

From Start To Finish, Strong, Powerful Sockets.

Snap-on® sockets are designed to fit and built to perform for a lifetime.

- Special alloy-steel—Made with proprietary high alloy content steel for a stronger, more durable tool.
- Thin wall design—Uniform wall thickness provides greater access and improved performance where you need it most.
- Broach depth—Snap-on sockets have a broach depth that allows rethreading a nut without removing it from the socket. Just another way Snap-on pays attention to the details.
- Flank Drive® wrenching system—Grabs fasteners on the flats, increasing torque and preventing fastener corners from rounding off.

Yes, We Have That.

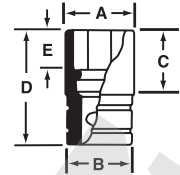
Snap-on offers a variety of socket options.

- Single and double hex
- Chrome deep, semi-deep and shallow
- Impact deep, semi-deep and shallow
- Low profile
- Swivel deep, semi-deep and shallow



SOCKETS

1/4" Drive Flank Drive®



Shallow, mm

mm	6	12	Set Contains:					6	12
			A	B	C	D	E		
4	TMM4*		6.7	12.1	13.3	22.2	4.6		
4.5	TMM4.5*		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		20.4	19.4	14.1	23.0	9.1	•	
16	TMM16		21.0	20.2	16.1	25.0	10.2		

*Conventional hex

Sets shown include storage tray

Shallow, inches

in	6	12	Set Contains:					6	12
			A	B	C	D	E		
1/8	TM04		7/32	7/16	1/2	7/8	1/8		
5/32	TM05*		9/32	15/32	1/2	7/8	5/32		
3/16	TM6*	TMD6*	9/32	15/32	1/2	7/8	5/32	•	•
7/32	TM7*	TMD7*	11/32	15/32	1/2	7/8	3/16	•	•
1/4	TM8	TMD8	3/8	15/32	1/2	7/8	7/32	•	•
9/32	TM9	TMD9	13/32	15/32	1/2	7/8	1/4	•	•
5/16	TM10	TMD10	15/32	15/32	1/2	7/8	9/32	•	•
11/32	TM11	TMD11	1/2	15/32	5/16	7/8	9/32	•	•
3/8	TM12	TMD12	17/32	1/2	1/2	7/8	9/32	•	•
7/16	TM14	TMD14	19/32	9/16	1/2	7/8	3/8	•	•
1/2	TM16	TMD16	11/16	21/32	1/2	7/8	3/8	•	•
9/16	TM18	TMD18	25/32	23/32	1/2	29/32	3/8	•	•
5/8	TM20		27/32	25/32	19/32	31/32	13/32		

*Conventional hex

Sets shown include storage tray

120STT 6-Point Shallow/Deep Set.

- TM6 thru TM18 shallow sockets (pg. 18) and STM6 thru STM18 deep sockets (pg. 19)
- (20 pcs) (3/16" to 9/16")



Semi Deep, mm

mm	6	12	Set Contains:					6	12
			A	B	C	D	E		
5	TMS5*	TMDS5*	7.7	12.1	22.9	31.8	5.1	•	•
5.5	TMS5.5*	TMDS5.5	8.3	12.1	22.9	31.8	5.3	•	•
6	TMS6	TMDS6	9.3	12.1	22.9	31.8	5.8	•	•
7	TMS7	TMDS7	10.5	12.1	22.9	31.8	6.1	•	•
8	TMS8	TMDS8	11.5	12.1	18.4	31.8	6.9	•	•
9	TMS9	TMDS9	12.7	12.1	18.4	31.8	7.4	•	•
10	TMS10	TMDS10	14.0	13.2	18.4	31.8	7.4	•	•
11	TMS11	TMDS11	15.4	14.6	18.4	31.8	9.4	•	•
12	TMS12	TMDS12	16.5	15.6	18.4	31.8	9.4	•	•
13	TMS13	TMDS13	17.6	16.7	18.4	31.8	9.4	•	•
14	TMS14	TMDS14	18.8	17.8	18.4	31.8	9.7	•	•
15	TMS15	TMDS15	20.4	19.4	18.4	31.8	9.7	•	•

*Conventional hex

Sets shown include storage tray

Semi Deep, inches

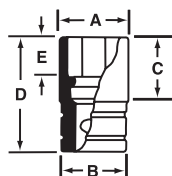
in	6	12	Set Contains:					6	12
			A	B	C	D	E		
3/16	TMS6*	TMDS6*	5/16	15/32	29/32	1 1/4	7/32	•	•
7/32	TMS7*	TMDS7*	11/32	15/32	29/32	1 1/4	7/32	•	•
1/4	TMS8	TMDS8	3/8	15/32	29/32	1 1/4	1/4	•	•
9/32	TMS9	TMDS9	13/32	15/32	23/32	1 1/4	1/4	•	•
5/16	TMS10	TMDS10	15/32	15/32	23/32	1 1/4	9/32	•	•
11/32	TMS11	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	•	•

*Conventional hex

Sets shown include storage tray

SOCKETS

1/4" Drive Flank Drive®



112STMMY



STMMD14



110STMY



STMD16 GSTMD14

Deep, mm

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

*Conventional hex

Sets shown include storage tray

124STMM Metric 6-Point Shallow/Deep Set.

- TMM4 thru TMM14 shallow sockets (except TMM4.5) (pg. 18) plus STMM4 thru STMM14 Deep Sockets (except STMM4.5) (pg. 19)
- (24 pcs)
- (4.5 to 14mm)

Deep, inches

in	6	12	12	A	B	C	D	E	6	12
1/8	STM04*			7/32	7/16	1 21/32	2	1/8		
5/32	STM05*			1/4	15/32	1 21/32	2	3/16		
3/16	STM06*	STMD6*	GSTMD6*	5/16	15/32	1 21/32	2	3/16	•	•
7/32	STM07*	STMD7*	GSTMD7*	11/32	15/32	1 21/32	2	7/32	•	•
1/4	STM08	STMD8	GSTMD8	3/8	15/32	1 21/32	2	7/32	•	•
9/32	STM09	STMD9	GSTMD9**	13/32	15/32	1 21/32	2	1/4	•	•
5/16	STM10	STMD10	GSTMD10**	15/32	15/32	1 21/32	2	7/32	•	•
11/32	STM11	STMD11	GSTMD11	1/2	15/32	1 21/32	2	9/32	•	•
3/8	STM12	STMD12	GSTMD12	17/32	9/16	1 21/32	2	9/32	•	•
7/16	STM14	STMD14	GSTMD14	5/8	9/16	1 21/32	2	3/8	•	•
1/2	STM16	STMD16	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	•	•

*Conventional hex

Sets shown include storage tray

**Larger bolt clearance diameter for servicing aerospace fasteners

1/4" Drive Low Profile



110RTSM

RTSM10



111RT

RT101

Low Profile, mm

mm	6	A	B	C	D	E	6
5	RTSM5	7.7	12.1	-	20.2	2.2	•
5.5	RTSM5.5	8.3	12.1	-	20.2	2.6	•
6	RTSM6	9.3	12.1	-	19.3	2.7	•
7	RTSM7	10.5	12.1	-	19.0	2.8	•
8	RTSM8	11.5	12.1	-	19.0	3.6	•
9	RTSM9	12.7	12.1	9.2	18.7	3.9	•
10	RTSM10	14.0	12.1	9.4	19.0	4.7	•
11	RTSM11	15.4	12.1	6.2	17.3	4.5	•
12	RTSM12	16.5	12.1	6.1	17.8	4.9	•
13	RTSM13	17.6	12.1	5.9	18.1	5.1	•
	RAT72	Low Profile Ratchet					•

Set shown includes storage tray

Low Profile, inches

in	12	A	B	C	D	E	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	7/32	•
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	•
	RAT72	Low Profile Ratchet					•

