFT531-23	23/64″ Transfer Punch (Blue-Point®)	•
DPFT531-24	3/8″ Transfer Punch (Blue-Point®)	•
DPFT531-25	25/64″ Transfer Punch (Blue-Point®)	•
DPFT531-26	13/32″ Transfer Punch (Blue-Point®)	•
DPFT531-27	27/64″ Transfer Punch (Blue-Point®)	•
DPFT531-28	7/16″ Transfer Punch (Blue-Point®)	•
DPFT531-29	29/64″ Transfer Punch (Blue-Point®)	•
DPFT531-30	15/32″ Transfer Punch (Blue-Point®)	•
DPFT531-31	31/64″ Transfer Punch (Blue-Point®)	•
DPFT531-32	1/2″ Transfer Punch (Blue-Point®)	•
DPFT531-34	17/32″ Transfer Punch (Blue-Point®)	•
DPFT531-48	3/4″ Transfer Punch (Blue-Point®)	•
DPFT531-56	7/8″ Transfer Punch (Blue-Point®)	•
DPFT531-64	1″ Transfer Punch (Blue-Point®)	•
DPFT531-P	Replacement Pouch (Blue-Point®)	•

	Stock No.	Hex Size, inches	Point/ Edge, inches	Length, inches	PPR708BK	PPCL60BK	PPVP70BK	PPLT40AK	LP30A	PPB30AK	PPBL30AK	PPB20AK
	Set Contains:											
Roll Pin Punches 	PPR2	—	1/16	3-5/32	•							
	PPR2-1/2	—	5/64	3-1/2	•							
	PPR3	—	3/32	3-29/32	•							
	PPR4	—	1/8	4-1/4	•							
	PPR5	—	5/32	4-5/8	•							
	PPR6	—	3/16	5	•							
	PPR7	—	7/32	5-3/8	•							
	PPR8	—	1/4	5-3/4	•							
	PPR10	—	5/16	6-1/8								
	PPR12	—	3/8	6-1/8								
	PPR14	—	7/16	6-1/8								
	PPR16	—	1/2	6-1/8								
Long Pin Punches 	PPC104LA	5/16	1/8	5-5/16		•						
	PPC105LA	3/8	5/32	6-1/2		•						
	PPC106LA	3/8	3/16	7-1/16		•						
	PPC107LB	3/8	7/32	7-5/8		•						
	PPC108LA	7/16	1/4	8-3/16		•						
	PPC110LA	1/2	5/16	8-3/4		•						
Midget Punches and Chisels 	PPC402A	9/32	1/16	3			•					
	PPC403A	9/32	1/8	3-1/4			•					
	PPC404A	9/32	3/32	3-5/8			•					
	PPC405A	9/32	1/16	3-3/4			•					
	PPC406B	9/32	3/16	3-7/8			•					
	PPC407B	9/32	5/32	4			•					
	PPC408B	—	5/16	4-1/8			•					
Drift Pin Punches 	PPC905B	3/8	5/32	8				•				
	PPC908B	7/16	1/4	8-1/2				•				
	PPC910B	1/2	5/16	9				•				
	PPC912B	9/16	3/8	9-1/2				•				
	1210B	5/8	5/16	12					•			
	1512B	3/4	3/8	15					•			
	1816B	7/8	1/2	18					•			
Bronze Pin Punches 	PPB408A	—	1/4	4						•		
	PPB612A	—	3/8	6						•		
Bronze Drift Punches 	PPB816A	—	1/2	8						•		
	PPB826A	—	13/16	8							•	
	PPB1226A	—	13/16	12							•	
Bronze Tapered Punches 	PPB1001A	5/8	3/8	8								
	PPB1012A	—	3/8	10							•	•
	PPB1414A	—	7/16	14								•
Bronze Round Punch 	PPB1002A	—	3/4	10								
Kit Bag					KB2186	KB2184	KB2188	KB2174	KB2177	KB2171	KB2172	KB2170

⚠WARNING

- Use the proper punch or chisel for the job
- Do not use punches or chisels having chipped or mushroomed end; discard or dress to original shape with a hand file
- Use hammer with head about 3/8" larger in diameter than head of punch or chisel
- Read safety precautions on pages W1 to W4

PUNCHES AND CHISELS

Spring Punches

4 pc Heavy-Duty Spring Punch Set

- Deliver accurate blows to the toughest materials
- No hammer required, reducing risk of injury
- Knurled shank provides outstanding grip for precision and control of punch even when using gloves
- Made from quality hardened-carbon steel for use in a variety of mechanical and metal working applications
- Each blow delivers up to 5,000 PSI of impact force
- Optional SPP1813 Spring Punch Prop available



SPHDSET4

Stock No.	Description	Set Contains: SPHDSET4
SPHDCC716	7/16″ Heavy-Duty Spring Cold Chisel	•
SPHDCP716	7/16″ Heavy-Duty Spring Center Punch	•
SPHDPP14	1/4″ Heavy-Duty Spring Pin Punch	•
SPHDTP716	7/16″ Heavy-Duty Spring Transfer Punch	•

DEAD BLOW HAMMERS

Standard

- Dead Blow Hammers feature a free-flowing shot design that improves dead blow action while reducing rebound
- Compact head has larger striking area and heavier caps to improve delivered force
- Soft grip handle with ribbed, textured, elastomer grip prevents hand slippage
- Multi-position hand grip allows user to position hand closer to hammer end for improved control
- Handle flare helps prevent hammer from slipping out of hand
- Composite handle shank improves balance while defusing shock and dampening vibration
- Tough, long-lasting thermoplastic material is non-sparking and resistant to most shop chemicals
- Applications: brake rotors, brake drum removal, ball joints (tie rod removal), tires, seal installation, loosen oil pans and covers, OE rims, axle insertion, piston installation and crank shaft end play



HBFE32

Colors Available

Red (O) Orange (G) Green

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Stock No.	Weight, oz	Head Length, inches	Face Dia., inches	Length, inches	Set Contains: HBFE103
HBFE16	16	3-1/4	1-9/16	12	
HBFE24	24	3-3/4	1-3/4	12-3/4	•
HBFE32	32	4-1/4	2	13-1/2	•
HBFE48	48	4-3/4	2-1/4	15	•
HBFE56	56	5-7/16	2-3/4	15-3/4	

Compact Slimline

- Microcellular soft grip handle provides a comfortable, secure grip and dampens the vibration to the user's hand
- Smaller face for more concentrated blows
- Longer head profile for extended reach in tight work applications
- Multi-position hand grip allows user to position hand closer to hammer end for improved control
- Composite handle shank improves balance while defusing shock and dampening vibration
- Handle flare helps prevent hammer from slipping out of hand
- Applications include main bearing caps, dust caps, small objects, custom bikes and tighter applications that standard dead blow hammers will not fit



HBSE20

Stock No.	Weight, oz	Face Dia., inches	Head Length, inches	Length, inches
HBSE10	10	1-1/4	3-5/8	10-5/8
HBSE20	20	1-3/8	4-1/4	11-1/8
HBSE30	30	1-1/2	5-5/16	12-3/8

Dead Blow Ball Peen

- Dead Blow Hammers feature free flow shot design that improves dead blow action while reducing rebound
- Internal steel canister with steel shot
- Precision-machined steel head provides a larger striking surface for optimal delivered force
- Microcellular soft grip handle provides a comfortable, secure grip and dampens vibration to the user's hand
- Multi-position hand grip allows user to position hand closer to hammer end for improved control
- Handle flare helps prevent hammer from slipping out of hand
- Composite handle shank improves balance while defusing shock and dampening vibration

Stock No.	Weight, oz	Head Length, inches	Face Dia., inches	Length, inches
HBBD8	8	4	1	11-5/8
HBBD16*	16	4-3/8	1-1/4	12-1/4
HBBD24*	24	4-3/4	1-3/8	12-3/4
HBBD32*	32	5-3/4	1-3/4	13-5/8
HBBD40*	40	5-3/4	1-3/4	15-1/8



HBBD24

Colors Available



* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Dual-Face Drilling

- Different diameter striking faces can be matched to various cold chisels and punches
- Free-floating steel head canister design improved dead blow action and reduces rebound
- Nonslip handle design with ribbed thumb rest allows the user to chose up in tighter work areas
- Composite handle shank improves hammer balance while dampening vibration
- Chemical-resistant molded urethane cover

Stock No.	Weight	Head Length, inches	Face Dia., inches	Length, inches
HSSD32	32	5-11/64	1-3/8–1-7/8	11-9/16



HSSD32

Colors Available



O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Sledge (Blue-Point®)

Stock No.	Weight	Head Length, inches	Face Dia., inches	Length, inches
BC7B	5	7	2-3/4	20
BC110B	8	7	2-3/4	30
BC114B	11 lb 8 oz	8	3-1/4	36



BC110B

HBBT Series Bronze

- Bronze-tipped nonmarring hammer ideally suited for work on bushings, gears and transmissions

Stock No.	Weight, oz	Head Length, inches	Head Dia., inches	Length, inches
HBBT16	16	3-3/4	1-3/8	12
HBBT24	24	4-1/4	1-3/8	12
HBBT32	32	4-1/2	1-1/2	12-3/4



HBBT32

⚠WARNING



- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or hardened object
- Do not use chipped, mushroomed or cracked hammer
- Strike squarely, avoid glancing blows
- Read safety precautions on pages W1 to W4

SOFT FACE HAMMERS


HLE24


HBPT24

Piston

- One-piece urethane construction
- Full-length canister increases head strength
- Made of material that will not damage the piston
- Shot-filled head drastically reduces rebound

Stock No.	Weight, oz	Head Length, inches	Face Dia., inches	Length, inches
HLE24	24	7-3/4	5-1/2	12-3/4

HBPT Series Plastic

- Plastic-tipped hammers used where metal-to-metal scratching or marring needs to be eliminated

Stock No.	Head Length, inches	Weight, oz	Length, inches	Soft Tip Stock No. (Black)	Hard Tip Stock No. (Gray)
HBPT16	3-3/4	16	12	HPTS16	HPTH16
HBPT24	4-3/4	24	12-3/4	HPTS24A	HPTH24A


BF620C


BF623

Mallets

BF620C Rubber Head 11″ Mallet (Blue-Point®)

- Solid-rubber head is 3-3/4″ long, 2-1/4″ dia
- 11″ hardwood handle

BF623 Soft Blow 12-1/2″ Mallet (Blue-Point®)

- Designed to reduce marring and denting
- For use in assembly applications and on all types of surfaces, including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures
- Conforms to irregular surfaces
- Dissipates hand-jarring shock
- Resists most chemicals
- Wood handle

Stock No.	Description	Face Dimensions, inches	Length, inches
BF620C	Rubber Head 11″ Mallet (Blue-Point®)	2-1/4 dia.	3-3/4
BF623	Soft Blow 12-1/2″ Mallet (Blue-Point®)	1-7/8 x 2-1/8	12-1/2


HSPD16


BH232A

Combination

- Combination steel and soft face dead blow
- One-piece urethane construction
- Replaceable tips

Stock No.	Head Length, inches	Weight, oz	Tip Diameter, inches	Length, inches	Soft Tip Stock No.	Hard Tip Stock No.
HSPD16	4-3/8	16	1-1/4	12-1/8	HPTS16 (Black)	—
BH232A*‡	—	32	1-5/8	13	BH232-2	BH232-3
BH232-4*	Optional Nylon Tip (also available)					
BH232-5*	Optional brass tip (also available)					

*Blue-Point®


HBR15

Brass (Fiberglass Handle)

- Non-sparking/non-marring surface for many applications
- Brass head absorbs blow and reduces rebound
- Flat surface for even distribution of blow
- Comfortable, nonslip handle grip

Stock No.	Weight, lb	Length, inches
HBR15‡	1-1/2	12
HBR25	2-1/2	12
HBR4‡	4	12
HBR6‡	12	6

Interchangeable Head (Blue-Point®)

- Shot-loaded, dead blow hammer adds more striking force by eliminating rebound and dampening vibration shock
- 1-1/2″ striking face diameter on each hammer head
- Six interchangeable heads meet a number of various applications, including non-marring and non-sparking applications with selected head surfaces (brass)
- Comfortable, nonslip handle grip
- Set includes 10″ fiberglass handle and storage case
- Optional 1″ head extender (HSPI6KT9)



HSPI6KT



Stock No.	Description (Chart)	Weight, oz	Set Contains: HSPI6KT‡
HSPI6KT1	Hammer Handle	22	•
HSPI6KT2	Soft Face	1.5	•
HSPI6KT3	Medium Face	1.4	•
HSPI6KT4	Medium Hard Face	1.3	•
HSPI6KT5	Hard Face	1.3	•
HSPI6KT6	Steel Face	2.2	•
HSPI6KT7‡	Brass Face	2.2	•

Includes storage case, HSPI6KT8

Claw Hammers

HCLSB16 16 oz Claw Hammer

- Drop-forged carbon steel head
- Exclusive handle grip with different diameter hand zones for optimal comfort
- Handle has ridges and a flared end to prevent hand from slipping during use
- Snap-on® logo forged in handle; Snap-on® red enamel color
- Smooth striking face
- Anti-shock plug reduces vibration and hand fatigue



HCLSB16

Stock No.	Handle Length, inches (mm)	Weight, oz (grams)	Hammer Head Diameter, inches (mm)
HCLSB16	13 (330)	16 (454)	1 (25.4)

Non-Marring Hammers

BFNM1 1 lb Non-Marring Mallet (Blue-Point®)

- The head of the mallet is non-marring on finished surfaces due to soft durometer material
- Durable, resin-rich “pull-truded” fiberglass handle
- Handle is UV and chemical resistant
- Less rebound than traditional rubber head mallets helps reduce operator fatigue
- Nonslip, cushion-grip handle



BFNM1



BP16B



BPN16B

Ball Peen (Hickory Handle)

Stock No.	Weight, oz	Handle Length, inches	Replacement Handle	Set Contains: BP1004S
BP4B	4	10-1/2	BPH4C	
BP8B	8	12-1/2	BPH8C	•
BP12B	12	13-1/2	BPH12C	•
BP16B	16	14-1/2	BPH16C	•
BP20B	20	15	BPH20C	
BP24B	24	16	BPH20C	•
BP32B	32	16	BPH40C	
BP40B	40	16-1/4	BPH40C	
BP48B	48	16-1/4	BPH40C	

ASME®/ANSI® B107.400

Ball Peen (Fiberglass Handle)

Stock No.	Weight, oz	Handle Length, inches	Replacement Handle	Previous Model Handle
BPN8B	8	11	BPNH8B	BPN8-1
BPN12B	12	12	BPNH12B	BPN12-1
BPN16B	16	13	BPNH12B	BPN16-1
BPN24B	24	14	BPNH24B	BPN24-1
BPN32B	32	16	BPNH24B	BPN24-1

ASME®/ANSI® B107.400

⚠WARNING

- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or hardened object
- Do not use chipped, mushroomed or cracked hammer
- Strike squarely, avoid glancing blows
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

HEAVY DUTY HAMMERS (Blue-Point®)



HCB2SG



HCS2SG



BC4SG



HD4SG



BD4SG

Dual Face Dead Blow (Fiberglass Handle)

- 100% cast polyurethane face is designed to withstand the most severe striking applications
- Non-sparking/non-marring brass face for multiple applications
- Nonferrous shot-loaded cavity delivers more power and less rebound than any hammer of its kind
- Abrasion-, chemical- and impact-resistant
- Comfortable nonslip handle grip

Stock No.	Weight, lb (kg)	Face Dia., inches (mm)	Handle Length, inches (mm)	Length, inches (mm)
HCB2SG	2 (.91)	2 (50.8)	10-5/8 (270)	13-3/4 (349)
HCS2SG	2 (.91)	2 (50.8)	10-5/8 (270)	13-3/4 (349)

Meets or exceeds all ANSI® specifications

Heavy-Duty (Fiberglass Handle)

- Handle is resistant to dry rot, warp and splintering
- Fiberglass handle dampens vibration and provides extra strength and safety
- Handle is epoxy welded to hammer head and will withstand 8,000 lb of separation force
- Comfortable nonslip handle grip
- Materials will resist most shop chemicals

Stock No.	Description	Weight, lb	Striking Face Dia., inches	Handle Length, inches	Overall Length, inches	Replacement Handle
BC4SG*	Cross Peen	4	1-1/2	12	14	BD4SG-1
BD4SG*	Engineer	4	1-1/2	12	14	BD4SG-1
HD4SG	Hand Drilling	4	1-1/2	8-3/4	10-3/4	HD4SG-1

*Blue-Point®



BH122D



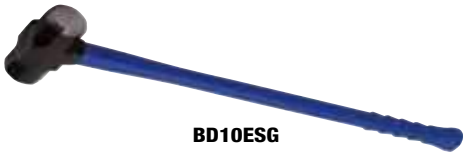
BH141A



BH133B

Heavy-Duty (Hickory Handle)

Stock No.	Description	Weight, oz	Head Length, inches	Overall Length, inches	Replacement Handle
BH122D	Engineer	40	4-1/2	15	BPH40C
BH123D	Engineer	48	4-3/4	15	BPH40C
BH133B	Hand Drilling	48	4-1/2	10	BPH133
BH141A	Cross Peen	32	4-1/2	15	BPH20C
BH142A	Cross Peen	40	5	15	BPH40C
BH143A	Cross Peen	48	5-1/2	15	BPH40C



BD10ESG

Sledge (Fiberglass Handle) (Blue-Point®)

Stock No.	Weight, lb (kg)	Face Dia., inches (mm)	Handle Length, inches (mm)	Overall Length, inches (mm)	Replacement Handle
BD6ESG	6 (2.7)	1-5/8 (41.1)	16 (406.4)	18 (457.2)	BD6ESG-1
BD10ESG	10 (4.5)	2 (50.8)	29 (736)	32 (812.8)	BD8ESG-1



BDS2SG

Soft Steel (Fiberglass Handle)

- Head is crafted with a maximum 30Rc hardness
- Designed to wear down and change shape with use; prevents damage or shearing when striking hard metal objects
- Ergonomic nonslip handle features a solid fiberglass core for strength
- Handle is resistant to weather and most shop chemicals
- Ideal for striking hardened pins, spikes, cutting tools and metal components
- Note: This hammer cannot be used as a non-sparking tool

Stock No.	Weight, lb (kg)	Head Diameter, inches	Handle Length, inches
BDS2SG	2.2 (1)	1-7/16	13-1/2
BDS4SG	4.2 (1.9)	1-7/16	13-1/2



GENERAL HAND TOOLS

AS A TOOL COMPANY, YOU DON'T MAKE IT A CENTURY WITHOUT EXPANDING TO MEET THE NEEDS OF TECHNICIANS. WE'RE CONSTANTLY ADDING TO OUR EXTENSIVE RANGE OF TOOLS SO THAT YOU CAN CONTINUE ADDING TO YOUR OWN CAPABILITIES.

WE DON'T JUST ADD TOOLS. WE ADD IMPROVEMENTS.

In addition to pioneering many of the hand tools in this catalog, we've continued to refine every one of them. Today, our engineering and breadth of line still lead the industry. From files, scrapers, spark plug sockets and pullers to special service and heavy-duty tools, we make the right tool, in the right size and with the right features, for accomplishing any task.

HACKSAWS


HSG325


HSG319


HS5A


HS151

Hacksaws

HSG325 Soft Grip Professional Hacksaw
- Ergonomic front grip for increased comfort and control
- Thermoplastic comfort grip handle
- Spring-loaded tensioning mechanism for quick blade changes
- Dual blade positioning, for normal flush cutting or 55° angle
- High blade tension for straighter, more accurate and faster cuts
- Includes (1) blade

HSG319 Bi-Mold Soft Grip Handle Hacksaw
- Solid steel frame overmolded with soft grip for comfortable use
- Designed for 12″ (300 mm) blades
- Blade tensioner discreetly blends with handle
- Positions for normal flush cutting or 55° angle
- Includes (1) blade

HS5A Miniature Hacksaw
- Designed for 10″ (250 mm) blades
- 8-1/4″ frame fits in limited-access areas
- Easy to handle
- Includes a 10″ blade

HS151 Junior Frame Hacksaw
- Designed for 6″ blades
- 9-1/2″ long
- HSB632 blade included

HSM632 5-Pack 6″ Replacement Blades
- 1/4″ wide, 32 teeth per inch, 6″ length

Hacksaw Blades

- Shatter resistant bimetal for a long life and fast, efficient cutting
- Available in packages of 10 only

Stock No.	Length, inches	Teeth Per Inch (TPI)
HSBM1018B	10	18
HSBM1024B	10	24
HSBM1032B	10	32
HSBM1214B	12	14
HSBM1218B	12	18
HSBM1224B	12	24
HSBM1232B	12	32


HSKIT

Quick Cutter Handsaws

HSKIT Handsaw Kit
- Ergonomic handle design reduces pressure points and stops hand from sliding
- Handle angle and the position of the handle to the blade teeth reduce sawing forces and increase efficiency
- High-quality aluminum body ensures rigidity and retaining/protecting locking mechanism
- Locking system helps reduce play between the handle and blade when assembled
- Easy access to the lever through handle opening
- Long lever for easy lock and release


HS50

Quick Cutter Handsaws

- Features contoured screwdriver type handle for a secure grip
- Saw holder keeps a tight hold on any of the 3 included blades
- Turn the knurled knob and easily switch blades
- All components neatly packaged in CO417 kit bag

HS50 Quick Cutter Hand Saw
- Includes: HS14X1, HS18X1, HS24X1 and storage pouch

LANDSCAPE TOOLS


PRN75SFS

Pruning Tools

PRN75SFS Folding Pruning Saw
- General-purpose folding saw for cutting wood or plastics
- Two-component plastic handles for a firm grip
- Blade is specially coated for low-friction and rust protection
- Blade locks in both open and closed position

Scissors

YA114 3″ Stainless Scissors (Blue-Point®)
- High-quality stainless steel
- Compact: 3″ long


YA114

Scissors

SHEARS1BK Snap-on® Exclusive Black Handle Shears
- Cuts leather, cloth, plastic, rubber, cardboard, gasket material, rope and many other materials
- Bottle opener and nut cracker also incorporated into the design
- Stainless steel construction
- Easy to take apart for cleaning and is dishwasher safe

SHEARS1RD Snap-on® Exclusive Red Handle Shears

SHEARS1-SH Snap-on® Leather Sheath
- Made of high quality leather with Snap-on® logo embossed on the front
- Designed specifically for the Snap-on® exclusive SHEARS1RD and SHEARSBK
- Made in the USA


SHEARS1BK


SHEARS1RD


SHEARS1-SH

SEK45 Series Specialty Knives
- Titanium coated 440 stainless steel blade
- Ambidextrous thumbnail window on blade spine
- Composite handle with lanyard eyelet provides easy attachment to any keychain ring
- Ideal for everyday pocket carry
- 4.57″ long in open position, 2.83″ closed, 1.75″ blade
- Weighs less than 1 oz

SEK45BLK Compact Folding Lockback Knife

SEK45R Compact Folding Lockback Knife


SEK45BLK


SEK45R

Liner Lock Knives

KER1600SO Lockback Snap-on® Logo Chive Plain Blade Knife
- Bead blasted stainless steel handle with Snap-on® logo
- Removable pocket clip
- 1-15/16″ stainless steel straight-edge blade
- 1.9 oz

KER1620RDSO Lockback Scallion Straight-Edge Blade Knife
- Durable 6061-T6 anodized red aluminum handle with Snap-on® logo
- Stainless steel liners
- Safety tip lock
- Removable pocket clip
- 2-1/4″ stainless steel straight-edge blade
- 2.3 oz

KER1660CBSO Lockback Leek Composite Straight-Edge Blade Knife
- 3″ stainless steel straight-edge blade

KER1660CKTSO Lockback Leek Straight-Edge Blade Knife
- SpeedSafe® technology provides assisted opening
- 3″ stainless steel straight-edge blade

KER1600PNKSO Lockback Snap-on® Logo Chive Plain Blade Knife
- Anodized pink handle with Snap-on® logo
- Removable pocket clip
- Bead-blasted stainless steel straight-edge blade
- Weighs 1.9 oz


KER1600SO


KER1620RDSO


KER1660CBSO


KER1660CKTSO


KER1600PNKSO

⚠WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

CUTTING: KNIVES



SEKC69FGSK



SEKC75FPSK



SEKC79FCKK



SEKC79FCSK



SEKC65XNKK



SEKC86XNKK

SEKC Series

SEKC69FGSK Carbon Fiber Pocket Knife
- Folding knife design is exclusive to Snap-on®
- Designed by world-renowned knife craftsman, Ken Onion
- One-layer carbon fiber is laminated to G10 for a super-strong handle and unique look
- Frame lock secures the blade in the open position and also allows for easy one-hand closing
- AUS 8 Japanese stainless steel for increased edge retention

SEKC75FPSK Field Strip Snap-on® Knife
- Snap-on® exclusive knife features "Field Strip" technology, in which the entire knife can be taken apart for cleaning and quick maintenance without any tools
- Bayonet lug-style flipper sets off the smooth open action of the stainless steel, drop-point blade
- Designed by world-renowned knife craftsman, Ken Onion

SEKC79FCKK Carbon Fiber Ripple Black Ox Knife
- Liner lock mechanism
- Flipper opening style
- Triple-point blade serration
- 8Cr13MoV stainless steel blade, HRC 58-60, G10 handle with carbon fiber overlay (4.375″)

SEKC79FCSK Carbon Fiber Ripple Satin Knife
- Liner lock mechanism
- Flipper opening style
- Razor-edge blade serration
- 8Cr13MoV stainless steel blade, HRC 58-60, G10 handle with carbon fiber overlay (4.375″)

SEKC65XNKK Hunting/Skinning Knife
- Exclusive Snap-on® design fixed blade hunting knife
- Designed by well known hunting and fishing guide, Russ Kommer
- Blade made of SK5 high carbon steel for excellent edge retention
- Powder coated blade for rust prevention
- Textured handle for positive grip in wet conditions
- Includes custom nylon sheath with belt attachment

SEKC86XNKK Hunting Knife



SEK80MNKK



SEK80MNSK

SEK80 Series Knives

SEK80MNKK Relay Knife Black Blade
- Exclusive Ken Onion® design
- Drop-point blade with combination edge
- Black corrosion resistant coating
- Rugged tire tread grip
- IKBS with flipper deployment
- Liner lock safety feature

SEK80MNSK Relay Knife Satin Blade
- Exclusive Ken Onion® design
- Drop-point blade style
- Satin-finish blade
- Rugged tire tread grip
- IKBS with flipper deployment
- Liner lock safety feature



SO82BLK



SO82BLU



SO82CAMO



SO82RD

SO82 Series Knives

SO82BLK Snap-on® Knife
- SpeedSafe® Assisted Opening with liner lock mechanism
- Modified Wharncliff blade shape made of N690 stonewashed steel
- Anodized aluminum handle with Trac-Tec inserts

SO82BLU Snap-on® Knife

SO82CAMO Snap-on® Knife

SO82RD Snap-on® Knife

SO88 Series Specialty Knives

- Equipped with a big, slight drop-point blade that offers both excellent slicing and piercing capabilities
- High-performance stainless steel blade offers excellent corrosion resistance and enhanced looks
- Lightweight machined 6061-T6 anodized aluminum handles, with Trac-Tec inserts, ensure extremely solid grip
- Equipped with SpeedSafe® Assisted Opening technology
- A short push on the index point overcomes the resistance built into the torsion bar in the mechanism
- SpeedSafe® knife technology takes over and the blade moves out of the handle quickly and easily
- Inset liner lock mechanism – an inset steel plate functions like a locking liner, in one side of the handle
- Upon blade deployment, the steel plate moves behind the blade securely locking it open without all the weight and bulk of full liners
- Includes reversible deep carry pocket clip so the knife can sit all the way down in the pocket

SO88BLK Dash Knife
SO88O Dash Knife
SO88R Dash Knife


SO88BLK


SO88O


SO88R

Multi-Tools

SMT97R Snap-on® Multi-Tool

- **One-hand operation allow professionals to quickly address problems at hand**
- Snap-on® exclusive red Cerakote-finished handles for superior wear resistance
- Enhanced heavy-duty locking mechanism
- Proudly made in the USA by Gerber®, the industry leader in multi-tools
- Rotating carbide wire cutters and strippers can be rotated as the edge wears, and replaced when a fresh set is needed
- Replaceable Remgrit® blade is designed to be able to cut through extremely hard materials
- Extra-large partially serrated blade is ideal for cutting open packages and other items around the shop
- Tools are all black-oxide coated, providing superior corrosion resistance
- Complete listing of tools includes: pliers, carbide wire cutter, scissors, bottle opener, ruler stamped-in-handle, PHILLIPS®/flat head drivers, fine/coarse files, bottle opener, etc.
- Snap-on® logo is engraved into the handle and comes with a Snap-on® branded sheath (SEKG94-SH)


SMT97R

Specialty Knives

SEK71FACB Lifeline Folding Knife

- Russ Kommer folding liner lock design
- N690 Austrian stainless steel blade
- Assisted-opener kicker
- Ambidextrous stainless steel thumbstud
- Rubberized red anodized aircraft-grade alloy handle scales
- Reversible stainless steel pocket clip

SEK71FACR Lifeline Folding Knife


SEK71FACB


SEK71FACR

SEK71MMKK Rave XL Knife

- Exclusive Ken Onion design knife with Snap-on® branding on the blade
- Folding everyday carry pocket knife
- Nylon handle has textured thermoplastic rubber inserts for a positive grip
- Knife measures 6-7/8″ open, 4-1/8″ closed, and weighs 6.2 oz
- Blade length is 2-3/4″

SEK71MMKR Rave XL Knife
SEK71MMKRK Rave XL Knife


SEK71MMKK


SEK71MMKR


SEK71MMKRK

SEK60MMKK Rave Black with Black Insert Knife

- Rugged, textured grips
- High-quality blade steel
- Integrated flipper for fast opening
- Knife measures 5-15/16″ open, 3-43/64″ closed, and weighs 3.7 oz

SEK60MMKR Rave Red with Black Insert Knife
SEK60MMKRK Rave Black with Red Insert Knife


SEK60MMKK


SEK60MMKR


SEK60MMKRK

⚠WARNING

- Keep away from children
- Read safety precautions on pages W1 to W4

CUTTING: KNIVES



SEK74MAKR

Specialty Knives

SEK74MAKR Exclusive Ken Onion Designed Wrinkle Knives
- Japanese AUS 8 high-carbon steel provides superior cutting performance and incredible edge retention
- Modified hollow-ground drop-point blade reduces resistance when cutting while the versatile blade shape is ideal for cutting, skinning and scraping
- Ambidextrous flipper and IKBS bearing system ensure smooth, fast opening without springs



SO84BLK



SO84GRY



SO84OL



SO84R

SO84 Series Specialty Knives

SO84BLK HYPE Knife
- SpeedSafe® Assisted-Opening enables smooth, easy one-hand opening
- Trac-Tec grip-in-handle is ideal for working in wet situations
- Deep carry clip allows knife to ride low in the pocket, making it less likely to fall out and keeps a low profile of visibility
- Clip can be changed for left-hand pocket carry

SO84GRY HYPE Knife

SO84OL HYPE Knife

SO84R HYPE Knife



YA405A

Hobby Knives

YA405A Hobby Knife (Blue-Point®)
- 5-1/2″ long aluminum handle with bottom knurl and knurled brass nose cap
- Includes the following blades: YA405-1, YA405-2, YA405-3, YA405-4

YA405-1 23° Angle Blade (Blue-Point®)
- Use with YA405A hobby knife

YA405-2 50° Angle Blade (Blue-Point®)
- Use with YA405A hobby knife

YA405-3 Curved Edge Blade (Blue-Point®)
- Use with YA405A hobby knife

YA405-4 Straight Chisel Edge Blade (Blue-Point®)
- Use with YA405A hobby knife



KER1620FLSO



KER1620NBSO



KER16200LSO



KER1660SO



KER16600RSO



KER1660SWBKS

Liner Lock Knives

KER1620FLSO Lockback Scallion Frame with Snap-on® Logo
- Blade is made with 420HC steel with a bead-blasted finish
- Handle is made with 410 steel with a bead-blasted finish
- Knife opens with a flipper
- Frame lock with tip lock
- Single-position pocket clip

KER1620NBSO Lockback Scallion Navy Blue with Snap-on® Logo
- Blade is made of 420HC steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Single-position pocket clip

KER1620OLSO Lockback Scallion Olive with Snap-on® Logo

KER1660SO Lockback Leek Knife with Snap-on® Logo
- **Blade is made of Sandvik® 14C28N steel with a bead-blasted finish**
- Handle is made of 410 steel with a bead-blasted finish
- Knife opens with a flipper
- Frame lock with tip lock
- Reversible pocket clip

KER1660ORSO Lockback Kershaw® Orange Leek with Snap-on® Logo
- Blade is made of Sandvik® 14C28N steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Reversible pocket clip

KER1660RDSO Leek with Ratchet Clip

KER1660SWBKS Lockback Kershaw® Stonewash Leek with Snap-on® Logo

Liner Lock Knives


KER1670BLK

KER1670BLK Lockback Blur Straight-Edge Blade Knife
- Anodized black aluminum handle
- SpeedSafe® assisted opening technology
- 3-3/8″ straight-edge blade
- 4.2 oz


KER1670BLKST

KER1670BLKST Lockback Blur Partially Serrated Blade Knife


KER1670BLKSO

KER1670BLKSO Lockback Blur Knife Black with SO Logo
- Blade is made of Sandvik® 14C28N steel with a DLC coating
- Handle is made of 6061-T6 anodized aluminum with Trac-Tec inserts
- Opens with thumb stud
- Inset liner lock
- Reversible pocket clip


KER1670RDBTS

KER1670RDBTS Lockback Blur Red/Black Serrated with Snap-on® Logo


KER1670TBLKT

KER1670TBLKT Lockback Blur Black Tanto Serrated with Snap-on® Logo

KER1870RDSO Knockout Knife with Snap-on® Logo
- Blade is made of Sandvik® 14C28N steel with a stonewashed finish
- Handle is made of 6061-T6 anodized aluminum
- Opens with a flipper or thumb stud
- Sub-frame lock
- 4-position lock deep-carry pocket clip


KER1870RDSO

KER1620 Lockback Scallion Black Handle Knife
- Opens with a flipper
- Liner lock feature
- Single-position pocket clip


KER1620

KER1776RDSO Link Snap-on® Stonewashed Aluminum Knife
- Snap-on® branded, exclusive color
- 420HC steel drop-point blade with a stonewashed finish
- SpeedSafe® assisted opening system with liner lock
- Reversible pocket clip (left/right)
- Machined aluminum handle


KER1776RDSO

KER1812RDSO Dividend Snap-on® Stonewashed Aluminum Knife
- Snap-on® branded, exclusive color
- 420HC steel drop-point blade with a stonewashed finish
- SpeedSafe® assisted opening system with liner lock
- 4-position pocket clip (left/right, tip-up/down)
- Anodized aluminum handle


KER1812RDSO

SO86 Series Specialty Knives


SO86BLK

SO86BLK Gasket Knife, Black
- SpeedSafe® assisted opening enables smooth, easy one-hand opening
- Blade is made of black DLC-coated N690 steel
- Handle is made of T6061-T6 anodized aluminum
- Trac-Tec grip in the handle is ideal for working in wet situations
- Right- and left-handed carry
- Lanyard hole at end of the handle
- Available in six colors Red, Black, Blue, Bronze, Olive, Tan
- Knife length (closed): 4″; blade length: 2-5/8″


SO86BLU

SO86BLU Gasket Knife, Blue


SO86BRNZ

SO86BRNZ Gasket Knife, Bronze


SO86OL

SO86OL Gasket Knife, Olive


SO86RD

SO86RD Gasket Knife, Red


SO86TAN

SO86TAN Gasket Knife, Tan

⚠WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

CUTTING: UTILITY KNIVES


UTK100


UTK100SB

Specialty Knives

UTK100 Retractable Utility Knife
- **Retractable blade**
- Quick-release spring-loaded handle provides fast, sure blade changes
- Integrated hinge handle means no handle parts to lose and no tools required to change blades
- Rubber grip for comfort and control
- Three blade positions: open, half closed and closed
- Blade storage for up to five blades in the handle
- Lightweight anodized aluminum body for durability—thin design for comfort

UTK100SB Auto Retractable Utility Knife
- Auto retracting
- Quick-release spring-loaded handle provides fast, sure blade changes
- Rubber grip for comfort and control
- Includes one safety point two-notch blade

UKBU10 Double-Point Utility Knife Blades (10 pk)
- Two-notch double-point blades
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives


UKBU50PK


UKBU10


LBUK1

UKBU50PK Double-Point Blades (50 pk)
- Two-notch double-point blades
- Dispenser ejects one blade at a time
- Blade guard in the ejector
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives

YA1800A Single-Edge Razor Blades (100 pk) (Blue-Point®)
- 100 blades in a plastic dispenser
- Blades have aluminum backs that can be shaped for special applications

LBUK1 Lockback Utility Knife (Blue-Point®)
- Folding lockback blade, hardwood handle with belt clip and thumb stud for one-hand opening
- Includes utility knife and leather pouch plus (10) replacement blades
- Uses UKBU10 (10 pk) or UKBU50PK (50 pk) replacement blades


KER2535


SCKS1

Sharpening Kits

KER2535 Blade Sharpener (Blue-Point®)
- Impregnated with 600 grit diamond coating bonded with nickel plating to a lightweight tube
- Excellent sharpener for the repair of extremely dull blades
- Length is 8-1/2″ (20.3 cm)
- Sheath length is 5-1/2″ (12.7 cm)

SCKS1 Carbide Knife Sharpener
- Two tungsten carbide sharpening elements secured to high-strength 6061 T6 aircraft aluminum S-shaped frame
- Fixed angle of sharpening elements creates fast, easy, optimal sharpening in just five strokes for most blades (except serrated)
- Replaceable sharpening elements
- Slip-resistant rubber base pads reduce the chance of the sharpener from slipping while sharpening a blade
- Light and compact—can carry in your pocket
- Attached ring allows it to be tethered from hooks, hangers, or key ring
- Lightweight 1.7 oz (0.05 kg)
- Compact, 2.2″ L x 1.8″ W x 0.25″ D (55.9 x 45.7 x 6.4 mm)


UTK150

Specialty Knives

UTK150 Auto-Loading Utility Knife
- Exposed blade is easily removed or reversed with the push of a button
- New blade is auto loaded from five-blade magazine
- Cushioned handle provides comfort and control
- Three blade positions: 1″ and 1/4″ exposures, and closed
- Uses standard two-notch replacement blades


YA580A


YA581A

Multipurpose Cutters

YA580A Multipurpose Cutter (Blue-Point®)
- Auto-locking, fully retractable blade
- Black metal body with a blue cap and pocket clip
- Includes (1) premium steel 13-point snap blade
- Length is 5-3/8″
- Uses YA580A-1 replacement blades

YA580A-1 Multipurpose Cutter Replacement Blades (5 pk) (Blue-Point®)
- Individual break-off replacement blades for the YA580A and YA584A multipurpose cutters

YA581A-1 Multipurpose Cutter Replacement Blades (10 pk) (Blue-Point®)
- Replacement blades for YA581A

YA581A Multipurpose Cutter (Blue-Point®)
- Includes (3) blades with eight snap-off points
- Minimum blade wobble
- Fully retractable


SGFRD104


SGFMA104


SGFHR104


SGFMX104


SGHBF200A


SGHBF300A


SGHBF400A


SGHBF500A


SGHBF600A

Bastard Cut Individual Files

Additional mill file sizes are also available.