Set shown includes storage tray



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

1/4" Drive Blue-Point®



BLPSM145



BLPSM149



BLPSM1412



BLPS1414



BLPS14716

Shallow, mm

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

Shallow, inches

in	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

Deep, mm

mm	6	Length, mm
4	BLPLSM144	50.0
5	BLPLSM145	50.0
6	BLPLSM146	50.0
7	BLPLSM147	50.0
8	BLPLSM148	50.0
9	BLPLSM149	50.0
10	BLPLSM1410	50.0
11	BLPLSM1411	50.0
12	BLPLSM1412	50.0
13	BLPLSM1413	50.0
14	BLPLSM1414	50.0



BLPLS1414



BLPLS1412

Deep, inches

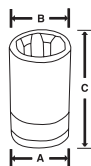
in	6	Length, inches
3/16	BLPLS14316	1 31/32
7/32	BLPLS14732	1 31/32
1/4	BLPLS1414	1 31/32
9/32	BLPLS14932	1 31/32
5/16	BLPLS14516	1 31/32
11/32	BLPLS141132	1 31/32
3/8	BLPLS1438	1 31/32
7/16	BLPLS14716	1 31/32
1/2	BLPLS1412	1 31/32
9/16	BLPLS14916	1 31/32
5/8	BLPLS1458	1 31/32



BLPS81438

8-Point, inches

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



SOCKETS

1/4" Drive Special Purpose



213AFLEY

Torx®/Shallow

#	Stock No.	A	B	C
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

Sets shown include storage tray

213AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A thru TLE100A (page 21), 3/8" drive FLE110A thru FLE140A (page 29) and 1/2" drive SLE160A thru SLE240A (page 38) (13 pcs) (E4 to E24)

210AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A thru TLE80A (page 21) plus 3/8" drive FLE100A thru FLE180A (10 pcs) (E4 to E18) (page 29)



BLPTE145

External Torx-Blue-Point®

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



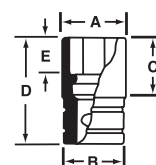
STLE50

Torx/Deep

#	Stock No.	A	B	C
E4	STLE40	15/32	9/32	2
E5	STLE50	15/32	5/16	2



TM412



Double Square

#	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

1/4" Drive Flank Drive® Impact



IMTMM10

Shallow, mm

mm	6	A	B	C	D	E
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



SIMTMM10

Deep, mm

mm	6	A	B	C	D	E
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



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

1/4" Drive Flank Drive® Impact



IMTM16A

Shallow, inches

		A	B	C	D	E
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

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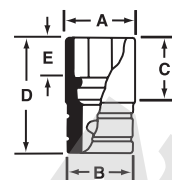


SIMTM16

Deep, inches

		A	B	C	D	E
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 B107.2-2002



1/4" Drive Torx® Impact



IMTLE40A

 Torx/Shallow

#		A	B	C	D	E
E4	IMTLE40A	9/32	1/2	17/32	7/8	5/32
E5	IMTLE50A	5/16	1/2	17/32	7/8	3/16
E6	IMTLE60A	11/32	1/2	17/32	7/8	3/16
E7	IMTLE70A	3/8	1/2	17/32	7/8	1/4
E8	IMTLE80A	7/16	1/2	17/32	7/8	1/4

1/4" Drive Flank Drive Magnetic Power



MGMM10

Shallow Magnetic, mm

mm		A	B	D	E
5.5	MGMM5.5	9.9	12.4	22.2	1.9
7	MGMM7	11.5	14.0	22.2	2.0
8	MGMM8	12.7	14.0	22.2	2.4
10	MGMM10	14.8	14.8	23.8	3.1



MGM8D

Shallow Magnetic, inches

		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



MGMMS11B

Deep Magnetic, mm

mm		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



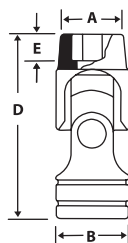
MGMS10A

Deep Magnetic, inches

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

SOCKETS

1/4" Drive Flank Drive® Universal



TMUM8A



111TMUSMA

Shallow Universal, mm

mm	6	12	A	B	D	E	Set Contains:	111TMUSMA	106TMUSMA
5	TMUSM5A	TMUM5A	8.1	12.7	29.2	3.3			
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		18.8	12.7	38.6	8.6	•		•
15	TMUSM15A		20.4	12.7	41.1	8.9	•		•

Sets shown include storage tray



106TMUSA



TMUS161A



GTMU141A

Shallow Universal, inches

in	6	12	12	A	B	D	E	Set Contains:	106TMUSA	106TMUA
3/16		TMU61A*		19/64	1/2	1 17/64	1/4			
7/32		TMU71A*	GTMU71A	11/32	1/2	1 17/64	1/4			
1/4	TMUS81A	TMU81B		3/8	1/2	1 17/64	1/4	•		•
9/32		TMU91A		27/64	1/2	1 5/16	9/32			
5/16	TMUS101A	TMU101A		15/32	1/2	1 11/32	9/32	•		•
11/32		TMU111A		1/2	1/2	1 3/8	9/32			
3/8	TMUS121A	TMU121A		17/32	1/2	1 27/64	9/32	•		•
7/16	TMUS141A	TMU141A	GTMU141A	19/32	1/2	1 29/64	13/32	•		•
1/2	TMUS161A	TMU161A		11/16	1/2	1 33/64	13/32	•		•
9/16	TMUS181A	TMU181A		3/4	1/2	1 35/64	13/32	•		•

*Conventional hex

Sets shown include storage tray



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

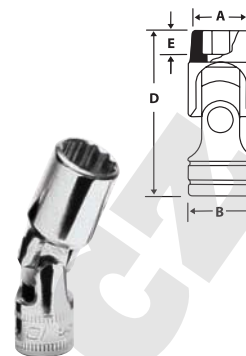
1/4" Drive Flank Drive® Universal



Deep Universal, inches

GSTMU101A

#	12	A	B	D	E
5/16	GSTMU101A	15/32	15/32	1 11/16	9/32



Deep Universal, mm

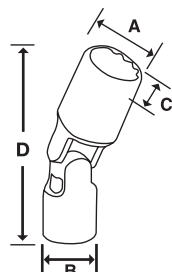
STMUM10A

mm	12	A	B	D	E
10	STMUM10A	14.0	12.7	41.4	5.8

1/4" Drive Torx® Universal



TSE120



Torx/Universal

#	Stock No.	A	B	D
E8	TSE80	13/32	1/2	1 3/8
E10	TSE100	1/2	1/2	1 3/8
E12	TSE120	1/2	1/2	1 3/8

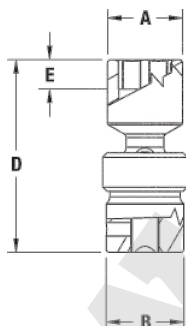
TSE80 Applications: Mercedes-Benz turbo chargers, crankshaft position sensor, sensors and intake bolts, bell housing bolts and ignitions switch.

TSE100 and TSE120 Applications: Mercedes-Benz oil pan bolts, interior and engine fasteners, water pumps, power steering pumps and engine covers on newer models.

1/4" Drive Flank Impact Swivel



IPTMM7



Shallow Swivel, mm

mm	6	A	B	D	E
7	IPTMM7	11.5	15.4	37.4	4.3
8	IPTMM8	12.7	15.4	38.6	4.8
10	IPTMM10	15.2	15.4	41.0	5.8
12	IPTMM12	17.3	17.9	44.9	6.9
13	IPTMM13	18.7	17.9	46.1	7.4

1/4" and 3/8" Drive Shallow/Deep Combination Sets



120STTM



124STTMM



222SFFS



224SFFSM

120STTM 6-Point Shallow/Deep Set. TM6 thru TM18 shallow sockets (pg. 18) and STM6 thru STM18 deep sockets (pg. 19) (20 pcs) (3/16" to 9/16").

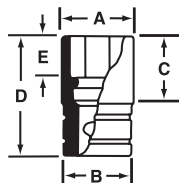
124STTMM Metric 6-Point Shallow/Deep Set. TMM4 thru TMM14 shallow sockets (except TMM4.5) (pg. 18) plus STMM4 thru STMM14 deep sockets (except STMM4.5) (pg. 19) (24 pcs) (4.5 to 14mm).

222SFFS 6-Point Shallow/Deep Set. FS081 thru FS281 shallow sockets (except FS111) (pg. 25) plus SFS081 thru SFS281 deep sockets (except SFS111) (1/4 to 7/8) (22pcs) (pg. 26).

224SFFSM Metric 6-Point Shallow/Deep Set. FSM81 thru FSM191 shallow sockets (pg. 25) plus SFSM8 thru SFSM19 deep sockets (pg. 26) (24 pcs) (8 to 19mm).

SOCKETS

3/8" Drive Flank Drive®



Shallow, mm

212FSMY

Set Contains:

mm	6	12	12	A	B	C	D	E	6	12
6	FSM61			9.1	17.2	11.1	23.0	5.6		
7	FSM71			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	40.0	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			32.3	31.3	19.8	35.3	14.5		
26	FSM261	FM26		33.8	32.9	20.6	37.0	14.3		

Sets shown include storage tray

224SFFSM Metric 6-Point Shallow/Deep Set. FSM81 thru FSM191 shallow sockets (pg. 25) plus SFSM8 thru SFSM19 deep sockets (pg. 26) (24 pcs) (8 to 19mm).



Shallow, inches

211FSY

F201

GF201

Set Contains:

	6	12	12	A	B	C	D	E	6	6	12
1/4	FS081	F081	GF081	13/32	11/16	7/16	29/32	7/32	•	•	•
5/16	FS101	F101	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	GF121	9/16	11/16	7/16	29/32	9/32	•	•	•
7/16	FS141	F141	GF141	5/8	11/16	7/16	29/32	9/32	•	•	•
1/2	FS161	F161	GF161	23/32	11/16	1/2	15/16	5/16	•	•	•
9/16	FS181	F181	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	GF201	27/32	25/32	19/32	1 3/32	1/2	•	•	•
11/16	FS221	F221	GF221	15/16	7/8	5/8	1 1/8	17/32	•	•	•
3/4	FS241	F241	GF241	1	15/16	11/16	1 3/16	15/32	•	•	•
13/16	FS261	F261	GF261	1 1/16	1	11/16	1 7/32	1/2	•	•	•
7/8	FS281	F281	GF281	1 5/32	1 1/32	23/32	1 9/32	9/16	•	•	•
15/16	FS301	F301	GF301	1 1/4	1 3/16	25/32	1 11/32	9/16	•	•	•
1	FS321	F321	GF321	1 5/16	1 1/4	13/16	1 3/8	19/32	•	•	•

Sets shown include storage tray

222SFFS 6-Point Shallow/Deep Set. FS081 thru FS281 shallow sockets (except FS111) (pg. 25) plus SFS081 thru SFS281 deep sockets (except SFS111) (1/4 to 7/8) (22pcs) (pg. 26).



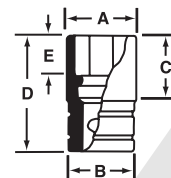
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/8" Drive Flank Drive®



Semi Deep, mm

mm	6	12	A	B	C	D	E	6
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		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	23.0	41.3	10.7	•
17	FSMS17	FMS17	22.6	21.8	23.0	41.3	11.2	•
18	FSMS18	FMS18	24.2	23.2	23.0	41.3	11.2	•
19	FSMS19		25.1	24.0	22.7	41.3	11.7	•

Sets shown include storage tray

Semi Deep, inches

in	6	12	A	B	C	D	E	6
1/4	FSS081		13/32	11/16	1 1/8	1 5/8	7/32	•
5/16	FSS101	FDS101	15/32	11/16	1 1/8	1 5/8	9/32	•
3/8	FSS121	FDS121	9/16	11/16	1 1/8	1 5/8	5/16	•
7/16	FSS141	FDS141	5/8	11/16	1 1/8	1 5/8	3/8	•
1/2	FSS161	FDS161	23/32	11/16	31/32	1 5/8	13/32	•
9/16	FSS181	FDS181	25/32	23/32	31/32	1 5/8	13/32	•
5/8	FSS201		27/32	51/64	31/32	1 5/8	13/32	•
11/16	FSS221		15/16	7/8	31/32	1 5/8	7/16	•
3/4	FSS241		1	15/16	31/32	1 5/8	15/32	•
13/16	FSS261		1 1/16	1	31/32	1 5/8	1/2	•
7/8	FSS281		1 5/32	1 3/32	31/32	1 5/8	17/32	•

Set shown includes storage tray



Deep, mm

mm	6	12	A	B	C	D	E	6	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		26.3	25.3	48.1	66.7	12.2		
21	SFSM21		27.5	26.4	47.6	66.7	12.4		

Sets shown include storage tray ASME/ANSI B107.1-2002

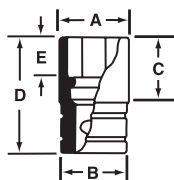
Deep, inches

in	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	•	•	•
5/16	SFS101	SF101	GSFS101	GSF101	15/32	11/16	1 11/16	2 1/8	7/32	•	•	•
11/32	SFS111				1/2	11/16	1 11/16	2 1/8	9/32			
3/8	SFS121	SF121		GSF121	9/16	11/16	1 11/16	2 1/8	5/16	•	•	•
7/16	SFS141	SF141		GSF141	5/8	11/16	1 11/16	2 1/8	3/8	•	•	•
1/2	SFS161	SF161		GSF161	23/32	11/16	1 11/16	2 1/8	7/16	•	•	•
9/16	SFS181	SF181		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		GSF201	27/32	13/16	1 29/32	2 3/8	15/32	•	•	•
11/16	SFS221	SF221		GSF221	15/16	7/8	2 3/16	2 5/8	1/2	•	•	•
3/4	SFS241	SF241		GSF241	1	1	2 3/16	2 5/8	5/8	•	•	•
13/16	SFS261	SF261		GSF261	1 1/16	1	2 1/4	2 3/4	5/8	•	•	•
7/8	SFS281	SF281		GSF281	1 5/32	1 1/8	2 1/4	2 3/4	23/32	•	•	•
15/16	SFS301	SF301		GSF301	1 1/4	1 3/16	2 1/4	2 3/4	23/32			•
1	SFS321	SF321		GSF321	1 5/16	1 1/4	2 1/4	2 3/4	13/16			•

Sets shown include storage tray

SOCKETS

3/8" Drive Low Profile



RFM12

Low Profile, mm

mm	6	12	A	B	C	D	E	6	12
8	RFSM8	RFM8	11.6	16.5		16.8	3.8	•	•
9	RFSM9	RFM9	13	16.5		17	4.1		
10	RFSM10	RFM10	14.3	16.5		17.3	4.3	•	•
11	RFSM11	RFM11	16	16.5		17.7	4.8		
12	RFSM12	RFM12	17.2	16.5	9.8	18.1	5.1	•	•
13	RFSM13	RFM13	18	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	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		
20	RAF80	Low Profile Ratchet						•	•

Sets shown include storage tray



RF181

Low Profile, inches

	12	A	B	C	D	E	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	.72	.21	•
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	•
	RAF80	Low Profile Ratchet					•

Dimensions in decimal inches.

Sets shown include storage tray



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/8" Drive-Blue-Point®



BLPSM389



BLPSM3815



BLPSM3822



BLPS3838



BLPS3878

Shallow, mm

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

Shallow, inches

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



BLPLM3810



BLPLM3816



BLPLM3822



BLPL3838



BLPL3834

Deep, mm

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

Deep, inches

in	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

3/8" Drive Torx® and Special Application



FLE180A

213AFLEY

Set
Contains:

213AFLEY
210AFLEY



Torx®/Shallow

#	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		•

Sets shown include storage tray

213AFLEY Combination Drive Shallow Torx Set.