							Set Contains: SGFRD104	SGFMA104	SGFHR104	SGFMX104	SGHBF200A *	SGHBF300A *	SGHBF400A *	SGHBF500A *	SGHBF600A *
	Stock No.	Uses Handle	Diameter, inches	Overall Length, inches	Pattern	Teeth Per Inch (TPI)	Comfort Grip	Comfort Grip	Comfort Grip	Comfort Grip	Instinct®	Instinct®	Instinct®	Instinct®	Instinct®
Round File	6R	SGHF614BR	7/32	6	Double Cut	33					•				
	8R	SGHF614BR	9/32	8		25					•			•	
	10R	SGHF615BR	3/8	10		23					•				•
	12R	SGHF616BR	1/2	12		20					•				
	SGF6R	—	—	6		33	•								
	SGF8R	—	—	8		25	•			•					
	SGF10R	—	—	10		23	•								
	SGF12R	—	—	12		20	•								
Mill File	6MA	SGHF614BR	—	6	Single Cut	51						•			
	8MA	SGHF615BR	—	8		46						•		•	
	10MA	SGHF616BR	—	10		41						•		•	•
	12MA	SGHF617BR	—	12		36						•			
	14MA	—	—	14		30									
	SGF6MA	—	—	6		51		•		•					
	SGF8MA	—	—	8		46		•		•					
	SGF10MA	—	—	10		41		•							
	SGF12MA	—	—	12		36		•							
Half-Round File	6HR	SGHF614BR	—	6	Double Cut	33							•		
	8HR	SGHF615BR	—	8		25							•		
	10HR	SGHF616BR	—	10		23							•		•
	12HR	SGHF617BR	—	12		20							•		
	SGF6HR	—	—	6		33			•						
	SGF8HR	—	—	8		25			•						
	SGF10HR	—	—	10		23			•						
	SGF12HR	—	—	12		20			•						
Three Square File	6T	SGHF614BR	—	6	Double Cut	33								•	
	SGF6T	—	—	6		33				•					
	10T	SGHF616BR	—	10		23									
Four Square File	6SQA	SGHF614BR	—	6	Double Cut	33									
	10SQA	SGHF615BR	—	10		23									•
Instinct® Handles	SGHF614BR	—	—	—	—	—					2	1	2	2	
	SGHF615BR	—	—	—	—	—					1	1	1	1	2
	SGHF616BR	—	—	—	—	—					1	1	1	1	2
	SGHF617BR	—	—	—	—	—						1			
Kit Bag							PAKKB069				C0413B				

File Types and Uses:
Round—Filing, deburring holes, concave surfaces
Mill—Deburring, filing flat surfaces, sharp corners (Note: Edges and flats of file have single cut ridges)
Half Round—Deburring, filing concave and flat surfaces, large holes
Three Square—Deburring, filing angles
Four Square—Filing grooves, rectangular and right angle corners, mortises
SGF Molded Handles can't be replaced
SGH Instinct Handles can be replaced

Colors Available

Red	Orange	Green
*	O	G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

WARNING

- Keep away from children
- Read safety precautions on pages W1 to W4

FILES



SGFMN106

Colors Available



O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Miniature Files/Ergonomic Handle

6 pc Soft Grip Handle Miniature File Set

- Ergonomic, two component non-slip grip prevents the hand from slipping onto the file blade
- Soft, textured surface for excellent grip
- Symmetrical handles allow use on both sides with the same level of comfort
- Files have a hole for hanging
- Includes (6) files in a vinyl storage pouch

Stock No.	Description	Set Contains: SGFMN106
SGF4HR	Half-Round	•
SGF4MA	Hand	•
SGF4R	Round	•
SGF4SQ	Square	•
SGF4T	Triangular, Slim Taper	•
SGF4W	Warding	•



HF611A



5NKB



5NSQB



HBFN120B

Swiss Pattern Needle Files

Stock No.	Description	Set Contains: HBFN120B
5NBB	Barrette Swiss Pattern Needle File	•
5NCB	Crossing Swiss Pattern Needle File	•
5NEB	Equaling Swiss Pattern Needle File	•
5NFB	Flat Swiss Pattern Needle File	•
5NHRB	Half Round Swiss Pattern Needle File	•
5NJB	Joint Swiss Pattern Needle File	•
5NKB	Knife Swiss Pattern Needle File	•
5NMB	Marking Swiss Pattern Needle File	•
5NRB	Round Swiss Pattern Needle File	•
5NSB	Slitting Swiss Pattern Needle File	•
5NSQB	Square Swiss Pattern Needle File	•
5NTSC	Three Square Swiss Pattern Needle File	•
HF611A	Plastic File Handle	•

5NRB Round
5NHRB Half Rd.
5NFB Flat
5NCB Crossing
5NKB Knife
5NSQB Square
5NTSC 3-Square
5NEB Equaling
5NBB Barrette
5NJB Joint
5NSB Slitting
5NMB Marking

HBFN120B Swiss Pattern Mini File Set

- Wide array of file patterns and shapes to cover most fine applications
- Comfortable handle with collet allows full interchangeability
- 5-1/2″ long
- Supplied with a vinyl pouch

HF611A Plastic File Handle

- Plastic screwdriver collet-style handle for holding individual files in the HBFN120B Set


6T

Three Square Files

6T 6″ Three Square File
- 6″ long, 5-1/2″ cut length

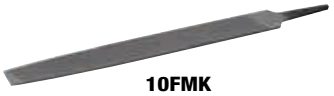
10T 10″ Three Square File
- 10″ long, 9-1/2″ cut length


6CR

Chain Saw Files

6CR 6″ Single Cut Chain Saw File
- 6″ long, 5/32–9/64″ dia
- Uses HF611A file handle

8CR 8″ Single Cut Chain Saw File
- 8″ long, 7/32–5/32″ dia


10FMK

Multi-Cut Flat File

10FMK Multi-Cut Flat File
- 10″ long
- Useful for all flat filing; high removal rate with smooth finish on most materials

Soft Grip Handles
- For all bastard cut files that use replacement soft grip handle
- Feature twist-on threads for securely holding files

Stock No.	For Files	Thread Size
SGHF614BR	4MA, 6CR, 6R, 6T, 6MA, 6HR, 8CR, 8R, 6SQA	1/4-28
SGHF615BR	8T, 8MA, 8HR, 10R, 10SQA	5/16-24
SGHF616BR	10T, 10MA, 10HR, 12R	3/8-24
SGHF617BR	12MA, 12HR	3/8-24


SGHF616BR

Colors Available

Red R | Orange O | Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Plastic Adjustable Jaw Handle

GA98A Plastic Adjustable Jaw File Handle (Blue-Point®)
- Provides a large, comfortable grip for all bastard cut files
- Adjustable jaws grip the file so it cannot turn
- Used on files 4–16″ long
- 4-1/2″ long, 1″ dia., 3/8″ maximum opening


GA98A

Wooden Twist-On Handles
- Wooden twist-on handles with case hardened, threaded-steel inserts
- Use on all bastard cut files on this page

Stock No.	For Files
GA613	4MA, 8CR, 6R
GA614	6 Series
GA615	8 Series
GA616	10 Series
GA617	12 Series
GA618	14 Series


GA616


YA337A

File Brushes

YA337A File Cleaner Brush (Blue-Point®)
- Bristle area of 3-1/2 x 1-1/2″ with .013″ (33 gauge) wire
- Wooden handle
- 7-1/2″ long

Large Surface Scrapers

PKN90 Non-Marring Large Scraper
- Glass-reinforced nylon offers a great blend of flexibility and strength
- Non-marring composite material will not scratch soft metals, paint or composites
- Large handle for an easy grip
- Ideal for use on cylinder blocks or other large gasket mating surfaces
- Removes corrosion on flat metals (aluminum, steel, etc.) with suitable etch cleaners and rust removal solutions, primer preparation and cleaning
- Can be used with suitable chemicals, paint coatings, gel coats, etc.
- Ideal for lacquer/paint stripping and final smoothing on wood surfaces

PKNG90 Glass/Acrylic Large Scraper
- Designed for use on glass and acrylic surfaces
- Large handle for an easy grip
- Orange color visually identifies the difference from black nylon glass-filled products
- Works well when removing dirt/debris, windshield decals, adhesive mounts for mirrors, dealer stickers, tree sap, algae from fiberglass boats and window tinting

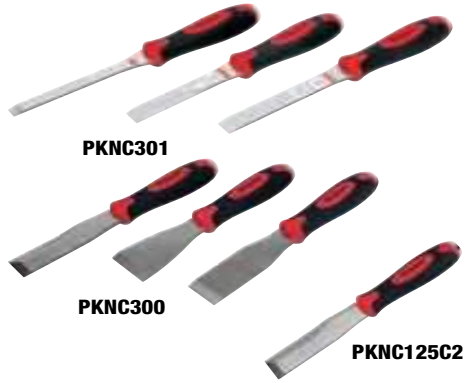

PKN90


PKNG90

⚠WARNING

- Keep away from children
- Read safety precautions on pages W1 to W4

SCRAPERS AND PUTTY KNIVES



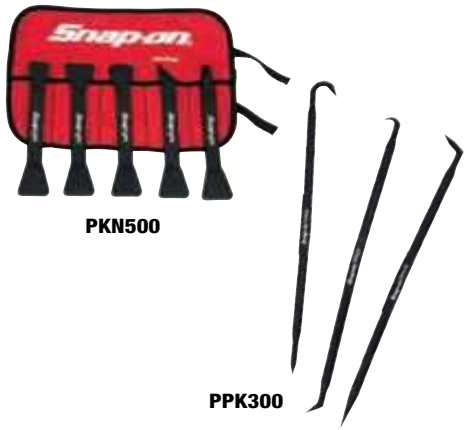
Striking Scrapers

- Striking cap is designed for hammering
- Heavy-duty blade extends through the handle and meets the cap to equally distribute the striking force
- Thick, polished, high-carbon steel for durability
- Ergonomic soft grip handle for a secure grip when striking
- Can be used as a chisel or scraper

Stock No.	Description	Blade Width, inches	Set Contains: PKNC301	PKNC300
PKNC150	Single Bevel	1-1/2		•
PKNC125C2	Dual Bevel	1-1/4		•
PKNC200	Single Bevel	2		•
PKNC050	Single Bevel	1/2	•	
PKNC075C2	Dual Bevel	3/4	•	
PKNC075	Single Bevel	3/4	•	

PKNC125C2 Dual Bevel Striking Scraper

- Dual bevel design for two distinct blade lengths
- Striking cap is designed for hammering
- Heavy-duty blade extends through the handle and meets the cap to equally distribute the striking force
- Thick, polished, high-carbon steel for durability
- Ergonomic soft grip handle for a secure grip when striking
- Can be used as a chisel or scraper









Non-Marring Scrapers

- Tips are matched for most popular applications, including badge/emblem/decal removal, gasket and molding removal, adhesive removal, and dirt and debris removal or cleaning
- Glass-reinforced nylon provides strength
- Lightweight and resistant to most automotive fluids
- Useable with hammers (block end/tap into position)
- Avoid scratching or gouging of soft materials

Stock No.	Blade Style	Blade Width, inches	Set Contains: PKN500	PSN500	PPK300*
PKN1	Straight Blade	7/8	•		
PKN2	Straight Blade	1-1/4	•		
PKN3	Curved Blade	1-1/8	•		
PKN4	Angle Blade	3/4	•		
PKN5	Curved Blade	5/8	•		
PKN7	Curve Tube	5/8		•	
PKN8	45° Non-Marring Cutter/Scraper	—			
PKN9	3 mm Narrow Scraper	—			
PKN10	Large Bill Nose Scraper	1			
PKN12	Large Diamond-Head Scraper	1-1/4			
PKN13	Tube Scraper	1-3/8			
PBN7	Flat Fork	1-3/8			
PBN10	90° L	5/8		•	
PBN11	Narrow Wedge	5/8		•	
PBN12	Curve Cup	5/8		•	
PBN14	Narrow Point	5/8		•	
PBN15	90° Pry Tool	1-1/4			
PPK15	Pick	—			•
PPK20	Small Hook	—			•
PPK25	Large Hook	—			•
Kit Bag	—	—	C0100	C0100	

*Includes storage pouch



Rigid Carbon Scrapers

- 1/4″ square shanks are flared to form scraping edge
- Classic screwdriver-type handle

Stock No.	Length, inches	Blade Width, inches	Set Contains: CSA300A*
CSA12C	12-7/8	1	•
CSA14C	14-1/8	1-1/2	•
CSA8C	7-5/8	7/8	•

Colors Available

*	Red	Orange	Green
	R	O	G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



USS103



PPK300 PSN500 PPN300

PBN10 PBN11

Knife Blade Scrapers (Blue-Point®)

- Remove gaskets, sealers and other caked-on materials
- Blade edge is designed to work effectively in both push and pull directions
- Stainless steel blades for durability
- Polished blades clean up easily
- Comfortable composite handles feature a contour thumb stop for maximum control and a wide hilt for control

Stock No.	Blade Style	Blade Length, inches	Length, inches	Set Contains: USS103
US710	Spoon	3-3/8	8	•
US711	Chisel Tip	2-1/2	7-1/8	•
US712	Oyster	2-1/8	6-3/4	•

Non-Marring Tools

Stock No.	Description	Set Contains: PPK300	PSN500*	PPN300
PBN10	90° L		•	
PBN11	Narrow Wedge		•	
PBN12	Curve Cup		•	
PBN14	Narrow Point		•	
PBN15	90° Pry Tool			
PKN7	Curve Tube		•	
PKN9	3 mm Narrow Scraper			
PKN10	Large Bill Nose Scraper			
PKN12	Large Diamond-Head Scraper			
PKN13	Tube Scraper			
PPK15	Pick	•		
PPK20	Small Hook	•		
PPK25	Large Hook	•		
PPN1030	7″ Dual Tip Narrow Prying/Smoothing Tool			•
PPN2040	7″ Medium Dual Tip Prying/Smoothing Tool			•
PPN4050	7″ Wide Dual Tip Prying/Smoothing Tool			•

*Includes storage pouch

Putty Knives/Scrapers (Blue-Point®)

- Full-length steel blades for strength and durability
- Soft molded rubber handles provide a sure grip and are resistant to most solvents

Stock No.	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Set Contains: PK500A
PK50A	3-1/2	2	Flexible	Straight	•
PK52A	3-19/32	1-1/4	Flexible	Straight	•
PK53A	3-19/32	1-1/4	Stiff Chisel	Single Bevel	•



PK500A

Brass Putty Knives/Scrapers (Blue-Point®)

- Spring-tempered solid-brass blades are non-marring, non-sparking, nonmagnetic and noncorrosive
- Soft molded rubber handles provide a sure grip and are resistant to most solvents
- Flared neck design helps protect against hand slipping during use
- Stiff blade style

Stock No.	Handle Length, inches	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Set Contains: PKB500A‡
PKB50A‡	4-7/8	3-1/2	2	Stiff	Straight	•
PKB52A‡	4-7/8	3-19/32	1-1/4	Stiff	Straight	•
PKB53A‡	4-7/8	3-19/32	Stiff	1-1/4	Single Bevel	•



PKB500A

Walnut Handle Scrapers (Blue-Point®)

- Quality crafted for hard scraping applications
- Walnut wood handle for comfort
- Full-length heavy-duty blades for strength
- Large steel cap for striking capability
- Remove gaskets, sealants and body weld breakaway

Stock No.	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Length, inches	Set Contains: PKWHD53A
PKWLR53A	5-1/2	1-1/4	Straight	Chisel	9-1/2	•
PKWSS53A	2-3/4	1-1/4	Straight	Chisel	6-3/4	•
PKWBS53A	3-3/8	1-1/4	Angled	Chisel	7-1/8	•



PKWHD53A

⚠WARNING

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SCRAPERS AND PUTTY KNIVES


PK23A

Maple Handle Putty Knife (Blue-Point®)

- Mirror-finish hardened-steel blade extends through the hardwood handle, solidly riveted for durability
- Maple handle has a metal bolster where the handle meets the blade

Stock No.	Handle Length, inches	Blade Width, inches	Blade Style	Edge
PK23A	3-7/8	1-1/4	Heavy Chisel	Single Bevel


CS1


PK70


MS400A


MS800


MS1300


MS3000


PKRS1

Scrapers

CS1 Flexible Wire Carbon Scraper (Blue-Point®)
- (10) blades made of oil-tempered spring steel
- Sliding ferrule is used to adjust to the required flexibility

PK70 Multipurpose Scraper (Blue-Point®)
- Used for gasket removal, deburring, car body work and rust removal
- Durable tungsten-carbide blades
- Ergonomic handle reduces fatigue
- Thumb grip allows precision scraping

PK70DROP Replacement Drop Blade (Blue-Point®)

PK70PEAR Replacement Pear Blade (Blue-Point®)

PK70ROUND Replacement Round Blade (Blue-Point®)

PK70TRI Replacement Triangular Blade (Blue-Point®)

MS400A 4″ Compact Scraper (Blue-Point®)
- Removes stickers, molding paint and decals
- Used with standard, single-edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage

MS800 8″ Standard Scraper (Blue-Point®)
- Removes stickers, molding paint and decals
- Use with standard, single edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage

MS1300 13″ Long Scraper (Blue-Point®)
- Removes stickers, molding paint and decals
- Use with standard, single edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage

MS3000 Scraper Set (Blue-Point®)
- Includes MS400, MS800, MS1300 and MSRPACK5 in a storage case

PKRS1 Ergonomic Grip Razor Scraper (Blue-Point®)
- Three blade positions: closed, open and loading
- Rubberized contour grip provides comfort and a sure gripping surface
- Uses YA1800 Replacement Blades

EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)


VGP18210


TC90A

Cutters

VGP18210 Chain Pipe Cutter (Blue-Point®)
- Quickly and easily cuts exhaust pipes with 13 alloy cutting wheels in the chain
- Cuts stainless steel, copper and PVC piping from 15–75 mm (19/32–2-15/16″) in diameter, up to 2.6 mm (3/32″) wall thickness
- Locking mechanism helps avoid lateral movement and misaligned cutting
- Large butterfly screw allows application of greater force to the cutting wheels with each series of cut

TC90A‡ Tailpipe Cutter (Blue-Point®)
- Handles cutting from 3/4–3-1/2″ dia
- 16-link cutter chain is 12″ long
- Threaded shaft with cross piece provides elasticity to help prevent the chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

TC90A1‡ Chain Assembly (Blue-Point®)
- Includes one wheel and one roll pin

EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)

Exhaust Tools

YA1300 Manifold Jack (set of 2) (Blue-Point®)
- Used to expand the manifold to its original shape and bolt hole alignment
- Used with a 3/4″ open end wrench

YA3202‡ Exhaust Hanger Removal Pliers (Blue-Point®)
- Removes hanger brackets from rubber mounting straps by placing jaw behind rubber grommet ring and forcing pin of pliers on the end of the steel hanger
- When handles are squeezed, the forcing pin pushes the ring off the hanger
- 14″ long


YA1300

YA3202

Expanders

PH800 Tailpipe Expander with Collets (Blue-Point®)
- Simple and convenient set for tailpipe expansion jobs
- Using an impact wrench the pipe stretcher is a convenient, inexpensive alternative to a hydraulic pipe expander
- Can be used right on the vehicle
- Includes PH300 and (5) aluminum collets
- Expands from 1-5/8–4-1/4″
- Includes molded storage case

PH300 Tailpipe/Exhaust Stretcher (Blue-Point®)
- Stretches all types of exhaust pipe, including stainless steel, from 1-5/8–2-7/16″
- Used with an impact wrench


PH800


PH300

TUBING, CUTTERS, FLARING AND BENDING



TC123C


TC123CRH


TC15A


TC25A


TC28C

Cutters

TC123C Tubing Cutter (Blue-Point®)
- Handles tubing from 1/8–5/8″ O.D.
- Can be used where clearance around tubing is less than 1-3/8″
- 1-1/2″ long when closed and 2″ long when open; feed knob is 7/8″ in diameter

TC123C1 Cutting Wheel
- Extra cutter wheel for TC123C Tubing Cutter

TC123CRH Ratcheting Tube Cutter Handle (Blue-Point®)
- Handle for TC123C Tubing Cutter

TC15A Ratcheting Tube Cutter
- Ratchet action allows cutting all the way around the tubing by simply pumping the handle
- Handles 1/8–3/8″ O.D. copper, plastic and PVC tubing
- Ideal for fuel, vacuum and air conditioning applications
- 3-7/8″ long

TC15-7C Cutting Wheel
- Standard replacement cutting wheel for TC15A Ratcheting Tubing Cutter

TC15-HSS Small Cutting Wheel
- High-speed steel cutting wheel

TC25A Ratcheting Tubing Cutter (Blue-Point®)
- Designed for automotive, plumbing, air conditioning, marine, chemical laboratories, refineries and hydraulic industries
- Cuts steel, copper, brass, aluminum, plastic and PVC sizes 5/16–1-1/8″ dia
- Ratcheting tubing cutter with unique spring-loaded action mechanism allows one or two tightening adjustments to complete the cut in very hard-to-reach places
- High-impact fiberglass handle is strong and lightweight

TC28C Tubing Cutter (Blue-Point®)
- Cuts soft metal tubing ranging from 1/8–1″ in diameter
- Handles 1/8–1-1/8″ O.D. capacity
- Micrometer-type adjustment
- Retractable locking reamer blade
- Cutter wheel is easily replaceable

TC28C1 Cutting Wheel
- Extra cutter wheel for TC28C tubing cutter

Universal Hydraulic Flaring Tool Set

TF600-2 Flaring Adaptor (5/16″) (Blue-Point®)
- 5/16″ flaring adaptor for push connect flares

TF600-3 Flaring Die Set (5/16″) (Blue-Point®)
- 5/16″ flaring die set for push connect flares

TF600-4 Flaring Adaptor (3/8″) (Blue-Point®)
- 3/8″ flaring adaptor for push connect flares

TF600-6 Flaring Adaptor (1/4″) (Blue-Point®)
- 1/4″ flaring adaptor for push connect flares

TF600-7 Flaring Die Set (1/4″) (Blue-Point®)
- 1/4″ flaring die set for push connect flares

TF7001 GM® Fuel Adaptor (5/16″) (Blue-Point®)
- 5/16″ GM® Fuel Line Adaptor

TF7002 GM® Fuel Die Set (5/16″) (Blue-Point®)
- 5/16″ GM® Fuel Line Die Set

TF7003 GM Fuel Adaptor (3/8″) (Blue-Point®)®
- 3/8″ GM® Fuel Line Adaptor

TF7004 GM Fuel Die Set (3/8″) (Blue-Point®)®
- 3/8″ GM® Fuel Line Die Set

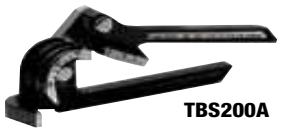
⚠WARNING

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TUBING, CUTTERS, FLARING AND BENDING



TBS100



TBS200A



TBS300

Bending Tools

TBS100 Tubing Bender (Blue-Point®)
- Bends tubing up to 1/4″ O.D.
- Bends copper, brass, bundy weld, non-coated brake lines and more
- Comfort grip handle
- 7″ long

TBS200A Multipurpose Tubing Bender (Blue-Point®)
- Makes left, right or offset bends up to a 90° angle
- Degrees shown on tool for accurate bends
- Handles 3/16, 1/4, 5/16 and 3/8″ (4, 6 and 8 mm) O.D. aluminum, copper and stainless steel tubing
- Aluminum unit is 8-1/4″ long when opened

TBS300 Tubing Bender (Blue-Point®)
- Easily bend 1/4, 5/16 and 3/8″ O.D. soft copper or aluminum tubing up to 180°
- Degrees, in 15° increments, shown on tool for accurate bends
- Pull lever to easily disengage the tool after bending
- Cushioned handles provide comfort and control, even with greasy hands
- Offset handles provide hand clearance when making 180° bends
- Lightweight die-cast aluminum construction
- 10-1/2″ long

TUBING: FLARING AND BENDING



TF528D



TF5A



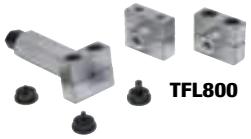
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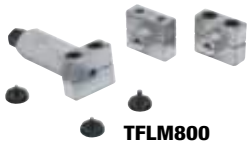
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TFL500



TFL800



TFLM800

Flaring Tool Sets (Blue-Point®)

TF528D Tube Cutting and Double Flaring Set (Blue-Point®)
- Includes a tubing cutter, double flaring set with a flaring bar, rod handle, yoke and (5) adaptors (3/16, 1/4, 5/16, 3/8 and 1/2″)
- Includes a storage case

TF5A‡ Double Flaring Tool Set (Blue-Point®)
- Makes double or single flares on soft steel, brass or aluminum tubing from 3/16–1/2″ O.D.
- Makes a smooth fitting, crack-free 45° flare
- Set includes (5) adaptors, a yoke assembly, bar assembly and handle
- Storage case included

TFM5A‡ Metric Double Flaring Tool Set (Blue-Point®)
- Same design as TF5A except for tubing with a O.D. from 4.75–10 mm
- Set includes a yoke, bar assembly, handle and (5) adaptors (4.75, 5, 6, 8 and 10 mm)

TF275A Flaring and Swaging Set (Blue-Point®)
- 45° flare or swage soft copper, brass or aluminum tubing
- Die blocks handle 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4″ O.D. tubing
- Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4″ O.D. tubing
- Includes TF275PB Storage Case

TFM428 Metric Bubble Flaring Set (Blue-Point®)
- For automotive brake systems
- Designed for crack-free bubble flares on soft wall tubing up to a .028″ wall thickness
- Adaptors included for 4.75, 6, 8 and 10 mm flares
- Includes TFM428PB storage case

TFL20MK‡ Master Inline Flaring Kit (Blue-Point®)
- Unique design locks the adaptors, cone, and tube in a perfect line to help make perfect factory flares every time
- Clamp and set screws put pressure directly over the tube, greatly reducing the chance of the tube slipping from the clamp; increases the overall life of the clamp by not wearing down the teeth inside from repeated slipping
- Slender low-profile design allows the user to make flares on the vehicle in tight spaces
- Flares can be achieved along the frame rails or areas in the engine compartment, saving the user time from having to remove components or complete lines to make repairs
- Kit includes the constant tension tubing cutter

TFL500‡ Flaring Kit (Blue-Point®)
- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16″ and 4.75 mm tubing
- Low-profile design allows for use on or off the car
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing

TFL800‡ Flaring Kit (Blue-Point®)
- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16″ and 4.75 mm tubing
- Low-profile design allows for use on or off the car
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing

TFLM800‡ Flaring Kit (Blue-Point®)
- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 4.75, 5, and 6 mm tubing
- Low-profile design allows for use on the car or off
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing


YA824C


SBP5


SBP3


YA8230


YA824ASTR


FSPPRK

Boot Pliers

YA824C Spark Plug Boot Pliers (Blue-Point®)
- 45° offset jaws
- Vinyl-coated jaws and handles assure gripping ability
- Used only on automotive type ignition systems
- 9-1/2″ long

YA824ASTR Boot Pliers (Blue-Point®)
- Straight jaw version of YA824C
- 9-3/4″ long

SBP5 Boot Pliers (Blue-Point®)
- Five positions for easy access to restricted spark plugs
- Internal spring keeps pliers in the open position
- Vinyl-coated jaws and handles
- Black industrial finish
- 10″ long

SBP3 Boot Pliers (Blue-Point®)
- Vinyl-coated offset jaw tips will pull most US and import spark plug boots, including the back plugs on late-model Porsche® and Mercedes-Benz® vehicles
- Vinyl-covered handles are cushioned for comfort

YA8230 Valve Stem Seal Pliers (Blue-Point®)
- Removes valve stem seals from overhead camshaft engines, including four valve-per-cylinder engines that have restricted access to the valve stem seal
- Gripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy-grip handles

Porcelain Extractors

FSPPRK Porcelain Extractor Set
- Used in combination with the FSPK Spark Plug Extractor set on Ford® vehicles to remove any porcelain left behind from the process of extracting the plug
- Tool does not push the porcelain through the sleeve, preventing engine damage
- Four cylinders can be worked on at one time to save time and money
- Set includes porcelain repair kit for use on Ford® vehicles, pins (10 pk), special Loctite® 680 adhesive (5 mL) to remove broken porcelain, clean out wire and blow-molded storage case
- Applications (engines covered): 4.6 L V8 2005–2008 (Ford® Mustang®, Explorer®, Mercury® Mountaineer®); 5.4 L V8 2004–2008 (Ford® F-150, F-250 Super-Duty, F-350 Super-Duty, E-450 Super-Duty, Expedition, Lincoln® Navigator®, Mark LT); 6.8 L V-10 2005–2008 (Ford® F-250 Super-Duty, F-350 Super-Duty, F-450 Super-Duty, F-550 Super-Duty, E-450 Super-Duty, E-450 Econoline®)

FSPPRK1‡ Porcelain Repair Kit for Ford® Vehicles
- Includes washer, center screw, guide, hex nut and end nut

FSPPRK2 Pins (10 pk)
- (10 pk)

FSPPRK3 Loctite® 680
- 5 mil

FSPPRK4‡ Clean Out Wire
- Cleans hole

FSPPRKPB Storage Case (Blue-Point®)

Spark Plug Extractors

FSPK‡ Spark Plug Extractors
- Removes broken spark plugs from the cylinder head on Ford® Triton 5.4 L three-valve engines, 4.6 L engines and 6.8 L engines without removing the head

Stock No.	Description	Set Contains: FSPK‡
FSPK1‡	Barrel	•
FSPK2‡	Threaded Shaft	•
FSPK3	Nut	•
FSPK4	Thrust Washer	•
FSPK5‡	Vinyl Cap	•
T910M	M9–1 Metric Thread Tap	

Optional Tap Holder TDL8-10


FSPK

Spark Plug Tools

SPRTLM203‡ 3 pc 3/8″ Drive Metric Spark Plug Rethread Kit
- 8″ lenght eliminates the need for extensions, allowing for a more positive feel while reducing the chance of cross-threading
- Eliminates the possibility of dropping the tool into the cylinder head
- Services all major vehicle platforms using 12, 14, and 16 mm spark plugs
- Taps feature a 5/8″ hex head and a 3/8″ square drive

SPRTLM12‡ 3/8″ Drive 12 mm Metric Spark Plug Rethreader

SPRTLM14‡ 3/8″ Drive 14 mm Metric Spark Plug Rethreader

SPRTLM16‡ 3/8″ Drive 16 mm Metric Spark Plug Rethreader


SPRTLM203


SPRTLM12


SPRTLM14


SPRTLM16

⚠WARNING



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

SPARK PLUG SERVICE TOOLS


YA832A


YA840


HB5PK


FRT10


FRT12


YA6845

Spark Plug Tools

YA832A Spark Plug Firing Indicator (Blue-Point®)
- Test spark plugs, coils and distributors on breaker point and electronic ignition systems
- Blunt nose tip prevents lead puncturing
- High-intensity bulb and viewing window for greater flash concentration
- 4-3/4″ long

YA840 In-Line Spark Tester (Blue-Point®)
- Quickly diagnoses ignition systems
- Works on all ignition systems including the distributorless type
- Status of indicator light shows if a problem exists in the ignition system or fuel system

HB5PK Spark Plug File Set
- Fine, single-cut tungsten file for smoothing or cleaning spark plug and other contact points
- Includes (2) HB5 spark plug files

FRT10 ‡ Spark Plug Insert Installer Set (Blue-Point®)
- Repairs damaged heads from blown spark plugs with an alloy steel insert in as little as 15–45 minutes
- Services modular cylinder heads on 4.6 L, 5.4 L and 6.8 L Ford® vehicles
- Set includes tap, core drill, guide, storage case, instructional DVD and spark plug insert

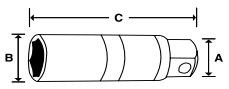
FRT12 ‡ Three-Valve Insert Kit for Ford® Vehicles (Blue-Point®)
- Repairs cylinders without removing the head
- Custom guide, tap and drill for quick and simple repair of damaged threads
- Unique insert installer makes the job quick and easy
- Works on three-valve 5.4 L and 6.8 L engines built before 10/9/2007
- Also works on three-valve 4.6 L engines built before 11/30/2007 found on many 2004–2008 Ford®, Lincoln® and Mercury® vehicles
- Set includes tap, core drill, guide, insert installer, insert and storage case

YA6845 Spark Plug Boot Remover
- For use on ripped or stuck spark plug boots
- Easily saves time, especially when the spark plug is in a recessed or confined area where vision is limited
- Made from high-quality heat-treated steel
- High-tech black finish

S9714MKDMAG 3/8″ Drive 12-Point Metric 14 mm Flank Drive® Magnetic Spark Plug Socket
- Spark plug extends through the socket for access in tight quarters
- Magnetic retention offers smooth release and will not wear out
- Side through-hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life
- Knurled surface for finger tightening and removal

FLANK DRIVE® SPARK PLUG SOCKETS


S9721A



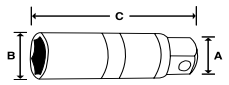
3/8″ Drive Double Swivel Universal

- Used for rear spark plug removal or installation on transverse V6 engines

11	6	C	Rubber Insert
5/8	S9721A	4-13/16	S9706KARI


S9706KFUA

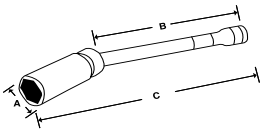

S9706KFUAMAG



Universal

#	6	A	B	C	Rubber Insert
13/16″	S9704KFUA	3/8	13/16	3-9/16	S9705A2
5/8″	S9706KFUA	3/8	5/8	3-23/32	S9706KARI
14 mm	S9714MKFUA	3/8	25/32	3-1/8	S9714MK-2
9/16″	S9716KFUA	3/8	3/4	2-15/16	S9714MK-2
5/8	S9706KFUAMAG	3/8	27/32	3-3/4	—


FSXK320A



3/8″ Drive Flexible Extensions

11	6	B	C	Rubber Insert
5/8	FSXK320A	2-15/32	5-11/32	S9706KARI


S9710KC

Ball Joint Swivel

11	6	C	Rubber Insert
13/16	S9709KB	3-25/32	S9705A2
5/8	S9710KC	3-25/32	S9706KARI


S9706KMAG

Magnetic

#	6	B	C
9/16	S9716KLMAG	25/32	5-7/8
5/8	S9706KMAG	27/32	2-27/32
13/16	S9704KMAG	1-1/16	2-11/16
14	S9714MKMAG	19.55	56.38


S9716KR


S9706KRFUA


S9704KR


S9714MKR

Retention

- Patented tapered hex design securely retains spark plug in socket without rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the plug in the center to avoid damage to the porcelain (US Patent #6,626,067)
- Spark plug is easily disengaged by applying gentle side pressure
- Spark plug extends through the socket for access in tight quarters
- Side through hole for secure extension retention for coil on plug applications
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats which deliver 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold-formed for extended tool life
- Knurled surface for finger tightening/removal
- External hex on standard models for restricted-access applications

#	6	A	B	C
9/16″	**S9716KR**	5/8	25/32	2-3/8
5/8″	**S9706KRFUA**	N/A	27/32	3-3/4
5/8″	**S9706KRA**	11/16	27/32	2-7/8
13/16″	**S9704KR**	7/8	1-1/16	2-27/32
14 mm	**S9714MKR**	16 mm	19.6 mm	60.3 mm

ANSI® B107.34M

S9704KR 3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Standard Retention Spark Plug Socket
- Applications include the removal and installation of 13/16″ spark plugs

S9706KRA 3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Standard Retention Spark Plug Socket
- Applications include 4.7 L engines used on Jeep® Commander and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment

S9706KRFUA 3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Universal Retention Spark Plug Socket
- Applications include 4.7 L engines used on Jeep® Commander and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment

S9714MKR 3/8″ Drive 6-Point Metric 14 mm Flank Drive® Retention Spark Plug Socket
- Applications include 14 mm spark plugs used in Nissan® 1.8 L Versa® and 2.0 L Sentra®, Mercedes® and BMW® vehicles

Special Application


S9723


S9704RHS


S9724RHS

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- 5/8″ offset spark plug socket for limited-access situations
- Side through-hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life

S9723 3/8″ Drive 12-Point SAE 5/8″ Flank Drive® Offset Spark Plug Socket
- Knurled surface for finger tightening and removal

S9704RHS 3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Low-Profile Spark Plug Socket
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Knurled surface for finger tightening and removal

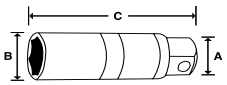
S9724RHS 3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Low-Profile Spark Plug Socket
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis

OGS1528 1/2″ Drive 6-Point SAE 7/8″ Spark Plug Socket
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Retaining ring holds the spark plug in the socket to aid in removal and installation
- Used for removing and installing spark plugs on large Waukesha® Engine Generators

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

FLANK DRIVE® SPARK PLUG SOCKETS




S9706KA


S6106KA


S9711KA


S9714MKL


S9714MK

Standard, inches

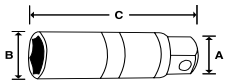
11	6	A	B	C	Rubber Insert
9/16	**S9716KA**	5/8	23/32	2-1/8	**S9714MK-2**
3/4	**S9718KA**	3/8	31/32	2-13/32	**S9705A2**
13/16	**S9704KA**	3/8	7/8	2-3/4	**S9705A2**
7/8	**S6106KA**	3/8	7/8	3-13/64	**S6106-2R**

ASME®/ANSI® B107.34M
Designed for aircraft applications

Standard, mm

mm	6	12	A	B	C	Rubber Insert
18	**S9711KA**	—	11/16″	24.3	66.9	**S9706KARI**
14	—	**S9714MK**	16.0	19.6	149.2	**S9714MK-2**
14	—	**S9714MKDL**	16.0	19.6	149.2	**S9714MK-2**
14	**S9714MKL**	—	16.0	19.6	149.2	**S9714MK-2**

ASME®/ANSI® B107.34M




S9714MKDFUA

Universal

mm	12	A	B	C	Style
14	**S9714MKDFUA**	3/8	25/32	3-1/8 (79.5)	12-Point

S9714MKDFUA 3/8″ Drive 12-Point Metric 14 mm Spark Plug Socket

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Side through hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life
- Knurled surface for finger tightening and removal


S9720KA

Extra-Deep

11	6	C	Rubber Insert
13/16	**S9719KA**	5-7/8	**S9719-2A**
5/8	**S9720KA**	5-31/32	**S9706KARI**
9/16	**S9716KL**	5-7/8	**S9714MK-2**

SPARK PLUG SOCKETS (Blue-Point®)


BLPSPS3858


BLPSPS381316

Spark Plug, Inches, Chrome (Blue-Point®)

11	6	Length, inches
5/8	**BLPSPS3858**	2-9/16
13/16	**BLPSPS381316**	2-1/4

Rethreading Tap and Die Set Components

Type	Size, inches (mm)	Stock No.	RTD48‡	TRC3‡	TRF3‡	RTD15M‡
NC Rethreading Taps 	1/4–20 (6.3–508)	TRT2520A‡	•	•		
	5/16–18 (8–457.2)	TRT3118A‡	•	•		
	3/8–16 (9.5–406.4)	TRT3716A‡	•	•		
	7/16–14 (11–355.6)	TRT4314A‡	•	•		
	1/2–13 (12.7–330.2)	TRT5013A‡	•	•		
	9/16–12 (14–304.8)	TRT5612A‡	•	•		
NF Rethreading Taps 	1/4–28 (6.3–711.2)	TRT2528A‡	•		•	
	5/16–24 (8–609.6)	TRT3124A‡	•		•	
	3/8–24 (9.5–609.6)	TRT3724A‡	•		•	
	7/16–20 (11–508)	TRT4320A‡	•		•	
	1/2–20 (12.7–508)	TRT5020A‡	•		•	
	9/16–18 (14–457.2)	TRT5618A‡	•		•	
Metric Rethreading Taps 	(M6 x 1)	TRT51‡	•			•
	(M8 x 1.25)	TRT53‡	•			•
	(M10 x 1.5)	TRT54‡	•			•
	(M10 x 1.25)	TRM1025-2‡	•			•
	(M12 x 1.75)	TRT55‡	•			•
	(M12 x 1.5)	TRT56‡	•			•
	(M12 x 1.25)	TRT57‡	•			•
	(M10 x 1.00)	TRT101‡	•			
	(M11 x 1.50)	TRT11150‡	•			
	(M14 x 1.50)	TRT14150‡	•			
NC Rethreading Dies 	1/4–20 (6.3–508)	TR2520A‡	•	•		
	5/16–18 (8–457.2)	TR3118A‡	•	•		
	3/8–16 (9.5–406.4)	TR3716A‡	•	•		
	7/16–14 (11–355.6)	TR4314A‡	•	•		
	1/2–13 (12.7–330.2)	TR5013A‡	•	•		
	9/16–12 (14–304.8)	TR5612A‡	•	•		
	5/8–11 (15.8–279.4)	TR6211A‡	•	•		
	3/4–10 (19–254)	TR7510A‡		•		
	7/8–9 (22–228.6)	TR8759A‡		•		
	1-8	TR10008A‡		•		
	1-1/8–7 (28.5–177.8)	TR11257A‡		•		
	1-1/4–7 (31.7–177.8)	TR12507A‡		•		
NF Rethreading Dies 	1/4–28 (6.3–711.2)	TR2528B‡	•		•	
	5/16–24 (8–609.6)	TR3124B‡	•		•	
	3/8–24 (9.5–609.6)	TR3724B‡	•		•	
	7/16–20 (11–508)	TR4320B‡	•		•	
	1/2–20 (12.7–508)	TR5020B‡	•		•	
	9/16–18 (14–457.2)	TR5618B‡	•		•	
	5/8–18 (15.8–457.2)	TR6218B‡	•		•	
	3/4–16 (19–406.4)	TR7516A‡			•	
	7/8–14 (22–355.6)	TR8714A‡			•	
	1-14	TR10014A‡			•	
	1-1/8–12 (28.5–304.8)	TR11212A‡			•	
	1-1/4–12 (31.7–304.8)	TR12512A‡			•	
Metric Rethreading Dies 	(M6 x 1)	TDM51B‡	•			•
	(M8 x 1.25)	TDM53B‡	•			•
	(M10 x 1.25)	TRM1025-1‡	•			•
	(M10 x 1.5)	TDM54B‡	•			•
	(M12 x 1.75)	TDM55B‡	•			•
	(M12 x 1.5)	TDM56B‡	•			•
	(M12 x 1.25)	TDM57B‡	•			•
	(M10 x 1.00)	TR101‡	•			
	(M11 x 1.50)	TR11150‡	•			
	(M14 x 1.50)	TR14150‡	•			



RTD48

RTD48‡ 48 pc Master Rethreading Tap and Die Set
- Includes taps and dies, plus thread restorer files
- Repair or renew damaged threads using a socket or wrench (not for hardened threads or cutting the threads)
- Includes a rugged storage case



TRC3

TRC3 18 pc Coarse US Rethreading Tap Set (Blue-Point®)
- Includes (6) NC taps and (12) NC dies
- Silver finish



TRF3

TRF3 18 pc Fine US Rethreading Tap Set (Blue-Point®)
- Includes (6) NF taps and (12) NF dies
- Black finish



RTD15M

RTD15M‡ 14 pc Metric Tap and Die Set (Blue-Point®)
- Includes (7) metric dies and (7) metric taps
- Gold finish

WSK12-1‡ M14 x 2.00 Stud Installer (Blue-Point®)
WSK12-PB‡ Plastic Box (Blue-Point®)
WSK755-2‡ M14 x 1.50 Socket (Blue-Point®)
WSK755-3‡ 1/2″ -20 Socket (Blue-Point®)
WSK755-5‡ Washer (Blue-Point®)
WSK755-6‡ Spacer (Blue-Point®)
WSK938-3‡ M12 x 1.25 Socket (Blue-Point®)
WSK938-4‡ M12 x 1.50 Socket (Blue-Point®)

⚠WARNING

- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steel
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

THREADING: TAP AND DIE SETS

SAE/Metric Combination Set

TDTDM117A 117 pc Master Tap and Die Set

- Includes all components of the TDTDM500A SAE/Metric set plus 41 pc 118° high-speed steel drill bit set in SAE, metric, wire gauge and letter sizes, and (5) spiral screw extractors
- Each drill bit matches to corresponding tap size for correct fit
- Set offers a complete assortment of high-carbon steel taps and dies in SAE and metric sizes
- Tap/drill charts and tool diagrams included
- Set packaged in a storage case



TDTDM117A TD9902B TD2425 TDTDM500A

National Fine Threads (adjustable dies)	Thread Size	Tap Stock No.	Die Stock No.	Die Type	US Set (TD9902B)	US Set (TD9902)	US Set (TD2425)	US Set (TDP6)	US/Metric Set (TDTDM500A)
	1/4"-28 NF	T105	D015	1″ Double Hex Adjustable		•	•		•
	5/16″-24 NF	T106	D016	1″ Double Hex Adjustable		•	•		•
	3/8″-24 NF	T107	D017	1″ Double Hex Adjustable		•	•		•
	7/16″-20 NF	T108	D018	1″ Double Hex Adjustable		•	•		•
	1/2″-20 NF	T109	D019	1″ Double Hex Adjustable		•	•		•
	1/2″-20 NF	—	DR019	1-1/2″ Round Adjustable	•				
	9/16″-18 NF	T125	DR035	1-1/2″ Round Adjustable	•	•			
	5/8″-18 NF	T126	DR036	1-1/2″ Round Adjustable	•	•			
	3/4″-16 NF	T127	DR037	1-1/2″ Round Adjustable	•	•			
	7/8″-14 NF	T128	DR042	2″ Round Adjustable	•	•			
	1″-14 NF	T129	DR043	2″ Round Adjustable	•	•			
National Fine Threads (non-adjustable dies)	1/4″-28 NF	T105	GA541-1428	1″ Single Hex Non-Adjustable					
	5/16″-24 NF	T106	—	—					
	3/8″-24 NF	T107	GA541-3824	1″ Single Hex Non-Adjustable					
	7/16″-20 NF	T108	—	—					
	1/2″-20 NF	T109	—	—					
National Coarse Threads (adjustable dies)	1/4″-20 NC	T100	D010	1″ Double Hex Adjustable		•	•		•
	5/16″-18 NC	T101	D011	1″ Double Hex Adjustable		•	•		•
	3/8″-16 NC	T102	D012	1″ Double Hex Adjustable		•	•		•
	7/16″-14 NC	T103	D013	1″ Double Hex Adjustable		•	•		•
	1/2″-13 NC	T104	D014	1″ Double Hex Adjustable		•	•		•
	1/2″-1 NC	—	DR014	1-1/2″ Round Adjustable		•			
	9/16″-12 NC	T120	DR030	1-1/2″ Round Adjustable	•	•			
	5/8″-11	T121	DR031	1-1/2″ Round Adjustable	•	•			
	3/4″-10 NC	T122	DR032	1-1/2″ Round Adjustable	•	•			
	7/8″-9 NC	T123	DR040	2″ Round Adjustable	•	•			
	1″-8 NC	T124	DR041	2″ Round Adjustable	•	•			
National Coarse Threads (non-adjustable dies)	1/4″-20 NC	T100	GA541-1420	1″ Single Hex Non-Adjustable					
	5/16″-18 NC	T101	GA541-51618	1″ Single Hex Non-Adjustable					
	3/8″-16 NC	T102	GA541-3816	1″ Single Hex Non-Adjustable					
	7/16″-14 NC	T103	GA541-71614	1″ Single Hex Non-Adjustable					
	1/2″-13 NC	T104	GA541-1213	1″ Single Hex Non-Adjustable					
Machine Screw Threads (adjustable dies)	4-40	T111A	D021A	5/8″ Double Hex Adjustable		•	•		•
	6-32	T112	D022	5/8″ Double Hex Adjustable		•	•		•
	8-32	T113	D023	5/8″ Double Hex Adjustable		•	•		•
	10-24	T114	D024	5/8″ Double Hex Adjustable		•	•		•
	10-32	T115	D025	5/8″ Double Hex Adjustable		•	•		•
	12-24	T116	D026	5/8″ Double Hex Adjustable		•	•		•
Machine Screw Threads (non-adjustable dies)	4-40	T111A	—	—					
	6-32	T112	GA541-632	5/8″ Single Hex Non-Adjustable					
	8-32	T113	—	—					
	10-24	T114	GA541-1024	5/8″ Single Hex Non-Adjustable					
	10-32	T115	GA541-1032	5/8″ Single Hex Non-Adjustable					
	12-24	T116	GA541-1224	5/8″ Single Hex Non-Adjustable					
Pipe Threads (adjustable dies)	1/8″-27 NPT	T110	—	—			•	•	•
	1/8″-27 NPT	—	D020	1″ Double Hex Non-Adjustable		•	•		•
	1/4″-18 NPT	T130	—	—	•	•		•	
	1/4″-18 NPT	—	DR033	1-1/2″ Round Adjustable	•	•			
	3/8″– 18 NPT	T131	—	—				•	
	1/2″-14 NPT	T132	—	—				•	
	3/4″-14 NPT	T133	—	—				•	
	1″-11-1/2″ NPT	T134	—	—				•	
Pipe Threads (non-adjustable dies)	1/8″-27 NPT	T110	GA541-1827	1″ Double Hex Non-Adjustable					

TDP6-1 Wood Box (for TDP6) (Blue-Point®)
TDTDM500AMT Plastic Box (for TDTDM500A)

Master Spindle Rethreading Set

Stock No.	Rethreading Die Size	Set Contains: RD20‡
RD7-1‡	M24 x 1.5	•
RD7-2‡	M24 x 2	•
RD7-3‡	M22 x 1	•
RD7-4‡	M22 x 1.5	•
RD7-5‡	M20 x 1.5	•
RD7-6‡	3/4″-20	•
RD7-7‡	13/16″-20	•
RD7-9‡	M20 x 1.25	•
RD7-10‡	3/4″-16 NF	•
RD7-11‡	7/8″-14 NF	•
RD7-12‡	1″-14 NS	•
RD7-13‡	11/16″-24 NF	•
RD7-14‡	M25-1.5	•
RD7-15‡	M27-2	•
RD7-16‡	27/32″-20 NF	•
RD7-17‡	M16-1	•
RD7-18‡	M16-1.5	•
RD7-19‡	M18-1.5	•
RD7-20‡	M19-1.5	•
RD7-21‡	M20-1	•
RD7-22‡	Storage Case	



RD20

RD20‡ 20 pc Master Spindle Rethreading Set
- Repair and renew damaged threads on stub axles and spindles for most vehicles
- Dies are manufactured from high-tempered steel for strength and durability
- Each die size is embossed in the case directly below each die for easy identification and selection
- 6-point hex used with socket or wrench
- Application chart included
- Includes storage case

Spindle Rethreading Set

RD8‡ 8 pc Spindle Rethreading Set
- For most imported or US front wheel drive vehicles

Stock No.	Rethreading Die Size	Set Contains: RD8‡
RD7-1‡	M24 x 1.5	•
RD7-2‡	M24 x 2	•
RD7-3‡	M22 x 1	•
RD7-4‡	M22 x 1.5	•
RD7-5‡	M20 x 1.5	•
RD7-6‡	3/4″-20	•
RD7-7‡	13/16″-20	•
RD7-9‡	M20 x 1.25	•



RD8

Light Truck Spindle Rethreading Set

RD8LT‡ 8 pc Light Truck Spindle Rethreading Set (Blue-Point®)
- For use on 4WD front and rear axle housings, and medium- to heavy-duty 2WD trucks (rear axle)
- Restore axle housing and bearing/ hub retention threads

Stock No.	Rethreading Die Size	Set Contains: RD8LT‡
RD7-23‡	2″-16	•
RD7-25‡	1-5/8″-16	•
RD7-27‡	Left Hand, 2″-16	•
RD7-28‡	2-1/8″-16	•
RD7-29‡	2-1/4″-16	•



RD8LT

⚠WARNING

- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steel
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

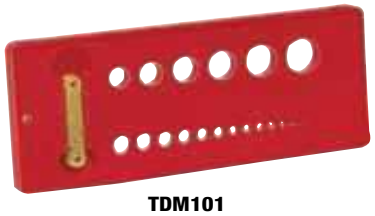
THREAD RESTORING: FILES AND THREAD CHASERS



T14125

Metric Spark Plug Hole Taps

Stock No.	Size
T10100	M10 x 1.00
T12125	M12 x 1.25
T14125	M14 x 1.25
T18150	M18 x 1.50
T2818	7/8″-18 NF



TDM101

Thread Gauge

TDM101 Metric Bolt and Thread Gauge
- Bolt diameter range of 2.3–24 mm (with inch/decimal equivalents)
- Thread gauge sizes: .35–3 mm



TD1040

Tap and Die Accessories

TD1040 SAE Thread Pitch Gauge
- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



TFTFM932A

Thread Restoring Files

TFTFM932A 3 pc Thread Restoration File Set (Blue-Point®)
- Includes (3) commonly needed files
- Files feature a black industrial finish and comfortable vinyl handles
- Files service a range of 9–32 threads per inch and 0.75–3 mm pitches
- Includes a TFTFM932-1 Vinyl Kit Bag for storage

TF1124B‡ Thread Restorer File (Blue-Point®)
- 11, 12, 13, 14, 16, 18, 20 and 24 threads per inch

TF1127B‡ Thread Restorer File (Blue-Point®)
- 9, 10, 12, 16, 20, 27, 28 and 32 threads per inch

TFM7530B‡ Thread Restorer File (Blue-Point®)
- For any diameter right- or left-hand threads
- Removable vinyl handle
- Eight pitches: .75, 1, 1.25, 1.5, 1.75, 2, 2.5 and 3 mm



TF1124B

• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.


TD9902B


TD2425


TDTDM500A


TDM99117


TDM99117B


TDM117A

	Thread Size	Tap Stock No.	Die Stock No.	Die Type	SAE Set	SAE Set	SAE Set	SAE/ Metric Set	Metric Set	Metric Set	SAE/ Metric Set
	Set Contains:	TD9902B	TD9902	TD2425	TDTDM500A	TDM99117	TDM99117B	TDM117A			
Metric Threads	M3 x .50	**T305M**	**D305M**	5/8″ Double Hex Adjustable				•	•		•
	M3 x .60	**T306M**	**D306M**	5/8″ Double Hex Adjustable							
	M4 x .70	**T407M**	**D407MA**	5/8″ Double Hex Adjustable				•	•		•
	M4 x .75	**T4075M**	**D4075M**	5/8″ Double Hex Adjustable				•	•		•
	M5 x .80	**T508M**	**D508MA**	5/8″ Double Hex Adjustable				•	•		•
	M5 x .90	**T509M**	**D509M**	5/8″ Double Hex Adjustable				•	•		•
	M6 x 1.00	**T610M**	**D610MA**	5/8″ Double Hex Adjustable				•	•		•
	M7 x 1.00	**T710M**	**D710M**	1″ Double Hex Adjustable				•	•		•
	M8 x 1.00	**T810M**	**D810M**	1″ Double Hex Adjustable				•	•		•
	M8 x 1.25	**T812M**	**D812M**	1″ Double Hex Adjustable				•	•		•
	M9 x 1.00	**T910M**	**D910M**	1″ Double Hex Adjustable				•	•		•
	M9 x 1.25	**T912M**	**D912M**	1″ Double Hex Adjustable				•	•		•
	M10 x 1.25	**T1012M**	**D1012M**	1″ Double Hex Adjustable				•	•		•
	M10 x 1.5	**T1015M**	**D1015M**	1″ Double Hex Adjustable				•	•		•
	M11 x 1.5	**T1115M**	**D1115M**	1″ Double Hex Adjustable				•	•		•
	M12 x 1.5	**T1215M**	**D1215M**	1″ Double Hex Adjustable				•	•		•
	M12 x 1.75	**T1217M**	**D1217M**	1″ Double Hex Adjustable				•	•		•
	M14 x 1.25	**T1412M**	**DR1412M**	1-1/2″ Round Adjustable					•	•	
	M14 x 1.5	**T1415M**	**DR1415M**	1-1/2″ Round Adjustable					•	•	
	M14 x 2.0	**T1420M**	**DR1420M**	1-1/2″ Round Adjustable					•	•	
	M16 x 1.5	**T1615M**	**DR1615M**	1-1/2″ Round Adjustable					•	•	
	M16 x 2.0	**T1620M**	**DR1620M**	1-1/2″ Round Adjustable					•	•	
	M18 x 1.5	**T1815M**	**DR1815M**	1-1/2″ Round Adjustable					•	•	
	M18 x 2.5	**T1825M**	**DR1825M**	1-1/2″ Round Adjustable					•	•	
	M20 x 2.5	**T2025M**	**DR2025M**	2″ Round Adjustable					•	•	
	M22 x 1.5	**T2215M**	**DR2215M**	2″ Round Adjustable					•	•	
	M24 x 2.0	**T2420M**	**DR2420M**	2″ Round Adjustable					•	•	
	M24 x 3.0	**T2430M**	**DR2430M**	2″ Round Adjustable					•	•	
	1/8″-28 BSP	**T110M**	**D020M**	1″ Double Hex Non-Adjustable				•	•		•
Accessories	**Thread Size**		**Stock No.**	**Die Type**							
	TD3A Die Stock		**TD3A**	For 5/8″ Double Hex Dies	•	•	•	•	•		•
	TD10A Die Stock		**TD10A**	Self-Centering for 1″ Double Hex Dies	•	•	•	•	•		•
	TD35 Die Stock		**TD35**	Self-Centering for 1-1/2″ Dia. Round Dies	•	•			•	•	
	TD40 Die Stock		**TD40**	Self-Centering for 2″ Dia. Round Dies	•	•			•	•	
	TD4 Tap Wrench		**TD4**	4 Jaw, for 0–1/4″ Taps	•	•	•	•	•		•
	TF50 Tap Wrench		**TD50**	4 Jaw for 1/4–1/2″ (M7 x 1.00–M12 x 1.75) Taps	•	•	•	•	•		•
	TD88A Tap Wrench		**TD88A**	Clamp Type, for 0–1/2″ (M3 x 0.50–M12 x 1.75) Taps	•	•	•	•	•		•
	TD98A Tap Wrench		**TD98A**	Clamp Type for 0–1″ (M7 x 1.00–M24 x 3.0) Taps	•	•			•	•	
	SAE Thread, Pitch Gauge		**TD1040**	SAE	•	•		•			
	Metric Thread, Pitch Gauge		**TDM100**	Metric				•	•		•
	TDS1 Screwdriver		**TDS1**	For Adjusting Dies	•	•	•	•	•		•

⚠WARNING

- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steal
- Read safety precautions on pages W1 to W4

THREADING: TAPS AND DIE SETS


T1412M


T18150


TDM100


ATSL


TMA34

TMA34 34 pc Metric Tap Set
- 34 pc set features popular metric taps from 3–18 mm sizes
- Precision ground flutes ensure accurate threading
- High-carbon steel ensures less breakage
- Tap adaptors turn any 3/8″ socket drive into a tap driver

Metric Tap Set

Stock No.	Thread Size	Stock No.	Thread Size	Stock No.	Thread Size
T305M	M3 x .50	T912M	M9 x 1.25	T1610M	M16 x 1.00
T306M	M3 x .60	T1010M	M10 x 1.00	T1615M	M16 x 1.50
T4075M	M4 x .75	T1012M	M10 x 1.25	T1620M	M16 x 2.00
T407M	M4 x .70	T1015M	M10 x 1.50	T18150	M18 x 1.50
T508M	M5 x .80	T1115M	M11 x 1.50	T1815M	M18 x 1.50
T509M	M5 x .90	T1212M	M12 x 1.25	T1825M	M18 x 2.50
T610M	M6 x 1.00	T1215M	M12 x 1.50	TDM100	—
T6310M	M6.33 x 1	T1217M	M12 x 1.75	ATSS	Adj. Tap Socket, 3–6 mm (3/8″ Drive)
T710M	M7 x 1.00	T14125	M14 x 1.25		
T810M	M8 x 1.00	T1412M	M14 x 1.25	ATSL	Adj. Tap Socket, 6–12 mm (3/8″ Drive)
T812M	M8 x 1.25	T1415M	M14 x 1.50		
T910M	M9 x 1.00	T1420M	M14 x 2.00		


GAM541

GAM541 41 pc Metric Tap and Die Set (Blue-Point®)
- 41 pc set features 1″ single hex non-adjustable dies from 3–12 mm, a 1/8″-28 BSP die, plus taps in the same sizes
- Also includes a die stock, (2) T-handle tap wrenches, a thread pitch gauge, a drill/tap chart, screwdriver and storage case


GA541

GA541 41 pc SAE Tap and Die Set (Blue-Point®)
- 41 pc set features taps and dies from #4 to 1/2″ in both NF and NC threads, a pipe thread tap and die, plus (2) die stocks and (3) tap wrenches, a screw pitch gauge, screwdriver and a storage case

SAE Left-Hand Tap and Die Sets

Stock No.	Description	Thread Size
DLH010	Left Hand Die	1/4-20 NC
DLH011	Left Hand Die	5/16-18 NC
DLH012	Left Hand Die	3/8-16 NC
DLH013	Left Hand Die	7/16-14 NC
DLH014	Left Hand Die	1/2-13 NC
DLH015	Left Hand Die	1/4-28 NF
DLH016	Left Hand Die	5/16-24 NF
DLH017	Left Hand Die	3/8-24 NF
DLH018	Left Hand Die	7/16-20 NF
DLH019	Left Hand Die	1/2-20 NF
DLH021	Left Hand Die	4-40 NC
DLH022	Left Hand Die	6-32 NC
DLH023	Left Hand Die	8-32 NC
DLH024	Left Hand Die	10-24 NC
DLH025	Left Hand Die	10-32 NF
DLH026	Left Hand Die	12-24 NC
TLH100	Left Hand Tap	1/4-20 NC Plug
TLH101	Left Hand Tap	5/16-18 NC Plug
TLH102	Left Hand Tap	3/8-16 NC Plug
TLH103	Left Hand Tap	7/16-14 NC Plug

Stock No.	Description	Thread Size
TLH104	Left Hand Tap	1/2-13 NC Plug
TLH105	Left Hand Tap	1/4-28 NF Plug
TLH106	Left Hand Tap	5/16-24 NF Plug
TLH107	Left Hand Tap	3/8-24 NF Plug
TLH108	Left Hand Tap	7/16-20 NF Plug
TLH109	Left Hand Tap	1/2-20 NF Plug
TLH111	Left Hand Tap	4-40 NC Plug
TLH112	Left Hand Tap	6-32 NC Plug
TLH113	Left Hand Tap	8-32 NC Plug
TLH114	Left Hand Tap	10-24 NC Plug
TLH115	Left Hand Tap	10-32 NF Plug
TLH116	Left Hand Tap	12-24 NC Plug
TDALTSB	T-Bar for Adj. Tap Socket	—
TDALDS1	Die-Stock 1 Double Hex Dies	—
TDALDSS	Die Spacer	—
TDALTS1	Adjustable Tap Socket	0–1/4″
TDALTS2	Adjustable Tap Socket	1/4–1/2″
TD1040	SAE Thread, Pitch Gauge	—
TDM1040	Metric Thread Pitch Gauge	Metric

TDLH139 Left-Hand Thread Tap and Die Set
- Built exclusively for left-hand applications
- Set comprises the most popular SAE left-hand taps and dies: #4–1/2″ sizes
- High-quality handle with (2) adjustable tap sockets (0–1/4″ and 1/4–1/2″) provides secure, precise hold during tapping applications


TDLH139

Tap and Die Drive Tool System

TDM100 Metric Thread Pitch Gauge

TDRSET 7 pc Tap and Die Drive Tool Set
- Set includes (1) die stock, (2) adjustable tap sockets, (1) die spacer, (1) T-bar handle, (1) SAE thread pitch gauge and (1) metric thread pitch gauge

TDALDS1 1″ Double Hex Die Stock
- Features a twist die lock, so no set screws are needed
- Simply twist to insert or remove the die
- Ergonomic handles for comfort and control when threading
- Fits 1″ double hex dies

TDALTS2 1/4–1/2″ Adjustable Tap Socket
- For 1/4″ and 1/2″ (M7 x 1.00 and M12 x 1.75) taps
- Versatile base can be driven with die stock, 3/8″ ratchet or T-bar handle

TDALTSB T-Bar Handle (For TDALTS)
- For TDALTS1 and TDALTS2 Adjustable Tap Sockets

TD1040 SAE Thread Pitch Gauge
- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



TDM100



TDRSET



TD1040

SAE/Metric Tap Set

TAMA141 SAE/Metric Plug Tap Set
- Built for those who frequently tap and need a comprehensive set of taps
- Wide array of taps in most popular SAE and metric sizes
- High-quality handle with two adjustable tap sockets (0-1/4″ and 1/4–1/2″) provides secure, precise hold during tapping applications



TAMA141

Stock No.	Description	Thread Size	Set Contains: TAMA141
T100	1″ Double Hex Adjustable Tap	1/4″-20 NC	•
T101	1″ Double Hex Adjustable Tap	5/16″-18 NC	•
T1012M	Metric Double Hex Tap	M10 x 1.25	•
T1015M	Metric Double Hex Tap	M10 x 1.50	•
T102	1″ Double Hex Adjustable Tap	3/8″-16 NC	•
T103	1″ Double Hex Adjustable Tap	7/16″-14 NC	•
T104	1″ Double Hex Adjustable Tap	1/2″-13 NC	•
T105	National Fine Thread Tap	1/4″-28 NF	•
T106	National Fine Thread Tap	5/16″-24 NF	•
T107	National Fine Thread Tap	3/8″-24 NF	•
T108	National Fine Thread Tap	7/16″-20 NF	•
T109	National Fine Thread Tap	1/2″-20 NF	•
T110	Pipe Thread Tap	1/8″-27 NPT	•
T110M	Metric Double Hex Tap	1/8″-28 BSP	•
T1115M	Metric Double Hex Tap	M11 x 1.50	•
T111A	5/8″ Double Hex Adjustable Tap	4-40	•
T112	5/8″ Double Hex Adjustable Tap	6-32	•
T113	5/8″ Double Hex Adjustable Tap	8-32	•
T114	5/8″ Double Hex Adjustable Tap	10-24	•
T115	5/8″ Double Hex Adjustable Tap	10-32	•
T116	5/8″ Double Hex Adjustable Tap	12-24	•

Stock No.	Description	Thread Size	Set Contains: TAMA141
T1212M	Right-Hand Plug Tap	M12 x 1.25	•
T1217M	Metric Double Hex Tap	M12 x 1.75	•
T305M	Metric Double Hex Tap	M3 x .50	•
T4075M	Metric Double Hex Tap	M4 x .75	•
T407M	Metric Double Hex Tap	M4 x .70	•
T508M	Metric Double Hex Tap	M5 x .80	•
T509M	Metric Double Hex Tap	M5 x .90	•
T610M	Metric Double Hex Tap	M6 x 1.00	•
T710M	Metric Double Hex Tap	M7 x 1.00	•
T810M	Metric Double Hex Tap	M8 x 1.00	•
T812M	Metric Double Hex Tap	M8 x 1.25	•
T910M	Metric Tap	M9 x 1.00	•
T912M	Metric Double Hex Tap	M9 x 1.25	•
TDM100	Metric Thread Pitch Gauge	—	•
TD1040	SAE Thread, Pitch Gauge	—	•
TDALDS1	Die-Stock 1 Double Hex Dies	—	•
TDALDSS	Die Spacer	—	•
TDALTS1	Adjustable Tap Socket	0–1/4″	•
TDALTS2	Adjustable Tap Socket	1/4–1/2″	•
TDALTSB	T-Bar for Adj. Tap Socket	—	•

⚠WARNING • Read safety precautions on pages W1 to W4

TAP SOCKETS AND DIE SETS



TDL8

TDL8 8 pc Tap Socket Set (Blue-Point®)
- Rubber O-rings hold taps securely in place
- For use with ratchets and handles
- Black industrial finish

1/4–3/8″ Drive Tap Sockets

Set Contains: TDL8

Stock No.	Square Drive, inches	Fits SAE Size Taps	Fits Metric Size Taps	Shank Dia., inches	Square Size, inches	
TDL8-1	1/4	#1, #2, #3, #4, #5, #6	M1.6, M1.8, M2, M2.2, M2.5, M3, M3.15, M3.5	.141	.110	•
TDL8-2	1/4	#8	M4	.168	.131	•
TDL8-3	1/4	#10	M4.5, M5	.194	.152	•
TDL8-4	1/4	1/4″	M6, M6.3	.255	.191	•
TDL8-5	3/8	5/16″, 7/16″	M7, M8	.323	.242	•
TDL8-6	3/8	3/8″	M10	.381	.286	•
TDL8-7	3/8	1/2″	M12, M12.5	.367	.275	•
TDL8-8	3/8	1/8″ NPT	—	.437	.328	•

THREADING: TAP SOCKETS AND DIE SETS

Ratcheting Tap Wrenches (Blue-Point®)

YA577A T-Handle Ratcheting Tap Wrench (Blue-Point®)
- For taps up to 1/4″
- Ratchet clockwise or counterclockwise
- 3-3/8″ long body, 3-15/16″ handle



YA577A

YA578A 1/4–1/2″ Ratcheting Tap Wrench (Blue-Point®)
- For 1/4–1/2″ taps
- Ratchet clockwise or counterclockwise
- 4-3/8″ long body, 4-3/4″ handle

Thread Pitch Gauges

TD1040 SAE Thread Pitch Gauge
- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



TD1040

1/2″ Drive Tap Sockets

Set Contains: TDL3

Stock No.	Square Drive, inches	Fits SAE Size Taps	Fits Metric Size Taps	Shank Dia., inches	Square Size, inches	
TDL31	1/2	5/8	16 mm	.480	.360	•
TDL32	1/2	11/16	18 mm	.542	.406	•
TDL33	1/2	3/4	—	.590	.442	•



TDL3

TDL3 3 pc 1/2″ Drive Tap Socket Set (Blue-Point®)
- Includes (3) tap sockets
- Used in restricted areas where a T-handle will not easily fit
- Manufactured to M.C.T.I. standards
- Black industrial finish

Adjustable Tap Sockets

ATSL 3/8″ Drive 3–6 mm Adjustable Tap Socket
- Fits common taps from 1/4–1/2″ (6–12 mm)

ATSS 3/8″ Drive 6–12 mm Adjustable Tap Socket
- Fits common taps from #6-1/4″ (3–6 mm)

ATSSET 2 pc Adjustable Tap Socket Set
- Includes ATSS and ATSL



ATSL



ATSS

PLUG TAPS AND DIES

Plug Taps



T1010M

	Stock No.	Thread Size	Thread Pitch
Tap	T111	4-36	Right-Hand
	T6310M	M6.33 x 1	Right-Hand
	T1010M	M10 x 1.00	Right-Hand
	T1112M	M11 x 1.25	Right-Hand
	T1212M	M12 x 1.25	Right-Hand
	T1412M	M14 x 1.25	Right-Hand
	T1415M	M14 x 1.50	Right-Hand
	T1420M	M14 x 2.00	Right-Hand

Plug Dies



D1825M

	Stock No.	Die Type	Thread Size	Thread Pitch
Die	D021A	5/8″ Double Hex Adjustable	4-40	Right-Hand
	D1212M	1″ Double Hex	M12 x 1.25	Right-Hand
	D1615M	1-1/4″ Hex	M16 x 1.50	Right-Hand
	D1615ML	1-1/4″ Hex	M16 x 1.50	Left Hand
	D1810M	1-7/16″ Hex	M18 x 1.00	Right-Hand
	D1815M	1-7/16″ Hex	M18 x 1.50	Right-Hand
	D1815ML	1-7/16″ Hex	M18 x 1.50	Left Hand
	D1825M	1-7/16″ Hex	M18 x 2.50	Right-Hand
	DR2015M	2″ Round	M20 x 1.50	Right-Hand
	D2025M	1-7/16″ Hex	M20 x 2.50	Right-Hand
	D2215M	1-5/8″ Hex	M22 x 1.50	Right-Hand
	D2415M	1-13/16″ Hex	M24 x 1.50	Right-Hand
	D3015M	2″ Hex	M30 x 1.50	Right-Hand



DDS1

3/8″ Drive Die Socket

DDS1 3/8″ Drive Die Driver Socket
- Fits 1″ double hex-style dies
- Deep clearance for use on longer studs
- Retention ring in the socket prevents the die from falling out during positioning
- 3/8″ square drive allows use in hard-to-reach places where a T-handle will not work

EXDMS48‡ 48 pc Master Extractor Set
- Quickly and easily extract the toughest screws from 3/32–15/16″ screw sizes (including metric sizes)
- Includes (16) left-hand mechanic's-length cobalt drill bits, (13) multispline screw extractors (1/8–1/2″), (6) spiral flute screw extractors plus, (13) hex head fastener extractors (1/4–3/4″)
- Hex head extractors feature left-hand spiral flutes for maximum gripping power
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- 48 pc in a storage case



EXDMS48

EXD35‡ 35 pc Master Extractor Set
- Quickly and easily extract tough screws from 3/32–15/16″ (including metric sizes)
- Includes (16) left-hand mechanic's-length cobalt drill bits, (13) multispline screw extractors and (6) spiral flute screw extractors in storage case



EXD35

Set Contains:	Stock No.	EXDMS48‡	EXD35‡	EXD10‡	EXDL10‡	E1025‡	E1020‡
Right-Hand Drill Bits	CSE405B‡					•	
	DBCFS5/64‡			•			
	DBCFS7/64‡			•			
	DBCFS5/32‡			•			
	DBCFS1/4‡			•			
	DBCFS19/64‡			•			
	DBF1/2C‡					•	
	DBF1/8C‡					•	•
	DBF3/16C‡					•	•
	DBF1/4C‡					•	•
	DBF5/16C‡					•	•
	DBF11/32C‡					•	•
	DBF7/16C‡					•	
Left-Hand Drill Bits	DBCL5/64‡ DBCL5/64B‡	•	•		•		
	DBCL7/64‡ DBCL7/64B‡	•	•		•		
	DBCL5/32‡ DBCL5/32B‡	•	•		•		
	DBCL7/32‡						
	DBCL3/16A‡	•	•				
	DBCL1/8‡						
	DBCL1/4‡ DBCL1/4B‡	•	•		•		
	DBCL9/32‡ DBCL9/32A‡	•	•				
	DBCL19/64‡ DBCL19/64B‡	•	•		•		
	DBCL3/8A‡	•	•				
	DBCL15/32A‡	•	•				
	DBCL1/2‡	•	•				
Solid-Type Drill Guides	E921‡					•	•
	E1021‡					•	•
	E1121‡					•	•
	E1221‡					•	•
	E1321‡					•	•
	E1421‡					•	•
	E1521‡					•	•
	E1621‡					•	•
	E1721‡					•	•
	E1821‡					•	•

Set Contains:	Stock No.	EXDMS48‡	EXD35‡	EXD10‡	EXDL10‡	E1025‡	E1020‡
Straight Screw Extractors	E1‡					•	•
	E2‡					•	•
	E3‡					•	•
	E4‡					•	•
	E5‡					•	•
	E6‡					•	
	E7‡					•	
	E8‡					•	
Pipe Plug Extractors	E80‡					•	
	E81‡					•	
	E82‡					•	
	E83‡					•	
	E84‡					•	
	E85‡					•	
Spiral Flute Screw Extractors	EX1‡	•	•	•	•		
	EX2‡	•	•	•	•		
	EX3‡	•	•	•	•		
	EX4‡	•	•	•	•		
	EX5‡	•	•	•	•		
	EX6‡	•	•				
Multispline Screw Extractors	REX104A‡	•	•				
	REX105A‡	•	•				
	REX106A‡	•	•				
	REX107A‡	•	•				
	REX108A‡	•	•				
	REX109A‡	•	•				
	REX110A‡	•	•				
	REX111A‡	•	•				
	REX112A‡	•	•				
	REX113A‡	•	•				
	REX114A‡	•	•				
	REX115A‡	•	•				
	REX116A‡	•	•				
Hex Head Fastener Extractors	BEX081‡	•					
	BEX101‡	•					
	BEX121‡	•					
	BEXM101‡	•					
	BEX141‡	•					
	BEXM121‡	•					
	BEX161‡	•					
	BEXM131‡	•					
	BEX181‡	•					
	BEX201‡	•					
	BEX221‡	•					
	BEXM171‡	•					
	BEX241‡	•					

⚠WARNING

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- Read safety precautions on pages W1 to W4

EXTRACTORS: EXTRACTOR TOOLS



EXD10



EXDL10



E1025



E1020

Combination Extractor Sets

EXD10 10 pc Right-Hand Extractor Set
- Includes (5) right-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64″) and (5) spiral flute screw extractors (EX1, EX2, EX3, EX4, EX5) in a metal index

EXDL10 10 pc Left-Hand Extractor Set
- Includes (5) left-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64″) and (5) spiral flute screw extractors (EX1, EX2, EX3, EX4, EX5) in a metal index

E1025 39 pc Extractor Set (Blue-Point®)
- Extract broken screws from 1/4–1″ dia. and standard pipe sizes 1/8–1″
- Includes (8) right-hand drill bits, (10) solid-type drill guides, (1) sleeve spacer, (2) sleeve-type drill guides, (4) sleeve bushings, (8) straight screw extractors and (6) pipe plug extractors
- Includes a storage case

E1020 19 pc Extractor Set (Blue-Point®)
- Extract broken screws from 1/4–1/2″ diameter
- Includes (5) right-hand drill bits (1/8, 3/16, 1/4, 5/16 and 11/32″), (9) solid-type drill guides (9/32–9/16″ diameter) and (5) straight screw extractors plus hex collars (#1–5)
- Includes a storage case



REX25B



REX10B



REX15B

Multispline Extractors

- Shoulder prevents the extractor from entering too deeply and expanding the screw

REX25B 25 pc Multispline Extractor Set
- Includes (25) multispline extractors REX104A–REX128A (1/8–7/8″)
- Includes a REX25BMT storage case

REX10B 10 pc Multispline Extractor Set
- Includes REX104A–REX113A (1/8–13/32″) (10 pc) in a REX10BMT storage case

REX15B 15 pc Multispline Extractor Set
- Includes (15) multispline extractors 1/8–9/16″ in a REX15BMT storage case

Stock No.	Drill Size, inches	Bolt Size, inches	Pipe Size, inches	Hex Size, inches	Mark
REX104A	1/8	1/4	—	1/2	A
REX105A	5/32	5/16	—	1/2	B
REX106A	3/16	3/8	—	1/2	C
REX107A	7/32	7/16	—	1/2	D
REX108A	1/4	1/2	1/8	1/2	E
REX109A	9/16	9/32	—	1/2	F
REX110A	5/16	5/8	—	1/2	G
REX111A	11/32	11/16	1/4	1/2	H
REX112A	3/8	3/4	—	1/2	I
REX113A	13/32	13/16	—	1/2	J
REX114A	7/16	7/8	—	5/8	K
REX115A	15/32	15/16	3/8	5/8	L
REX116A	1/2	1	—	5/8	M
REX117A	17/32	1-1/16	—	5/8	N
REX118A	9/16	1-1/8	—	3/4	O
REX119A	19/32	1-3/16	—	3/4	P
REX120A	5/8	1-1/4	1/2	3/4	Q
REX121A	21/32	1-5/16	—	7/8	R
REX122A	11/16	1-3/8	—	7/8	S
REX123A	23/32	1-7/16	—	7/8	T
REX124A	3/4	1-1/2	—	7/8	U
REX125A	25/32	1-9/16	3/4	1	V
REX126A	13/16	1-5/8	—	1	W
REX127A	27/32	1-11/16	—	1	X
REX128A	7/8	1-3/4	—	1	Y

Sets include REX15BMT plastic storage case.

Hex Head Fastener Extractors

- Used on most popular hex head fasteners from 1/4–1″ (8–24 mm)
- Sockets feature left-hand spiral flutes for maximum gripping power
- Manufactured from high-carbon steel for maximum strength
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations



BEX13A



BEX5B

Stock No.	Square Drive, inches	Size, inches (mm)	External Hex, inches (mm)	Outside Dia., inches (mm)	Length, inches (mm)	Set Contains: BEX13A	Set Contains: BEX5B
BEX081	3/8	1/4 (6)	5/8 (15.9)	3/8 (9.5)	1-1/16 (27.0)	•	
BEX101	3/8	5/16 (8)	5/8 (15.9)	7/16 (11.1)	1-1/16 (27.0)	•	
BEX121	3/8	3/8 (10)	5/8 (15.9)	9/16 (14.3)	1-1/16 (27.0)	•	
BEXM101	3/8	N/A (10)	3/4 (19.1)	5/8 (15.5)	1-1/16 (27.0)	•	
BEX141	3/8	7/16 (11)	3/4 (19.1)	5/8 (15.9)	1-1/16 (27.0)	•	
BEXM121	3/8	N/A (12)	3/4 (19.1)	23/32 (17.5)	1-1/16 (27.0)	•	
BEX161	3/8	1/2 (12)	3/4 (19.1)	23/32 (17.9)	1-1/16 (27.0)	•	
BEXM131	3/8	N/A (13)	3/4 (19.1)	23/32 (18.5)	1-1/16 (27.0)	•	
BEX181	3/8	9/16 (14)	7/8 (22.2)	25/32 (19.4)	1-1/16 (27.0)	•	
BEX201	3/8	5/8 (16)	7/8 (22.2)	7/8 (21.8)	1-1/16 (27.0)	•	
BEXM171	3/8	N/A (17)	1 (25.4)	29/32 (23.0)	1-1/16 (27.0)	•	
BEX221	3/8	11/16 (17.4)	1 (25.4)	15/16 (24.2)	1-1/16 (27.0)	•	
BEX241	3/8	3/4 (19)	1-1/16 (27)	1-1/32 (26.2)	1-1/16 (27.0)	•	
BEXW241	1/2	3/4 (19)	1-1/4 (31.8)	1-1/8 (28.6)	1-3/4 (44.5)		•
BEXW261	1/2	13/16 (21)	1-3/8 (34.9)	1-3/16 (30.2)	1-3/4 (44.5)		•
BEXW281	1/2	7/8 (22)	1-7/16 (36.5)	1-1/4 (31.8)	1-3/4 (44.5)		•
BEXW301	1/2	15/16 (24)	1-7/16 (36.5)	1-5/16 (33.3)	1-3/4 (44.5)		•
BEXW321	1/2	1 (25.4)	1-7/16 (36.5)	1-3/8 (34.9)	1-3/4 (44.5)		•

External Drive Hex Head Slim Twist Sockets

110STSYA 10 pc External Drive Twist Socket Set (Blue-Point®)

- Quickly and easily remove damaged or rounded nuts and bolts, socket head cap screws in close quarters, and nuts threaded on long studs
- Ideal for aircraft and exhaust systems applications
- Includes (10) external hex drive slim twist sockets for the following hex head fasteners: SAE 3/8, 7/16, 5/8 and 3/4″ and Metric 9–17 and 19 mm
- Sockets are stored on a MSR1 Magnetic Socket Holder



110STSYA

Stock No.	Nut/Bolt Size, inches (mm)	Socket Number	External Hex, inches	Socket Thickness, inches (mm)	Finish	Set Contains: 110STSYA
110STSY1	3/8 (9)	#1	5/8	0.38 (9.5)	Industrial Black	•
110STSY2	(10)	#2	5/8	0.38 (9.5)	Industrial Black	•
110STSY3	7/16 (11)	#3	11/16	0.38 (9.5)	Industrial Black	•
110STSY4	(12)	#4	3/4	0.38 (9.5)	Industrial Black	•
110STSY5	(13)	#5	3/4	0.50 (12.7)	Industrial Black	•
110STSY6	(14)	#6	13/16	0.50 (12.7)	Industrial Black	•
110STSY7	(15)	#7	7/8	0.50 (12.7)	Industrial Black	•
110STSY8	5/8 (16)	#8	15/16	0.62 (15.9)	Industrial Black	•
110STSY9	(17)	#9	1	0.62 (15.9)	Industrial Black	•
110STSY10	3/4 (19)	#10	1-1/16	0.62 (15.9)	Industrial Black	•

⚠WARNING • Read safety precautions on pages W1 to W4

EXTRACTORS: EXTRACTOR TOOLS



BEXD9

BEXD Deep Well Extractors

- External hex and 3/8″ square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- Deep well design fits over exposed studs and reaches recessed fasteners
- Reverse spiral flutes bite into stubborn fasteners,both fractional and metric, with maximum gripping power
- Reduced profile head enables use in confined spaces

Stock No.	Size	Length, inches	Set Contains: BEXD9
BEXD081	1/4″	2-7/16	•
BEXD101	5/16″	2-7/16	•
BEXD121	3/8	2-7/16	•
BEXD141	7/16″	2-7/16	•
BEXD161	1/2″	2-7/16	•
BEXD181	9/16″	2-7/16	•
BEXD201	5/8″	2-7/16	•
BEXD241	3/4″	2-7/16	•
BEXDM131	13 mm	2-7/16	•

Set include storage case.