Includes 1/4" drive TLE40A thru TLE100A (page 21), 3/8" drive FLE110A thru FLE140A (page 29) and 1/2" drive SLE160A thru SLE240A (page 38) (13 pcs) (E4 to E24).

210AFLEY Combination Drive Shallow Torx Set.

1/4" drive TLE40A thru TLE80A (page 21) plus 3/8" drive FLE100A thru FLE180A (10 pcs) (E4 to E18) (page 29).



FRXM19

Flank Drive® Flare Nut, mm

mm	Stock No.	A	B	C	D
10	FRXM10	16.9	18.3	53.3	7.2
12	FRXM12	19.3	18.3	53.3	8.8
14	FRXM14	22.0	20.5	62.5	10.4
16	FRXM16	23.5	21.9	71.6	11.7
17	FRXM17	25.1	23.5	78.0	12.7
18	FRXM18	25.9	24.3	83.8	13.5
19	FRXM19	26.7	25.1	89.9	14.2



Torx

#	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



BLPTE3810



BLPTE3818



FLEP180



FLEPL100



Torx Plus®

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

FLEP180 Torx Plus Socket. Use to remove seat hold down nuts on 1999 and later GM full size pickup trucks. 3/8" square drive.

FLEPL100 Torx Plus Socket. For removal and installation of low profile transmission bolts that secure the valve body to the inside of the transmission. To access the valve body, the bottom pan and filter, which are secured by six low profile Torx Plus 10EPL bolts, need to be removed. The low profile fasteners are used on the following GM 6 speed automatic transmissions: 6L50, 6L80, 6L90 and the BMW model 6L45.



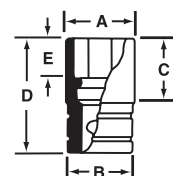
FRX181

Flank Drive/Flare Nut, inches

#	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



F318



Double Square, inches

#	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



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/8" Drive Special Application



Pipe Plug, mm

mm	Stock No.	A	B	Stock No.	A	B
6	PMM406A	16.4	31.0	PMP406A	17.2	25.8
8	PMM408A	17.2	31.0		17.2	28.6
10	PMM410A	17.2	28.4	PMP410A	18.8	25.4



Flank Drive®/Pentagon (5-Point)

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

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.



3/8" Drive Torx® Impact



Pipe Plug, inches

	Stock No.	B	Stock No.	B
3/16	PPM406A	1 1/8		1
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

211PPPMY Internal/External Set. PPM406 thru PPM412 external sockets plus PP408 thru PP412 internal sockets (11 pcs) (3/16" to 3/8").



Drag Link

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

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

Swivel Ball Extension, mm

mm	6	12	A	B	C	D	E
10	PFSXM910A		17.2	14.4	14.4	10	243.4
12	PFSXM912A		17.2	17.2	17	10	244.6
13		GFLXM13	19.1	19.1	17.3	9.5	320.3

PFSXM910A and PFSXM912A Applications: Toyota and Lexus: transmission pan bolts plus several underdash applications. Volvo: removing intake faster and easier.

GFLXM13 Applications: Removing water pumps and transmission bolts for Mercedes. Various applications for Caterpillar.



#	Stock No.	Square Drive, In.	A	B	C	207IMFLE
E8	IMFLE80A	3/8	15/32	11/16	1 5/32	•
E10	IMFLE100A	3/8	1/2	11/16	1 5/32	•
E12	IMFLE120A	3/8	19/32	11/16	1 5/32	•
E14	IMFLE140A	3/8	5/8	11/16	1 5/32	•
E16	IMFLE160A	3/8	3/4	3/4	1 1/4	•
E18	IMFLE180A	3/8	25/32	25/32	1 5/16	•
E20	IMFLE200	1/2	15/16	15/16	1 1/2	•

Set shown includes storage tray

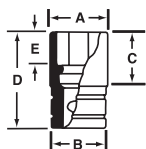
Various applications on heavy duty trucks with Mercedes engines.

Use E18 size for F550 brake rotor.

Use E20 size for rear brake caliper bolts on BMW X5.

SOCKETS

3/8" Drive Flank Drive® Impact



Shallow, mm

mm	6	12	A	B	C	D	E	6	12
8	IMFM8A	IMDFM8A	12.8	17.2	11.1	23.0	6.4	•	
9	IMFM9A		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 (19.4)	18.8 (19.4)	12.4 (10.9)	24.6 (23.8)	7.4 (7.6)	•	•
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 (29.1)	28.8 (29.1)	17.5	29.5 (32.1)	12.2 (12.4)	•	
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	•	

Dimensions in () apply to 12-point sockets only.

Sets shown include storage tray

Shallow, inches

11	6	12	A	B	C	D	E	6	12
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 storage tray



Semi Deep, mm

mm	6	A	B	C	D	E	6
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	•

Set shown includes storage tray

Semi Deep, inches

11	6	A	B	C	D	E	6
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	•

Set shown includes storage tray



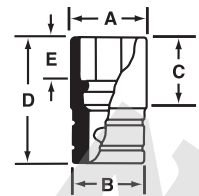
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/8" Drive Flank Drive® Impact



214SIMFMYA



SIMDFM14



212SIMFYA



SIMF260

Deep, mm

mm	6	12	A	B	C	D	E	6	12
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		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 storage tray

Deep, inches

in	6	A	B	C	D	E	6	6
5/16	SIMF100A	1/2	11/16	1 1/2	2 1/8	3/16		•
3/8	SIMF120A	9/16	11/16	1 1/2	2 1/8	9/32	•	•
7/16	SIMF140A	21/32	3/4	1 1/2	2 1/8	5/16	•	•
1/2	SIMF160	3/4	3/4	1 1/2	2 1/8	3/8	•	•
9/16	SIMF180	13/16	13/16	1 1/2	2 3/8	7/16	•	•
5/8	SIMF200	29/32	29/32	1 1/2	2 3/8	7/16	•	•
11/16	SIMF220	31/32	31/32	1 1/2	2 5/8	1/2	•	•
3/4	SIMF240	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		•

Sets shown include storage tray

3/8" Drive Impact/Special Purpose

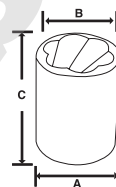
- Removes rounded/damaged fasteners



209TFSMYA



TFSY241A



213TFSFYA



TFSY241A

Twist, Shallow, inches/mm

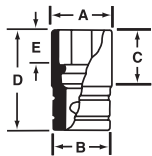
in	mm	6	A	B	C	6	6
3/8	TFSY121A	11/16 (17.5)	9/16 (14.3)	1 1/4 (31.8)		•	
7/16 (11)	TFSY141A	11/16 (17.5)	21/32 (16.7)	1 1/4 (31.8)	•	•	
1/2	TFSY161A	3/4 (19.1)	3/4 (19.1)	1 1/4 (31.8)		•	
9/16	TFSY181A	13/16 (20.6)	13/16 (20.6)	1 1/4 (31.8)		•	
5/8 (16)	TFSY201A	29/32 (23.0)	29/32 (23.0)	1 1/4 (31.8)	•	•	
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

Twist, Deep, inches/mm

in	mm	6	A	B	C	6	6
3/8	TFSY121A	11/16 (17.5)	9/16 (14.3)	2 1/8 (54.0)	•		
7/16 (11)	TFSY141A	11/16 (17.5)	21/32 (16.7)	2 1/8 (54.0)	•		
1/2	TFSY161A	3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•		
9/16	TFSY181A	13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•		
5/8 (16)	TFSY201A	29/32 (23.0)	29/32 (23.0)	2 3/8 (60.3)	•		
11/16	TFSY221A	31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•		
3/4 (19)	TFSY241A	1 1/16 (27.0)	1 1/16 (27.0)	2 5/8 (66.7)	•		
10	TFSY10A	11/16 (17.5)	19/32 (15.1)	2 1/8 (54.0)	•		
12	TFSY12A	11/16 (17.5)	11/16 (17.5)	2 1/8 (54.0)	•		
13	TFSY13A	3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•		
14	TFSY14A	13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•		
15	TFSY15A	13/16 (20.6)	27/32 (21.4)	2 3/8 (60.3)	•		
17	TFSY17A	31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•		

Set shown includes storage tray



SOCKETS

3/8" Drive Magnetic/Surface Drive/Special Purpose



MFIMM15



MFIM101

Shallow Magnetic, mm

mm	6	12	A	B	D	E
10	MFIMM10A	MFIMMD10	15.1	17.2	29.1 (28.6)	4.7 (7.1)
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

Dimensions in () apply to 12-point sockets only.