SR40K

Tapered Bit Extractors

- Tapered ends have left hand threads to bite deep into drilled studs
- Square shafts for use with wrench

Stock No.	Description	Set Contains: SR40K
SR10A	9/64″ Tapered Bit Extractor	•
SR14	7/32″ Tapered Bit Extractor	•
SR20	5/16″ Tapered Bit Extractor	•
SR4A	1/8″ Tapered Bit Extractor	•
C0407	Kit Bag	•



BET7

Power Fastener Extractors (Blue-Point®)

- Extract hex head, socket head, round head and other fasteners
- 1/4″ universal hex shank is ideal for use with cordless, air or electric drills, impact wrenches, nut runners and hand tools
- Power groove for use with quick change adaptors
- Reverse spiral flutes hold on to fastener heads
- High-carbon steel shank is larger than most fastener shanks and resists torsional shear

Stock No.	Size, inches (mm)	Set Contains: BET7
BET76	3/16 (5)	•
BET78	1/4 (6)	•
BET710	5/16 (8)	•
BET712	3/8 (10)	•
BETM710	25/64 (10)	•
BET714	7/16 (11)	•
BET716	1/2 (12)	•

Set includes storage case.

Solid-Type Drill Guides

- Used for centering drills at a depth not exceeding 1″

Stock No.	Outside Dia., inches	For Drill Size, inches	Length, inches
E921	9/32	1/8	1-3/16
E1021	5/16	1/8	1-3/16
E1121	11/32	1/8	1-3/16
E1221	3/8	1/8	1-3/16
E1321	13/32	3/16	1-3/16
E1421	7/16	3/16	1-3/16
E1521	15/32	3/16	1-3/16
E1621	1/2	3/16	1-3/16
E1721	17/32	1/4	1-3/16
E1821	9/16	1/4	1-3/16



E921



CSE405B

Right-Hand Fractional Drill Bits

- Use right-hand drill bits to make a hole in the broken screw before the extractor is inserted

Stock No.	Size, inches	Flute Length, inches	Overall Length, inches
CSE405B‡	5/8	3	6
DBF1/2C‡	1/2	2-1/4	4-3/4
DBF1/4C‡	1/4	2-1/2	4
DBF1/8C‡	1/8	1-3/8	3
DBF11/32C‡	11/32	2-3/4	4-1/2
DBF3/16C‡	3/16	2	3-1/2
DBF5/16C‡	5/16	2-5/8	4-1/2
DBF7/16C‡	7/16	1-7/8	4-1/4



EX1

Spiral Flute Screw Extractors

- Designed to remove broken studs, bolts, socket screws and fittings
- Aggressive left-hand spiral design for extra gripping power

Stock No.	Use Drill Size, inches	Removes Bolts and Screws
EX1	5/64	3/32–5/32″, 2.5–4 mm, #3–#6
EX2	7/64	5/32–7/32″, 4–6 mm, #6–#12
EX3	5/32	7/32–9/32″, 6–8 mm, #12
EX4	1/4	9/32–3/8″, 1/8″ NPT, 1/8″ BSP, 8–10 mm
EX5	19/64	3/8–5/8″, 1/4″ NPT, 1/4″ BSP, 10–16 mm
EX6	13/32	5/8–7/8″, 3/8″ NPT, 3/8″ BSP, 16–22 mm



E80

Pipe Plug Extractors

Stock No.	For Screw Dia. or Std. Pipe, inches	Drill Size, inches	Length, inches
E80	1/8	17/64	2-1/4
E81	1/4	3/8	2-1/2
E82	3/8	1/2	2-3/4
E83	5/8	5/8	3
E84	3/4	13/16	3-1/4
E85	1	1-1/16	3-1/2



E1



E6

Straight Screw Extractors

	Stock No.	For Screw Dia. or Std. Pipe, inches	Drill Size, inches	Length, inches
Straight Screw, Hex Nut Type	E1	1/4	1/8	2-5/16
	E2	5/16	3/16	2-3/4
	E4	7/16	5/16	3-5/16
	E5	1/2	11/32	3-3/4
	E6	1/2	7/16	4-1/8
	E7	3/4	1/2	4-1/2
	E8	1	1/2	4-5/8

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EXTRACTORS: STUD REMOVERS



YA2019



YA2020



YA789

Extractor Set

Stock No.	Drilling Speed, RPM	Extractor Size SAE	Set Contains: YA769
YA769-1	700–800	1/4	•
YA769-2	650–750	5/16	•
YA769-3	600–700	3/8	•
YA769-4	475–575	1/2	•

Set includes storage case.

YA769 Extractor Set (Blue-Point®)
- Extract broken screws from 1/4–1/2″ dia
- Drill/extract with one tool
- Left-hand drill bit
- For use in 3/8″ drive reversible drill

Stock No.	Description	Extractor Size Bolt Size	Set Contains: YA2019
YA2019-1	Fastener Extractor (Blue-Point®)	#6, #8	•
YA2019-2	Fastener Extractor (Blue-Point®)	#8, #10	•
YA2019-3	Fastener Extractor (Blue-Point®)	#10, #12	•

Set includes storage case.

YA2019 Screw Remover Set (Blue-Point®)
- Use to remove damaged PHILLIPS®, TORX®, Pozidriv®, slotted, internal hex, Tri-Wing®, Frearson and most tamper-resistant screws and fasteners
- Tool bites into the damaged fastener in the reverse direction, allowing the user to easily remove damaged screws
- Used with a variable-speed reversing drill or 1/4″ hex bit screwdriver

YA2020 Screw Extractor Set (Blue-Point®)
- Easily extracts #6–#14 damaged screws from wood, metal or plastic
- Remove hex, TORX®, PHILLIPS®, slotted or square head screws
- Use with 1/4″ quick disconnect or 1/4″ hex hand or power tool
- Works with a variety of screw materials

Stock No.	Extractor Size Bolt Size	Extractor Size SAE	Extractor Size Metric	Set Contains: YA789
YA789-1	—	#5, #6	M3	•
YA789-2	—	#8	M4	•
YA789-3	#10, #12	—	M5	•
YA789-4	—	1/4″	M6	•

Set includes storage case.

YA789 Power Extractor Set (Blue-Point®)
- Easy to use—place the extractor end of the tool into the drill chuck, set for reverse and the hole can be drilled
- Insert the drill side into the chuck, exposing the extractor end and finish the job to remove the broken screw



A50A



A36A



LA55A



LA54

Cam- and Wedge-Type Stud Removers

A50A Stud Remover
- 7/16–1/2″ capacity
- V-shaped rack grips the stud
- Grip releases when pressure is relieved
- Uses a 1/2″ drive handle

A50-4B Optional Rack
- 5/16–3/8″ capacity

A36A Stud Remover
- 1/2–3/4″ capacity
- Knurled wheel grips the stud
- Driving shank extends through both sides of the housing for bearing surface on each side of the wheel
- Uses a 1/2″ drive handle

A80A Stud Remover
- 1/4–1/2″ capacity
- Jaws grip when pressure is applied
- Built-in ratchet action
- Needs only 1-1/4″ clearance
- Use with 1/2″ drive handle or 1″ wrench

LA55A Stud Remover
- 9/16–1″ capacity
- Grip is released by turning the tool in reverse direction
- Works on wedge principle
- Use with a 3/4″ drive handle
- Includes two wedge sizes: LA55A2 and LA55A3

LA54 Stud Remover
- 1/4–5/8″ capacity
- Smaller version of LA55A
- Requires a 1/2″ drive handle
- Includes two wedge sizes: LA54-2A and LA54-3A

LA54-2A Wedge
LA54-3A Wedge
LA55A2 Wedge
LA55A3 Wedge



CG5151



CG5152



CG505



CG500-17

Stud Removers

- Tapered collets thread onto the stud, even if only a few threads are exposed
- Tightening the housing bolt draws the collet into the housing and clamps the collet onto the stud
- Tools reduce the chance of damage to stud threads
- Avoid bottoming or shouldering the studs, shearing or damaging the stud or workpiece

Stud Remover Set Components

Stock No.	Housing Stock No.	Collet Size	Set Contains: CG5151	CG5152	CG505
CG500-4	CG500-2	1/4″-28	•	•	
CG500-5	CG500-2	5/16″-18	•	•	
CG500-6	CG500-2	5/16″-24	•	•	
CG500-7	CG500-2	3/8″-16	•	•	
CG500-9	CG500-2	7/16″-14	•	•	
CG500-11	CG500-2	1/2″-13	•	•	
CG500-13	CG500-2	9/16″-12	•	•	
CG500-15	CG500-2	5/8″-11	•	•	
CG500-17	CG500-2	#10-24	•		
CG500-18	CG500-2	#10-32	•		
CG500H1	CG500-2	3/8″ Hex	•		
CG500H2	CG500-2	7/16″ Hex	•		
CG500H4	CG500-2	9/16″ Hex			
CG505-3	CG505-1	7/8″-9			•
CG505-4	CG505-1	1″-8			•
CG505-5	CG505-1	3/4″-16			
CG505-6	CG505-1	7/8″-14			
CG505-7	CG505-1	1″-14			
CG505-8	CG505-1	11/16″-16			
CG505H2	CG505-1	11/16″ Hex			
CG505H3	CG505-1	3/4″ Hex			
CG505H4	CG505-1	13/16″ Hex			
CG505H5	CG505-1	7/8″ Hex			
CG508-2	CG508	1-1/8″-12			
CG508-4	CG508	1-1/4″-12			
CG508-5	CG508	1-3/8″-6			
CG508-6	CG508	1-3/8″-12			
CG508-9	CG508	1-1/8″-8			
CG508-11	CG508	1-3/8″-8			
CG508-12	CG508	1-1/2″-8			
CG500-30	CG500-2	M6-1.00	•		
CG500-33	CG500-2	M7-1.00	•		
CG500-36	CG500-2	M8-1.00	•		
CG500-39	CG500-2	M9-1.00	•		
CG500-40	CG500-2	M9-1.25	•		
CG500-42	CG500-2	M10-1.25	•		
CG500-48	CG500-2	M12-1.25	•		
CG500-49	CG500-2	M12-1.50	•		
CG500-54	CG500-2	M14-1.50	•		
CG500-55	CG500-2	M14-2.00	•		
CG500-60	CG500-2	M16-1.50	•		
CG500-61	CG500-2	M16-2.00			
CG500-2	CG500-2	Housing			•
CG505-1	CG500-2	Housing			•

EXTRACTORS: STUD REMOVERS



MSK16



MSKMA10

Stud Removers

Stock No.	Description	Set Contains: MSK16
MSK-0820N	Install Tool 1/4″ x 20 TPI (Blue-Point®)	•
MSK-0820R	Remove Tool 1/4″ x 20 TPI (Blue-Point®)	•
MSK-0828N	Install Tool 1/4″ x 28 TPI (Blue-Point®)	•
MSK-0828R	Remove Tool 1/4″ x 28 TPI (Blue-Point®)	•
MSK-1613N	Install Tool 1/2″ x 13 TPI (Blue-Point®)	•
MSK-1613R	Remove Tool 1/2″ x 13 TPI (Blue-Point®)	•
MSK-1620N	Install Tool 1/2″ x 20 TPI (Blue-Point®)	•
MSK-1620R	Remove Tool 1/2″ x 20 TPI (Blue-Point®)	•
MSK-1812N	Install Tool 9/16″ x 12 TPI (Blue-Point®)	•
MSK-1812R	Remove Tool 9/16″ x 12 TPI (Blue-Point®)	•
MSK-1818N	Install Tool 9/16″ x 18 TPI (Blue-Point®)	•
MSK-1818R	Remove Tool 9/16″ x 18 TPI (Blue-Point®)	•
MSK-2011N	Install Tool 5/8″ x 11 TPI (Blue-Point®)	•
MSK-2011R	Remove Tool 5/8″ x 11 TPI (Blue-Point®)	•
MSK-2018N	Install Tool 5/8″ x 18 TPI (Blue-Point®)	•
MSK-2018R	Remove Tool 5/8″ x 18 TPI (Blue-Point®)	•

Stud Removers

Stock No.	Description	Set Contains: MSKMA10
MSK-M12125N	M12 x 1.25 Install Tool	•
MSK-M12125R	M12 x 1.25 Remove Tool	•
MSK-M14125N	M14 x 1.25 Install Tool	•
MSK-M14125R	M14 x 1.25 Remove Tool	•
MSK-M1415N	M14 x 1.5 Install Tool	•
MSK-M1415R	M14 x 1.5 Remove Tool	•
MSK-M1620N	M16 x 2.0 Install Tool	•
MSK-M1620R	M16 x 2.0 Remove Tool	•
MSK-M1825N	M18 x 2.5 Install Tool	•
MSK-M1825R	M18 x 2.5 Remove Tool	•



MSK10



MSKM10

Stud Removers

Stock No.	Description	Set Contains: MSK10
MSK-1018N	Stud Installer	•
MSK-1018R	Stud Remover	•
MSK-1024N	Stud Installer	•
MSK-1024R	Stud Remover	•
MSK-1216N	Stud Installer	•
MSK-1216R	Stud Remover	•
MSK-1224N	Stud Installer	•
MSK-1224R	Stud Remover	•
MSK-1414N	Stud Installer	•
MSK-1414R	Stud Remover	•
MSK-PB	Storage Case	•

Stud Removers

Stock No.	Description	Set Contains: MSKM10
MSK-M610N	Stud Installer	•
MSK-M610R	Stud Remover	•
MSK-M8125N	Stud Installer	•
MSK-M8125R	Stud Remover	•
MSK-M10125N	Stud Installer	•
MSK-M10125R	Stud Remover	•
MSK-M1015N	Stud Installer	•
MSK-M1015R	Stud Remover	•
MSK-M1215N	Stud Installer	•
MSK-M1215R	Stud Remover	•
MSKM-PB	Storage Case	•


CG503


CGM503


CG513


CG503-2


CG513-1

Dowel Pin Puller Sets Components

Stock No.	Collet Size	CG503	CGM503	CG503S	CG513
CG503-1	Housing (1-3/8″)	•	•	•	
CG503-2	1/4″	•			
CG503-3	5/16″	•			
CG503-4	3/8″	•			
CG503-5	7/16″	•			
CG503-6	1/2″	•			
CG503-7	9/16″	•			
CG503-8	5/8″	•			
CG10F	Cross Bar	•	•	•	
CG250-8A	Slide Screw, 5/8″-18 UNF x 18-9/16″	•	•	•	
CG250-9	Slide Hammer, 2 lb	•	•	•	
CG503S1	3/8″ Square				
CG503-9	6 mm		•		
CG503-10	8 mm		•		
CG503-11	10 mm		•		
CG503-12	12 mm		•		
CG503-13	14 mm		•		
CG503-14	16 mm		•		
CG325-6	Nut		•	•	
CG513-1	Housing (2-1/8″)				
CG513-2	Slide Screw				•
CG513-3	Nut				•
CG513-4	3/4″				•
CG513-5	7/8″				•
CG513-6	1″				•
CG4567O	Slide Hammer, 10 lb				•
CG513S1	1/2″ Square				
CG513S2	5/8″ Square				

Heavy-Duty Housing with Collet

- Collets are threaded to order; specify stud thread size when ordering (example: CG510 1-3/4″-10 collet)
- Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece

CG510 Heavy-Duty Housing with Collet
- For larger stud sizes 1-5/8–2″

CG511 Heavy-Duty Housing with Collet
- For larger stud sizes 2–2-1/2″

CG512 Heavy-Duty Housing with Collet
- For larger stud sizes 2-1/2–3″


CG500-23


CG500-2


CG500P


CG505P

Pipe Nipple Remover Set Components

Stock No.	Collet Size	Housing Stock No.	CG500P	CG505P
CG500P1	1/8″ NPT	CG500-2	•	
CG500P2	1/4″ NPT	CG500-2	•	
CG500P3	3/8″ NPT	CG500-2	•	
CG505P1	1/2″ NPT	CG505-1		•
CG505P2	3/4″ NPT	CG505-1		•
CG508P1	1″ NPT	CG508-2		
CG508P2	1-1/4″ NPT	CG508-2		
CG508-2	1-1/8″-12	CG508		
CG508	Housing	CG500-2		
CG500-2	Housing	CG500-2	•	
CG505-1	Housing	CG500-2		•

Note: Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece.

Serrated Collets

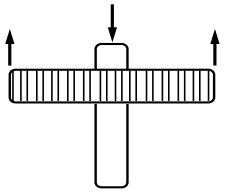
- Serrated gripping portions are used to remove unthreaded studs that cannot be removed with standard collets due to lack of gripping surface
- Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece

Stock No.	Collet Size
CG500-20	1/4″ Collet
CG500-21	5/16″ Collet
CG500-22	3/8″ Collet
CG500-23	7/16″ Collet
CG500-24	1/2″ Collet
CG500-2	Housing

PULLERS

What type of puller do I want to use? What combination will work best?

Removing a Gear, Bearing, Pulley, or Other Component from a Shaft



Tools to Use

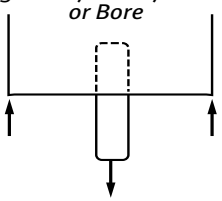
Jaw-Type Puller: Two- or three-jaw style, with three jaw being the best choice. Manual or hydraulic with outside jaw positions.

Push-Pull Puller: Use male or female adaptors to thread into tapped holes on the components.

Slide Hammer Puller: Used on light-duty applications. For use with attachments.

Bar-Type Puller with Bearing Separator: Bar type with side rods threaded into the bearing separator provides a "knife edge" to get behind the component or when there is not a good gripping edge.

Pulling a Shaft Out of a Housing or Bore



Tools to Use

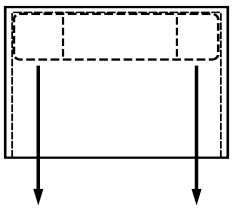
Push-Pull Puller: Use male or female adaptors.

Bar-Type Puller with Bearing Separator: Used when the housing lacks sufficient surface for puller side rods to bear against.

Slide Hammer Puller: Used on light-duty applications. For use with attachments.

Slide Hammer Puller: Use with male or female adaptors. See this section for a full listing of compatible adaptors.

Removing a Bearing or Bushing from a Blind Hole



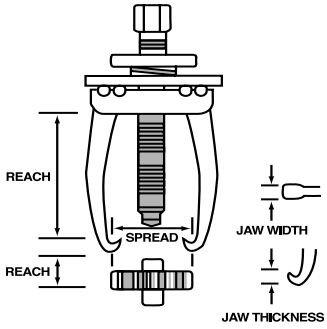
Tools to Use

Jaw-Type Puller: For inside jaw positions (inside pulls), a manual or hydraulic jaw-type puller can be used with pressure screw or slide hammer variations.

Expanded Collet Puller: The inside diameter should range between 1/4 and 7″. Pulling can be done with bridge, bar-type yokes or slide hammers.

Bearing Adaptors with Slide Hammer Puller: CJ127A, CJ128A and CJ137 bearing adaptors with a CJ97-3A slide hammer should be used in this application.

Bar-Type Puller with Bearing Separator: Bar type with side rods threaded into the bearing separator provides a "knife edge" to get behind the components or when there is not a good gripping edge.



Determine the "Reach" and "Spread" Needed

The puller's reach must equal or exceed the same distance on the part. The puller's spread is the width of the part.

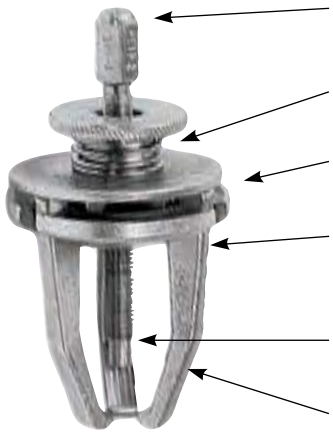
Estimate the Puller Tonnage

Generally, if you already have the correct "reach" and "spread", you will usually have the proper tonnage. If in doubt, use the next larger size.

General Rules for Choosing Pullers

Manual Pullers: Pressure screw should be at least half the diameter of the shaft on the pulling/pushing job.

Hydraulic Pullers: Maximum tonnage capacity (tons) should be 8 to 10 times the diameter (in inches) of the shaft to be pulled or pushed.



Snap-on® Puller Features

Anvil Head: Curved at the top and features a hex design. The curved head provides a striking surface to handle those tough pulling jobs while the hex allows the pressure screw to be easily turned with a standard hex wrench or a socket.

Spring-Loaded Locking Mechanism: Snap-on® pullers feature a unique spring tension locking mechanism that allows the puller jaws to easily lock onto the work surface for both "outside" and "inside" pulling applications.

Two-Position Yoke: Allows jaws to be easily reversed to accommodate inside or outside pulling situations. Interchangeable yokes accommodate two and three jaw setups. Yokes are heat treated for additional strength and safety.

One-Piece Jaw Construction: Provides a stronger, safer jaw. Most competitive puller jaws have holes drilled through them to allow for a bracket attachment. This hole significantly weakens the competitor's puller jaws.

Forged Jaws: Resist breakage, prolong tool life and provide additional strength.

Replaceable Points: Center pulling power to prevent cocking. Provide less friction and minimum drag for easier turning of the pressure screw during the pulling process. If damage occurs, simply replace the point and not the entire pressure screw.

Curved Jaws: Provide positive grip on the work surface.

Bar-Type Interchangeable Pullers

Interchangeable bartype pullers provide high-quality pulling equipment with the versatility needed to handle a wide variety of pulling functions. Standardized pressure screw threading, jaw retention and design mean that new components can be added to an existing puller to change its reach or spread in order to handle new or different applications. These Snap-on® bar-type pullers also feature:

- Replaceable pressure screw points help to keep the puller safely centered
- Multiposition yokes help keep the jaws properly aligned with the item being pulled
- Adjustable clamp bolts allow the jaws to be snugged up against the job for a safer, more convenient pull
- Spring ball pin retention securely holds the jaws while allowing for quick jaw changes


CJ83C

CJ83C Pulley and Gear Puller

- Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines, including Cummins® accessory drives and water pumps
- Includes (2) 3/8″-16 x 3″, 5/16″-18 x 2-1/2″ and M10-1.5 x 65 mm bolts
- Nominal capacity is 3-1/2 ton


CJ82B

CJ82B Pitman Arm Pulley

- Handles many pitman arm applications and a wide variety of general pulling jobs
- Nominal capacity is 6 ton


CJ80A

CJ80A A/C Pulley Puller

- Excellent for the removal of alternator, generator, power steering and crankshaft pulleys, harmonic balancers and fiber timing gears
- Includes an extra pair of jaws for versatility
- Nominal capacity is 7-1/2 ton


CJ85A

CJ85A Truck Differential Side Bearing Puller

- Similar in appearance to CJ81D but bigger for handling truck applications
- Four centering plates are included
- Nominal capacity is 7-1/2 ton


CJ81D

CJ81D Differential Side Bearing Puller

- Narrow jaws slip into housing grooves in the back of the bearing and let the jaws seat and pull along with the inner race
- Jaws are locked onto the bearing by a clamp bolt
- Four centering plates are included
- Nominal capacity is 6 ton

CJ Series Major Components (see chart on next page)

Specifications	CJ80A	CJ81D	CJ82B	CJ83C	CJ85A
Nominal Capacity, tons	7.5	6	6	3.5	7.5
Maximum Reach, inches	D3: 1-5/8, D5: 1-3/8	1-5/8	2-1/4	Variable	1-3/4
Maximum Spread, inches	5	3-3/8	3-3/8	5	5-1/2
Pressure Screw Size, inches	3/4–16 x 3-1/2	3/4–16 x 4-1/4	3/4–16 x 4-1/4	3/4–16 x 3-1/2	3/4–16 x 4-1/4
Optional Jaws	D1, D2, D4	D1, D2, D4, D5	D1, D2, D4, D5	—	D1, D2, D3, D5
Optional Points	C2	C2	C2	C2	C2
Optional Pressure Screws	B1, B2	B1, B3	B1, B3	B1, B2	B1, B3
A Yoke	A3	A4	A4	A4	A3
B, Pressure Screw	B3	B2	B2	B3	B2
C Point	C1	C1	C1	C1	C1
D Jaws (2)	D3, D5	D3	D3	—	D4
E Clamp Bolt	E3	E4	E4	—	E3
F Washers (2)	F1	F1	F1	F2, F3	F1
G Clamp Nuts (2)	G1	G1	G1	—	G1
H Jaw Pins (2)	H1	H1	H1	—	H1
J Adaptors	—	J1	—	—	J2
K Studs (2)	—	—	—	K1, K2, K3	—

⚠WARNING

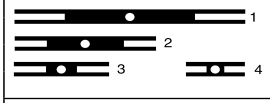
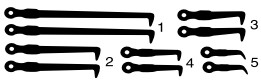
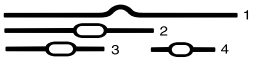
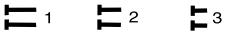
- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: BAR-TYPE INTERCHANGEABLE



CJ86-1

CJ Interchangeable Pullers—Major Components

	Component	Key No.	Stock No.	Specific Dimensions		Set Contains: CJ83C	CJ82B	CJ81D	CJ85A	CJ80A
A				**Usable Range, inches**	**Pin Holes per Side**					
	Yoke	A1	**CJ100-1**	10-1/2–16	4					
	Yoke	A2	**CJ118-1**	6–10-1/2	3					
	Yoke	A3	**CJ85-1**	3–6-1/2	3				•	•
	Yoke	A4	**CJ86-1**	1-3/4–4-1/2	2	•	•	•		
B				**Thread x Length**	**Hex Size, inches**					
	Pressure Screw	B1	**CJ105-3**	3/4-16 x 10-1/2	7/8					
	Pressure Screw	B2	**CJ83-2**	3/4-16 x 6-11/16	7/8		•	•	•	
	Pressure Screw	B3	**CJ83-3**	3/4-16 x 5-1/8	7/8	•				•
C				**Head Dia., inches**	**Point Type**					
	Point	C1	**CJ66-15-3**	5/8	90° Outward	•	•	•	•	•
	Point	C2	**CJ84-16**	7/8	90° Outward					
D				**Maximum Reach, inches**						
	Jaws (2 needed)	D1	**CJ116-1**	8-1/4	—					
	Jaws (2 needed)	D2	**CJ282-1**	4-3/8	—					
	Jaws (2 needed)	D3	**CJ81-2A**	1-3/8	—		•	•		•
	Jaws (2 needed)	D4	**CJ85-2**	1-3/4	—				•	
	Jaws (2 needed)	D5	**CJ87-1**	1-3/8	—					•
E				**Maximum Length, inches**						
	Clamp Bolts	E1	**CJ100A2**	18	—					
	Clamp Bolts	E2	**CJ118-2A**	11-1/2	—					
	Clamp Bolts	E3	**CJ85-3A**	7-1/2	—				•	•
	Clamp Bolts	E4	**CJ86-4A**	5	—		•	•		
F				**Inside Dia., inches**	**Outside Dia., inches**					
	Washer (2 needed)	F1	**CJ85-4**	15/32	7/8		•	•	•	•
	Washer (1 needed)	F2	**ME5A54**	11/32	3/4	•				
	Washer (1 needed)	F3	**ME5A55**	9/32	3/4	•				
G				**Thread Size**						
	Clamp Nuts (2 Needed)	G1	**ME4A33**	7/16 x 20	—		•	•	•	•
H				**Diameter, inches**	**Length, inches**					
	Jaw Pins (2 needed)	H1	**CJ105-11**	5/16	1-15/32		•	•	•	•
J				**Outside Dia., inches**	**Step Diameter, inches**					
	Adaptors (Set of 4)	J1	**CJ81B1A**	1-1/2	1-1/8			•		
			CJ81B2A	1-5/8	1-1/4			•		
			CJ81D1A	1-3/4	1-1/8			•		
			CJ81D2A	1-11/32	15/16			•		
	Adaptors (Set of 4)	J2	**CJ85-5**	2	1-1/2				•	
			CJ85-6	2-1/8	1-21/32				•	
			CJ85-7	2-1/2	1-27/32				•	
			CJ85-8	3-1/16	2-3/8				•	
K				**Thread x Length**						
	Studs (2 needed)	K1	**ME3A44**	3/4-16 x 3	—	•				
	Studs (2 needed)	K2	**ME3A45**	5/16-18 x 2-1/2	—	•				
	Studs (2 needed)	K3	**ME3A75**	M10-1.5 x 65 mm	—	•				

Letters in chart refer to Key No. in chart below (A3, B1, C1, etc.)

These puller sets are designed to provide the tools you need as your work grows. Start with one or more sets geared to specific tasks and build toward the ultimate set: the CJ2000A with display board and cabinet. No duplication in set contents or jaws. Yokes are interchangeable for added versatility.



CJ2000SB

Master Interchangeable Puller Sets

CJ2000A Master Interchangeable Puller Set
- Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004 and CJ2005 puller sets

CJ2000S Master Interchangeable Puller Set
- Same as the CJ2000A, plus the VE200A tool control board

CJ2000SB Master Interchangeable Puller Set
- CJ2000A on the VE200A tool control board and KRA276D locking wall storage cabinet

CJ2001P Bolt Grip Puller Set
- Services steering wheels, flywheels, pulleys and gears with tapped holes
- Includes a four-position two- and three-way yoke, three different pressure screw tips and an assortment of SAE and metric bolts
- Approximate spread to bolt is 1-1/4–3-13/16″
- Includes a PB54B storage case



CJ2001P

ME3A10ASFM 5/16″-24 x 3″ Bolt
ME3A15ASFM Hex Cap Screw 3/8″-24 x 1-1/2″
ME3A40SFM Hex Cap Screw M8-1.25 x 45 mm
ME3A41SFM Hex Cap Screw M8-1.25 x 90 mm
ME3A42SFM Hex Cap Screw M8-.25 x 65 mm
ME3A43SFM Hex Cap Screw 5/16″-1-18 x 6″
ME3A44SFM Hex Cap Screw 3/8″-16 x 3″
ME3A60SFM Hex Cap Screw M10-1-1/2 x 35 mm
ME3A6ASFM 3/8″-16 x 2″ Bolt
ME3A7ASFM 3/8″-16 x 4-1/2″ Bolt
ME3A8ASFM Hex Cap Screw 1/4″-28 x2 -1/2″
ME3A9ASFM Hex Cap Screw 5/16″-18 x 3″
ME5A54SFM Washer 5/16″
ME5A55SFM Flat Washer .265 x .750 x .093
ME5A79SFM Flat Washer 8 mm
ME5A85SFM Flat Washer 10 mm

Gear Puller Set

CJ2002 Gear Puller Set
- Use on pitman arms, timing gears, carrier side bearings and more
- Combine to create 10 different pullers
- Capacity from 6–10 ton depending on the yoke and jaws used

CJ84-16 Centering Point
CJ83-2 Pressure Screw
CJ85-1 Yoke
CJ86-4A Clamp Bolt
CJ85-3A Clamp Bolt
CJ86-1 Yoke
CJ85-4 Washer
CJ105-11 Long Jaw Pin
CJ87-1 3″ Jaw
CJ282-1 6″ Jaw
CJ66-15-3 Centering Point
CJ81-2A Jaw
CJ83-3 Pressure Screw



CJ2002

Rear Axle Puller Set

CJ2003A Rear Axle Puller Set
- Slide hammer power pulls many flange-type rear axles, as well as axle bearings
- Set contains CJ123-1 Axle Yoke, ME4A8 Lock Nut (3/4″), CJ127A Bearing Adaptor, CJ66-19 Bearing Hook and CJ128A Bearing Adaptor

CJ105-4B Slide Screw
CJ137 Bearing Adaptor
CJ97-3A 3-3/4 lb Slide Hammer
CJ123-1 Axle Yoke
ME4A8 Lock Nut (3/4″)
CJ127A Bearing Adaptor
CJ66-19 Bearing Hook
CJ128A Bearing Adaptor



CJ2003A

Interchangeable Puller Set

CJ2004 Puller Set, Interchangeable
- **Use on bearings, bearing races, gears, bushing retainers, etc.**
- Builds any of 12 different pullers
- Two- and three-jaw capability with three sets of jaws
- All jaws reverse for inside and outside pulls
- Pulling capacity: 4-1/2 ton (short jaws), 6-1/2 ton (medium jaws) 8 ton (large jaws)

CJ105-10 Short Jaw to Control Pin
CJ105-6 Medium Jaw
CJ105-11 Long Jaw Pin
CJ105-7 Large Jaw
CJ105-12 Cross Bar
CJ66-15-3 Centering Point
CJ86-1 Yoke
CJ123-2 Axle Yoke, 4″
Base Circle, 3/4″-16 UNF
CJ105A8 Three-Way Jaw Control
CJ105-3 Pressure Screw
CJ105A9 Two-Way Jaw Control
CJ105-1 Yoke
CJ105-5 Small Jaw



CJ2004

⚠WARNING

- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: BAR-TYPE INTERCHANGEABLE



CJ2005

Accessory Set

CJ2005 Master Interchangeable Puller Set

- Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004 and CJ2005 puller sets on a VE200A tool control board

CJ81B1A Adaptor
CJ85-5 Adaptor
CJ85-6 Adaptor
CJ81B2A Adaptor
CJ85-7 Adaptor
CJ81D1A Adaptor
CJ85-8 Adaptor
CJ81D2A Adaptor
CJ118-1 Yoke, 6–10-1/2″
CJ85-2 Jaw
CJ118-2A Clamp Bolt

CJ Bearing Adaptors

Stock No.	Swivel Head Width, inches	Swivel Head Length, inches	Overall Length, inches
CJ127A	1.2	2.03	3.02
CJ128A	1.2	2.31	3.15
CJ137	1.2	2.9	3.24

Pressure Screws



CJ83-9

CJ83-9 Pressure Screw

- Optional pressure screw for bar-style interchangeable pullers
- Applications include heavy-duty truck transmissions like Eaton® transmissions found on Kenworth® heavy-duty trucks
- Can also be used with the CJ2000A, CJ2000S, CJ2000SB, CJ2002 and CJ2004 puller sets
- Thread: 3/4″-16
- Length: 8-3/4″

PULLERS: SPECIAL PURPOSE



CJ93B

Small Slide Hammer Puller Set

CJ93B Puller Set with Small Slide Hammer

- Removes bushings, seals, sleeves, bearings, bearing races, bronze and oilite bushings and pressed-in studs
- Includes two sets of jaws, grease retainer adaptor, bearing hook, body dent puller, stud-pulling head and 2 lb slide hammer
- Thread size: 3/8-16″



A78



SP2031A

Small/Pilot/Ball Bearing Pullers

A78 Small Bearing Puller

- **For bearings and bushings typically found in small electric motors**
- Includes a large jaw set for bronze and oilite bushings, small jaw set for smaller bearings and bushings
- Up to 3 tons of pulling power
- Working range is 1/2–2″

SP2031A‡ Pilot Bearing Puller (Blue-Point®)

- Attaches to slide hammer shafts with 3/4″-16 or 5/8″-18 threads
- Pressure screw adaptor is made of stress-resistant steel
- Industrial finish



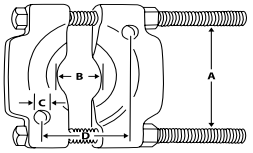
CJ950



CJ952

Bearing Separators

For separating and pulling double bearings and close-fitting gears. Use with tapped hole, two-jaw pullers or floor presses.