MFIMMD10 Applications: For use on Detroit Diesel 60 series. Use on the three camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine. The technician has to 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. Earlier engines with the tall gear case have 13mm six point bolts. Please use MFIMM13 for this application.

Shallow Magnetic, inches

	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

Deep Magnetic-Spring Loaded, mm

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

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

Deep, inches

	6	A	B	C	D	E
7/16	DFS14	21/32	11/16	1 21/32	2 1/8	11/32



DFSM10



DFS14

Deep Surface Drive

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.



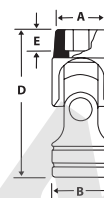
WARNING



• Read safety precautions on pages 594 to 597

SOCKETS

3/8" Drive Flank Drive® Universal



206FSUMA



FUM18A



206AFSA



FU16B

Shallow, mm

mm	6	12	A	B	D	E	Set Contains:	
							206FSUMA	209FUMY
mm	6	12	A	B	D	E	6	12
8	FSUM8A		11.9	17.2	43.1	6.4		
10	FSUM10A	FUM10A	14.0	18.1	43.5	6.4	•	•
11	FSUM11A		15.3	18.1	43.5	7.1		
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	FUM15A	20.5	18.1	47.9	8.9	•	•
16	FSUM16A	FUM16A	21.3	18.1	47.9	10.2		•
17	FSUM17A	FUM17A	22.9	18.9	50.7	10.4	•	•
18	FSUM18A	FUM18A	24.5	18.9	50.7	10.7		•
19	FSUM19A	FUM19A	25.3	18.9	52.5	11.7		•
22	FSUM22A		28.4	18.9	53.9	13.0		

Sets shown include storage tray

Shallow, inches

in	6	12	A	B	D	E	Set Contains:	
							206AFSA	206FUA
in	6	12	A	B	D	E	6	12
5/16		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	11/16	1 23/32	11/32	•	•
5/8	FS20B	FU20B	27/32	11/16	1 25/32	3/8	•	•
11/16	FS22B	FU22B	15/16	3/4	2	3/8	•	•
3/4	FS24B	FU24B	1	3/4	2 1/16	7/16	•	•
13/16		FU26B	1 3/32	3/4	2 3/32	15/32		
7/8		FU28B	1 5/32	3/4	2 3/32	1/2		
15/16		FU30B	1 1/4	3/4	2 9/32	9/16		
1		FU32B	1 5/16	3/4	2 9/32	9/16		

Sets shown include storage tray



206SFSUM



207FSU

Deep, mm

mm	6	A	B	D	E	6
mm	6	A	B	D	E	6
8	SFSUM8	11.9	17.2	63.6	6.9	
10	SFSUM10	14.4	18.1	63.6	7.4	•
11	SFSUM11	15.6	18.1	63.6	7.6	
12	SFSUM12	17.1	18.1	63.6	8.1	•
13	SFSUM13	18.1	18.1	63.6	8.4	•
14	SFSUM14	18.9	18.1	63.6	9.1	•
15	SFSUM15	20.5	18.1	63.6	9.7	•
16	SFSUM16	21.3	18.1	63.6	10.4	
17	SFSUM17	22.9	18.9	63.6	10.9	•
18	SFSUM18	24.5	18.9	63.6	10.9	
19	SFSUM19	25.3	18.9	63.6	11.9	

Set shown includes storage tray

Deep, inches

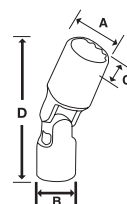
in	6	A	B	D	E	6
in	6	A	B	D	E	6
3/8	FSU12	9/16	11/16	2 13/32	3/8	•
7/16	FSU14	5/8	11/16	2 13/32	7/16	•
1/2	FSU16	23/32	11/16	2 13/32	15/32	•
9/16	FSU18	25/32	11/16	2 13/32	17/32	•
5/8	FSU20	27/32	11/16	2 13/32	9/16	•
11/16	FSU22	15/16	3/4	2 15/32	9/16	•
3/4	FSU24	1	3/4	2 15/32	9/16	•

Set shown includes storage tray

3/8" Drive Torx®/Universal



#	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	15/32	2 1/16
E18	FSE180	13/16	3/4	1/2	2 1/16
E20	FSE200	15/16	3/4	9/16	2 1/8



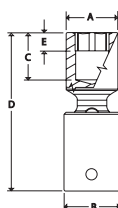
FSE180

3/8" Drive Flank Drive®/Impact Swivel



207IPFM

IPDFM12A



205IPF

Shallow, mm

Set Contains: 207IPFM

mm	6	12	A	B	D	E	6
8	IPFM8C		13.2	22.2	49.8	6.4	
9	IPFM9C		14.0	22.2	49.8	6.4	
10	IPFM10C	IPDFM10A	15.4	22.2	50.8	7.1	•
11	IPFM11C		16.7	22.2	52.1	7.1	
12	IPFM12C	IPDFM12A	18.1	22.2	53.1	7.1	•
13	IPFM13C	IPDFM13A	18.9	22.2	54.1	7.9	•
14	IPFM14B	IPDFM14A	20.5	22.2	55.4	7.9	•
15	IPFM15C		21.2	22.2	56.4	7.9	•
16	IPFM16C	IPDFM16A	22.6	22.2	57.4	8.6	
17	IPFM17C		23.4	23.0	62.2	8.6	•
18	IPFM18C		25.1	23.0	64.0	9.7	•
19	IPFM19C		26.4	23.0	65.0	10.4	
21	IPFM21C		29.2	25.1	65.7	12.4	
22	IPFM22C		29.9	23.0	68.1	13.0	

Set shown includes storage tray



IPFSFM21A

Shallow, inches

Set Contains: 205IPF

in	6	A	B	D	E	6
3/8	IPF12C	9/16	7/8	1 31/32	1/4	
7/16	IPF14C	21/32	7/8	2 1/16	9/32	•
1/2	IPF16C	3/4	7/8	2 1/8	5/16	•
9/16	IPF18C	13/16	7/8	2 3/16	5/16	•
5/8	IPF20C	7/8	7/8	2 1/4	11/32	•
11/16	IPF22C	31/32	29/32	2 17/32	13/32	
3/4	IPF24C	1 1/16	29/32	2 19/32	7/16	•

Set shown includes storage tray



IPLFM12B



IPLF18B

Semi Deep, mm

IPFSFM21A

mm	6	A	B	D	E
8	IPFSFM8A	12.8	22.2	62.5	6.4
10	IPFSFM10A	15.1	22.2	64.1	9.7
11	IPFSFM11A	17.2	22.2	65.6	9.7
12	IPFSFM12A	18.0	23.0	70.9	9.7
13	IPFSFM13A	19.6	23.0	71.9	10.4
14	IPFSFM14A	20.4	23.0	72.9	10.4
15	IPFSFM15A	22.0	23.0	74.4	10.4
16	IPFSFM16A	22.7	23.0	74.9	10.4
17	IPFSFM17A	24.3	23.0	76.0	11.2
18	IPFSFM18A	25.1	23.0	77.5	11.2
19	IPFSFM19A	26.7	23.0	79.0	14.2
21	IPFSFM21A	29.2	25.1	77.7	12.4

Deep, mm

IPLFM12B

mm	6	A	B	D	E
8	IPLFM8B	15.8	24.9	70.1	9.1
10	IPLFM10B	15.8	24.9	70.1	9.1
12	IPLFM12B	16.6	24.9	70.1	9.7
13	IPLFM13A	18.8	22.2	79.5	10.4
14	IPLFM14A	20.4	22.2	81.0	10.4
15	IPLFM15A	21.2	22.2	82.6	10.4
17	IPLFM17A	23.4	23.0	88.3	10.2
18	IPLFM18A	25.1	23.0	90.1	10.7
19	IPLFM19A	26.7	23.0	91.2	14.2

Deep, inches

IPLF18B

in	6	A	B	D	E
3/8	IPLF12B	9/16	7/8	2 15/16	1/4
7/16	IPLF14B	21/32	7/8	2 3/4	9/32
1/2	IPLF16B	3/4	7/8	2 3/4	5/16
9/16	IPLF18B	13/16	7/8	3 3/16	5/16
5/8	IPLF20B	7/8	7/8	3 1/4	11/32



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

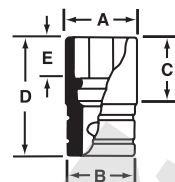
SOCKETS

1/2" Drive Flank Drive®



310TWMYA

SWM241



Shallow, mm

mm	6	12	A	B	C	D	E	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



313TWYA

SW241

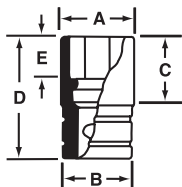
Shallow, inches

in	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	TW341	SW341	GTW341	GSW341	1 7/16	1 3/8	1 31/32	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		GSW421	1 3/4	1 11/16	1 1/4	1 7/8	1			
1 3/8	TW441	SW441		GSW441	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		GSW481	2	1 15/16	1 5/8	2 1/4	1			

Sets shown include storage tray

SOCKETS

1/2" Drive Flank Drive®



313TSMYA



SM24

Set Contains:

Deep, mm

mm	6	12	A	B	C	D	E	6	6	12
10	TSM10A	SM10A	15.0	23.2	66.7	82.6	7.9		•	
11		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



313TSYA



S241



GS201

Set Contains:

Deep, inches

in	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	•	•	•
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	1 3/16	•	•	•
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 B107.1-2002

Sets shown include storage tray



WARNING



- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

1/2" Drive Flank Drive®



320TSWMA

320TSWMA Metric 6-Point Shallow/Deep Set. Includes TWM10A thru TWM19 shallow sockets (pg 36) and TSM10A thru TSM20 deep sockets (pg 37) (20 pcs) (10 to 20mm).

1/2" Drive-Blue-Point®



BLPSM1216

Shallow, mm

mm	6	Length, mm
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	BLPSM1224	38.1



BLPS1234

Shallow, inches

#	6	Length, inches
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

1/2" Drive Torx®



213AFLEY

Torx Plus®/External

SLEPL200 Low Profile Torx Plus Socket. For removal and installation of low profile drive plate and flywheel bolts on QR25 Nissan motors with automatic transmissions. It is similar to the J-45816 Nissan specialty tool. Size is 20EPL. 1/2" drive. Please note: For flywheel bolts on QR25 Nissan motors with manual transmissions, use the 3/8" drive FTX50TPE male T50 Torx Plus socket (pg 53).



SLEPL200



IMSLE200

Torx, Impact

#	Stock No.	A	B	D
E20	IMSLE200	15/16	15/16	1 1/2

Torx/Shallow

#	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

213AFLEY Combination Drive Shallow Torx Set.

Includes 1/4" drive TLE40A thru TLE100A (page 21), 3/8" drive FLE110A thru FLE140A (page 29) and 1/2" drive SLE160A thru SLE240A (page 38) (13 pcs) (E4 to E24).



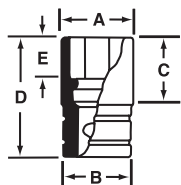
BLPTE1220

Torx Plus/External

#	Stock No.	Length, inches
E18	BLPTE1218	1 1/2
E20	BLPTE1220	1 1/2
E22	BLPTE1222	1 1/2
E24	BLPTE1224	1 1/2

SOCKETS

1/2" Drive Special Application



Double Square, inches

SW420

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

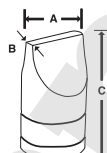
ASME/ANSI B107.1-2002



WH290

Weatherhead®, inches

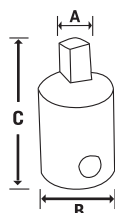
Stock No.	A	B
7/8 WH280	1 3/8	1 13/16
29/32 WH290	1 7/16	1 13/16
15/16 WH300	1 1/2	1 13/16



A26A

Drag Link

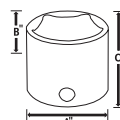
Stock No.	A	B	C
A26A	3/4	.109	1 11/16
A17A	15/16	.150	1 11/16
A15A	1 3/16	.150	1 11/16



PPM516A

Pipe Plug, inches

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



B2191

Flank Drive® Pentagon

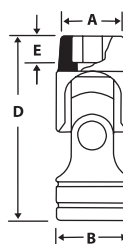
Stock No.	A	B	C
B2191	1 1/8	1/2	1 1/16

B2191 Pentagon Socket. Services recessed 5-point nuts found on tamper resistant Buffalo covers used by gas, electric and water companies to protect shutoff gates.

Universal, inches

Stock No.	A	B	D	E
9/16 SU18	27/32	15/16	2 7/16	11/32
5/8 SU20	15/16	15/16	2 15/32	3/8
11/16 SU22	1 1/16	1 1/16	2 9/16	7/16
3/4 SU24	1 1/8	1 1/8	2 7/8	1/2
13/16 SU26	1 3/16	1 1/8	2 15/16	9/16
7/8 SU28	1 1/4	1 1/8	2 15/16	9/16
15/16 SU30	1 5/16	1 1/8	3	9/16

ASME/ANSI B107.1-1993



SU24



WARNING



- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

1/2" Drive Flank Drive® Impact



Shallow, mm

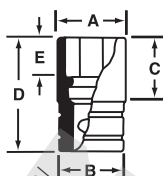
315IMMYA

IMDM150A

Set Contains:

315IMMYA

310IMMYA



mm	6	12	A	B	C	D	E	6	6	12
10	IMM100A	IMDM100A	15	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	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	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	44.5	15.9			
26	IMM260		38.1	38.1	33.3	50.8	15.9			
27	IMM270		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	45.8 (45.7)	45.8 (45.7)	32.1 (36.8)	50.8	22.4 (20.6)			
34	IMM340		47.6	42.9	40.5	52.4	22.4			
36	IMM360	IMDM360	50.5 (50.8)	45.8 (46.0)	40.5 (41.3)	57.2	22.4 (22.2)			
39		IMDM390	53.8	39.6	36.8	50.8	22.3			
46	IMM460		64.8	47.6	50.3	69.9	29.7			

Dimensions in () apply to 12-point sockets only.

Sets shown include storage tray

IMDM320 Applications: Uses include axle nuts on Mercedes W140 chassis 1992 to 1999 SC and SL Class, Porsche Boxer, Cayenne and K944 plus BMW X3, X5 and X6 Series 2007 and later. Other uses include drive shaft nuts on VW Touareg 2003 and later.

IMDM360 Applications: Use 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.

IMDM390 Applications: Use on front axle hub of 2007 Toyota Tundra.