Stock No.	A	B Maximum Spread	B Minimum Spread	C	D
CJ949	1-11/16	1-1/8	1/4	5/16″-18	2-5/8
CJ950	2-3/8	2-3/8	3/8	3/8″-16	3-3/4
CJ951	4-3/8	4-1/2	5/8	5/8″-18	7-1/4
CJ952	5-7/8	6-1/8	1-1/2	5/8″-18	9-5/16
CJ953	8-3/8	8-3/4	1-1/4	7/8″-14	14-7/16

Steering Wheel Pullers

CJ134 Tilt Steering Pivot Pin Puller
- Allows efficient removal of the two pivot pins on all tilt steering columns used on Chrysler®, Ford® and GM® vehicles



CJ134

CJ145 Steering Wheel Puller for GM® Vehicles
- Use on new GM® steering wheels with air bags, including tilting and telescoping styles
- Handle attachment facilitates puller setup and can be removed when working in confined areas
- Applications: Buick® (1997 and later Park Avenue/Regal®), Cadillac® (1997 and later Catera), Chevrolet®/GMC®(1997 and later Corvette®/Malibu®, 1998 C and K series trucks, 1998 full size vans, 1998 Astro/Safari® vans), Oldsmobile®(1997 and later Cutlass) and Pontiac® (1988 1993 LeMans, 1997 and later Grand Prix®/Trans Sport van)



CJ145

CJ131P Steering Wheel Puller and Lock Plate Depressor Set
- Includes a selection of bolts and a handle in a storage case for servicing GM®, Ford®, Chrysler® and AMC® vehicles
- Adaptors are included for servicing lock plates on all GM® and AMC® vehicles with tilt wheel
- Detachable handle helps hold the puller when turning force is applied to the pressure screw
- Industrial finish



CJ131P

Power Steering and Alternator Pullers/Single Pullers

CJ3PSA 3 pc Power Steering and Alternator Pulley Removal/ Installation Set
- Includes CJ113B, CJ117C, and CJ124A pullers



CJ3PSA

CJ124A Power Steering and Alternator Pulley Puller
- This is a larger version of CJ117C
- Designed for Chrysler®, Ford® and earlier GM® vehicles



CJ124A

CJ122 2 pc Power Steering Pulley Installer Set
- Includes installer and pulley installer shaft
- Thread size of 5/8″-18UNF-2A (puller end) and 3/8″ 16UNC-2A (shaft end)



CJ122

CJ138 Installer, Pulley, M8 x 1.25
- 8 mm pulley installer features a black industrial finish and a thrust bearing for easier installation
- Applications: power steering pulley on Ford® 4.6 L V8 (1991 and later), Ford® 2.5 L V6 (1995 and later) and the installation of water pump drive pulleys on GM® 4.6 L (1992 and later Oldsmobile® Aurora)



CJ138

CJ113B Pulley Installer, Power Steering/Alternator (for domestic vehicles)
- Designed for US vehicles
- 1″ pulley driver hex, 7/16″ pressure screw hex, thread size of 5/8″-18UNF-2A (puller end) and 3/8″ 16UNC-2A (shaft end)
- 4-5/8″ long



CJ113B

CJ147A Power Steering Gear Lower Pinion Bearing Puller
- Required tool to comply with GM® recall bulletins #02049 and #03062 regarding power steering gear lower pinion bearing separation
- To correct the problem, inspect the condition of the lower pinion bearing and replace the lower pinion bearing—in a few cases, replacement of the rack and pinion steering gear assembly may be necessary—instructions included with tool
- Applications include Buick®: Regal® 1996–1998; Chevrolet®: Cavalier 1996–1998, Lumina 1997–1998, Lumina APV 1996, Malibu® 1997–1998, Monte Carlo® 1997–1998,Venture 1997–1998; Oldsmobile®: Cutlass 1997–1998, Cutlass Supreme 1996–1998, Silhouette 1996–1998, Intrigue 1998; Pontiac®: Grand Prix® 1996–1998, Sunfire® 1996–1998, Trans Sport 1996–1998



CJ147A

⚠WARNING

- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

PULLERS: AUTOMOTIVE



CJ132A

Power Steering and Alternator Pullers/Master Set

CJ132A‡ 14 pc Puller and Power Steering Pump/Alternator Pulley Installation/Removal Set (Blue-Point®)
- GM® Quad 4, 3.1 L GM® and 4.6 L Ford® applications
- Removes/installs press-on, belt-driven accessory pulleys
- Removal housing for grooved hub diameters of 1-1/8, 1-5/16 and 1-3/8″
- Includes components for a 3/8″-16 threaded shaft
- Housing holding bar prevents the main housing from spinning during use with an impact wrench
- Quad 4 installation nut simplifies usage with 4-cylinder GM® vehicles
- Includes instructions and a carrying case

CJ132-1 Pulley Tool (Blue-Point®)
CJ132-2‡ Sleeve (Blue-Point®)
CJ132-3 Installation Nut (Blue-Point®)
CJ132-4‡ Quad 4 Removal Pin (Blue-Point®)
CJ132-5‡ Quad 4 Installer (Blue-Point®)
CJ132-6‡ 3.1L Installer for GM® Vehicles (Blue-Point®)
CJ132-7‡ 3/8″-16 Installer (Blue-Point®)
CJ132-8‡ 4.6 L Installer for Ford® Vehicles
CJ1329‡ Universal Removal Pin (Blue-Point®)
CJ13210‡ Housing Holding Bar (Blue-Point®)
CJ13211 Quad 4 Installation Nut (Blue-Point®)
CJ13212 Threaded Shaft (Blue-Point®)
CJ13213 Removal Housing (Blue-Point®)
CJ13214 Bearing (Blue-Point®)
CJ13215 Washer (Blue-Point®)
CJ132AIS Instruction Sheet (Blue-Point®)



CJ146



YA6490A

Harmonic Damper Pulley Pullers

CJ146 Crankshaft Harmonic Balancer Kit
- Remove the crankshaft harmonic balancer on 1990 and later 3.3 L and 3.8 L GM® engines
- Shoulder bolt adaptors provide the correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes (3) CJ146-1 adaptors, (1) CJ146-2 extension and vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

YA6490A Harmonic Damper Pulley Puller (Blue-Point®)
- New spring-loaded legs allow for leg position retention
- Provides greater ease and control when installing the puller in confined areas
- Removes harmonic damper pulleys found on many Chrysler® and GM® engines
- Used on autos, pickups, SUVs and vans

YA13350 Harmonic Dampener Pulley Puller (Blue-Point®)
- Use on 3.6L Camaro® engines
- Unique design accesses the pulley on internal pulley ledges

YA13450 Harmonic Dampener Pulley Puller (Blue-Point®)
- Use on 3.5 L and 5.7 L Dodge® engines
- Unique design accesses pulley on internal pulley ledges



YA6491A

Harmonic Balancer

YA6491A Harmonic Damper Pulley Puller Update Kit (Blue-Point®)
- Updates earlier YA9740 pullers to the same applications as the new YA6490A
- Kit updates other pulley pullers that are similar to the YA9740 series of pullers
- Add YA6491 Update Kit to the existing YA9740 series pullers to add these new applications: GM® 4.2 L Straight 6-cylinder; Chevy® Trailblazer®. Colorado®; GMC® Envoy®, Canyon® (2004–later); Oldsmobile® Bravada® (2003–later); Buick® Rainier (2004–later) 3.5 L Straight 5-cylinder: Hummer® H3® (2006–later) 2.8 L Straight 4-cylinder

YA9740A-6 Short Push Rod (Blue-Point®)
- Short push rod for older model YA9740 pullers
- Use on crankshafts that are not drilled to full depth

Pitman Arm Pullers

CJ89 Pitman Arm Puller

CJ115 Pitman Arm Puller

- Similar in design to CJ119B except it is designed for compact and intermediate size cars

CJ119B Pitman Arm Puller (Domestic Cars/Light Trucks)

- Designed for most US cars and light trucks
- Pressure screw size: 3/4″-16 x 6-7/8″
- Industrial finish

YA6880 Low-Profile Pitman Arm Puller

- Fits in the confined space on most GM® (1988–2000 C and K Series chassis) trucks and SUVs; also fits 2001–present trucks and SUVs with steering gear box/pitman arms
- Forged chromoly steel for strength and durability
- Design allows the technician save time removing the arm off of the steering gear box without altering the boxes position

PAR1188 Heavy-Duty Pitman Arm Puller

- Removal of large pitman arms onto 1 ton pickup trucks
- Applications include Ford® F-250/350 (2000–later), Dodge® 2500/3500 (2011–later), Chevrolet®/GMC® 2500/3500 (2011–later)

PAR1490 Super Duty Pitman Arm Popper

- Fits short sector shaft and long sector shafts with a bolt or nut attachment
- Forged from alloy steel
- Heat treated for rigidity and durability
- Fine pitch thread for reduced effort
- Ball bearing tip to protect the sector shaft



CJ89



CJ119B



YA6880



PAR1490

Light-Duty Pullers

Builds pullers.

Stock No.	Puller Type	Maximum Reach, inches (mm)	Outside Spread, inches	Inside Spread, inches
CG240	2-Jaw	2-1/2 (64)	0–3	7/8–3-1/4
CG240H	2-Jaw	2-1/2 (63)	0–3	7/8–3-1/4
CG240HL	2-Jaw	3-1/2 (88)	0–4	1–3-3/4
CG240L	2-Jaw	3-1/2 (89)	0–4	1–3-3/4
CG243	3-Jaw	2-1/2 (64)	0–3	7/8–3-1/4
CG243H	3-Jaw	2-1/2 (64)	0–3	7/8–3-1/4
CG243HL	3-Jaw	3-1/2 (89)	0–4	1–3-3/4
CG243L	3-Jaw	3-1/2 (89)	0–4	1–3-3/4

CG2400B Manual Light-Duty Interchangeable General Purpose Puller Set

- This versatile set provides two- or three-jaw pulling with pressure screw or slide hammer options
- Interchange parts to build any of the four puller combinations
- Up to 2-1/2 ton of pulling power
- 3″ dia. capacity for outside pulls



CG2400B

Medium-Duty

Builds pullers. Medium-duty pullers deliver up to 7-1/2 ton of pulling power, 4-1/2″ dia. capacity for outside pulls and from 3/4–8″ dia. capacity for inside pulls. CG6223 Hydraulic Conversion Set converts CG250 and CG253 manual pullers to hydraulic power. The manual components of the indicated medium duty pullers are included in the heavy-duty (CG2500/CG2510 Series) sets.

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG250	Two-Jaw	3	0–4-1/2	1-1/2–3-1/2
CG250A	Two-Jaw, Pulling Plate	3	0–4-1/2	1-1/2–3-1/2
CG250H	Two-Jaw	3	0–4-1/2	1-1/2–3-1/2
CG250HL	Long Jaw, Two-Jaw	6	0–8-1/2	3/4–8
CG253	Three-Jaw	3	0–4-1/2	1-1/2–3-1/2
CG253H	Three-Jaw	3	0–4-1/2	1-1/2–3-1/2
CG253L	Three-Jaw	6	0–8-1/2	3/4–8



CG250

⚠WARNING

- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

PULLERS: GENERAL PURPOSE INTERCHANGEABLE



CG2510BSHY



CG2500BSB

Heavy-Duty

Builds Pullers:

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG654HY	Hydraulic, 2-Jaw	3	0–4-1/2	1-1/2–3-1/2
CG655HY	Hydraulic, 3-Jaw	3	0–4-1/2	1-1/2–3-1/2
CGJ270	2-Jaw	5-1/2	0–8-1/2	2-1/2–7
CG270HA	2-Jaw	5-1/2	0–8-1/2	2-1/2–7
CG270SA	Special Grip, 2-Jaw	5-1/2	0–8-1/2	2-1/2–7
CG273	3-Jaw	5-1/2	0–8-1/2	2-1/2–7
CG273HA	3-Jaw	5-1/2	0–8-1/2	2-1/2–7
CG280A	Long Jaw, 2-Jaw	8	0–10	3–8
CG283A	Long Jaw, 3-Jaw	8	0–10	3–8
CG274HY	Hydraulic, 2-Jaw	8-3/4	10	3–8
CG275HY	Hydraulic, 3-Jaw	8-3/4	0–10	3–8

The CG2510 and CG2500 Series delivers:
- Up to 12-1/2 tons of pulling power
- 10″ diameter capacity for outside pulls
- From 3/4–8″ diameter capacity for inside pulls

CG2510BSBHY Heavy-Duty Manual/Hydraulic Interchangeable Puller Set
- Features 40 interchangeable components, including the CG1224 10-ton hydraulic power kit
- All components are displayed on a VE213 tool control board, which is mounted inside a KRA276D wall cabinet

VE213 Tool Control Board
- Panel for the CG2500BSBHY Manual/Hydraulic Puller Set

CG2510BSHY Heavy-Duty Interchangeable Manual/Hydraulic Puller Set
- Same as the CG2510BSBHY set mounted on a VE213 tool control board
- Does not include the wall cabinet

CG2510BHY Heavy-Duty Interchangeable Manual/Hydraulic Puller Set
- Same as CG2510BSBHY set, without the tool control board or the wall cabinet

CG2500BSB Heavy-Duty Interchangeable Manual Puller Set
- Same as the CG2510BSBHY set less the 10 ton hydraulic power kit components
- Tool control board for this set is VE113B
- Wall cabinet is KRA276D

VE113B Tool Control Board
- Panel A is designed to hold the components for the CG2500BS interchangeable puller set (6, 7-1/2, 10 and 12-1/2 ton capacity)
- Also used as the tool control board for the CG2500BSB manual puller set

CG2500B Heavy-Duty Manual Interchangeable Puller Set
- Same as the CG2500BSB set, without the tool control board or the wall cabinet

CG2500BS Heavy-Duty Manual Interchangeable Puller Set
- Same as the CG2500BSB set mounted on a VE113B tool control board, without the wall cabinet

2-Ton Capacity (1.8 t), 2 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG240A	2-1/2 (64)	7/8–3-1/4 (22–83)	3 (76)	3/8–16 x 5-1/16	3/16 (5)	3/8 (10)
CG240LA	3-1/2 (89)	7/8–3-3/4 (25–95)	4 (102)	3/8–16 x 6-1/16	3/16 (5)	3/8 (10)



CG240A

6-Ton Capacity (5.4 t), 2-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CGJ250	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 6-7/8	1/4 (6)	3/4 (19)
CG250AA*	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 6-7/8	1/4 (6)	3/4 (19)



CGJ250

10-Ton Capacity (9.1 t), 2-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CGJ270	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 9-13/16	1/4 (6)	15/16 (24)
CG270AA*	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 9-13/16	1/4 (6)	15/16 (24)
CG272A**	5-1/2 (140), 8-3/4 (222)	2-1/2–7-1/2 (64–178), 3–8 (76–203)	8-1/2 (216), 10 (254)	3/4–16 x 9-13/16, 3/4–16 x 12-1/8	1/4 (6)	15/16 (24)
CG270SA	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 9-13/16	1/4 (6)	15/16 (24)
CG280A	8-3/4 (222)	3–8 (76–203)	10 (254)	3/4–16 x 12-1/8	1/4 (6)	15/16 (24)
CG284A***	15 (381)	4-3/4–11-1/2 (121–292)	13-3/4 (349)	3/4–16 x 18-15/16	3/8 (10)	1 (25)



CG270AA



CG280A

*Includes CG1 pulling plate. **Two jaw lengths. ***Includes pressure screw extension.

2-1/2-Ton Capacity (2.3 t), 3-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG243A	2-1/2 (64)	7/8–3-1/4 (22–83)	3 (76)	3/8–16 x 5-1/16	3/16 (5)	3/8 (10)
CG243LA	3-1/2 (89)	7/8–3-3/4 (22–95)	4 (102)	3/8–16 x 6-1/16	3/16 (5)	3/8 (10)



CG243A

6-Ton Capacity (5.4 t), 3-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG253LA	6 (152)	3/4–8 (19–203)	5/8-18 x 6-7/8	5/8–18 x 6-7/8	5/16 (8)	3/8 (10)



CG253LA

7-1/2-Ton Capacity (6.8 t), 3-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG253A	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 6-7/8	1/4 (6)	3/4 (19)

12-1/2-Ton Capacity (11.3 t), 3-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CGJ273	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 9-13/16	1/4 (6)	15/16 (24)
CG273AA	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 9-13/16	1/4 (6)	15/16 (24)
CG283A	8 (203)	3–8 (76–203)	10 (254)	3/4–16 x 12-1/8	1/4 (6)	15/16 (24)
CG285A	15 (381)	4-3/4–11-1/2 (121–292)	13-3/4 (349)	3/4–16 x 18-15/16	3/8 (10)	1 (25)



CG285A

⚠WARNING

- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: 2-JAW SLIDE HAMMER


CG240H

2-Ton Capacity (1.8 t) – 1-1/16 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG240HA	2-1/2 (63)	7/8–3-1/4 (22–82)	3 (76)	3/8–16 x 12-5/8	3/16 (5)	3/8 (10)
CG240HLA	3-1/2 (88)	7/8–3-3/4 (25–95)	4 (102)	3/8–16 x 12-5/8	3/16 (5)	3/8 (10)


CG250HL

6-Ton Capacity (5.4 t) – 2-1/8 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG250CA*	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 18-1/16	1/4 (6)	3/4 (19)
CG250HA	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 18-1/16	1/4 (6)	3/4 (19)
CG250HLA	6 (152)	3/4–8 (19–203)	—	5/8–18 x 18-9/16	7/32 (5)	5/16 (8)

*Includes CG250H puller, CG1 pulling plate and pressure screw


CG270C

10-Ton Capacity (9.1 t) – 3-1/2 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG270CA**	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 23-3/8	1/4 (6)	15/16 (24)
CG270HA	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 23-3/8	1/4 (6)	15/16 (24)

**Includes CG1 pulling plate and pressure screw

PULLERS: 3-JAW SLIDE HAMMER


CG243H

2-1/2-Ton Capacity (2.3 t) – 1-1/16 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG243HA	2-1/2 (64)	7/8–3-1/4 (22–83)	3 (76)	3/8–16 x 12-5/8	3/16 (5)	3/8 (10)
CG243HLA	3-1/2 (89)	7/8–3-3/4 (25–95)	4 (102)	3/8–16 x 12-5/8	3/16 (5)	3/16 (5)


CG253H

7-1/2-Ton Capacity (6.8 t) – 2-1/8 lb Hammer

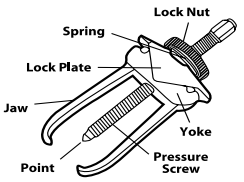
Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG253HA	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–18 x 18-1/16	1/4 (6)	3/4 (19)

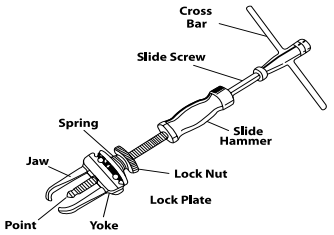

CG273C

12-1/2-Ton Capacity (11.3 t) – 3-1/2 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG273CA*	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 23-3/8	1/4 (6)	15/16 (24)
CG273HA	5-1/2 (140)	2-1/2–7-1/2 (64–178)	8-1/2 (216)	3/4–16 x 23-3/8	1/4 (6)	15/16 (24)

*Includes CG273H puller, CG1 pulling plate and pressure screw





2-1/2-ton Capacity (2.3 t) – 1-1/16 lb Hammer

Stock No.	2-Jaw Yoke CG240-2	3-Jaw Yoke CG243-2	Std. Pres. Screw CG240-1	Long Pres. Screw CG240-11	Slide Screw CG240-8	Slide Hammer CG240-9	2-Jaw Lock Plate CG240-5	3-Jaw Lock Plate CG243-5	Spring CG240-6	Adjusting Nut CG240-7	Standard Jaw CG240-3	Long Jaw CG240-10
CG240A	1	—	1	—	—	—	1	—	1	1	2	—
CG240LA	1	—	—	1	—	—	1	—	1	1	—	2
CG240HA	1	—	—	—	1	1	1	—	1	1	2	—
CG240HLA	1	—	—	—	1	1	—	—	1	1	—	2
CG243A	—	1	1	—	—	—	1	1	1	1	3	—
CG243LA	—	1	—	1	—	—	—	1	1	1	—	3
CG243HA	—	1	—	—	1	1	—	1	1	1	3	—
CG243HLA	—	1	—	—	1	1	—	1	1	1	—	3

6-ton Capacity (5.4 t) – 2-1/8 lb Hammer

Stock No.	2-Jaw Yoke CG250-2	3-Jaw Yoke CG253-2	Pressure* Screw CG250-1A	Slide* Screw CG250-8A	Slide Hammer CG250-9	Cross Bar CG10F	Lock Plate CG250-5	Spring CG250-6	Adjusting Nut CG250-7	Standard Jaw CG250-3	Long Jaw CG250-10	Pulling Plate CG1
CGJ250	1	—	1	—	—	—	1	1	1	2	—	—
CG250AA	1	—	1	—	—	—	1	1	1	2	—	1
CG250CA	1	—	1	1	1	1	1	1	1	2	—	1
CG250HA	1	—	—	1	1	1	1	1	1	2	—	—
CG250HLA	1	—	—	1	1	1	1	1	1	—	2	—
CG253A	—	1	1	—	—	—	1	1	1	3	—	—
CG253HA	—	1	—	1	1	1	1	1	1	3	—	—
CG253LA	—	1	1	—	—	—	1	1	1	—	3	—
CG2500C**	1	1	1	1	1	1	2	2	2	3	3	—

**CG2500C continued in next chart

CG2500C Heavy-Duty Manual Interchangeable Puller Set

- Same as the CG2500CSB set, without the tool control board or the wall cabinet

Heavy-Duty

Stock No.	2-Jaw Yoke CG270-2	3-Jaw Yoke CG273-2	Std. Pres.* Screw CG270-1A	Long Pres.* Screw CG270-11A	Manual Adaptor CG270-13	Slide* Screw CG270-8A	Slide Hammer CG66-2	2-Jaw Lock Plate CG270-5	3-Jaw Lock Plate CG273-5	Spring CG270-6	Lock Nut CG270-7	Standard Jaw CG270-3	Long Jaw CG270-10	Special Jaw CG270-3S	Extra Long Jaw CG270-12
CGJ270	1	—	1	—	—	—	—	—	—	1	1	2	—	—	—
CG270AA	1	—	1	—	—	—	—	—	—	1	1	2	—	—	—
CG270CA	1	—	1	—	—	1	1	—	—	1	1	2	—	—	—
CG270HA	1	—	—	—	—	1	1	—	—	1	1	2	—	—	—
CG270SA	1	—	1	—	—	—	—	1	—	1	1	—	—	2	—
CG272A	1	—	—	1	—	—	—	1	—	1	1	—	2	—	—
CG273AA	—	1	1	—	—	—	—	—	1	1	1	3	—		—
CG273CA	—	1	1	—	—	1	1	—	—	1	1	3	—	—	—
CG273HA	—	1	—	—	—	1	1	—	1	1	1	3	—	—	—
CG280A	1	—	—	1	—	—	—	—	—	1	1	—	2	—	—
CG283A	—	1	—	1	—	—	—	—	1	1	1	—	3	—	—
CG284A	1	—	—	1	1	—	—	—	—	1	1	—	—	—	2
CG285A	—	—	—	1	1	—	—	—	1	1	1	—	—		3
CG2500C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

20-ton Capacity (18.1 t), 2-Jaw

Stock No.	Description	2-Jaw Yoke CG300-2	Lock Nut CG300-7	Lock Plate CG300-5	Long Jaw CG305-9	Pressure Screw CG300-1	Pressure Screw CG305-8	Spring CG300-6	Standard Jaw CG300-3
CG300	20-Ton Two Jaw Pressure Screw Puller	1	1	1	—	1	—	1	2
CG305	20-Ton Two Jaw Pressure Screw Puller	1	1	1	2	—	1	1	—

⚠WARNING

- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: INDUSTRIAL



CG1038KA

Industrial Puller Sets

CG1038KA Industrial Puller Set
- Includes more than 35 basic pullers that will assemble into more than 165 puller combinations
- Standard pullers in this set have a range from 2–20-ton
- The hydraulic power components provide up to 20-tons of easy pulling power
- Optional 10 and 50-ton hydraulic accessories are available
- Components are mounted on (4) 24 x 32 x 3/4″ tool control panels (labeled A, B, C and D) with white silhouettes
- The panels are mounted on KRA213E A-frame

CG1050KA Expanded Industrial Puller Set
- Includes the CG1038KA industrial puller set and the CG1224 power kit for converting 10-ton manual pullers to hydraulic power; CG300-1, CG305-8 and CG350-1 pressure screws; CG343-1 4″ plug; CG350-2 manual yoke for converting the 20-ton hydraulic pullers to manual power and CG555 basic hydraulic set for building a 50-ton hydraulic bar type puller
- Includes CG420-5C pressure gauge, CG420-6 gauge mounting adaptor, ten CG250-20 small centering adaptors and ten CG270-20 large centering adaptors

KRA213E A-Frame
- Mobile unit features 23,220 in^3, 1,260 in^2 of storage for convenient access and orderly storage
- Measures 26-1/2 x 52-3/8 x 32-3/8″

Tool Control Boards

VE113B Tool Control Board
- Panel A is designed to hold the components for the CG2500CS interchangeable puller set (6, 7-1/2, 10 and 12-1/2 ton capacity)
- Also used as the tool control board for the CG2500CSB manual puller set

CGJ250 6-Ton Two Jaw Pressure Screw Puller
CG250HA 6-Ton Two Jaw Slide Hammer Puller
CG250HLA 6-Ton Two Jaw Slide Hammer Puller
CG253A 7-1/2-Ton Three Jaw Pressure Screw Puller
CG253HA Three Jaw Medium Duty Puller
CGJ270 10-Ton Two Jaw Pressure Screw Puller
CG270HA 10-Ton Two Jaw Slide Hammer Puller
CG270SA 10-Ton Two Jaw Pressure Screw Puller
CGJ273 12-1/2-Ton Three Jaw Pressure Screw Puller
CG273HA 12-1/2-Ton Three Jaw Slide Hammer Puller
CG280A 10-Ton Two Jaw Pressure Screw Puller
CG283A 12-1/2-Ton Three Jaw Pressure Screw Puller

VE138-3B Tool Control Board
- Panel B is designed to hold the CG2400B light duty puller set, CJ840C tapped hole puller set, CJ949 bearing separator and CJ9500 bearing separator set components

CG240A 2-Ton Two Jaw Pressure Screw Puller
CG240HA 2-Ton Two Jaw Slide Hammer Puller
CG243A 2-1/2-Ton Three Jaw Pressure Screw Puller
CG243HA 2-1/2-Ton Three Jaw Slide Hammer Puller
CJ93B Puller Set with Small Slide Hammer
CJ840C Complete Bar-Type Manual Tapped Hole Puller Set
CJ949 1-1/8″ Bearing Separator
CJ950 2-3/8″ Bearing Separator
CJ951 4-1/2″ Bearing Separator
CJ952 6-1/8″ Bearing Separator

VE138-2B Tool Control Board
- Panel C is designed to hold the CG450HYA 20 ton hydraulic bar type puller components and the components of CG2545AB blind hole bearing puller set

CG45 7 pc Blind Hole Bearing Puller Set
CG450 Bar-Type Manual Puller Set
CG450HYA Bar-Type Hydraulic/Manual Puller Set

VE138-1B Tool Control Board
- Panel D is designed to hold components of the CG400 20 ton jaw type puller, three CG305-9 long jaws, CG455 and CG455A threaded adaptor sets, plus CG455-18 and CG455-19 pressure screw adaptors
- The adaptors are for use with the bar-type pullers on tool control panel C

CG400 Manual Combination Two and Three Jaw Puller
CG400HYA 20-Ton Hydraulic Puller
CG405 Manual Combination Two and Three Jaw Puller
CG405HYA 20-Ton Hydraulic Puller

Pump and Ram Set Components

Features of two-stage hydraulic pumps:

- Two stage design will advance 20–50 ton rams in the low pressure stage in less than 1/3 the strokes required on other models
- CG520 Ram extends in 60–70 strokes
- CG420 Ram extends in 17–19 strokes
- When high pressure is required, the low-pressure stage automatically kicks out to leave the high-pressure stage to do the work


CG650


CG420-1A


CG720

Capacity, tons	Stock No.	Stroke, inches	Collapsed Height, inches	Extended Height, inches	Effective Area (piston)	Oil Capacity (in³)	Pressure Screw Size, inches
6	**CG650**	1-1/2	4-11/16	6-3/16	1.473	2.210	5/8–11 x 13-1/4
10	**CG120**	1	4-3/4	5-3/4	2.440	2.440	3/4–10 x 16-1/4
20	**CG420-1A**	2	6	8	4.418	8.836	1-1/8–8 x 20-1/2
35	**CG720**	2-1/2	7	9-1/2	7.903	19.758	1-3/8–8 x 25
50	**CG520**	3	8-1/8	11-1/8	11.066	33.198	1-5/8–5-1/2 x 30

CG222 4-Ton Hydraulic Pump and Ram Set
Includes:
CG4-2A Single Stage Pump
CG120-3-1 Hydraulic Hose
CG120-4 Coupler Set
CG220 4 Ton Hydraulic Ram
CG220-13 Pressure Screw
CG4-2A Single Stage Pump

CG122 10-Ton Hydraulic Pump and Ram Set
Includes:
CG120 Ram, Hydraulic, 10-Ton
CG4-2A Single Stage Pump
CG120-13 Pressure Screw
CG120-3-1 Hydraulic Hose
CG120-4 Coupler Set


CG4-2A

CG652 6-Ton Hydraulic Pump and Ram Set
Includes:
CG120-3-1 Hydraulic Hose
CG120-4 Coupler Set
CG250-20 Replacement for CG250 Series Point
CG4-2A Single Stage Pump
CG650 6-Ton Ram

CG420A 20-Ton Hydraulic Pump and Ram Set
Includes:
CG420-1A 20-Ton Ram
CG420-2A Single Stage Hydraulic Pump
CG420-1-14 Centering Adaptor
CG420-3-1 Hose
CG420-4 Coupler Set
CG420A2S Hydraulic Pump and Ram Set


CG420-2A

HYDRAULIC ACCESSORIES

CG6223 Hydraulic Conversion Power Kit

- 6 ton
- Converts the CG250, CG253 manual pullers and CG1500 puller set to hydraulic power
- Includes 6 ton pump and ram set, two jaw yoke, hand wheel adaptor and three jaw yoke

CG652 6-Ton Hydraulic Pump and Ram Set
CG250-15 6-Ton Yoke
CG250-16 Hand Wheel Adaptor
CG253-15 6-Ton Yoke

CG1224 10-Ton Hydraulic Conversion Kit

- Converts the CG270, CG273, CG280, and CG283 manual pullers (on tool control panel A) and CG1700/CG2500B puller sets to hydraulic power

CG122 10-Ton Hydraulic Pump and Ram Set
CG270-15 10-Ton Yoke
CG270-16 Hand Wheel Adaptor
CG273-15 10-Ton Yoke

CG558 50 Ton Hydraulic Push-Pull Puller Accessory Set

- Includes additional side rods and end blocks, plus work screw, side rod, and bull nose adaptors to increase the versatility of the CG555 basic hydraulic set


CG1224


CG420-5C


CG420-6


CG558

CG420-5C Pressure Gauge

- Can be used with 6-, 10-, 20-, 35- and 50-ton hydraulic equipment
- Use for CG4-2A, CG420-2A and CG420A-2S hydraulic pumps
- Indicates hydraulic pressure in ton of pressure as well as PSI
- Adaptor CG420-6 is required to attach gauge to pumps

CG420-6 Gauge Mounting Adaptor

- Mounts CG420-5C Pressure Gauge to 6, 10, 20, 35 and 50 ton hydraulic systems

⚠WARNING

- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: 2- AND 3-JAW HYDRAULIC



CG654HY



CG655HY

Heavy-Duty

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG654HY† Hydraulic, 2-Jaw	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–11 x 13-3/4	1/4 (6)	3/4 (19)
CG655HY* Hydraulic, 3-Jaw	3 (76)	1-1/2–3-1/2 (38–89)	4-1/2 (114)	5/8–11 x 13-3/4	1/4 (6)	3/4 (19)

†Includes hydraulic ram and pump set.
*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG250 or CG253 Pullers.



CG274HY



CG275HY

10-Ton Capacity (9.1 t)

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG274HY† 2 Jaw	8-3/4 (222)	3–8 (76–203)	3–8 (76–203), 10-1/2 (266)	3/4–10 x 16-1/4	1/4 (6)	15/16 (24)
CG275HY† 3 Jaw	8-3/4 (222)	3–8 (76–203)	10 (254)	3/4–10 x 16-1/4	1/4 (6)	15/16 (24)
CG276HY† 2 Jaw	15 (381)	4-3/4–11-1/2 (121–292)	13-3/4 (349)	3/4–10 x 23-3/8	3/8 (9)	1 (25)
CG277HY* 3 Jaw	15 (381)	4-3/4–11-1/2 (121–292)	13-3/4 (349)	3/4–10 x 23-3/8	3/8 (9)	1 (25)

†Includes hydraulic ram and pump set.
*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG270 or CG273 Pullers.



CG400HYA



CG343

20-Ton Capacity (18.1 t) Combination 2 and 3 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG400HYA*	9-1/2 (241)	13 (330)	1-1/8–8 x 20-1/2	7/16 (11)	1-1/4 (32)
CG400	CG400HYA less hydraulic ram and pump				
CG343	Manual version of CG400HYA. Includes CG343-1 4″ Plug and CG300-1 1-14 Pressure Screw in place of ram and pump				
CG405HYA*	14 (355)	15 (381)	1-1/8–8 x 20-1/2	9/16 (14)	1-1/4 (32)
CG405	CG405HYA less hydraulic ram and pump				
CG348	Manual version of CG405HYA. Includes CG343-1 4" Plug and CG305-8 1-14 Pressure Screw in place of ram and pump				
CG425HYA*	19 (482)	20 (508)	1-1/8–8 x 20-1/2	1-1/8 (29)	1-1/2 (38)
CG425	CG425HYA less hydraulic ram and pump				
CG325	Manual version of CG425HYA. Includes 1-3/8″-8 x 20-11/16″ pressure screw in place of pump, ram, washer adaptor, ram adaptor and cap screws				

*Included with hydraulic ram.



CG405HYA



CG560HY



CG425HYA

50-Ton Capacity (45.36 t) Combination 2 and 3 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG560HY*	28 (711)	44 (1,118)	1-5/8–5-1/2 x 30	1-7/16 (36)	2 (51)

*Included with hydraulic ram

PULLERS: BAR-TYPE MANUAL TAPPED HOLE SETS



CJ840C

6-Ton Capacity (5.41 t), Tapped Hole

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw	Side Rods (2)	Side Rod Adaptors (2)
CJ840C	33 (838)	2-5/8–11-5/8 (67–295)	1-14 x 30	5/8-18	1/2-20, 1/2-13, 3/4-16, 3/4-10
Complete Puller Set	Side rods in set are provided two each in 5” (CJ84-5), 10” (CJ84A2) and 20” (CJ84-3) lengths				3/8″-24, 3/8″-16, 5/16″-24, 5/16″-18, 7/16″-20, 5/8″-18, 5/8″-11, 7/16″-14
CJ84C	33 (838)		1-14 x 33	5/8-18	
Basic Puller Set		2-5/8–11-5/8			1/2″-20, 1/2″-13, 5/8″-18, 5/8″-11, 3/4″-16, 3/4″-10

BAR-TYPE MANUAL PUSH-PULL SETS

6-Ton Capacity (5.4 t), Push-Pull

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods	Side Rod Adaptors
CG706 Push/Pull Set	14-1/8 (358)	2-5/8–7-1/2 (67–191)	5/8–18 x 10	—	7/16-14 x 8 (4 each)	7/16–14f x 5/8–18m


CG706

10-Ton Capacity (9.1 t), Push-Pull

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods
CG710 Push/Pull Set	17-5/8 (448)	3-9/16–9-3/8 (90–238)	3/4–16 x 12	CG710-3 3/4-16f x 5/8-18m	(2) 5/8-18 x 8, (2) 5/8-18 x 12


CG710

BAR-TYPE HYDRAULIC/MANUAL SETS

6-Ton Capacity (5.4 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods	Side Rod Adaptors
CG656HY* Hydraulic Set	14-1/8 (358)	2-5/8–7-1/2 (67–191)	5/8–11 x 13-3/4	5/8–11f x 5/8–18m	7/16–14 x 8	7/16–14f x 5/8–18m
CG656	CG656HY Set less the hydraulic components					

*Included with hydraulic ram


CG656HY

10-Ton Capacity (9.1 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods	Side Rod Adaptors
CG150HY Hydraulic Set	17-5/8 (448)	3-9/16–9-3/8 (90–238)	3/4–10 x 16-1/4	3/4-10f x 5/8-18m, 3/4-10f x 3/4-16m	5/8-18 x 8, 5/8-18 x 12	—
CG150	CG150HY Set less the hydraulic components					


CG150HY

20-Ton Capacity (18.1 t), Hydraulic

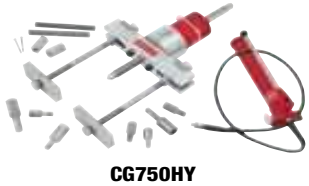
Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches	Side Ride Adaptors, inches
CG450HYA Hydraulic Set	24 (610)	6–15 (152–381)	1-1/8–8 x 20-1/2	—	7/8–14 x 20, 7/8–14 x 10	7/8–14f x 7/8–14m, 7/8–14f x 5/8–18m
CG450	CG450HY Set less the hydraulic components					
CG350	Manually operated version of the CG450					

*Included with hydraulic ram


CG450HYA

35-Ton Capacity (31.7 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods	Side Rod Adaptors
CG750HY	26 (660)	8-1/2–17 (216–432)	1-3/8–8 x 25	1-3/8–8f x 7/8–14m	1–14 x 20, 1–14 x 10	1–14f x 7/8–14m, 7/8–14f x 3/4–16m
CG750	CG750HY Set less the hydraulic components					

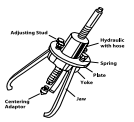

CG750HY

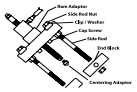
⚠WARNING

- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: REFERENCE CHARTS

Heavy-Duty





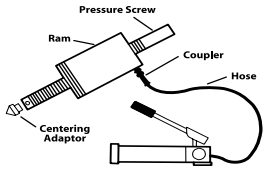
Stock No.	Hydraulic Unit	Ram Adaptor	Hydraulic Adaptor	Yoke	Pressure Screw	4" Dia. Plug	Plate	Spring	Adj. Stud	Jaws	Side Arms/ Side Plate	Arm Bolts Arm Nuts	Washers/ Cap Screws
CG654HY	CG652	CG250-16	—	CG250-15	—	—	CG250-5	CG250-6	—	CG250-3 (2)	—	—	—
CG655HY	CG652	CG250-16	—	CG253-15	—	—	CG250-5	CG250-6	—	CG250-3 (3)	—	—	—
CG274HY	CG122	CG270-16	—	CG270-15	—	—	CG270-5	CG270-6	—	CG270-3 (2)	—	—	—
CG275HY	CG122	CG270-16	—	CG273-15	—	—	CG273-5	CG270-6	—	CG270-10 (3), CG270-3 (3)	—	—	—
CG276HY	CG122	CG270-16	CG270-14	CG270-15	—	—	CG270-5	CG270-6 (4)	—	CG270-12 (2)	—	—	—
CG277HY	CG122	CG270-16	CG270-14	CG273-15	—	—	CG273-5	CG270-6 (4)	—	CG270-12 (3)	—	—	—
CG400HYA	CG420A	—	—	CG400-2	—	—	CG400-5	CG400-6 (4)	CG400-7 (4)	CG300-3 (3)	—	—	—
CG343	—	—	—	CG400-2	CG300-1	—	CG400-5	CG400-7 (4)	CG300-3 (3)	—	—	—	—
CG405HYA	CG420A	—	—	CG400-2	—	—	CG400-5	CG400-6 (4)	CG400-7 (4)	CG305-9 (3)	—	—	—
CG348	—	—	—	CG400-2	CG305-8	—	CG400-5	CG400-7 (4)	CG305-9 (3)	—	—	—	—
CG425HYA	CG420A	CG425-9	—	CG325-2	—	—	—	—	—	CG325-3 (3)	CG325-4 (3)	CG325-5 (3)	CG425-7
CG325	—	—	—	CG325-2	CG325-1	—	—	—	CG325-3 (3)	CG325-4 (3)	CG325-5 (3)	—	—
CG560HY	CG420-2A	—	—	CG560-2	—	—	—	—	—	CG560-3 (3)	CG560-4 (6)	CG560-5 (9)	—

*Included with hydraulic ram (see chart below).

6-ton Capacity (5.41 t), Tapped Hole

Set Stock No.	Hyd. Unit Ram Adapt.	Yoke	Pressure Screw	Centering Adaptor	Pressure Screw Adaptor	Thrust Nut Thrust Washer	Side Rods (2)	Side Rod Hex Nuts (6)	Clip/ Washer	Side Rod Conn. Nuts (2)	End Blocks (2)	Side Rod Adaptors (2)	Cap Screw (2 ea)
CJ84C	—	CJ84-1B	CJ84-4	CJ84-16	—	—	5/8-18 x 10	—	ME5A16 (2)	—	—	—	—
CG706	—	CG656-2	CG706-1	C250-20	—	CG325-6, CG706-2	CG656-3 (4) (8″)	CG656-7	CG656-8 (4)	CG656-6	CG656-6	CG656-12	—
CG710	—	CG150-2	CG710-1	CG270-20	CG710-3	CG45-2, CG710-2	CG150-3 (12″), CG150-4 (8″)	—	—	—	CG150-6	—	—
CG656HY	CG654, CG656-9	CG656-2	—	—	CG656-13	—	CG656-3 (8″)	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11, CG656-10
CG656	—	CG656-2	—	—	CG656-13	—	CG656-3 (8″)	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11, CG656-10
CG150HY	CG122, CG150-9	CG150-2	—	*	CG150-12 (5/8″), CG150-13 (3/4″)	—	CG150-3 (12″), CG150-4 (8″)	—	—	CG150-6	—	CG150-11, CG150-10	—
CG150	—	CG150-2	—	—	CG150-12 (5/8″), CG150-13 (3/4″)	—	CG150-3 (12″), CG150-4 (8″)	—	—	CG150-6	—	CG150-11, CG150-10	—
CG450HYA	—	CG450-10	CG425-9	—	—	—	CG350-3 (18″), CG350-4 (9″)	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11, CG450-12
CG450	—	CG450-10	CG425-9	—	—	—	CG350-3 (18″), CG350-4 (9″)	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11, CG450-12
CG350	—	CG350-2	CG425-9	—	—	—	CG350-3 (18″), CG350-4 (9″)	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11, CG450-12
CG750HY	See Hyd. Unit Chart	CG750-2	—	—	CG750-11 (7/8″), CG750-13 (7/8″)	—	CG750-3 (20″), CG750-4 (10″)	CG750-7	CG750-8 (2)	CG750-5	CG750-6	CG750-9, CG750-10	CG750-11, CG750-12
CG750	CG720-9	CG750-2, CG550-2	—	—	CG750-14 (1-1/8″)	—	CG750-3 (20″), CG550-3, CG750-4 (10″)	CG750-7, CG550-7	CG750-8 (2)	CG350-5	CG750-6	CG750-9, CG750-10	CG750-11, CG550-10, CG750-12

*Included with hydraulic ram (see chart below).



Pump and Ram Sets

Stock No.	Capacity, tons	Ram	Included with Ram Pressure Screw	Included with Ram Centering Adaptor	Hose	Coupler	Pump	Optional Pressure Gauge	Items* Gauge Adaptor
CG222	4	CG220	CG220-13	—	CG120-3-1	CG120-4	CG4-2A	—	—
CG652	6	CG650	CG650-13	CG250-20	CG120-3-1	CG120-4	CG4-2A	CG420-6	CG420-5C
CG122	10	CG120	CG120-13	CG270-20	CG120-3-1	CG120-4	CG4-2A	CG420-6	CG420-5C
CG420A	20	CG420-1A	CG420-1-13A	CG420-1-14	CG420-3-1	CG420-4	CG420-2A	CG420-5C	CG420-6

*Standard with CG559 Bar-Style Puller Set.

Male Adaptors

Stock No.	Female Thread	Male Thread
CG656-12	7/16″-14	5/8″-18
CG656-13	5/8″-11	5/8″-18
CJ84-6	5/8″-18	5/16″-24
CJ84-15	5/8″-18	5/16″-18
CJ84-7	5/8″-18	3/8″-24
CJ84-10	5/8″-18	3/8″-16
CJ84-8	5/8″-18	7/16″-20
CJ84-18	5/8″-18	7/16″-14
CJ84-9	5/8″-18	1/2″-20
CJ84-11	5/8″-18	1/2″-13
CJ84-17	5/8″-18	5/8″-18
CJ84-12	5/8″-18	5/8″-11
CJ84-13	5/8″-18	3/4″-16
CJ84-14	5/8″-18	3/4″-10
CG710-3	3/4″-16	5/8″-18
CG150-12	3/4″-10	5/8″-18
CG150-13	3/4″-10	3/4″-16
CG46-7*	3/4″-10	1″-14
CG46-8**	3/4″-16	1″-14
CG750-9	1″-14	3/4″-16
CG750-10	1″-14	7/8″-14
CG455-18	1-1/8″-8	5/8″-18
CG455-19	1-1/8″-8	7/8″-14
CG47-420	1-1/8″-8	1-1/4″-12
CG550-9	1-3/8″-6	1-3/4″-12
CG455-1	7/8″-14	5/8″-18
CG455-2	7/8″-14	5/8″-11
CG455-3	7/8″-14	3/4″-16
CG455-4	7/8″-14	7/8″-10
CG455-5	7/8″-14	7/8″-9
CG455-6	7/8″-14	1″-14
CG455-7	7/8″-14	1″-8
CG455-8	7/8″-14	1-1/8″-12

*For attaching CG46 Series pullers to CG105HY Hydraulic Bar-Style Puller.
**For attaching CG46 Series pullers to CG710 Push/Pull Set.

CG455 16 pc Male Adaptor Set
- Includes 16 pc (2) each of the male adaptors CG455-1–CG455-8



CG455



CG455A

Female Adaptors

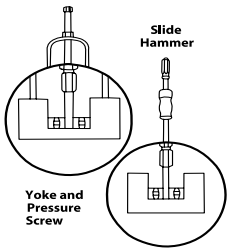
Stock No.	Female Thread
CG455-9	7/8″-14 and 5/8″-18
CG455-10	7/8″-14 and 3/4″-16
CG455-11	7/8″-14 and 1″-14
CG455-12	7/8″-14 and 1-1/8″-8
CG455-13	7/8″-14 and 1-1/8″-12
CG455-14	7/8″-14 and 1-1/4-8
CG455-15	7/8″-14 and 1-1/4″-12
CG455-17	7/8″-14 and 1-1/2″-12
CG455-16	7/8″-14 and 1-1/2″-8

CG455A 18 pc Female Adaptor Set
- 18 pc (2) each of the female adaptors

⚠WARNING

- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS: BLIND HOLE BEARING





CG40CB

Stock No.	Description	Internal Thread Size	External Thread Size
CG40-1	Pressure Screw	—	—
CG40-2	15/16″ Nut	—	—
CG40-3	3 1/4″ Spread Yoke	—	—
CG41-11	Expanding Rod	5/8–18	3/8–24
CG41-14	1/4–5/16″ Collet	—	—
CG41-12	5/16–3/8″ Collet	—	—
CG41-13	3/8–7/16″ Collet	—	—
CG40-4	1/2–20 Expanding Rod	5/8–18	1/2–20
CG40-9	7/16–1/2" Collet	—	—
CG40-15	1/2″–5/8″ Collet	—	—
CG40A6	5/8–3/4″ Collet	—	—
CG40-7	3/4–7/8″ Collet	—	—
CG40-8	7/8–1″ Collet	—	—
CG40A10	1–1-1/8″ Collet	—	—

CG40CB 14 pc Blind Hole Bearing Puller Set
- 14 pc collets, yoke, pressure screw and expanding rods
- Range 1/4–1-1/8″
- Includes a storage box



CG45

Stock No.	Description	Internal Thread Size	External Thread Size
CG270-1A	Pressure Screw	—	—
CG45-2	1-1/8″ Wrench Size Thrust Nut	—	—
CG45-3	5-3/4″ spread Yoke	—	—
CG45-4	Expanding Rod	3/4–16	5/8–18
CG45-15	1–1-1/4″ Collet	—	—
CG45-6	1-1/4–1-1/2″	—	—
CG45-7	1-1/2–1-3/4″ (Uses CG45-4 Expanding Rod) Collet	—	—

CG45 7 pc Blind Hole Bearing Puller Set
- Includes 7 pc (1–1-3/4″) collets, yoke, slide screw and slide hammer



CG2545AB

Stock No.	Description	Internal Thread Size	External Thread Size
CG250-8A	5/8″-18 UNF x 18 9/16″ Slide Screw	—	—
CG250-9	2 lb Slide Hammer	—	—
CG40-1	Pressure Screw	—	—
CG40-2	15/16″ Nut	—	—
CG40-3	3 1/4″ Spread Yoke	—	—
CG41-11	Expanding Rod	5/8–18	3/8–24
CG41-14	1/4–5/16″ Collet	—	—
CG41-12	5/16–3/8″ Collet	—	—
CG41-13	3/8–7/16″ Collet	—	—
CG40-4	1/2–20 Expanding Rod	5/8–18	1/2–20
CG40-9	7/16–1/2″ Collet	—	—
CG40-15	1/2″–5/8″ Collet	—	—
CG40A6	5/8–3/4″ Collet	—	—
CG40-7	3/4–7/8″ Collet	—	—
CG40-8	7/8–1″ Collet	—	—
CG40A10	1–1-1/8″ Collet	—	—
CG270-1A	Pressure Screw	—	—
CG45-2	1-1/8″ Wrench Size Thrust Nut	—	—
CG45-3	5-3/4″ Spread Yoke	—	—
CG45-4	Expanding Rod	3/4–16	5/8–18
CG45-15	1–1-1/4" Collet	—	—
CG45-6	1-1/4–1-1/2″	—	—
CG45-7	1-1/2–1-3/4″ (Uses CG45-4 Expanding Rod) Collet	—	—

CG2545AB 25 pc Blind Hole Bearing Puller Set
- Includes 25 pc collets, yokes, slide screw and slide hammer



CG46

Stock No.	Description	Internal Thread Size	External Thread Size
CG46-1	1″–14 x 18″ Slide Screw	—	—
CG46-2	6 lb Slide Hammer	—	—
CG46-3	Expanding Rod	1–14	1-1/8–12
CG46-4	1-5/8–2″ (uses CG46-4 Expanding Rod) Collet	—	—
CG46-5	2–2-1/2″ (uses CG46-4 Expanding Rod) Collet	—	—
CG46-6	2-1/2–3″ (uses CG46-4 Expanding Rod) Collet	—	—

CG46 6 pc Blind Hole Bearing Puller Set
- Includes (3) collets, slide screw, slide hammer and expanding rod
- For large size blind hole bearings, Torrington® needle bearings, heavy-duty bearings on live center lathes, conveyor belts and rollers



CG47

Stock No.	Description	Internal Thread Size	External Thread Size
CG4567N	11/4″–12 x 24″ Slide Screw	—	—
CG4567O	10 lb Slide Hammer	—	—
CG47-201	Expanding Rod	1-1/4–12	1-1/8–12
CG47-202	Master Collet	—	—
CG47-203	3–3-1/2″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-204	3-1/2–4″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-205	4–4-1/2″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-206	3-1/2–5″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-207	5– 5-1/2″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-208	5-1/2–6″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-209	6–6-1/2″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-210	6-1/2–7″ (uses CG47-201 Expanding Rod) Collet Pad	—	—
CG47-211	3/4" Screw	—	—
CG47-212	1-3/4" Screw	—	—

CG47 13 pc Blind Hole Bearing Puller Set
- Includes 13 pc master collet, pads, slide screw and slide hammer
- Pulling size is altered by changing pads

Accessories

CG40-11 43/64–53/64″ Collet
- For needle bearings on Leece-Neville® alternators
- Used with the CG40-4 Expanding Rod

CG40-12 15–18 mm Collet
- For pilot bearings on late-model Ford® transmissions
- Used with the CG40-4 Expanding Rod

CG40-4-1 4″ Collet Extension
- For CG40 Series collets

CG46-8 Male Adaptor
- Female thread 3/4″–16
- Male thread 1″–14
- For attaching CG46 Series pullers to the CG710 Push-Pull Set

CG46-7 Male Adaptor
- Female thread 3/4″–10
- Male thread 1″–14
- For attaching the CG46 Series pullers to the CG105HY hydraulic bar style puller

CG47-420 Male Adaptor
- Female thread 1-1/8″–8
- Male thread 1-1/4″–12
- For attaching the CG47 Series pullers to the CG450HYA Hydraulic Bar-Style Puller

CJ105-4B Slide Screw
- Included with the CJ2003A Rear Axle Puller Set
- 3/4″–16 x 22-1/2″

CJ97-3A 3-3/4 lb Slide Hammer
- Included with the CJ2003A Rear Axle Puller Set

⚠WARNING
- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

DIESEL: DIESEL SERVICE SETS



CUMDS12V



CUMDS24V

Cummins® B and C Series

Stock No.	Description	Applications				Set Contents	
		12 Valve	24 Valve			CUMDS12V	CUMDS24V
		Pre-1994	1994-1998-1/2	1999-2002	2003	12 Valve	24 Valve
FB300A‡	Bent Blade Feeler Gauge (Blue-Point®)	•	•	•	•	•	•
EEPD500‡	Diesel Compression Gauge	•	•	•	•	•	•
MB5D	Bronze Injector Brush (Blue-Point®)	•	•	•	•	•	•
MB6BTA	9″ Injector Brush (Blue-Point®)	•	•	•	•	•	•
YA9565A	Engine Turning Tool (Blue-Point®)	•	•	•	•	•	•
CJ140-1	Slide Hammer Injector Puller	•	•	•		•	•
CJ142	M14 Diesel Injector Puller Adaptor	•				•	
FRHM17	3/8″ Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Crowfoot Wrench	•				•	
FRXM17	3/8″ Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Socket	•				•	
M3584	Compression Adaptor	•				•	
SP144	Injection Pump Wrench (Blue-Point®)	•				•	
TSM24	1/2″ Drive 6-Point Metric 24 mm Flank Drive® Deep Socket	•				•	
FRHM19	3/8″ Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Crowfoot Wrench		•	•	•		•
FRXM19	3/8″ Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket		•	•	•		•
EEPV313C‡	Diesel Compression Gauge Adaptor		•	•	•		•
CJ143	8 mm Diesel Injector Puller		•	•			•
CJ144	15 mm Diesel Injector Puller		•	•			•
SP504	Gear Puller (Blue-Point®)		•	•			•
CJ148	Fuel Line Plug		•	•	•		•
CJ149	Fuel Tube Remover			•	•		•
TB40	Tote Bag					•	•

Optional Tools

CUMDS12V 14 pc 12 Valve Diesel Set for Cummins® B and C Series Engines

- Includes 3/8″ drive 6-point metric 17 mm flare nut socket and flare nut crowfoot wrench, 1/2″ drive 6-point metric 24 mm deep socket, feeler gauge, diesel compression adaptor, bronze injector brush, stainless steel injector brush, injection pump wrench, 10 mm idle lock nut wrench, 12 mm diesel injector puller adaptor, M14 x 1.5 diesel injector puller adaptor, slide hammer injector puller, engine turning tool and 0–800 PSI diesel compression gauge
- Includes a tote bag

Steering Wheel Pullers

CJ145 Steering Wheel Puller for GM® Vehicles

- Use on new GM® steering wheels with air bags, including tilting and telescoping styles
- Handle attachment facilitates puller setup and can be removed when working in confined areas
- Applications: Buick® (1997 and later Park Avenue/Regal®), Cadillac® (1997 and later Catera), Chevrolet®/GMC® (1997 and later Corvette®/Malibu®, 1998 C and K series trucks, 1998 full size vans, 1998 Astro/Safari® vans), Oldsmobile® (1997 and later Cutlass) and Pontiac® (1988 1993 LeMans, 1997 and later Grand Prix®/Trans Sport van)

Diesel Timing Gauge Set

SP504 Gear Puller (Blue-Point®)

- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm

CUMDS24V 14 pc 24 Valve Diesel Set for Cummins® B and C Series Engines

- Services Cummins® B and C Series 12- and 24-valve engines 1994 and later
- Additional uses include Dodge® heavy-duty pickups and all applications with ISB and ISC diesel engines
- Includes 3/8″ drive 6-point metric 19 mm flare nut socket, 3/8″ drive 6-point metric 19 mm flare nut crowfoot wrench, feeler gauge, bronze injector brush, stainless steel injector brush, gear puller, 8 mm diesel injector puller, 15 mm diesel injector puller, slide hammer injector puller, engine turning tool, diesel compression gauge adaptor, fuel line plug, fuel tube remover and 0–800 PSI diesel compression gauge
- Includes a tote bag

TWM14A 1/2″ Drive 6-Point Metric 14 mm Flank Drive® Shallow Socket

Cummins® B and C Series

FRXM19 3/8″ Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket

Optional Tools for Cummins® B and C Series Engine Sockets

FRXM21 3/8″ Drive 6-Point Metric 21 mm Flank Drive® Flare Nut Socket

- Manufactured from special steel with a higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

Diesel Timing Gauge Set

SP500‡ Diesel Timing Gauge Set (Blue-Point®)
- Used to update existing 2017DSP diesel service sets to handle 1994–1998 Cummins® B engines used in Dodge® Ram® 250/350 pickup trucks and some Ford® trucks

SP503‡ Spline Socket (Blue-Point®)
- Used to remove and replace the delivery valve on most Bosch® fuel injection pumps

SP504 Gear Puller (Blue-Point®)
- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm

SP5001‡ Dial Indicator (Blue-Point®)
- Features rack and pinion construction
- Refer to the pump manufacturer's service manual when using this gauge
- Gauge diameter is 2-1/4″
- Range is 30 mm
- Gauge is marked in .01 mm increments

SP5002‡ Gauge Holder (Blue-Point®)
- Used in the fuel injection pump in place of the #1 delivery valve to locate the base circle of the injection pump cam
- Male thread is M22 x 1.5


SP500


SP503


SP504


SP5002

DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES

Pulley Installers and Pullers

M1324 Pulley Installer
- **For installing the accessory drive pulley on the shaft**
- Includes 7/8″-14 NC threaded adaptor, washer type bearing and installer housing

CJ83C Pulley and Gear Puller
- Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines, including Cummins® accessory drives and water pumps
- Includes (2) 3/8″-16 x 3″, 5/16″-18 x 2-1/2″ and M10-1.5 x 65 mm bolts
- Nominal capacity is 3-1/2 ton

CJ86-1 Yoke
- Included with the CJ2002 Gear Puller Set
- 1-3/4–4-1/2″

CJ83-3 Pressure Screw
- 3/4–16 x 5-1/8″

CJ66-15-3 Centering Point
- 5/8″ head, 90° outward point

ME5A54 Washer

ME5A55 Washer

ME3A45 Stud

ME3A44 Bolt

ME3A75 Stud


M1324


CJ83C

Torque Adaptor Set

M1302A5 Screwdriver
- 1/2 x .062″ screwdriver

M1302B18 12-Point Deep Socket
- 9/16″ deep, 12-point socket

M1302B24 12-Point Deep Socket
- 3/4″ deep, 12-point socket

ST669 6 pc Torque Adaptor Set
- Used to loosen and adjust lock nuts to manufacturing specifications

ST669-1 Handle Assembly
- Included in the ST669 Torque Adaptor Set

TM82 1/4″ Drive 1/4″ Flat Tip Short Bit Socket
- Manufactured from high-grade alloy steel


M1302B18


M1302B24

ST669

Compression Adaptors/Injector Style

M3540C‡ Compression Adaptor
- For Cummins® 855 in³ NH, and 903 V8 and L10 diesel engines

M3585C Compression Adaptor
- For Case®/Cummins® Series C 8.3 L engines

M3584C‡ Compression Adaptor
- For Case®/Cummins® Series B 2.9 L, 3.9 L and 5.9 L diesel engines


M3540C


M3585C

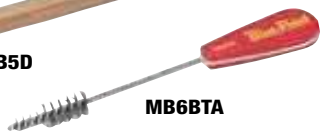

M3584C

Injector Brushes

MB5D Bronze Injector Brush (Blue-Point®)
- Bronze non-abrasive brush cleans carbon from injector tips

MB6BTA 9″ Injector Brush (Blue-Point®)
- Stainless steel wire brush cleans the injector cavity in the cylinder head
- 9″ long


MB5D


MB6BTA

⚠WARNING

- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES


CJ148

CJ149


YA6615

Fuel Line Tools

CJ148 Fuel Line Plug
- For plugging fuel lines

CJ149 Fuel Tube Remover
- For fuel inlet tubes on late-model vehicles

YA6615 24 mm Flare Nut Wrench for Cummins® (Blue-Point®)
- Used on Dodge® trucks with 5.9 L engines (2003 and later) and 6.7 L engines (2007 and later)
- Easily slides into the confined area of the cylinder head
- Wrench is required to hold the 24 mm flare nut while the 19 mm fuel line coupler is loosened
- Helps prevent costly damage to the fuel lines


M1328A


M1321


M1329

Air Compressor Fuel Pump Wrenches

M1328A Air Compressor/Fuel Pump Wrench
- Includes a 5/8″, 12-point box wrench on one end for servicing fuel pumps and a specially designed 11/16″ open end for access to air compressor bolts

M1321 Air Compressor/Fuel Pump Wrench
- Similar to M1328A but has a 12-point box wrench on both ends
- Accommodates air compressor and fuel pump flange bolts on NH Series Inline 6-cylinder engines

M1329 Fuel Pump Wrench
- Includes a 7/16″, 12-point box end for servicing fuel pump bolts on NH Series engines equipped with Cummins® air compressors
- 6-5/8″ long


M1322

Valve Adjusting Wrenches

M1322 Valve Adjusting Wrench
- 3/4″, 12-point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 14-3/4″ long

M1319 Valve Adjusting Wrench
- 7/8″, 12-point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 12″ long


CJ125A


CJ140


CJ141

Injector Pullers

CJ125A Injector Puller
- Slide hammer puller services D, top stop and small V8 injectors
- 10-1/2″ long

CJ140 5 pc Diesel Injector Puller Set
- Used on fuel injectors in Cummins® B and C Series 3.9 L, 5.9 L and 8.3 L engines used in Dodge® pickups, Case® tractors and off-road equipment
- Will service all 1994–1998-1/2 standard injectors, as well as fuel inlet tubes

CJ140-1 Slide Hammer Injector Puller
- Used to pull injectors from heads on 1998-1/2–2002 Dodge® and Cummins® engines
- 8 x 1.25 mm thread
- Use the CJ144 Puller to pull the fuel inlet tube prior to removing the injector

CJ141 Diesel Injector Puller Adaptor
- Used on Cummins® diesel injectors prior to 1994

CJ142 M14 Diesel Injector Puller Adaptor
- Used on Cummins® diesel injectors from 1994–1998-1/2

CJ143 8 mm Diesel Injector Puller
- Used on 1998-1/2 Cummins® diesel injectors in tight-access areas

CJ144 15 mm Diesel Injector Puller
- Used on 1998-1/2–2002 Cummins® diesel fuel inlet tubes

Injector Pump Idle Lock Nut Wrenches

SP144 Injection Pump Wrench (Blue-Point®)

- 13 mm, 12-point box wrench is used to service the injection pump mounting bolts found on 5.9 L Cummins® engines



SP144

Engine Turning Tools

YA9565A Engine Turning Tool (Blue-Point®)

- Used to rotate the engine for making valve and injection pump adjustments on Cummins® and Case® 3.9 L, 5.9 L and 8.3 L B and C Series engines

Injector Height Gauges

- Used to set injectors during installation and at set service intervals
- Knurled handle screws into the gauge at a 90° angle for work in close quarters

SP7882 6 pc Diesel Injector Height Gauge Set

- Five-in-one gauge set covers all applications for Detroit Diesel® 50 and 60 Series engines
- Includes (5) injector height gauges and (1) handle
- Includes a storage pouch

SP7882-1 Diesel Injector Height Gauge Handle
SP7882-782 Injector Height Gauge (Blue-Point®)
SP7882-788 Injector Height Gauge (Blue-Point®)
SP7882-803 Injector Height Gauge (Blue-Point®)
SP7882-810 Injector Height Gauge (Blue-Point®)
SP7882-821 Injector Height Gauge (Blue-Point®)



SP7882



SP7882-1



SP7882-782 SP7882-788 SP7882-803



SP7882-810 SP7882-821

Diesel Fuel System Tools

FPWD14 Duramax® Fuel Pressure Sensor Wrench

- Saves hours of time by eliminating the need to remove the EGR cooler system and fuel rail—simply unbolt air conditioning compressor to remove the front EGR valve
- 2 pc design reduces the time required to service the fuel pressure release valve
- Tool slips onto the release valve from back to front allowing the handle to slide into the crescent end of the socket, making loosening the fuel pressure release valve easier



FPWD14

Ford® Fuel Filter Wrench

FFW2A 24/36 mm Fuel Filter Socket (Blue-Point®)

- Double-sided 3/8″ drive socket includes both a 24 mm 6-point socket and a 36 mm slotted socket
- Made of machined aluminum and anodized for surface protection



FFW2A

Hand Sockets

HXD22 1/2″ Drive External Hex 22 mm Socket

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners



HXD22

Hand Sockets

HXD24 1/2″ Drive External Hex 24 mm Socket

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners
- Applications: Suzuki® motorcycles (1300GSXR and 1000GSXR); Hayabusa® motorcycles (various models)



HXD24

⚠WARNING

- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages W1 to W4

DIESEL TOOLS



ORG1315

Oil Rail Gauge

ORG1315 Oil Rail Gauge

- Correctly determine dimension and select correct back-up ring when installing high-pressure oil manifolds
- Used to install high-pressure oil manifolds on International® DT466 and MaxxForce® engines from 2004–2013
- All three sizes in one tool
- No stacking of feeler gauges
- Heat treated 4130 for durability and accuracy
- Red vinyl-dipped handle for increased visibility
- Large ring end for easy handling



FDT1116



M3530



M3531

Fuel Line Disconnect Tools

- This set includes a total of four fuel line disconnect tools: –two tools—a straight and a 90° angle—for the 11.8 mm fuel lines and; –two tools—a straight and a 90° angle—for the 16 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools—the straight tools allow access into tight areas
- All four tool handles are highly visible orange for easy identification

FDT11 Angled Fuel Disconnect Tool

- 90° angle for 11.8 mm fuel lines
- Handle is highly visible orange for easy identification

FDT11STR Straight Fuel Disconnect Tool

- For 11.8 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification

FDT16 Angled Fuel Disconnect Tool

- 90° angle for 16 mm fuel lines
- Handle is highly visible orange for easy identification

FDT16STR Straight Fuel Disconnect Tool

- For 16 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification

FDT1116 Fuel Line Disconnect Tool Set

- Includes (4) fuel line disconnect tools—a straight and a 90º angle for the 11.8 mm fuel lines and a straight and a 90º angle for the 16 mm fuel lines
- OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools—the straight tools allow access into tight areas
- All four tool handles are highly visible orange for easy identification
- Set includes FDT11, FDT11STR, FDT16 and FDT16STR

Governor Gap Wrenches

M3530 Governor Gap Adjusting Wrench

- 3/8″ open ends, 4″ long
- Special thin design with 30° and 60° angle heads

M3531 Governor Gap Lock Nut Wrench

- 7/16″ open ends and is 4-1/4″ long
- Special thin design with 30° and 60° angle heads



B4400A



WSW3

Starter Bolt and Fuel Filter Wrenches

WSW3 Duramax® Fuel Filter Water Sensor Wrench

- Glass-filled nylon tool with four sizes: 40, 41, 42 and 46 mm
- All-in-one tool that works on all four OEM and aftermarket sizes available in the marketplace today
- Applications: 6.6L Duramax® Diesel engines including 2001–current Chevy® Silverado® and GMC® Sierra® 2500 and 3500 vehicles

B4400A Starter Bolt Wrench

- Manufactured from special alloy steel and heat treated for optimum strength
- Specially contoured for tight-access areas
- Used for John Deere® starter bolts



FCT706

Fan Clutch Wrench

FCT706 Fan Clutch Wrench (Blue-Point®)

- Used for heavy-duty truck engines
- Hole pattern on the tool aligns with fasteners on the fan hub
- Use with open end to remove a fan clutch
- 24-1/2″ length for maximum leverage

Feeler Gauges

FB325A‡ SAE and Metric Feeler Gauge Set (Blue-Point®)
- Includes blade sizes .0015 and .002–.025″
- Use for adjusting governor gap
- Double stamped with SAE and metric sizes

FB308D‡ Step Feeler Gauge Set and Holder (Blue-Point®)
- Used for adjusting valves
- Includes 12 step blades in sizes .008″/.010″–.028″/.030″

FB328A‡ Step Feeler Gauge Set and Holder (Blue-Point®)
- For adjusting valves
- Includes two step blades: .011″/.013″ and .013″/.015″
- For valve adjustment on GM® 8.2L engines
- Double stamped with SAE and metric size


FB325A


FB308D


FB328A

Push Rod Wrenches

M3517B Push Rod Lock Nut Wrench
- 1/2″ open end, 102° offset handle

M3518 Push Rod Adjusting Wrench
- 5/16″ open end, 102° offset handle


M3517B

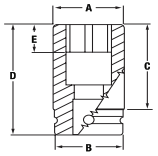

M3518


M3525A


M3503B


S6200


FLS1219



Special Application Sockets

M3525A 1/2″ Drive Spanner Socket
- 1/2″ drive, 3-7/32″ long
- Includes 1-1/8″ internal hex for use on “Fuel Squeezer” Series engines

M3503B 3/8″ Drive Fuel Line Nut Socket
- 1/2″ wrench opening
- 3/8″ drive, 6-point
- Shaped for access to fuel line nuts
- 3-1/4″ long
- Additional applications include the head temperature sensor on Buell® Motorcycles

S6200 1/2″ Drive 12-Point Metric 12 mm Engine Bearing Cap Bolt Impact Socket
- Use to service engine cam bearing cap bolts on both older and newer generation Detroit Diesel® engines
- Newer generation Detroit Diesel® engines use longer cam bolts than earlier generation engines
- The S6200 is specially designed to work on both engine generations
- 4-3/8″ long

FLS1219 1/2″ Drive Fuel Line Socket
- Designed to easily torque fuel injector lines correctly, reducing or eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings
- Easily applies the 30 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins® ISB engines 1998 to present
- 1/2″ drive, 19 mm

FLS1222 1/2″ Drive Fuel Line Socket
- Designed to easily torque fuel injector lines correctly, reducing or eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings
- Easily applies 80 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins® ISX engines 2007 to present
- 1/2″ drive, 22 mm

TLEPL50 1/4″ Drive TORX® Plus® 5EPL Socket
- Manufactured from special steel with higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use “cheater bars” on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

DIESEL TOOLS



SCFM2538

Crowfoot Wrench

SCFM2538 3/8″ Drive Cummins® Wastegate Solenoid Crowfoot Wrench

- Manufactured from steel with a higher alloy content
- Heat treated for optimum strength and durability
- Crowfoot design helps to not damage the solenoid while providing access to it during removal or installation
- Crowfoot design and square drive allow for proper torquing of the solenoid during installation



S6201

Specialty Service Tools

S6201 M20 x 1.5 Rethreader Tap

- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

DIESEL: FORD®/NAVISTAR®



SRD6

Belt Tensioning Tools

SRD6 Belt Tensioner Release Tool

- 6″ long adaptor with 1/2″ male square
- Female triple square drive allows more flexibility to work around obstacles by coming in at different angles with a 1/2″ breaker bar
- Similar to the Snap-on® 6″ torque adaptors but with a male square
- If using with a torque wrench, refer to the Snap-on® SS306G Torque Chart for the formula to obtain the correct applied torque

Heavy-Duty Applications:

- For serpentine belt tensioners with a 1/2″ square drive opening found on Series 60 Detroit Diesel® and Caterpillar® engines
- Other applications include buses and delivery vans where the doghouse or engine shrouding can get in the way and make the work area very tight

Automotive Applications:

- 1/2″ serpentine belt tensioners on Dodge®/Chrysler® (2.0 L and 3.0 L engines) Ford®, Lincoln® and Mercury® (2.3 L, 3.0 L, 4.2 L and 4.6 L engines) GM® (2.5 L, 4.7 L, 5.0 L and 5.7 L engines) vehicles



YA9340

YA9340‡ Serpentine Belt Wrench (Blue-Point®)

- Used to release any serpentine belt tensioner with a 1/2″ square drive opening
- Ratcheting action allows better positioning of the tool, creating a greater swing angle than a solid-type serpentine belt wrench
- Reversible ratchet head is only 1″ thick so it will fit between the tensioner face and fan blades on S Series 60 Detroit Diesel® and some Caterpillar® engines
- Also ideal for working on buses and delivery vans where the doghouse or engine shrouding restrict access
- Compact overall length keeps handle from coming in contact with radiator hoses, charged air cooler pipes, hydraulic lines or frame rails
- Vinyl grip for comfort
- 13″ overall length



S6196KR

Ford® ICP Sensor Socket

S6196KR 3/8″ Square Drive 6-Point ICP Sensor Socket for Ford® Vehicles

- Easily removes and installs the ICP Sensor on 2002 and 2003 Ford® 6.0 L diesel truck engines
- Spring retention securely holds the sensor during use
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- 6-point configuration and Flank Drive® wrenching system
- Nickel-chrome finish resists against rust and corrosion
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power



FGPT

Glow Plug Tool

FGPT Glow Plug Harness Tool

- Prevents damage to the harness and connector rail
- Removes and installs glow plug connectors
- Orange color for easy identification in dark engine compartments

Ford® Fuel Filter Wrench

FFW2A 24/36 mm Fuel Filter Socket (Blue-Point®)
- Double-sided 3/8″ drive socket includes both a 24 mm 6-point socket and a 36 mm slotted socket
- Made of machined aluminum and anodized for surface protection


FFW2A

Diesel Exhaust Fluid (DEF) Tools

DEFT300 3 pc Diesel Exhaust Fluid (DEF) Tube Release Forks Set
- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips
- Includes DEFT322, DEFT325 and DEFT334

DEFT322 Small DEF Fork
- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips

DEFT325 Medium DEF Fork
- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips

DEFT334 Large DEF Fork
- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips


DEFT325


DEFT300

Diesel Pulse Adaptor

MT257B Diesel Pulse Adaptor (Blue-Point®)
- Tests injector timing or engine RPM on diesel engines equipped with 1/4″ or 6 mm external steel fuel injector lines
- Enables use with inductive pick-up timing light to test engine timing
- Not for use on diesels with common rail fuel systems


MT257B

Injector Brushes

MB5D Bronze Injector Brush (Blue-Point®)
- Bronze non-abrasive brush cleans carbon from injector tips

MB73A Injector Brush (Blue-Point®)
- Combination 5/16″ and 13/16″ dia. stainless steel wire brush cleans the injector bore and injector tip hole in the cylinder head


MB5D MB73A

Pulley Puller

SP448 Pulley Puller (Blue-Point®)
- For removing the air pump pulley
- Fits over the pulley flange


SP448

Injector Hold-Down Fastener Tools

S6340E 3/8″ Drive TORX® T40 Injector Hold-Down Fasteners Bit Socket
- Manufactured from a special alloy steel and heat treated for optimum strength
- Snap-on® bits are designed with precise fit and tight tolerance to prevent slippage and disengagement
- Perfect length of 3-1/8″ is ideal for removing and reassembling Ford® Power Stroke® 6.0 L diesel injectors
- A regular length T40 bit socket is too short and a long T40 bit socket is too long when used with a ratchet or torque wrench and will not fit the application

S6340E2 T40 TORX® Driver Bit


S6340E

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
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- Read safety precautions on pages W1 to W4

DIESEL: FORD®/NAVISTAR®



PSWT10K



S6210



TAP1225

Ford® Diesel Turbo Tools

PSWT10K Power Stroke® Diesel Turbo Wrench for Ford
- 10 mm wrench is ideal for accessing the turbo mounting bolts located between the firewall and the turbo with the exhaust intake in the way
- Designed for use on 2003–later Ford® F-250, F-350, E-250 and E-350 vehicles with 6 L Power Stroke® diesel engines
- Additional applications on Navistar® VT365 engines and some International® 4000 Series of medium-duty trucks
- Wrench has a 0° offset 6-point head
- Designed to remove excessively tight fasteners off the intake when removing turbocharger where a conventional 15° offset wrench will not work
- 5-1/2″ long

S6210 Diesel Turbo Inlet Pipe Socket for Ford® Vehicles
- Socket designed like the S6210

S6210A Diesel Turbo Inlet Pipe Socket for Ford® Vehicles
- Socket designed like the S6210

TAP1225 Turbo Vane Actuator Puller
- Specially designed for Ford® 6.4 L turbo diesel to save the technician time
- Compact size fits on or off the truck
- Self-aligning for easy install
- Removes the actuator link rod from the arm on the turbo of 2008–2010 Ford® 6.4 L Power Stroke® diesel engines

Fuel Injector Sockets

- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter



YA1140-1

YA1140-1 Long Diesel Injector Crowfoot Socket (Blue-Point®)
- Ford® 6.7 L Power Stroke® Diesel
- Inline design of the YA1140-1 allows accurate torquing of the injector and clears the plastic housing and fuel return line
- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter



YA1140-21

YA1140-21 Offset Diesel Injector Crowfoot Socket (Blue-Point®)
- Ford® 6.7 L Power Stroke® Diesel
- Design of the YA1140-21 allows it to rotate under the fuel line while the depth stop keeps it at the specified height to clear the plastic housing
- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter



YA1140

YA1140 Diesel Injector Crowfoot Socket Set (Blue-Point®)
- Includes 2 pc YA1140-1 and YA1140-21
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter


SWR3


S3624


A129


OFSKIT


OFS2432

Sensor and Filter Sockets

SWR3 Water Sensor Socket
- Easily removes and replaces a water sensor without damage when changing the fuel filter on 2001–present GM® 6.6 L DuraMax® diesel engines in Chevy®/GMC® pickups and in Chevy®/GMC® medium-duty trucks
- Manufactured from high-strength chemical-resistant glass-filled nylon
- NOTE: Due to possible sensor distortion from previous incorrect removal/installation methods, the sensor may slip in the SWR3 during removal; used to reinstall the sensor when proper hand tightening is used
- 3/8″ square drive

S3624 3/8″ Square Drive Metric 24/36 mm Filter Flip Socket
- One tool will remove/install all three filter caps on Ford® 6.0 L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap, primary and secondary fuel filter caps
- Not for impact use
- Requires optional 3/8″ drive extension (FX1 or FXWP1 1-1/2″ long)

24 mm applications:
- Buick® vehicles: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac® vehicles: VVT-V6 CTS, STS, SRX
- Saturn® vehicles: L-3000 V6

35/36 mm applications:
- Audi®/Volkswagen®: VR6 engine
- BMW®: 6-, 8- and 12-cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 Series, XC90 with 3.2L 6-cylinder engine
- Nickel-chrome finish

A129 Diesel Fuel Filter Socket
- Use for removing and installing fuel filter housings
- 1-1/8″ wrench size
- 3/8″ drive

OFSKIT 4 pc Oil/Fuel Filter Socket Set
- Includes A127 and A106 Oil Filter Sockets, S3624 Filter Flip Socket and A129 Cummins® Diesel Fuel Filter Socket in a storage tray

Applications:
- A127 removes and installs 27 mm (1-1/16) oil filters on 2003 and later Mercedes-Benz® 1.8 L 4-cylinder engines
- Aftermarket oil filters with one nut at the top of the canister
- A129 Cummins® Diesel Fuel Filter Socket is used for removing and installing fuel filter housings found on 2002–later Dodge® Ram® trucks with the 24-valve Cummins® diesel engine
- A106 Low Profile Oil Filter Socket
- GM® Ecotec®, 2.0, 2.2 and 2.4 L four-cylinder engines
- Saturn®: L-series (2001), Ion and Vue (2002–later)
- GM®: Cavalier, Sunfire®, Grand AM, Sonoma, S10, Alero (2002–later)
- Malibu®: 2002–2006
- Pontiac®: G6 and Solstice® (2006)
- Chevrolet®: HHR, Cobalt®, Cobalt® SS (2006)
- Saab®: Some general applications
- S3624 Filter Flip Socket removes and nstalls all three filter caps on Ford® 6.0L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap plus primary and secondary fuel filter caps

Additional 24 mm applications:
- Buick®: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac®: VVT-V6 CTS, STS, SRX
- Saturn®: L-3000 V6

Additional 35/36 mm applications:
- Audi®/Volkswagen®: VR6 engine
- BMW®: 6, 8 and 12 cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 series, XC90 with 3.2L 6-cylinder engine

OFS2432 24/32 mm Oil Filter Housing Flip Socket
- Used for Audi®, Volkswagen®, Porsche®, Chrysler®, Dodge®, Jeep®, RAM®,Lamborghini® and Mercedes-Benz® vehicles
- Remoal and installation of the oil filter housing on 2.0L I4 diesel engine, 3.0L V6, 3.6L V6, 4.0L V8 turbo, 4.2L V8, 5.2L V8, 5.5L V8 turbo and 6.3L V9 engines
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability

⚠WARNING
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

DIESEL: AUTOMOTIVE DIESEL



ICP1610



IPK1220



IPK1400



IPK1170



IPK1330



IPK1630



IPK1640

Injector Pullers

ICP1610 Duramax® LB7 Injector Cup Puller
- Designed to remove and help avoid damage to injector cup sleeves
- A must-have tool when re-sealing the sleeves, allowing the technician to work more efficiently
- Heat-treated alloy steel for long life

IPK1170 Injector Puller Kit
- Used for GM® LB7 Duramax® engines
- Pulls injector straight
- Pulls far enough to completely remove a stuck injector
- Saves time by reducing the likelihood of loosening the sleeves (up to 1/2 hour per sleeve)
- Removes sleeve from the injector without damage

IPK1220 Injector Puller Kit
- Removes diesel injectors on VW® and Audi® vehicles from 2000–present
- Correct tools all in one kit—no searching for shop tools
- Kit contains (3) adaptors with 2 lb slide weight on a 10″ slide shaft
- Kit includes the newest style adaptor to keep this kit current for the next ten-plus years

IPK1330 Injector Puller Kit
- Used to remove diesel injectors from GM® vehicles produced from 2004–2010 with an LLY, LBZ or LMM Duramax® engine
- Pulls injector straight out without rocking
- Pulls far enough to completely remove a stuck injector
- Saves time and reduces the likelihood of damaging the injector or head

IPK1400 Injector Puller Kit
- Removes fuel injectors from GM® vehicles produced from 2009–current with SIDI engines
- Works on many other makes and models of motor vehicles
- Designed to pull the injector straight out reducing the possibility of damaging the injector or head
- Pulls injector straight out without rocking
- Sturdy enough so it won't slip off
- Saves time and reduces the likelihood of damaging the head or injector

IPK1630 6.7 L Ford® Power Stroke Injector Puller
- Factory tools rock the injector, binding it to the head and possibly damaging injector; the IPK1630 pulls the injector straight out without rocking and damaging the injector or head
- Unique cantilever I-beam design allows easy assembly on the motor and provides a solid platform for pulling the most stubborn injectors
- Lifts about 3/4″ to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability

IPK1640 GM® LML Duramax® Injector Puller
- A factory tool will rock the injector, binding it into the head and may damage the injector. The IPK1640 will pull the injector straight out without rocking, reducing the possibility of damaging the injector or head
- Custom I-beam bridge design allows easy access to hard to reach injectors and a solid pulling bridge to pull out the most stubborn injectors
- Lifts about 3/4″ to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability

Diesel Injector Puller

IPK1760 Sprinter® Van Diesel Injector Puller Kit

- Removes stuck injectors in minutes instead of hours
- Will not damage the valve cover
- Injector can most likely be reused as a core
- Includes tools to remove the top of the injector, clean the injector seat and a thread chaser for the clamp hole



IPK1760

Ford® Diesel Turbo Tools

TVA1650 Turbo Vane Actuator Installer for Ford® Vehicles

- Simply rotate the arm up, slip the self-centering installer over the arm, and with two wrenches the stud is pushed into the arm in a matter of seconds
- Compact size of tool allows it to be used either on or off the truck
- Single-purpose design saves time and allows the user to work more efficiently while reducing the potential to damage parts during installation
- Fine thread actuator reduces the torque required to loosen the press fit