Shallow, inches

311IMYA

IMD200

Set Contains:

311IMYA

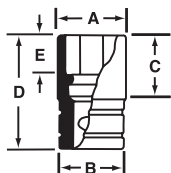
313IMD

307IMDYA

11	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			

SOCKETS

1/2" Drive Flank Drive® Impact



315SIMMYA

Deep, mm

mm	6	A	B	C	D	E	Set Contains:	315SIMMYA	310SIMMYA	305SIMMY	325SIMM
10	SIMM100A	15.0	23.2	66.7	82.6	7.9	•	•	•	•	•
11	SIMM110A	18.2	23.2	66.7	82.6	8.7	•	•	•	•	•
12	SIMM120A	19.0	23.2	66.7	82.6	9.5	•	•	•	•	•
13	SIMM130A	20.6	23.2	66.7	82.6	10.3	•	•	•	•	•
14	SIMM140A	22.2	23.2	66.7	82.6	10.3	•	•	•	•	•
15	SIMM150A	23.8	23.8	50.0	82.6	10.3	•	•	•	•	•
16	SIMM160A	24.6	24.6	50.0	82.6	11.9	•	•	•	•	•
17	SIMM170	25.1	25.1	57.9	82.6	11.2	•	•	•	•	•
18	SIMM180	26.7	26.7	61.0	82.6	12.7	•	•	•	•	•
19	SIMM190	28.3	28.3	61.0	82.6	14.2	•	•	•	•	•
20	SIMM200	29.9	29.9	61.0	82.6	14.2	•	•	•	•	•
21	SIMM210	31.5	31.5	61.0	82.6	14.2	•	•	•	•	•
22	SIMM220	33.1	33.1	71.6	88.9	15.7	•	•	•	•	•
23	SIMM230	33.1	33.1	64.3	88.9	15.9	•	•	•	•	•
24	SIMM240	34.9	34.9	63.5	88.9	15.9	•	•	•	•	•
25	SIMM250	36.5	36.5	63.5	88.9	15.9	•	•	•	•	•
26	SIMM260	34.9	33.3	50.0	88.9	19.8	•	•	•	•	•
27	SIMM270	39.4	39.4	71.0	88.9	20.3	•	•	•	•	•
29	SIMM290	41.3	41.3	71.6	88.9	21.3	•	•	•	•	•
30	SIMM300	42.9	42.9	71.1	88.9	21.6	•	•	•	•	•
32	SIMM320	45.8	45.8	71.1	88.9	22.4	•	•	•	•	•
33	SIMM330	46.0	44.5	72.8	88.9	22.4	•	•	•	•	•
34	SIMM340	49.3	44.5	72.8	88.9	22.6	•	•	•	•	•
35	SIMM350	50.8	45.8	72.8	88.9	22.9	•	•	•	•	•
36	SIMM360	50.8	45.8	72.8	88.9	22.9	•	•	•	•	•

Sets shown include storage tray



313SIMA

Deep, inches

	6	A	B	C	D	E	Set Contains:	313SIMA	309SIMYA	320SIM
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	13/16	29/32	2 5/8	3 1/4	3/8	•	•	•	•
9/16	SIM180A	7/8	29/32	2 5/8	3 1/4	13/32	•	•	•	•
5/8	SIM200	31/32	29/32	2 5/8	3 1/4	15/32	•	•	•	•
11/16	SIM220	1 1/16	1 1/16	2 5/8	3 1/4	1/2	•	•	•	•
3/4	SIM240	1 1/8	1 1/8	2 5/8	3 1/4	9/16	•	•	•	•
13/16	SIM260	1 1/4	1 1/4	2 5/8	3 1/4	19/32	•	•	•	•
7/8	SIM280	1 5/16	1 5/16	2 3/32	3 1/2	9/16	•	•	•	•
15/16	SIM300	1 3/8	1 3/8	2 3/32	3 1/2	3/4	•	•	•	•
1	SIM320	1 7/16	1 7/16	2 7/8	3 1/2	3/4	•	•	•	•
1 1/16	SIM340	1 9/16	1 9/16	2 11/16	3 1/2	25/32	•	•	•	•
1 1/8	SIM360	1 5/8	1 5/8	2 11/16	3 1/2	25/32	•	•	•	•
1 3/16	SIM380	1 11/16	1 1/2	2 11/16	3 1/2	25/32	•	•	•	•
1 1/4	SIM400	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	•	•	•	•

Sets shown include storage tray



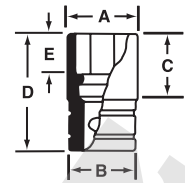
WARNING



• Read safety precautions on pages 594 to 597

SOCKETS

1/2" Drive Flank Drive® Impact



Shallow Thin Wall, inches

311IMFSY

Set Contains: 311IMFSY

		A	B	C	D	E	
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 29/32	1 29/32	1 3/8	2 1/16	13/16	•
1 1/2	IMFS480	2	2	1 3/8	2 1/16	13/16	•



SIMML150



SIML200

Extra Deep, mm

		A	B	C	D	E
15	SIMML150	23.2	26.4	91.4	127.0	10.7



SIMMF21A

Extra Deep/Thin Wall, mm

Sockets are 34% thinner than a standard thin wall socket. Use to access not on long studs and other hard-to-reach areas. Ideal for wheel lugs.

		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	25.4	25.4	50.8	76.2	25.4
21	SIMMF21A	28.6	28.6	50.8	76.2	25.4
22	SIMMF22	30.2	30.2	50.8	76.2	25.4

Extra Deep, inches

		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

ASME/ANSI B107.2-2002

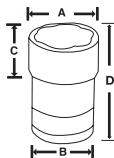
- Use for removing or replacing fuel tank retaining strap nuts
- Also has applications on emergency brake adjustment nuts and stabilizer retainers

1/2" Drive Special Application Impact

- Removes rounded/damaged fasteners



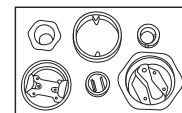
TTWY281A



SPS10



A172A



Twist/Shallow, inches

	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 Shallow Twist Set. TTWY241A thru TTWY321A (5 pcs) (3/4" to 1").

Shackle Pin

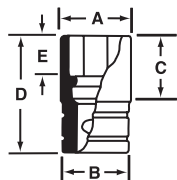
Designed with an oval configuration to service shackle pins on International Harvester and Kenworth semi trucks.

SPS10 41/64" x 1 3/32". 1 3/4" long.
SPS11 21/32" x 1 17/32". 1 3/4" long

Drum Plug

A172A One socket removes virtually all screws 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.

SOCKETS



SIP18A

Deep Swivel, inches

		A	B	D	E
9/16	SIP18A	13/16	1 3/16	3 13/16	11/32
3/4	SIP24A	1 1/32	1 3/16	4 1/4	7/16

1/2" Drive Special Application Impact

Semi-Deep Swivel, mm

		A	B	C	D	E
21	IPSM21	30.0	31.5	33.8	89.2	12.7



IPSM21

IPSM21 Metric Semi Deep Impact Swivel Socket.

Designed for GM and Ford upper control arm bolts. Welded pivot pin reinforces socket wall and allows full 30° of uninterrupted smooth action for efficient power transfer at any angle.