TVA1650

Injector Pullers

IPK1720 Cummins® 5.9 L and 6.7 L Injector Puller

- For use on Dodge® Cummins® 5.9–6.7 L diesel engines equipped with the high-pressure common rail fuel system
- Designed to slip the puller cup in the groove on the injector and lever it out against the head of the mid-cover center bolts after the wires and retaining bolts have been removed
- Height adjustable for 5.9 L and 6.7 L HPCR engines
- No need to bolt the tool down, moves quickly from injector to injector pulling them straight out, saving time and reducing the likelihood of damaging the head or injector



IPK1720

Metric Injector Sockets

S6128 Metric Injector Socket

- 6-point. 30 mm, 2-1/16″ bolt clearance
- 7/16″ opening depth, 2-11/16″ long
- 7/8″ external hex on the drive end

S6104B Metric Injector Socket

- For VW® and Mercedes® diesel engines
- 12-point, 27 mm
- Clearance bored to fit over the fuel injector
- 1/2″ drive; 3-1/4″ long



S6128



S6104B

Flywheel Lock (Blue-Point®)

YA6925 Flywheel Lock for GM® Duramax® 6.6 Liter Engines (Blue-Point®)

- For 2001–later Duramax® 6.6 L diesel truck engines
- Saves time by not removing the starter motor
- Holds the engine in place for high-torque requirements
- Handle is visible to remind the technician that the engine is locked



YA6925

Turbo Vane Socket

TVS1240 Turbo Vane Socket (Blue-Point®)

- Split socket is made from alloy steel and designed with additional strength
- Correct geometry to reduce the possibility of damaging the sensor
- Fits the confined location between the cold and hot sides of the turbo



TVS1240

⚠WARNING

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

HEAVY-DUTY TRUCK SERVICE TOOLS



S6160



S6194



S6190A



S6260



SHR20



S6100



S6197



S6199

Hand Sockets

S6160 1/2″ Drive 12-Point Metric 12 mm Extra-Long Head Bolt Socket

- Use on 1986–later Nissan® engines with 12 mm head bolts
- 8″ length reaches past the cam and rocker assembly to service head bolts
- Thin-profile socket and shank will reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford®/Mercury® cars such as Mustang®, Crown Victoria®, Lincoln®, Ford® Explorer®, Ranger® and F-150/F-250 trucks

S6260 1/2″ Drive 12-Point SAE 1/2″ Heavy-Duty Spicer® Drive Impact Socket

- For removal of heavy-duty Spicer® drive shaft bolts that have 1/2″ fasteners found on Kenworth® and Peterbilt® trucks, and many other heavy-duty applications
- 8″ long

S6194 1/2″ Drive 12-Point Metric 12 mm Head Bolt Socket

- Used on Toyota® and Nissan® cars and trucks, and Honda® cars with 12 mm head bolts
- 4-1/8″ length reaches past the cam and rocker assembly to service the head bolts
- Thin-profile socket and shank reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford® Explorer®, Ranger® and F-150/F-250 trucks

S6190A IPR Sensor Socket for Ford® Vehicles

- Used on 1994–later Ford® 6.0 L diesel trucks and International® CT365, 530E and 466F
- Similar to Rotunda® part number 303-1112

SHR20 Oil Galley Drain Plug Socket

- For the removal and installation of the oil galley drain plug on Caterpillar® 6 cylinder engines
- Galley plugs may leak and need to be removed so a new O-ring can be installed
- Low-profile design helps get into tight applications
- Special alloy steel provides corrosion resistance
- 1/2″ drive, 5/8″ Hex socket, 6-point, 1-1/4″ long

S6100 3/8″ Drive 3-Lobe Hand Wheel Socket

- Designed to aid in the removal of rusted and corroded hand wheels without breaking them
- Manufactured from special steel with a higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

Impact Sockets

S6197 1/2″ Drive 12-Point SAE 1/2″ Heavy-Duty Driveline Impact Socket

- Used on Kenworth® and Peterbilt® heavy-duty drivelines with 1/2″ fasteners and many other heavy-duty 1/2″ applications
- Socket will clear the weld yoke, when removing the cap screws holding the wing bushings to the end yoke
- 4-1/8″ long

S6199 3/4″ Drive U-Bolt Impact Socket

- Used on semi trucks using 5/8″ dia. U-bolts for springs and other suspension components
- Up to 2″ longer than a standard deep socket to easily accommodate the excess thread length—saves time compared to cutting off excess thread to use a standard deep socket
- 1-1/8″ wrench size, six-point, 3/4″ drive, 5″ long

Impact Sockets

DW402C 3/4″ Drive 6-Point SAE 1-1/4″ Dayton Lug Nut Impact Socket
- For use with socket retainers

S6216 3/4″ Drive 12-Point Metric 16 mm Detroit Diesel® Engines Head Bolt Impact Socket
- For head bolts on Detroit Diesel® 50 and 60 Series engines
- Tight clearances between some head bolts and the cylinder head casting require a thin walled socket—these engines are found in truck, bus, motor home, marine and heavy-equipment
- Increased socket height allows for clearance between the drive tool (ratchet, breaker bar or torque wrench) and installed valve train components, allowing technicians access to head bolts from either side of the engine
- 4″ long

S6217 3/4″ Drive Head Bolt Impact Socket
- For head bolts on heavy-duty trucks and buses with MBE900 Mercedes-Benz® engine
- Used on certain Detroit Diesel® head bolts with the MBE900 Mercedes-Benz® engine where clearance requires a thin-walled socket
- Socket height helps when using a torque wrench due to the length of the torque wrench handle for clearance
- 3/4″ drive, 12-point, 17 mm, 4-3/4″ long

S6218 1/2″ Drive Metric 18 mm Double Hex Socket
- Used in conjunction with a 1/2″ drive impact gun to remove driveshaft bolts on Kenworth® semi-trucks
- 1/2″ drive, 12-point, 18 mm, 6″ long socket
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

S6230 1/2″ Drive 6-Point SAE 15/16″ Impact Socket
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Forged from tough alloy steel to increase safety and are heat-treated to a lower hardness to add impact resistance and ductility
- Designed for Autocar® and CCC-style dump trucks and garbage trucks that use the 30/36 spring brake chamber made by MGM® Brakes
- When doing an emergency repair on the road or changing the diaphragm, the chamber needs to be caged before towing or disassembly
- Currently technicians are using a 15/16″ wrench—this is time consuming and can be dangerous when servicing a broken down vehicle in traffic
- Length is designed to accommodate the very long threaded spring brake release stud assembly (release tool) in the brake chamber
- Standard deep 15/16″ impact sockets are not long enough to fully engage the threads of the spring brake release stud assembly (release tool) in the spring brake chamber

SIML302 3/4″ Drive 6-Point SAE 15/16″ Flank Drive® Extra-Deep Impact Socket
- Flank Drive® wrenching configuration
- Special alloy steel combines strength and durability

SIMML343 Extra-Long Metric Impact Socket
- Used for removing and installing the lug nuts on Case® and International® combines


S6217


DW402C


S6216


S6230


SIML302

HEAVY-DUTY TRUCK SERVICE TOOLS


IM382CD


IMFDL242


IMSLE242A


IPRD20


S6116


S6126


S6213


S6220


S6221

Impact Sockets

IM382CD 3/4″ Drive 6-Point Metric 30 mm Flank Drive® Shallow Impact Socket
- Applications include Assault Breacher Vehicle; Utility Truck (Tamen: D00347K); Abrams M-1 Tank; Bridge Launcher Carrier; M1A2 Heavy Assault Bridge (hab)/Wolverine, 5420-01-430-4227; Armored Vehicle Launch Bridge (M60A1 and M48A5); Combat Tank, Ft, 120 mm gun (M1A1)
- 3/4″ drive, 30 mm

IMFDL242 3/4″ Drive 12-Point SAE 3/4″ Flank Drive® Deep Thin Wall Impact Socket
- Designed to remove the head bolts on Caterpillar® C12, C15, C16 and 3406E where the front two and back two head bolts are positioned under the valve covers
- Applications on certain Caterpillar® head bolts require a thin walled socket of a certain length
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 EGR engines (2007–later)
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards

IMSLE242A 3/4″ Drive E24 Inverted TORX® Impact Socket
- Applications include removal and installation of head bolts on MaxxForce® 11 and 13 engines found on D15 International® (2010–current)
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

IPRD20 1/2″ Drive 12-Point SAE 5/8″ Low Profile Swivel Impact Socket
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards
- 30° uninterrupted swivel action for greater accessibility in tight quarters, allowing for easier and faster removal of stubborn fasteners
- Used on starter bolts on Cummins®, Caterpillar®, Detroit Diesel® and International® engines where housing is in the way when backing out the fastener using a standard-length impact socket

S6116 1/2″ Drive 6-Point Metric 16 mm Impact Socket
- Socket is 4″ long for easier access to head bolts
- Manufactured from special steel with a high higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

S6126 1/2″ Drive Double Hex 3/4″ Driveline Socket
- Socket is 6″ long to easily reach driveshaft bolts
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

S6213 1/2″ Drive 12-Point Metric 13 mm U-Joint Strap Bolt Impact Socket
- Used for removal of 13 mm U-joint strap bolts found on Volvo®, Mack® and other heavy-duty applications
- 8″ long

S6220 C15 Impact Socket for Caterpillar® Engines
- Used on Caterpillar® C15 engine rocker stud bolts where the length and broach depth of the socket are critical for the application
- 1/2″ drive, 6-point, 11/16″, 3-1/4″ long

S6221 Fuel Injector Adaptor Impact Socket
- Used for the removal and installation of the fuel injector adaptor from the high-pressure rail and for servicing the O-rings on Navistar® DT466/570, HT570 (DT9 and 10) engines
- Similar to the Navistar® OEM tool part number ZTSE4725
- 1/2″ drive, 1-1/16″ hex

Impact Sockets

SIMM182 3/4″ Drive 6-Point Metric 18 mm Flank Drive® Deep Impact Socket
- Used for removal and installation of the head bolts on VT365 International® engines found in many delivery vehicles


SIMM182

SIMML180 1/2″ Drive 6-Point Metric 18 mm Flank Drive® Extra-Deep Impact Socket
- Applications include the removal and installation of the fuel tank hold down strap on International® 4400 chassis
- The fuel tank must be removed to replace the fuel sending unit
- 5″ long to reach through the frame to access the fastener without the need of an extension


SIMML180

S6224 1/2″ Drive 6-Point SAE 3/4″ 30/30 Air Brake Chamber Impact Socket
- Extra-long design allows for quick and safe removal of long-threaded brake release stud assemblies
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength

S6314 Extra-Long Impact Socket
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® grips fastener on the flanks/flats, increasing torque by 15-20%, prevents the fastener from rounding and increases the life of the socket
- 3-1/4″ overall length


S6224 S6314

S6412 Drive Train Bolt Socket
- Removes drive train bolts on Ford® vehicles, Hino® 268 Box trucks, International® 4200 VT365 box trucks and 2007 Freightliner® M2 trucks


S6412

S6413 1/2″ Drive 12-Point 13 mm Heavy-Duty Driveline Socket
- Designed to service heavy-duty diesel truck drivelines
- Heat treated to a low hardness range compared to chrome sockets, so that under heavy, continuous use will withstand the impact blows and wear rather than break
- 1/2″ drive, 12-point, 13 mm, 4-1/8″ long


S6413

S6624 3/4″ Drive 12-Point 24 mm Main Cap Bolt Socket
- For the removal and installation of the main cap bolts on 2007–later Detroit Diesel® DD13 and 15 engines
- Overall length (5-3/4″) and square drive (3/4″) of this socket are critical due to the torque rating for this application
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque by 15–20%, prevents fastener from rounding and increases the life of the socket


S6624

SIM462TW 3/4″ Drive 6-Point 1-7/16″ SAE Deep Thin-Wall Impact Socket
- Designed to remove the lug nuts from Caterpillar® Model 793 mining trucks
- Thin-wall design accommodates easy removal of the 72 lug nuts spaced only 6 mm apart on each wheel
- Flank Drive® wrenching system grips the fastener on the flanks/flats, delivering 15–20% more turning power


SIM462TW

Special Application Sockets

IPSTML8 1/4″ Drive 6-Point 8 mm Metric Deep-Flex Impact Socket
- Removes and installs glow plugs
- Designed with a retention O-ring that holds the glow plug in the socket while being installed or removed
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability


IPSTML8

⚠WARNING

• Read safety precautions on pages W1 to W4

HEAVY-DUTY TRUCK SERVICE TOOLS



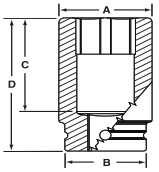
204FIHC



FIHC140



FIHCM8



Hose Clamp Sockets

Drive Size, inches	Stock No.	mm	A	B	C	D	Set Contains: 204FIHC
3/8	FIHC140	7/16	21/32″	11/16″	2-1/4″	2-3/4″	•
3/8	FIHC160	1/2″	3/4″	3/4″	2-1/4″	2-3/4″	•
3/8	FIHCM8	8 mm	12.9 mm	17.2 mm	57.1 mm	69.8 mm	•
3/8	FIHCM10	10 mm	15.9 mm	17.2 mm	57.1 mm	69.8 mm	•

Set shown includes storage tray.



SRD35



SRDM624

Torque Adaptor

SRD35 Diesel Head Bolt Torque Adaptor

- Eliminates the need to remove the truck/van cab from the chassis to access the rear head bolts, saving the technician time and preventing damage to the rear heat shield
- When coupled with an SM18, 18 mm socket, can access all of the head bolts, eliminating the need to change tools or remove the adaptor during the job
- Use of 3/4″ drive ratchet/torque wrench transmits the high-torque necessary to loosen and tighten head bolts, with less strain on the technician
- Eliminates the need to remove the evaporator housing, saving two hours of time and the additional cost of refrigerant added during air conditioning recharging
- 3/4″ square drive, 3-1/2″ center-to-center length, 4-7/8″ overall length

SRDM624 Torque Adaptor

- Services the rear brake caliper mounting bracket assembly on 2007 Ford® F-450/F-550 trucks
- Tool fits between the bracket bolt and frame to allow the use of a torque wrench to properly torque the bracket bolts
- 1/2″ square drive, 12-point, 24 mm, 6″ center-to-center length, 7-7/32″ long



BSA916



HSA716

Slack Adjusters

BSA916‡ Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Bendix® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 9/16″ hex allows reach to recessed adjusters
- 14-1/2″ overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Includes a protective vinyl boot

HSA716‡ Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Haldex® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 7/16″ hex allows reach to recessed adjusters
- 14-5/8″ overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Protective vinyl boot helps to keep contaminants out of the ratchet mechanism for extended tool life

Valve Adjusters

S6205 Valve Adjuster Socket
- See-through window in the 14 mm socket allows the technician to see the position of the 5 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Made from heat-treated steel
- Soft grip handle
- Applications include 2002-later Mercedes-Benz® 900 series diesel engines and 2002-later trucks and buses

S6206 Valve Adjuster Socket
- See-through window in the 17 mm socket allows the technician to see the position of the 6 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Made from heat-treated steel
- Soft grip handle
- Applications include 2002-later Mercedes-Benz® 4000 series diesel engines and 2002-later trucks and buses

VAT930 Diesel Valve Adjustment Tool 15 mm/7 mm
- Two-in-one tool features a window in the socket allowing the technician to see the position of the nut driver holding the adjustment screw as the jam nut is tightened
- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional design frees up one hand for feeler gauge operation

VAT940 Diesel Valve Adjustment Tool 15 mm/Flat
- Two-in-one tool features a window in the socket allowing the technician to see the position of the screwdriver blade holding the adjustment screw as it is tightened
- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional tool design frees up one hand for feeler gauge operation

YA8880-3 Wire Handle with Grip
- Handle with slip cover—clips into the tool and pivots from one side to the other so the socket "window" is always visible



Special Application

S9704RHS 3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Low-Profile Spark Plug Socket
- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally align spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Side through hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold-formed for extended tool life
- Knurled surface for finger tightening and removal

S9724RHS 3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Low-Profile Spark Plug Socket
- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life


S9704RHS


S9724RHS

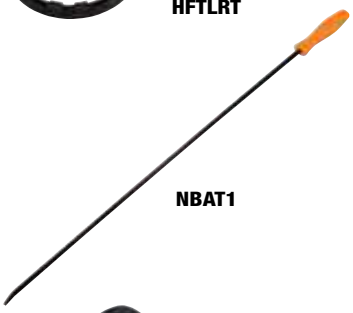
⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

MOTORCYCLE SERVICE TOOLS


HD6529


HFTLRT


NBAT1


KAC1224TCA


EEPV503


YA173B


MT125A


SGSR104AR

Adjusting Tools

HD6529‡ Ratcheting Hex Wrench (Blue-Point®)

- **Reversible ratchet lever is conveniently located for one-hand operation**
- 3/16″ hex bit is easily replaced if damaged
- Low-profile design for extra clearance between the frame and engine
- Comfortable rubber grip will not scratch chrome
- 9-3/4″ overall length for additional reach
- 1/4″ hex drive, 3/16″ hex bit for Harley-Davidson® Evolution® motor rocker box cover bolts

HFTLRT Fuel Tank Lock Ring Tool Harley-Davidson®

- Allows access to the fuel filter and fuel pump as the lock ring is connected to the pump
- Made of durable ABS plastic (competitive products are metal and can scratch the painted surface of the motorcycle)

NBAT1‡ Neck Bearing Adjustment Tool

- For neck bearing adjustment on Harley-Davidson® motorcycles
- Easily maneuvers between the triple clamp and frame
- Fits into the star adjustment nut, allowing technician to adjust the neck bearing play
- Tapered end allows easy access to the neck bearing adjusting star
- Screwdriver-style handle offers a comfortable grip
- 18-1/2″ overall length
- Neck bearing adjustment is usually checked at the following service intervals: 1,000, 5,000, 15,000 and 25,000 miles or annually

Fuel Tank Cover

KAC1224TCA Motorcycle Gas Tank Cover

- Fits Harley-Davidson® Dyna®, Softail® and Touring models
- Fits various models of Yamaha®, Victory®, Triumph® and Kawasaki® motorcycles, plus many more
- Non-marring cover uses a non-abrasive inner liner that will not slide off

Motorcycle Service Equipment

EEPV503‡ Motorcycle Compression Gauge Set

- Tests motorcycles and recreational vehicles with hard-to-access spark plug ports
- Gauge assembly includes a 2-3/4″ dia. gauge and 18″ flexible hose with a quick coupler
- Includes EEPV5G10L, EEPV5G12L and EEPV5G14L
- Technical Support: 1-855-779-8880

General Service Tools

CPT110A 3/8″ Drive 6-Point Metric 17 mm VW® Transmission Drain Plug Socket

- For use on VW® transmission drain plugs
- Additional applications include removing the front wheels on Triumph® Daytona® and America® motorcycles

YA173B‡ Clip-On-Style Angled Air Chuck (Blue-Point®)

- 1/4″-18 female NPT
- Spring-loaded, trigger-operated valve stem clip
- Maximum operating pressure is 200 PSI
- For use with air lines only—do not use on inflators

MT125A Self-Powered Timing Light (Blue-Point®)

- Self-powered timing light features a single 6′ inductive pick-up
- Quick attachment to spark plug wires on motorcycles, marine motors, snowmobiles, jet skis, small engines and other equipment that do not have easy access to a battery power source
- Can be used for automotive applications
- On/Off switch is located within thumb's reach
- Maximum 2,000 RPM

SGSR104AR* 4 pc Soft Grip Seal Removal Tool Set Red

- For use on transmissions, heater and vacuum hoses, oil pump drive shaft seals, injectors and fuel rail O-rings, inner tie-rod rack boot and CV boot removal, fork seals, and caliper dust boot assemblies on Harley-Davidson® and other motorcycles, and steering racks and pumps
- SGSR1AR–SGSR4AR (4 pc) in a storage tray

Colors Available

	Red	Orange	Green
*	R	O	G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Service Set

CYCLESET 33 pc Motorcycle Tool Set

- Services most US-manufactured motorcycles from battery service, cable and clutch adjustments, to gas tank and seat removal—covers roadside maintenance and emergency repairs
- Includes (1) gap gauge, (1) 3/8″ drive 6-point SAE 13/16″ shallow spark plug socket, (1) 1/4″ internal drive x 3/8″ external drive adaptor, (1) 1/4″ drive 4″ knurled extension, (6) 1/4″ drive 6-point SAE shallow sockets (9/16, 1/4, 5/16, 3/8, 7/16 and 1/2″), (1) 1/4″ drive sliding T-handle, (1) 12-point metric 10 mm short combination wrench, (2) 1/4″ hex flat tip power bits, (1) 1/4″ hex PHILLIPS® #2 power bit, (5) 1/4″ hex TORX® power bits (T15, T20, T25, T27 and T30), (2) 5/16″ TORX® insert bits (T40 and T45), (5) 1/4″ hex SAE power bits (1/8, 5/32, 3/16, 7/32 and 1/4″), (2) 5/16″ hex SAE power bits (5/16 and 3/8″), (1) 1/4″ drive magnetic bit socket, (1) 3/8″ drive 6-point SAE 5/8″ standard retention spark plug socket, (1) 8″ adjustable wrench and (1) 1/4″ drive standard ratchet
- Includes a kit bag



CYCLESET

AVIATION: SAFETY WIRING



Wire Twisters
Cushion throat wire twisters feature a polyurethane filler that is bonded into the tool's cutter head to help prevent flying wire bits. A special undercut design helps maintain cutting edges and increases tool durability. Ideal for assembly line applications.



GA311C



PR311



WTR1A



WTS6



WTG10A

Wire Twister/Cutters

Stock No.	Description	Overall Length, inches	Wire Capacity, inches	Wire Retainer
GA311C	Wide range of applications	10-1/2	.060	No
PR311	Similar to GA311C, but not spring loaded. Right-hand only with manual return.	10-1/2	.060	No
WT11B	Small size for use in tight quarters	8-1/2	.041	No
WTR1A	Reversible Wire Twister/Cutters	8-3/4	.041	No
WTRW6A	Reversible Wire Twister/Cutters	8-3/4	.041	Yes
WTS6	Reversible Wire Twister	8-3/4	.041	Yes
WTG8A	Reversible Wire Twister	8	.015–.031	Yes
WTG10A	Reversible Wire Twister	10-1/2	.031–.039	Yes
WTRW9	Reversible Cushion Throat Wire Twister/Cutter	11	.02–.06	Yes

Safety Wire

Stock No.	Wire Size, inches	Approximate Wire Length, ft.	Container
WT105-2004	.020	230	1/4 lb Spool
WT105-3204	.032	90	1/4 lb Spool
WT105-4204	.041	55	1/4 lb Spool
WT105-2016	.020	937	1 lb Canister
WT105-2516	.025	599	1 lb Canister
WT105-3216	.032	366	1 lb Canister
WT105-4116	.041	223	1 lb Canister
WT105-5116	.051	144	1 lb Canister



WT105-2016



WT105-2004

⚠WARNING

- Read and follow all safety messages and instructions
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

AVIATION: SPECIALTY SERVICE TOOLS



AFPW38



AVPW716

Aircraft Vacuum/Fuel Pump Wrenches

AFPW38 Aircraft Fuel Pump Wrench

- Small crowfoot for removal and installation of the fuel primer/injector line on Continental® and Lycoming® engines
- Can be used with a 1/4″ drive extension and will easily fit into tight areas

AVPW716 Aircraft Vacuum Pump Wrench

- Removes and replaces vacuum pump flange nuts on aviation and experimental aircraft
- Use with any 1/4″ drive extension
- Easily fits into tight areas between the pump and nearby accessories
- Cut-down head design adds greater flexibility than a wrench with a bent shank
- Applications include: Cessna®: Skyhawk®, Skylane®, Stationair Piper®: Cub, Warrior®, Archer®, Seminole, Aztec, Navaho, Chieftain Mooney®: M20 series, M200 series, Ovation, Acclaim Beechcraft®: Bonanza®, Duchess, Baron® Cirrus: SR20 and SR22 aircraft



AOC01



AOFW2

Aircraft Oil Filter Wrenches

AOCO1 FOD Oil Can Opener

- Testing by Saybolt® laboratory proves this can opener eliminates a cause of FOD, eliminating costly downtime and repairs
- Using a screwdriver to open an oil can may leave metal debris in the oil, causing FOD to turbines
- Can opener is made of reinforced high-quality plastic designed to open a quart can of oil
- Durable, ergonomic, non-slip design is pocket size and can be attached to a key ring

AOFW2‡ Aviation Oil Filter Wrench

- Oil filter wrench can be used for the installation and removal of oil filters on all standard general aviation aircraft with 1″ hex oil filters
- Compact size allows for reach in restricted areas
- 3/8″ drive torque wrench
- Refer to the Snap-on® SS306G Torque Chart for formula to obtain the correct applied torque



IMTSX29

Fan Bolt Impact Socket

IMTSX29 External Mortorq® Impact Socket

- Used on fan bolts found on Rolls Royce® engines used on Airbus® A380 jets



LGSW125



LH100



755121-1



FTA35

Torque Adaptor

FTA35 3/8″ Drive Female/Male Torque Adaptor

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5″ center-to-center

TTA35 1/4″ Drive Female/Male Torque Adaptor

STA35 1/2″ Drive Female/Male Torque Adaptor

Aircraft Landing Gear Tools

LGSW125 Landing Gear Socket Wrench

- Used to remove and replace the landing gear harness through-bolt on Embraer® 190 aircraft
- 1-1/4″ deep well socket with 1/4″ slit cut allows the speed cable to pass through
- 3/8″ square drive allows the torque wrench to torque the nut to 80 in-lb
- Flex-head and overall length is 11-1/2″

LH100 * Ratchet Spline Boxocket Assembly

- Extended-reach 1/2″ drive ratchet with a pinned spline socket on one end and a box end spline wrench on the other

755121-1* Deep Throw Speeder with 1/2″ Drive Ratchet Adaptor

- 1/2″ driver deep throw speeder with pinned universal and ratchet adaptor

*LH100 and 755121 are required to be on board a C-130 aircraft before it can leave the ground

Torque Adaptors, mm (1/4″ Drive)

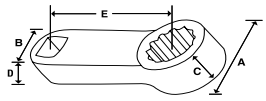
TRDHM6 1/4″ Drive 12-Point Metric 6 mm Torque Adaptor
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1″ center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

TRDHM7 1/4″ Drive 12-Point Metric 7 mm Torque Adaptor
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1″ center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

TRDHM8 1/4″ Drive 12-Point Metric 8 mm Torque Adaptor
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1″ center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

mm	Stock No.	A	B	C	D	E
6	**TRDHM6**	9.5	11.9	6.6	6.6	25.4
7	**TRDHM7**	9.5	11.9	6.6	6.6	25.4
8	**TRDHM8**	9.5	11.9	6.6	6.6	25.4

- For applications involving AS350/355 Airbus® helicopters (formerly Eurocopter) known as A-star and Twin-Star helicopters in North America
- Used attached to a torque wrench on a hard-to-reach fastener





TRDHM6

Hose Clamp Socket

AHCS1 Aircraft Hose Clamp Socket
- Use on hose clamps found on Lycoming®, TCM (Continental®) and other engines found on Cessna®, Piper® and Beechcraft® aircraft
- Slotted socket is for removing and installing the three different size thumb knobs found on aircraft hose clamps
- Competitive sockets only work on one size and have a rubber O-ring that can cause an FOD issue
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- 1/4″ square drive

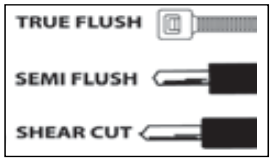


AHCS1

True Flush: Blades cut stranded wire ends and zip tie ends flat, allowing protruding ends to be trimmed flush

Semi-Flush: Ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required

Shear Cut: Ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life



Cushion Throat Cutters
- Urethane insert in jaws captures clipped material, reducing the likelihood of work environment contamination
- Retention of wire clippings enhances worker safety by preventing projectile material from being scattered throughout the worksite
- Handles are designed for comfort and deliver the leverage needed to tackle the most demanding jobs
- Quality forged steel ensures tools will provide years of service
- Fluorescent urethane formula helps reduce the potential of leaving the tool behind—just shine a UV light on the head of the cutter to activate its illuminating effect

Stock No.	Description	Dimension A, Handle Type	Dimension B, Jaw Length, inches	Dimension C, Overall Length, inches
84CFCTA	Cushion Throat Diagonal Cutter	Bowed	3/8	4-3/4
86ACFCT	Cushion Throat Diagonal Cutter	Bowed	3/4	6-5/16
P87150CT	Cushion Throat 5″ Oval Cutter—True Flush Cut	Bowed	17/32	5-3/16
786CFCT	6″ Diagonal Flush-Cut Cutter with Cushion Throat	Bowed	3/4	6-5/18
87ACFCT	7″ VectorEdge Diagonal Cutter	Bowed	13/16	7-3/8
388ACFCT	8″ High-Leverage Cushion Throat Diagonal Cutters	Bowed	1-1/16	8-5/16



84CFCTA



86ACFCT



P87150CT



786CFCT



87ACFCT

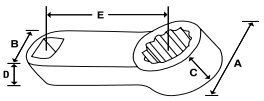


388ACFCT

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

AVIATION: SPECIALTY SERVICE TOOLS



Spline, Low-Profile, inches

- Precision crafted from special alloy steel and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners
- Ideal for use with torque wrenches
- Will save time and avoid clearance issues when working on propeller assemblies
- Works on a wide variety of Lycoming® and Continental® engines used in Piper®, Cessna® and Mooney® aircraft



FRESL14



FRESL20



FRESL30

	Stock No.	A	B	C	D	E
7/16	**FRESL14**	3/4 (19.05)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
1/2	**FRESL16**	25/32 (19.84)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
9/16	**FRESL18**	13/16 (20.64)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
5/8	**FRESL20**	29/32 (22.8)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
11/16	**FRESL22**	1 (25.1)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
3/4	**FRESL24**	1-5/64 (50.2)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
7/8	**FRESL28**	1-1/4 (31.75)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
15/16	**FRESL30**	1-5/16 (33.9)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)



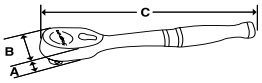
FCY72



TFY72



TY72



HI-LOK® Fastener Ratchets

Stock No.	Square Drive, inches	Gear Teeth	Swing Arc	A	B	C	Repair Kit	Flex-Joint Repair Kit
FCY72	3/8	72	5	7/16	15/16	4-5/8	**RKRFCY72**	—
TFY72	1/4	72	5	7/16	15/16	6-1/4	**RKRTY72**	**RKRT841JT**
TY72	1/4	72	5	7/16	15/16	4-5/8	**RKRTY72**	—

OIL AND GAS SERVICE TOOLS

Generator Engine Sockets

OG2824 Generator Engine Socket

- Socket is used in the oil and gas industries to adjust valves on large generator engines
- Removes cover bolts and adjusts valves on Waukesha® VHP® Series engines
- Sockets are used with a XO2830 7/8–15/16″ standard-length deep 60° offset wrench
- The offset on the wrench protects the user's hand during valve adjustment
- Retaining Ring holds the socket onto the 7/8″ part of the XO2830 wrench, as the sockets have a 7/8″ male hex
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flat, prevents fastener from rounding



OG2824



OG2828

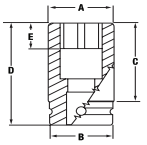
	12	External Hex, inches
3/4	**OG2824**	7/8
7/8	**OG2828**	7/8

Shallow, Single Square Impact Sockets, inches

- This "end effector" socket is used in the manufacturing of subsea and surface wellhead equipment in the oil and gas industries



IM748BC1.5



	Stock No.	Square Drive, inches	A	B	C	D	E
1	**IM632BC1.5**	3/4	2-1/8	1-3/4	—	2-1/4	3/4
1-1/2	**IM748BC1.5**	1	2-7/8	2-3/8	1-5/8	3-1/2	7/8
1.66	**IM753.1BC1.5**	1	1-15/16	2-3/8	—	3-1/2	1-1/16
1	**IM732BC1.5**	1	2-1/8	2-1/8	—	2-3/4	3/4



APW10VLV



ATSK3621



GADW8VLV



GADW10VLV

Specialty Service Tools

APW10VLV Valve Persuader Wrench

- Refinery wrench used in oil and gas downstream facilities
- Great universal multi-tool for numerous daily applications, including 4 and 6″ quick turns to open and close the valves

ATSK3621 Hex-to-Square Adaptor

- Used with the B2192 Impact Pentagon Socket to remove and tighten special bolts used by electrical utilities on pad-mounted and sub-surface underground facilities
- 7/16″ hex, 1/2″ square adaptor
- 3″ long

GADW8VLV 8-1/2″ Adjustable Valve Persuader Wrench

- Two tools combined into one convenient operator's tool that can be used wherever valves are adjusted for flow and pressure
- 8-1/2″ overall length supplies leverage while being compact enough to be easily carried
- Big-mouth adjustable wrench has large, 1-1/2″ capacity
- 3/4″ valve wheel wrench opening
- Precision hardened and anti-corrosion treate
- Easy-to-read size measurement scale: SAE on one side, metric on the other

GADW10VLV 10″ Adjustable Valve Persuader Wrench

- Two tools combined into one convenient operator's tool that can be used wherever valves are adjusted for flow and pressure
- 10″ overall length supplies leverage while compact size allows for easy carrying
- Big-mouth adjustable wrench has large, 1-3/4″ capacity
- 3/4″ valve wheel wrench opening
- Precision hardened and anti-corrosion treated
- Easy-to-read size measurement scale; SAE on one side, metric on the other



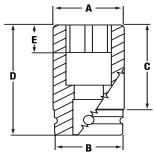
5703747UPA



IM728NT



IM736NT



Lag Screw Sockets, inches

	Stock No.	A	B	C	D	E
1-1/8 x 7/8	**5703747UPA**	1-7/8	2-1/8	1-3/4	3-1/2	7/8
1	**IM728NT**	1-3/4	2-1/8	31/32	2-1/8	13/16
1-1/8	**IM736NT**	1-13/16	2-1/4	1-3/32	2-1/4	3/4

5703747UPA Rectangular Head Lag Socket

- For use on special rectangular head lag screws
- Rectangular head timber screw spikes are used to secure the rail anchor or rail clip
- The screw spikes are used by all railroads to varying degrees, but mainly the North American freight railroads (BNSF, NS, CSX, UPRR, KCS, CP Rail and CN Rail)
- The opening is 1-1/8 x 7/8″ with a 1″ square drive and can be used on an impact wrench

IM728NT Lag Screw Socket

- 1″ drive, 1″ square

IM736NT Lag Screw Socket

- 1″ drive, 1-1/8″ square

⚠WARNING

- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read and follow all instructions
- Read safety precautions on pages W1 to W4

RAILROAD SERVICE TOOLS



N8842



N8741

Track Bolt and Frog Bolt Sockets, inches

	Stock No.	Square Drive, inches
1-11/16	**N8834**	1
1-13/16	**N8835**	1
1-5/8	**N8842**	1
1-7/16	**SIM746NT**	1
2-3/16	**N8741**	1

N8741 Frog Bolt Socket
- 1″ drive socket is used primarily for Frog bolt applications



N8913

Side Bearing Cage Socket

#	Stock No.	A	B	C	D	E
E20	**N8913**	1-5/32	1-5/8	3/4	1-3/4	1/2

N8913 3/4″ Drive E20 TORX® Side Bearing Cage Socket
- 3/4″ drive E20 TORX® socket services the break-off portion of the side bearing cage bolt
- Used for installation of shear type E20 bolt during alignment of suspensions on Hendrickson® trailers



SIMDTSA402

Railroad Torque Socket

	Stock No.	A	B	C	D	E
3/4″	**SIMDTSA402**	2	1-21/32	3-1/2	5-7/16	13/16

SIMDTSA402 Railroad Torque Socket
- Allows operators to use angle torque to obtain proper torque on AH traction motor gearcase bolts when applying to new gearcases or replacing broken gearcase bolts



GVO2628TH.20



Railroad Wrenches

	Stock No.	B	D	E
13/16–7/8″	**GVO2628TH.20**	1-11/16–1-13/16	7/32	10

GVO2628TH.20 Open-End 1-11/16–1-13/16″ Railroad Wrench
- Used on railroad auxiliary generator coupler nuts (EMD locomotives)

M4431B Car Yard Inspector Wrench
- Tightens air brake external nuts and cover screws
- Incorporates (4) 12-point sockets (3/4″, 7/8″, 15/16″ and 1″) plus a 9/16″ open wrench all in one tool
- Box end portion of the wrench is 10-3/8″ long
- Open end portion of the wrench is 6-1/4″ long



M4431B



SET BUILDING

AS YOUR CAREER GROWS, SO WILL YOUR TOOL ARSENAL. AND VICE VERSA. REGARDLESS OF WHERE YOU'RE CURRENTLY AT, WE HAVE A SET-BUILDING TOOL PACKAGE THAT CAN HELP YOU REACH THE NEXT LEVEL. STARTING WITH OUR APPRENTICE SET, EACH SUCCESSIVE TOOL SET IS DESIGNED TO BUILD ON THE LAST.

SETS TO ASSURE THAT YOU'RE ALWAYS SET.

Starting out with a complete Snap-on® tool set shows that you've set your sights on a long-term career. Our Apprentice Set includes everything you'll need for the maintenance basics: a balanced mix of 1/4", 3/8" and 1/2" square drive tools, wrenches, screwdrivers, pliers, punches and chisels. The second tool set includes more than 100 additional tools to tackle more advanced applications. So as your collection grows, your skillset will grow, too.

US APPRENTICE SET



US Apprentice Set

Stock No.	Description	Page
114ATMP	14 pc 1/4″ Drive 6-point SAE Shallow General Service Socket Set	154
206EAU	6 pc 3/8″ Drive Adaptor/Extension Set	173
211FSY	11 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Socket Set	177
211SFSY	11 pc 3/8″ Drive 6-Point SAE Flank Drive® Deep Socket Set	180
317MSPC	17 pc 1/2″ Drive 6-Point SAE General Service Socket Set	247
91ACP	Adjustable Joint Interlocking Channel Pliers (9-1/4″)	390
AW1015DHK	15 pc SAE L-Shaped Hex Wrench Set	319
BP16B	16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)	417
CSA8C	Rigid Carbon Scraper	430
ENC09602004	Veratti® M50	—
F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet	166

Stock No.	Description	Page
GA295	2-1/4″ Round Mirror with 14″ Shaft (Blue-Point®)	804
HBPT16	16 oz Plastic Tip Hammer	416
HSG319	Bi-Mold Soft Grip Handle Hacksaw	420
MAGST2D016	2D Cell LED Maglite Flashlight	—
OEX709B	9 pc 12-Point SAE Flank Drive® Standard Combination Wrench Set	290
PL307ACF	3 pc Pliers Set	390
PPC710BK	11 pc Punch and Chisel Set	411
PRH57A‡	Convertible Retaining Ring Pliers (Blue-Point®)	399
PT5C	Telescopic Magnetic Pick-Up Tool (Blue-Point®)	803
PWC6	Wire Stripper/Cutter (Blue-Point®)	402
SHDX800	8 pc Instinct® Hard Grip Combination Screwdriver Set	357
TPMA12	12′ Tape Rule	802
HS50	Quick Cutter Hand Saw	420

9100GSBO Complete Apprentice Set
- Includes 9100GSO and the KRA2055FPBO Top Chest

9100GSO Apprentice Set
- US Apprentice Set tools only
- Does not include a top chest

9100GSM Metric Plus Apprentice Set
- 9100GS Set plus, AWM110DK Metric Hex Wrench Set (11 pc), 212FMY Metric 12-Point Socket Set (12 pc) and OEXM710B metric 12-Point Combination Wrench Set (10 pc)
- Does not include a top chest



KRA4059FPBO



9000GS2

US Set 2

Stock No.	Description	Page
1650	16″ Prybar	487
110STMY	10 pc 1/4″ Drive 6-Point SAE Flank Drive® Deep Socket Set	137
112TMMY	12 pc 1/4″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	135
2004BSKA	4 pc Battery Service Kit	722
212EFTXY	12 pc Combination Drive TORX® Bit Standard Socket Set	143
212FSMY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	177
212SFSMY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Deep Socket Set	178
97ACF	9″ Needle Nose Pliers	390
AC5C	Hand Scratch Brush (Blue-Point®)	670
AWM110DHK	11 pc Metric L-Shaped Hex Wrench Set	319
EECT4H	Circuit Tester	615
FADH12B	12″ Flank Drive® Plus Adjustable Wrench	322
FB303B‡	Wire Gap for Electronic Ignition Systems Gauge	799
FB316B‡	Short Blade, Ignition Gauge Set, Double Stamped with SAE and Metric Sizes	797
FB325A‡	Double Stamped with SAE and Metric Sizes	798
FB361A	Gapper Gauge (Blue-Point®)	799

Stock No.	Description	Page
FLF80A	Long Handle Flex Head Ratchet	166
FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension	171
GSAF1F	1/2″ Drive Square Drive Adaptor	173
LP10WR	Curved Jaw with Cutter Locking Pliers	397
OEX30B	15/16″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX32B	1″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEXM710B	10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set	289
PK53A	Single Bevel Putty Knife/Scraper (Blue-Point®)	431
RXFS605B	5 pc 6-Point Double End SAE Flank Drive® Flare Nut Wrench Set	304
S9704KA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Shallow Spark Plug Socket	438
S9706KRA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Standard Retention Spark Plug Socket	437
SGA173BR‡	Soft Grip Radiator Hose Pick	749
SGASA204CR	4 pc Instinct® Soft Grip Miniature Pick Set	383
SGDMRC44B	Ratcheting Soft Grip Standard Screwdriver	368
SGT4BR	1/4″ Drive 6-13/16″ Instinct® Soft Grip Standard Shank Driver	807
TMXK60	1/4″ Drive 6″ Knurled Extension	131

KRA4059FPBO 26″ Nine-Drawer Top Chest
- Lock 'N Roll® system prevents the drawers from drifting open during unit movement
- Drawer pulls are 50% deeper than other brands for better leverage
- Rolled drawer edges for strength and safety
- Teardrop-shaped drawer hems provide safe edges and keep drawers from sagging
- High-security tubular interchangeable locks
- Tough nine-step pre-painting process
- Four Colors: Red (PBO), Gloss Black (PC), Royal Blue (PCM), Electric Orange (PJK)

9000GS2 Add-On Group 2
- More than 100 pc
- Does not include a tool storage unit

9200AGSO US Set 2
- Includes 9100GSO and 9000GS2
- Does not include tool storage

9200GSB Complete US Set 2
- Includes 9100GSO, 9000GS2, plus the KRA4059FPBO top chest

⚠WARNING

- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

US SET 3



KRA4059FPBO



KRA4008FPBO



9000GS30

US Set 3

Stock No.	Description	Page
112STMMY	12 pc 1/4″ Drive 6-Point Metric Flank Drive® Deep Socket Set	136
207EFAMY	7 pc 3/8″ Drive Metric Hex Bit Socket Set	190
208EFAY	8 pc 3/8″ Drive SAE Standard Hex Bit Socket Set	191
310IMMYA	10 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	236
310SIMMYA	10 pc 1/2″ Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	238
311IMYA	11 pc 1/2″ Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set	237
313TWMYA	13 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	226
AC58E	Wire Brush (Blue-Point®)	865
GA3000B	Headphone-Style Ear Protectors (Blue-Point®)	852
IP80D	1/2″ Drive Swivel Ball Lock Button Impact Universal Joint	235
JT13B	Blow Gun (Blue-Point®)	594
PT850	1/2″ Drive Air Impact Wrench	546
OEXM6B	6 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM7B	7 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM8B	8 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM9B	9 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
QD3R250A	1/2″ Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (50–250 ft-lb)	330
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	304
S8	1/2″ Drive 2-11/16″ Friction Ball Universal Joint	225
SL80A	1/2″ Drive Dual 80® Technology Long Handle Ratchet	220
SPBS24AO	24″ Striking Prybar	386
SXK3	1/2″ Drive 3-1/2″ Extension	224
TF72	1/4″ Drive Dual 80® Technology Standard Handle Flex-Head Ratchet	127
TMXK140	1/4″ Drive 14″ Knurled Extension	131

9000GS30 Add-On Group 3
- More than 100 pc
- Does not include tool storage

9300GSBO Complete US Set 3
- Includes 9200AGS and 9200GS3, plus the KRA4008FPBO Roll Cab and KRA4059FPBO Top Chest

9300GSO US Set 3
- Includes 9200AGS and 9000GS3
- Does not include tool storage



KRL756CPBO



KRL751PBO



9000GS40

US Set 4

Stock No.	Description	Page
1250	12″ Prybar	388
206AFSA	6 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set	181
206FSUMA	6 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set	181
207SFRH	7 pc 3/8″ Drive 6-Point SAE Flank Drive® Flare Nut Crowfoot Wrench Set	308
210FRHMA	10 pc 3/8″ Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set	307
313TSYA	13 pc 1/2″ Drive 6-Point SAE Flank Drive® Deep Socket Set	228
388ACF	8″ High-Leverage Diagonal Cutter	391
61CF	8″ Duck Bill Pliers	395
AWP160	Adjustable Joint Tongue and Groove Pliers	396
BP24B	24 oz Ball Peen Hickory Hammer (Blue-Point®)	417
CJ2001P	Bolt Grip Puller Set	459
CSA12CO	12-7//8″ Rigid Carbon Scraper	430
E1020	19 pc Extractor Set (Blue-Point®)	447
FADH8B	8″ Flank Drive® Plus Adjustable Wrench	322
FL80	3/8″ Drive Dual 80® Technology Long Handle Ratchet	166
FX24A	3/8″ Drive 24″ Friction Ball Extension	171
FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension	171
FXK8	3/8″ Drive 8″ Knurled Friction Ball Extension	171
HBBD32	32 oz Ball Peen Soft Grip Dead Blow Hammer	415
HBFE32	32 oz Dead Blow Soft Grip Handle Hammer	414
JCW62R‡	Standard Creeper	789
LP7WR	Curved Jaw with Cutter Locking Pliers	397
OEX080B	1/4″ 12-Point SAE Flank Drive® Short Combination Wrench	293
OEX10B	5/16″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX34B	1-1/16″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX36B	1-1/8″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX40B	1-1/4″ 12-Point SAE Flank Drive® Standard Combination Wrench	290

Stock No.	Description	Page
OEXM200B	20 mm 12-Point Metric Flank Drive® Standard Combination Wrench	290
OEXM210B	21 mm 12-Point Metric Flank Drive® Standard Combination Wrench	290
OEXM220B	22 mm 12-Point Metric Flank Drive® Standard Combination Wrench	290
OEXS709B	9 pc 6-Point SAE Flank Drive® Short Combination Wrench Set	293
OEXSM710B	10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set	292
PPB1012A	Bronze Tapered Punch	413
PPC104A	Pin Punch	411
PPC108A	5-3/4″ Pin Punch	411
PPC204A	5-3/4″ Starter Punch	411
PPC208A	6-3/4″ Starter Punch	411
PPC3A	Center Punch	411
PPC5A	6-15/16″ Punch/Chisel Holder	411
SGCP1BR	Soft Grip Cotter Pin Puller	694
SGHBF500A	4 pc Mixed File Set	427
SHDX40R	4 pc Instinct® Combination Hard Grip Mini-Tip Screwdriver Set	357
SN24C	1/2″ Drive 24″ Standard Handle Breaker Bar	222
SPBS18AO	18″ Striking Prybar	386
SRPCR105	5 pc Snap Ring Pliers Set	398
SSM5A	Flat Tip Screw Aluminum Starter (Blue-Point®)	371
SX2	1/2″ Drive 2″ Extension	224
TA3	1/4″ Drive Square Drive Adaptor	132
TD2425	41 pc SAE Tap and Die Set	440
TDM117A	41 pc Metric Tap and Die Set	440
TF528D	Tube Cutting and Double Flaring Set (Blue-Point®)	434
TM61A	1/4″ Drive 6″ Flexible Extension	132
TMX1	1/4″ Drive 1-1/4″ Extension	151
TMXK110	1/4″ Drive 11″ Knurled Extension	151
UTK100	Retractable Utility Knife	426

9000GS40 Add-on Group 4
- More than 250 pc
- Does not include tool storage

9400GSBO Complete US Set 4
- Includes 9300GSO, 9000GS40 plus KRL756CPBO Roll Cab and KRL751FPBO Top Chest

9400GSO US Set 4
- Includes 9300GSO and 9000GS40
- Does not include tool storage

⚠WARNING

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- Read safety precautions on pages W1 to W4

US SET 5



9000GS50



KRL756CPB0



KRL751PB0

9000GS50 Add-On Group 5
- More than 150 pc
- Does not include tool storage

9500GSBO Complete US Set 5
- Includes 9400GSO and 9000GS50, plus the KRL756CPBO Roll Cab and KRL751PBO Top Chest

9500GSO US Set 5
- Includes 9400GSO and 9000GS50
- Does not include tool storage

US Set 5

Stock No.	Description	Page
650	6″ Prybar	452
196ACF	8″ Talon Grip™ Long Nose Pliers with Cutter	394
212IMFYA	12 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set	196
212SIMFYA	12 pc 3/8″ Drive 6-Point SAE Flank Drive® Deep Impact Socket Set	198
214IMFMYA	14 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	196
214SIMFMYA	14 pc 3/8″ Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	198
313TSMYA	13 pc 1/2″ Drive 6-Point Metric Flank Drive® Deep Socket Set	227
497ACF	7″ 90° Angle Jaw Needle Nose Pliers	394
AWP120	Adjustable Joint Pliers	396
BP8B	8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	417
CJ2002	Gear Puller Set	459
F12LB	3/8″ Drive 11-9/16″ Long Handle Breaker Bar	170
FADH10B	10″ Flank Drive® Plus Adjustable Wrench	322
FBF80A	Standard Bent Handle Flex Head Ratchet	166
FK80	Stubby Handle Ratchet	166
HBBT24	24 oz Bronze Tip Hammer	415
IMM200	1/2″ Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket	236
IMM210	1/2″ Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket	236
IMM220	1/2″ Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket	236
IMM230	1/2″ Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket	236
IMM230	1/2″ Drive 6-Point Metric 24 mm Flank Drive® Shallow Impact Socket	236
IPF800B	3/8″ Drive Friction Ball Swivel Ball Impact Universal Joint	195
KB2178	Kit Bag	411
MG325	3/8″ Drive Air Impact Wrench	546
OEX8B	1/4″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX11B	11/32″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX38B	12-Point SAE 1-3/16″ Flank Drive® Standard Combination Wrench	290
OEX42B	12-Point SAE 1-5/16″ Flank Drive® Standard Combination Wrench	290
OEX260B	13/16″ 12-Point SAE Flank Drive® Short Combination Wrench	293
OEX280B	7/8″ 12-Point SAE Flank Drive® Short Combination Wrench	293
OEX300B	15/16″ 12-Point SAE Flank Drive® Short Combination Wrench	293
OEX320B	1″ 12-Point SAE Flank Drive® Short Combination Wrench	293
OEXM90B	9 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM230B	23 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM240B	24 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OXI10B	5/16″ 12-Point SAE Flank Drive® Midget Combination Wrench	294
OXI12B	3/8″ 12-Point SAE Flank Drive® Midget Combination Wrench	294

Stock No.	Description	Page
OXI8B	1/4″ 12-Point SAE Flank Drive® Midget Combination Wrench	294
OXIM7B	7 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
OXIM8B	8 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
OXIM9B	9 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
OXI706B	6 pc 12-Point SAE Flank Drive® Midget Combination Wrench Set	294
OXIM710B	10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set	293
PPC110A	5-1/4″ Pin Punch	411
PPC210A	7-1/4″ Starter Punch	411
PPC824B	7-1/4″ Flat Chisel	411
PPC828B	8″ Flat Chisel	411
PT28E	Pick-Up Tool (Blue-Point®)	803
PTR72	3/8″ Drive Super-Duty Air Ratchet	556
PWC14	Wire Stripper/Cutter/Crimper/Bolt Cutter	402
QD2R100A	3/8″ Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (20–100 ft-lb)	330
RTD48‡	48 pc Master Rethreading Tap and Die Set	439
S9704KFUA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Universal Spark Plug Socket	436
S9706KRFUA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Universal Retention Spark Plug Socket	437
SDM400A	Master SAE Screwdriver Bit Set	370
SF80A	1/2″ Drive Dual 80® Technology Standard Handle Flex-Head Ratchet	220
SHDP162R	PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver	360
SHDP62IRR	PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver	360
SHDP63IRR	PHILLIPS® #3 Instinct® Hard Grip Standard Screwdriver	360
SIMM200	1/2″ Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket	238
SIMM210	1/2″ Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket	238
SIMM220	1/2″ Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket	238
SIMM230	1/2″ Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket	238
SIMM240	1/2″ Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket	238
SPBS12AO	12″ Striking Prybar	386
SSDE42C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE43C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE44C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE46C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE48C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDMR1AO	4-5/16″ Ratcheting Magnetic Stubby Screwdriver	369
TC123C	Tubing Cutter (Blue-Point®)	433
VS807B	7 pc SAE Four-Way Angle Head Open-End Wrench Set	302
XB605A	5 pc 12-Point SAE Flank Drive® Standard 10° Offset Box Wrench Set	296
XBM605A	5 pc 12-Point Metric Flank Drive® Standard 10° Offset Box Wrench Set	295

⚠WARNING

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- Read safety precautions on pages W1 to W4

US SET 6



9000GS60



KRL791APB0



KRL722BPB0

9000GS60 Add-On Group 6
- More than 250 pc
- Does not include tool storage

9600GSBO Complete US Set 6
- Includes 9500GSO and 900GS6O, plus tool storage

9600GSO US Set 6
- Includes 9500GSO and 900GS6O
- Does not include tool storage

US Set 6

Stock No.	Description	Page
2050	20″ Prybar	388
106ATMXWP	6 pc 1/4″ Drive Wobble Plus Extension Set	132
106TMUSA	6 pc 1/4″ Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set	139
10SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	364
110ETMAY	10 pc 1/4″ Drive SAE Hex Driver Bit Socket Set	146
120SSDP	PHILLIPS® 90° Offset Screwdriver (Blue-Point®)	364
205IPF	5 pc 3/8″ Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set	199
206AFXWP	6 pc 3/8″ Drive Wobble Plus Extension Set	172
20SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	364
307IPLY	7 pc 1/2″ Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set	241
A265A	Socket Rail and Socket Clips	108
A271BB	Socket Clip	—
AWP45	Adjustable Joint Pliers	396
AWP65	Adjustable Joint Pliers	396
BP12B	12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	417
CHN480	Interlocking Channel Adjustable Joint Pliers (Blue-Point®)	396
CJ2003A	Rear Axle Puller Set	459
CJ2004	Puller Set, Interchangeable	459
CJ2005	Master Interchangeable Puller Set	460
CM6551A	5 pc Miniature Screwdriver Set	366
DBTR129‡	29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set	578
FADH6B	6″ Flank Drive® Plus Adjustable Wrench	322
FS12B	3/8″ Drive 6-Point SAE 3/8″ Flank Drive® Shallow Universal Socket	181
FSUM11A	3/8″ Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket	209
FSUM16A	3/8″ Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket	181
FSUM18A	3/8″ Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket	181
FSUM19A	3/8″ Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket	181
FX18	3/8″ Drive 18″Friction Ball Extension	171
FX36	3/8″ Drive 36″ Friction Ball Extension	171
HBFE48	48 oz Dead Blow Soft Grip Hammer	414
IMTM8A	1/4″ Drive 6-Point SAE 1/4″ Flank Drive® Shallow Impact Socket	148
IMTM10A	1/4″ Drive 6-Point SAE 5/16″ Flank Drive® Shallow Impact Socket	148
IMTM12A	1/4″ Drive 6-Point SAE 3/8″ Flank Drive® Shallow Impact Socket	148
IMTM14A	1/4″ Drive 6-Point SAE 7/16″ Flank Drive® Shallow Impact Socket	148
IMTM16A	1/4″ Drive 6-Point SAE 1/2″ Flank Drive® Shallow Impact Socket	148
IMTM18A	1/4″ Drive 6-Point SAE 9/16″ Flank Drive® Shallow Impact Socket	148
IMTMM5	1/4″ Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket	148
IMTMM5.5	1/4″ Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket	148
IMTMM6	1/4″ Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket	148
IMTMM7	1/4″ Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket	148
IMTMM8	1/4″ Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket	148
IMTMM9	1/4″ Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket	148
IMTMM10	1/4″ Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket	148
IMTMM11	1/4″ Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket	148
IMTMM12	1/4″ Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket	148
IMTMM13	1/4″ Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket	148
IMTMM14	1/4″ Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket	148
IMTMM15	1/4″ Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket	148
LP6LN	Long Nose Locking Pliers	397
NDD900B	9 pc SAE Nut Driver Set (3/16–1/2″)	372
OEX44B	1-3/8″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX46B	1-7/16″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
OEX48B	1-1/2″ 12-Point SAE Flank Drive® Standard Combination Wrench	290
P87150	P-Series Cutting Pliers	392
P91355A	5-1/2″ 45° Bent Needle Nose Pliers	—
P92055A	5-1/2″ Needle Nose Pliers	393
PDR3000A	3/8″ Capacity Reversible Drill	558
PPR708BK	8 pc Roll Pin Punch Set	413
R810C	SAE 1/4–5/16″ 12-Point SAE Standard 0° Offset Ratcheting Box Wrench	283
RB604C	4 pc 12-Point SAE Standard 0° Offset Ratcheting Box Wrench Set	283
RXS605B	5 pc 6-Point SAE Open-End/ Flare Nut Wrench Set	304
SGFMN106	6 pc Soft Grip Handle Miniature File Set	428
SHDTX315R	TORX® T15 Instinct® Hard Grip Standard Screwdriver	364
SHDTX320R	TORX® T20 Instinct® Hard Grip Standard Screwdriver	364
SSDMR8AO	12-15/16″ Ratcheting Magnetic Long Screwdriver	369
SX15	1/2″ Drive 15″ Extension	224
TD9902B	25 pc SAE Tap and Die Set	440
TS381	1/2″ Drive 6-Point SAE 1-3/16″ Flank Drive® Deep Socket	228
TS401	1/2″ Drive 6-Point SAE 1-1/4″ Flank Drive® Deep Socket	228
TS421	1/2″ Drive 6-Point SAE 1-5/16″ Flank Drive® Deep Socket	228
TW381	1/2″ Drive 6-Point SAE 1-3/16″ Flank Drive® Shallow Socket	226
TW401	1/2″ Drive 6-Point SAE 1-1/4″ Flank Drive® Shallow Socket	226
TW421	1/2″ Drive 6-Point SAE 1-5/16″ Flank Drive® Shallow Socket	226
TW441	1/2″ Drive 6-Point SAE 1-3/8″ Flank Drive® Shallow Socket	226
TW461	1/2″ Drive 6-Point SAE 1-7/16″ Flank Drive® Shallow Socket	226
TW481	1/2″ Drive 6-Point SAE 1-1/2″ Flank Drive® Shallow Socket	226
TWM25	1/2″ Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket	226
TWM26	1/2″ Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket	226
TWM27	1/2″ Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket	226
TWM30	1/2″ Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket	226
TWM32	1/2″ Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket	226
VE200A	Tool Control Board (Blue-Point®)	295
VS26B	13/16″ SAE Four-Way Angle Head Open-End Wrench	302
VS28B	7/8″ SAE Four-Way Angle Head Open-End Wrench	302
VS30B	15/16″ SAE Four-Way Angle Head Open-End Wrench	302
VS32B	1″ SAE Four-Way Angle Head Open-End Wrench	302
XO605	5 pc 12-Point SAE Flank Drive® Standard 60° Deep Offset Box Wrench Set	297

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- Read safety precautions on pages W1 to W4

METRIC SETS A



KRA4059FPBO



9100AGMO

Metric Sets A

Stock No.	Description	Page
1650	16″ Prybar	388
112STMMY	12 pc 1/4″ Drive 6-Point Metric Flank Drive® Deep Socket Set	136
117TMM	17 pc 1/4″ Drive 6-Point Metric Starter Socket Set	152
2004BSKA	4 pc Battery Service Kit	722
206EAU	6 pc 3/8″ Drive Adaptor/Extension Set	173
212EFTXY	12 pc Combination Drive TORX® Bit Standard Socket Set	143
212FSMY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	177
212SFSMY	12 pc 3/8″ Drive 6-Point Metric Flank Drive® Deep Socket Set	178
317AMMPC	17 pc 1/2″ Drive 6-Point Metric General Service Socket Set	247
91ACP	Adjustable Joint Interlocking Channel Pliers (9-1/4″)	396
97ACF	9″ Needle Nose Pliers	390
AC5C	Hand Scratch Brush (Blue-Point®)	865
AWM110DHK	11 pc Metric L-Shaped Hex Wrench Set	319
BP16B	16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)	417
CSA8C	Rigid Carbon Scraper	430
EECT4H	Circuit Tester	615
ENC09602004	Veratti® M50	—
F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet	166
FADH12B	12″ Flank Drive® Plus Adjustable Wrench	322
FB316B‡	Feeler Gauge Set (Blue-Point®)	797
FB360C‡	Gap for Electronic Ignition Systems Gauge (Blue-Point®)	799
FB361A	Gapper Gauge (Blue-Point®)	799
FBM320‡	Feeler Gauge (Blue-Point®)	798
FLF80A	3/8″ Drive Dual 80® Technology Long Handle Flex-Head Ratchet	166

Stock No.	Description	Page
FXK11	3/8″ Drive 11″ Knurled Friction Ball Extension	171
GA295	2-1/4″ Round Mirror with 14″ Shaft (Blue-Point®)	804
GSAF1F	1/2″ Drive Square Drive Adaptor	173
HBPT16	16 oz Plastic Tip Hammer	416
HSG319	Bi-Mold Soft Grip Handle Hacksaw	420
LP10WR	Curved Jaw with Cutter Locking Pliers	397
MAGST2D016	2D Cell LED Maglite Flashlight	—
OEXM710B	10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set	289
PK53A	Single Bevel Putty Knife/Scraper (Blue-Point®)	431
PL307ACF	3 pc Pliers Set	390
PPC710BK	11 pc Punch and Chisel Set	411
PRH57A‡	Convertible Retaining Ring Pliers (Blue-Point®)	399
PT5C	Telescopic Magnetic Pick-Up Tool (Blue-Point®)	803
PWC6	Wire Stripper/Cutter (Blue-Point®)	402
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	304
S9704KA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Shallow Spark Plug Socket	438
S9706KRA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Standard Retention Spark Plug Socket	437
SGA173BR‡	Soft Grip Radiator Hose Pick	749
SGASA204CO	4 pc Instinct® Soft Grip Miniature Pick Set	383
SGT4BR	1/4″ Drive 6-13/16″ Instinct® Soft Grip Standard Shank Driver	807
SHDX800	8 pc Instinct® Hard Grip Combination Screwdriver Set	357
SSDMR4BO	8-3/4″ Ratcheting Standard Screwdriver	369
TMXK60	1/4″ Drive 6″ Knurled Extension	131
TPMA25EM	25′ Tape Rule	802

9100AGMO Metric Basic Set A
- Tools only
- Includes a basic selection of ratchets, sockets, wrenches, screwdrivers, pliers and accessories
- Does not include tool storage

9100GMBO Complete Metric Set A
- More than 150 pc
- Includes 9100AGMO, plus KRA4059FPBO Top Chest



KRA4008FPBO



9000GM20



KRA4059FPBO

Metric Sets B

Stock No.	Description	Page
1250	12″ Prybar	388
206FSUMA	6 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set	181
207EFAMY	7 pc 3/8″ Drive Metric Hex Bit Socket Set	190
210FRHMA	10 pc 3/8″ Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set	307
310IMMYA	10 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	236
310SIMMYA	10 pc 1/2″ Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	238
313TSMYA	13 pc 1/2″ Drive 6-Point Metric Flank Drive® Deep Socket Set	227
388ACF	8″ High-Leverage Diagonal Cutter	391
61CF	8″ Duck Bill Pliers	395
AC58E	Wire Brush (Blue-Point®)	865
AWP160	Adjustable Joint Tongue and Groove Pliers	396
BP24B	24 oz Ball Peen Hickory Hammer (Blue-Point®)	417
CJ2001P	Bolt Grip Puller Set	459
CSA12CO	12-7//8″ Rigid Carbon Scraper	430
E1020	19 pc Extractor Set (Blue-Point®)	447
FADH8B	8″ Flank Drive® Plus Adjustable Wrench	322
FL80	3/8″ Drive Dual 80® Technology Long Handle Ratchet	166
FX24A	3/8″ Drive 24″ Friction Ball Extension	171
FXK4	3/8″ Drive 4″ Knurled Friction Ball Extension	171
FXK8	3/8″ Drive 8″ Knurled Friction Ball Extension	171
GA3000B	Headphone-Style Ear Protectors (Blue-Point®)	852
HBFE32	32 oz Dead Blow Soft Grip Handle Hammer	414
IP80D	1/2″ Drive Swivel Ball Lock Button Impact Universal Joint	235
JT13B	Blow Gun (Blue-Point®)	594
LP7WR	Curved Jaw with Cutter Locking Pliers	397
PT850	1/2″ Drive Air Impact Wrench	546
OEXM6B	6 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM7B	7 mm 12-Point Metric Flank Drive® Short Combination Wrench	292

Stock No.	Description	Page
OEXM8B	8 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM9B	9 mm 12-Point Metric Flank Drive® Short Combination Wrench	292
OEXM200B	20 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM210B	21 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM220B	22 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXSM710B	10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set	292
PPC3A	Center Punch	411
PPC104A	Pin Punch	411
PPC108A	5-3/4″ Pin Punch	411
PPC204A	5-3/4″ Starter Punch	411
PPC208A	6-3/4″ Starter Punch	411
QD3RM30A	1/2″ Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (6–30 kg•m)	331
S8	1/2″ Drive 2-11/16″ Friction Ball Universal Joint	225
SGCP1BR	Soft Grip Cotter Pin Puller	694
SGHBF500A	4 pc Mixed File Set	427
SL80A	1/2″ Drive Dual 80® Technology Long Handle Ratchet	220
SN24C	1/2″ Drive 24″ Standard Handle Breaker Bar	222
SPBS24AO	24″ Striking Prybar	386
SRPCR105	5 pc Snap Ring Pliers Set	398
SXK3	1/2″ Drive 3-1/2″ Extension	224
TA3	1/4″ Drive Square Drive Adaptor	132
TC28C	Tubing Cutter (Blue-Point®)	433
TDM117A	41 pc Metric Tap and Die Set	443
TF72	1/4″ Drive Dual 80® Technology Standard Handle Flex-Head Ratchet	127
TFM428	Metric Bubble Flaring Set (Blue-Point®)	434
TMX1	1/4″ Drive 1-1/4″ Extension	131
TMXK140	1/4″ Drive 14″ Knurled Extension	131
UTK100	Retractable Utility Knife	426

9000GM20 Add-On Group B
- More than 200 pc
- Does not include tool storage

9200GMBO Complete Metric Set B
- Includes 9100AGMO and 9000GM20, plus KRA4059FPBO Top Chest and KRA4008FPBO Roll Cab

9200GMO Metric Set B
- More than 400 pc
- Does not include tool storage

⚠WARNING

- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

METRIC SETS C



9000GM30



KRL756CPBO



KRL751PBO

9000GM3O Complete Metric Set C
- More than 200 pc
- Tools only
- Does not include tool storage

9300GMBO Complete Metric Set C
- Includes 9200GMO and 9000GM3O, plus KRL751PBO Top Chest and KRL756APBO Roll Cab

9300GMO Metric Set C
- More than 600 pc
- Includes all tools in 9200GMO and 9000GM3O
- Does not include tool storage

Metric Sets C

Stock No.	Description	Page
650	6" Prybar	388
106ATMXWP	6 pc 1/4" Drive Wobble Plus Extension Set	132
196ACF	8" Talon Grip™ Long Nose Pliers with Cutter	394
206AFXWP	6 pc 3/8" Drive Wobble Plus Extension Set	172
214IMFMYA	14 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	196
214SIMFMYA	14 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	198
497ACF	7" 90° Angle Jaw Needle Nose Pliers	394
AWP120	Adjustable Joint Pliers	396
BP8B	8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	417
CJ2002	Gear Puller Set	459
F12LB	3/8" Drive 11-9/16" Long Handle Breaker Bar	170
FADH10B	10" Flank Drive® Plus Adjustable Wrench	322
FBF80A	Standard Bent Handle Flex Head Ratchet	166
FK80	Stubby Handle Ratchet	166
HBBD32	32 oz Ball Peen Soft Grip Dead Blow Hammer	415
HBBT24	24 oz Bronze Tip Hammer	415
IMM200	1/2" Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket	236
IMM210	1/2" Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket	236
IMM220	1/2" Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket	236
IMM230	1/2" Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket	236
IMM240	1/2" Drive 6-Point Metric 24 mm Flank Drive® Shallow Impact Socket	236
IPF800B	3/8" Drive Impact Swivel Universal Joint	195
IPFM9C	3/8″ Drive 6-Point Metric 9 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM10C	3/8" Drive 6-Point Metric 10 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM12C	3/8" Drive 6-Point Metric 12 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM13C	3/8" Drive 6-Point Metric 13 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM14C	3/8" Drive 6-Point Metric 14 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM15C	3/8" Drive 6-Point Metric 15 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM16C	3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM17C	3/8″ Drive 6-Point Metric 17 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM18C	3/8″ Drive 6-Point Metric 18 mm Flank Drive® Shallow Swivel Impact Socket	199
IPFM19C	3/8″ Drive 6-Point Metric 19 mm Flank Drive® Shallow Swivel Impact Socket	199
JCW62R‡	Standard Creeper	789
KB2178	Kit Bag	411
MG325	3/8″ Drive Air Impact Wrench	554
OEXM90B	9 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM230B	23 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM240B	24 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM270B	27 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM300B	30 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OXIM710B	10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set	293
OXIM7B	7 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
OXIM8B	8 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
OXIM9B	9 mm 12-Point Metric Flank Drive® Midget Combination Wrench	293
PPB1012A	Bronze Tapered Punch	413
PPC110A	5-1/4″ Pin Punch	411
PPC112	5-1/4″ Pin Punch	411
PPC210A	7-1/4″ Starter Punch	411
PPC5A	6-15/16″ Punch/Chisel Holder	411
PPC824B	7-1/4″ Flat Chisel	411
PPC828B	8″ Flat Chisel	411
PT28E	Pick-Up Tool (Blue-Point®)	803
PTR72	3/8″ Drive Super-Duty Air Ratchet	556
PWC14	Wire Stripper/Cutter/Crimper/Bolt Cutter	402
QD2RM1000A	3/8″ Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (200–1,000 kg•cm)	331
RTD48‡	48 pc Master Rethreading Tap and Die Set	439
S9704KFUA	3/8″ Drive 6-Point SAE 13/16″ Flank Drive® Universal Spark Plug Socket	436
S9706KRFUA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Universal Retention Spark Plug Socket	437
SDM400A	Master SAE Screwdriver Bit Set	373
SF80A	Standard Handle Flex Head Ratchet	220
SGD304BR	Flat Tip Instinct® Soft Grip Mini-Tip Screwdriver	356
SHDP162R	PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver	357
SHDP62IRR	PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver	360
SHDP63IRR	PHILLIPS® #3 Instinct® Hard Grip Standard Screwdriver	360
SIMM200	1/2″ Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket	238
SIMM210	1/2″ Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket	238
SIMM220	1/2″ Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket	238
SIMM230	1/2″ Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket	238
SIMM240	1/2″ Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket	238
SPBS12AO	12″ Striking Prybar	386
SSDE42C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE44C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE66C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDE68C	Flat Tip Electronic Thin Blade Screwdriver	361
SSDMR1AO	4-5/16″ Ratcheting Magnetic Stubby Screwdriver	369
SX2	1/2″ Drive 2″ Extension	240
TC123C	Tubing Cutter (Blue-Point®)	433
TM61A	1/4″ Drive 6″ Flexible Extension	132
TMXK110	1/4″ Drive 11″ Knurled Extension	131
TWM25	1/2″ Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket	226
TWM26	1/2″ Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket	226
TWM27	1/2″ Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket	226
TWM30	1/2″ Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket	226
VSM807B	7 pc Metric Four-Way Angle Head Open-End Wrench Set	302
XBM605A	5 pc 12-Point Metric Flank Drive® Standard 10° Offset Box Wrench Set	295
XOM605	5 pc 12-Point Metric Flank Drive® Standard 60° Deep Offset Box Wrench Set	297

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- Read safety precautions on pages W1 to W4

METRIC SETS D



9000GM40



KRL756CPBO



KRL751PBO

9000GM4O Add-On Group D
- More than 175 pc
- Does not include tool storage

9400GMBO Complete Metric Set D
- Includes 9300GMO and 9000GM4O, plus KRL751PBO Top Chest, KRL756CPBO Roll Cab and KRA276D Wall cCabinet

9400GMO Metric Set D
- More than 800 pc
- Includes all tools in 9300GMO and 9000GM4O
- Does not include tool storage

Metric Sets D

Stock No.	Description	Page
2050	20″ Prybar	388
106ETMAMY	6 pc 1/4″ Drive Metric Standard Hex Bit Socket Set	145
10SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	364
111TMUSMA	11 pc 1/4″ Drive 6-Point Metric Flank Drive® Shallow Universal Socket Set	139
120SSDP	PHILLIPS® 90° Offset Screwdriver (Blue-Point®)	364
20SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	364
307IPLMY	7 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow Impact Swivel Socket Set	241
AWP65	Adjustable Joint Pliers	396
BP12B	12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	417
CHN480	Interlocking Channel Adjustable Joint Pliers (Blue-Point®)	396
CJ2003A	Rear Axle Puller Set	459
CJ2004	Puller Set, Interchangeable	459
CJ2005	Master Interchangeable Puller Set	460
CM6551A	5 pc Miniature Screwdriver Set	366
DBTR129‡	29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set	578
FADH6B	6″ Flank Drive® Plus Adjustable Wrench	322
FSM61	3/8″ Drive 6-Point Metric 6 mm Flank Drive® Shallow Socket	177
FSM71	3/8″ Drive 6-Point Metric 7 mm Flank Drive® Shallow Socket	177
FSUM11A	3/8″ Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket	209
FSUM16A	3/8″ Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket	181
FSUM18A	3/8″ Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket	181
FSUM19A	3/8″ Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket	181
FX18	3/8″ Drive 18″Friction Ball Extension	171
FX36	3/8″ Drive 36″ Friction Ball Extension	171
HBFE48	48 oz Dead Blow Soft Grip Hammer	414
IMTMM5	1/4″ Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket	148
IMTMM5.5	1/4″ Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket	148
IMTMM6	1/4″ Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket	148
IMTMM7	1/4″ Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket	148
IMTMM8	1/4″ Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket	148
IMTMM9	1/4″ Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket	148
IMTMM10	1/4″ Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket	148
IMTMM11	1/4″ Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket	148
IMTMM12	1/4″ Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket	148
IMTMM13	1/4″ Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket	148
IMTMM14	1/4″ Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket	148
IMTMM15	1/4″ Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket	148
LP5WR	Curved Jaw with Cutter Locking Pliers	397
LP6LN	Long Nose Locking Pliers	397

Stock No.	Description	Page
NDDM900A	9 pc Metric Hard Grip Nut Driver Set (5–13 mm)	372
OEXM250B	25 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM260B	26 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM290B	29 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM320B	32 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
P87150A	P-Series Cutting Pliers	392
P91355A	5-1/2″ 45° Bent Needle Nose Pliers	—
PDR3000A	3/8″ Capacity Reversible Drill	558
PPR708BK	8 pc Roll Pin Punch Set	413
RBM1011C	10–11 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench	283
RBM1213C	12–13 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench	283
RBM1415C	14–15 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench	283
RBM1719C	17–19 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench	283
RXSM605B	5 pc 6-Point Metric Open-End/Flare Nut Wrench Set	303
SFSM6	3/8″ Drive 6-Point Metric 6 mm Flank Drive® Deep Socket	178
SFSM7	3/8″ Drive 6-Point Metric 7 mm Flank Drive® Deep Socket	178
SGFMN106	6 pc Soft Grip Handle Miniature File Set	428
SHDTX315R	TORX® T15 Instinct® Hard Grip Standard Screwdriver	364
SHDTX320R	TORX® T20 Instinct® Hard Grip Standard Screwdriver	364
SPBS8AO	8″ Striking Prybar	386
SSDMR8AO	12-15/16″ Ratcheting Magnetic Long Screwdriver	369
STMM4.5	1/4″ Drive 6-Point Metric 4.5 mm Deep Socket	136
SX15	1/2″ Drive 15″ Extension	224
TDM99117B	25 pc Metric Tap and Die Set	443
TMM4.5	1/4″ Drive 6-Point Metric 4.5 mm Flank Drive® Shallow Socket	135
TSM26	1/2″ Drive 6-Point Metric 26 mm Flank Drive® Deep Socket	227
TSM27	1/2″ Drive 6-Point Metric 27 mm Flank Drive® Deep Socket	227
TSM30	1/2″ Drive 6-Point Metric 30 mm Flank Drive® Deep Socket	227
TSM32	1/2″ Drive 6-Point Metric 32 mm Flank Drive® Deep Socket	227
TWM10A	1/2″ Drive 6-Point Metric 10 mm Flank Drive® Shallow Socket	226
TWM11A	1/2″ Drive 6-Point Metric 11 mm Flank Drive® Shallow Socket	226
TWM28	1/2″ Drive 6-Point Metric 28 mm Flank Drive® Shallow Socket	226
TWM29	1/2″ Drive 6-Point Metric 29 mm Flank Drive® Shallow Socket	226
TWM31	1/2″ Drive 6-Point Metric 31 mm Flank Drive® Shallow Socket	226
TWM32	1/2″ Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket	226
VE200A	Tool Control Board (Blue-Point®)	295

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- Read safety precautions on pages W1 to W4

SB1CORE, SB2COREX SETS



SB1CORE Set Building Core Set

Stock No.	Description	Page
106BTMX	6 pc 1/4″ Drive Knurled Extension Set	131
124STTMM	24 pc 1/4″ Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set	137
206AFX	6 pc 3/8″ Drive Knurled Extension Set	171
209EFTXBY	9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set	144
210EFTAMY	10 pc Combination Drive Metric Standard Hex Bit Socket Set	190
224SFFSM	24 pc 3/8″ Drive 6-Point Metric Flank Drive® Shallow/Deep Combination Socket Set	179
AWP120	Adjustable Joint Pliers	396
CSA8CR	7-5/8″ Rigid Carbon Scraper	430
EECT4H	Circuit Tester	615
F80	3/8″ Drive Dual 80® Technology Standard Handle Ratchet	166
FLF80A	3/8″ Drive Dual 80® Technology Long Handle Flex-Head Ratchet	166
FU80B	3/8″ Drive 1-11/16″ Friction Ball Universal Joint	173
GLASS30R	Safety Glasses	854
HBBD24	24 oz Ball Peen Dead Blow Soft Grip Handle Hammer	415
OEXM710B	10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set	289
PHT5	Telescopic Magnetic Pickup Tool (Blue-Point®)	—
PL400B	4 pc Pliers/Cutters Set	390
PWCS7ACF	7″ Wire Stripper/Cutter/Crimper	400
S9706KA	3/8″ Drive 6-Point SAE 5/8″ Flank Drive® Shallow Spark Plug Socket	438
S9714MK	3/8″ Drive 12-Point Metric 14 mm Flank Drive® Standard Spark Plug Socket	438
SGA173BR‡	Soft Grip Radiator Hose Pick	749
SGASA204CR	4 pc Instinct® Soft Grip Miniature Pick Set	383
SGDX60BR	6 pc Combination Instinct® Soft Grip Screwdriver Set	356
SOXRRM710	10 pc 12-Point Metric Flank Drive® Plus Reversible Ratcheting Combination Wrench Set	274
SPBS704A	4 pc Striking Prybar Set	386
T72	1/4″ Drive Dual 80® Technology Standard Handle Ratchet	127
TF72	1/4″ Drive Dual 80® Technology Standard Handle Flex-Head Ratchet	127
TMU8B	1/4″ Drive 1-1/8″ Friction Ball Universal Joint	132
TPMA12	12′ Tape Rule	802
UIM225	Telescoping Inspection Mirror (Blue-Point®)	—
UTK150	Auto-Loading Utility Knife	426
YA160A	Ear Protectors (Blue-Point®)	852

SB2COREX Set Building Core Plus Set

Stock No.	Description	Page
1206GS	6 pc Combination Drive Square Drive Adaptor Set	132
208EPIT	8 pc 3/8″ Drive Impact Driver Set	195
305ASX	5 pc 1/2″ Drive Extension Set	224
310TWMYA	10 pc 1/2″ Drive 6-Point Metric Flank Drive® Shallow Socket Set	226
312CF	11″ VectorEdge Heavy-Duty Diagonal Cutter	391
313TSMYA	13 pc 1/2″ Drive 6-Point Metric Flank Drive® Deep Socket Set	227
388ACF	8″ High-Leverage Diagonal Cutter	391
911ACF	11″ Needle Nose Pliers	395
97ACF	9″ Needle Nose Pliers	394
HBBD32	32 oz Ball Peen Soft Grip Dead Blow Hammer	415
HBFE24	Dead Blow 24 oz Soft Grip Hammer	414
OEXM210B	21 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM220B	22 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
OEXM240B	24 mm 12-Point Metric Flank Drive® Standard Combination Wrench	289
PPC710BK	11 pc Punch and Chisel Set	411
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	304
S80A	1/2″ Drive Dual 80® Technology Standard Handle Ratchet	220
SGHBF500A	4 pc Mixed File Set	427
SLF80A	1/2″ Drive Dual 80® Technology Long Handle Flex-Head Ratchet	220
SRPC107	7 pc Retaining Ring Pliers Set	—
TQFR250E	1/2″ Drive TQ Series Flex-Head Torque Wrench (40–250 ft-lb)	332

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