1/2" Drive Flank Drive®/Surface Drive



SPM19

Flank Drive® Deep, mm

		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



DTM15A

Surface Drive Shallow, mm

		A	B	C	D	E
15	DTM15A	22.3	22.9	21.3	38.1	10.7

Surface Drive Deep, mm

		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

Surface Drive Deep, inches

		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 sockets will engage with a fastener while rotating on a power nut runner

1/2" Drive Special Application Power



P412

Shallow Double Square, inches

		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 9/16	7/8	1 1/2	5/8
1	P432	1 23/32	1 3/4	1 1/8	1 3/4	3/4



SIPR426

Deep Double Square, inches

		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



MPK121A

Flank Drive/Magnetic, inches

		A	B	D	E
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



SIPRL436

Extra Deep Double Square, inches

		A	B	C	D	E
1 1/8	SIPRL436	1 15/16	1 1/2	4 13/32	5	27/32



WARNING



- Do not use chrome or power sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

1/2" Drive Flank Drive® Impact Swivel



307IPLMY

IPDLM12

Set Contains:

Shallow Swivel, mm

mm	6	12	A	B	D	E	6
10	IPLM10C		15.6	23.8	73.7	9.7	
11	IPLM11C		17.8	23.8	73.7	9.7	
12	IPLM12C	IPDLM12	18.9	23.8	73.7	9.7	
13	IPLM13C		19.7	23.8	73.7	8.6	
14	IPLM14C		21.3	23.8	73.7	8.6	•
15	IPLM15C		22.6	23.8	73.7	8.6	•
16	IPLM16C	IPDLM16A	24.1	30.2	77.8	10.4	
17	IPLM17C	IPDLM17A	25.6	30.2	77.7	10.4	•
18	IPLM18C	IPDLM18A	26.7	30.2	77.7	10.4	•
19	IPLM19C		28.3	30.2	77.7	11.2	•
21	IPLM21C		31.5	30.2	77.7	12.7	•
22	IPLM22C		33.1	30.2	77.8	14.2	
24	IPLM24C		34.8	30.2	81.0	15.0	•

Set shown includes storage tray



307IPLY

Set Contains:

Shallow Swivel, inches

11	6	12	A	B	D	E	6
1/2	IPL16C	IPDL16	3/4	15/16	2 29/32	11/32	
9/16	IPL18C		13/16	15/16	2 29/32	11/32	•
5/8	IPL20C	IPDL20	7/8	15/16	2 29/32	11/32	•
11/16	IPL22C		31/32	1 3/16	3 1/16	13/32	•
3/4	IPL24C		1 1/32	1 3/16	3 1/16	7/16	•
13/16	IPL26C		1 1/8	1 3/16	3 1/16	1/2	
7/8	IPL28C		1 3/16	1 3/16	3 1/16	9/16	•
15/16	IPL30C		1 9/32	1 3/16	3 1/16	5/8	•
1	IPL32C		1 11/32	1 3/16	3 1/16	11/16	
1 1/16	IPL34C		1 7/16	1 3/16	3 5/32	11/16	
1 1/8	IPL36C		1 1/2	1 3/16	3 11/32	3/4	•
1 3/16	IPL38C		1 9/16	1 3/16	3 11/32	3/4	
1 1/4	IPL40C		1 5/8	1 3/16	3 13/32	13/16	
1 5/16	IPL42C		1 3/4	1 3/16	3 13/32	7/8	

Set shown includes storage tray

3/4" Drive Flank Drive

Shallow, inches

11	12	A	B	C	D	E
3/4	LDH242	1 1/8	1 7/16	1 1/4	2	17/32
13/16	LDH262	1 7/32	1 7/16	1 1/4	2	11/16
7/8	LDH282	1 5/16	1 7/16	1 1/4	2	11/16
15/16	LDH302	1 3/8	1 7/16	1 1/4	2	23/32
31/32	LDH312	1 13/32	1 7/16	1 1/4	2	23/32
1	LDH322	1 15/32	1 1/2	1 5/16	2 1/16	3/4
1 1/16	LDH342	1 9/16	1 1/2	1 3/8	2 1/8	3/4
1 1/8	LDH362	1 5/8	1 1/2	1 7/16	2 3/16	13/16
1 3/16	LDH382	1 11/16	1 1/2	1 1/2	2 1/4	7/8
1 1/4	LDH402	1 3/4	1 1/2	1 1/2	2 1/4	15/16
1 5/16	LDH422A	1 7/8	1 5/8	1 9/16	2 5/16	7/8
1 3/8	LDH442	1 15/16	1 5/8	1 9/16	2 5/16	7/8
1 7/16	LDH462	2	1 5/8	1 5/8	2 3/8	15/16

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Shallow, inches

11	12	A	B	C	D	E
1 1/2	LDH482	2 1/8	1 5/8	1 11/16	2 1/2	1 1/16
1 9/16	LDH502	2 3/16	1 3/4	1 7/8	2 5/8	1 5/32
1 5/8	LDH522	2 1/4	1 3/4	1 7/8	2 5/8	1 5/32
1 11/16	LDH542	2 3/8	1 3/4	2	2 3/4	1 3/16
1 3/4	LDH562	2 7/16	1 3/4	2	2 3/4	1 3/16
1 13/16	LDH582	2 1/2	1 3/4	2 1/8	2 7/8	1 1/4
1 7/8	LDH602	2 9/16	1 3/4	2 1/4	3	1 5/16
2	LDH642	2 3/4	1 3/4	2 3/8	3 1/8	1 3/8
2 1/16	LDH662	2 15/16	1 3/4	2 3/8	3 1/8	1 3/8
2 1/8	LDH682	2 15/16	1 3/4	2 1/2	3 1/4	1 7/16
2 3/16	LDH702	2 15/16	1 3/4	2 1/2	3 1/4	1 1/2
2 1/4	LDH722	3 1/8	1 3/4	2 5/8	3 3/8	1 1/2
2 3/8	LDH762	3 1/4	1 3/4	2 7/8	3 5/8	1 3/4

ASME/ANSI B107.1-1993

3/4" Drive Special Application



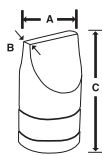
LDHM362

Shallow, mm

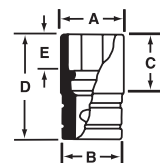
mm	12	A	B	C	D	E
22	LDHM222	31.1	34.6	30.2	50.8	17.1
24	LDHM242	33.4	34.6	31.8	50.8	17.9
27	LDHM272	37.3	39.5	31.8	54.0	19.9
30	LDHM302	41.0	39.8	34.0	57.2	21.8
36	LDHM362	49.3	41.2	35.1	58.7	22.1
41	LDHM412	55.1	44.5	42.9	66.5	26.7



GLD139



LS342



Deep, inches

11	6	A	B	C	D	E
1 1/16	LS342	1 9/16	1 1/2	2 3/4	3 1/2	1

Drag Link, inches

Stock No.	B x A	A	B	D
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

3/4" Drive Flank Drive® Impact

Shallow, mm

mm	6	12	A	B	C	D	E
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		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		34.9	41.1	27.2	50.8	15.2
22	IMM222A		38.1	41.1	27.2	50.8	15.2
23	IMM232A		36.3	41.1	27.2	50.8	16.5
24	IMM242A		39.5	41.1	26.4	50.8	16.5
25	IMM252A		39.6	41.1	26.4	50.8	16.3
26	IMM262A		39.6	41.1	26.4	50.8	17.5
27	IMM272A		42.6	41.1	26.4	50.8	19.0
28	IMM282		44.7	41.1	32.8	57.2	17.5
29	IMM292		46.0	41.1	32.8	57.2	18.0
30	IMM302		47.0	44.5	32.8	57.2	19.1
31	IMM312		49.2	44.5	32.8	57.2	19.1
32	IMM322		50.8	44.5	32.8	57.2	20.6
33	IMM332		50.8	44.5	32.8	57.2	20.3
34	IMM342		50.8	44.5	32.8	57.2	22.4
35	IMM352		54.0	44.5	32.8	57.2	22.4
36	IMM362		54.0	44.5	32.8	57.2	22.4
38	IMM382		57.2	44.5	32.8	57.2	23.9
40	IMM402		59.7	44.5	45.5	69.9	28.4
41	IMM412		60.5	44.5	33.5	57.2	26.2
46	IMM462		66.7	44.5	45.5	69.9	29.0
50	IMM502		71.4	44.5	52.6	76.2	31.0

IMMD202B 12-Point Metric Shallow Impact Socket.
Specific applications include removing the head bolts on Caterpillar C7, C8, C9 and C10 engines.

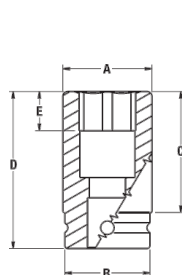
Shallow, inches

	6	12	A	B	C	D	E
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
1 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.

IMD242A Applications: • Most Caterpillar head bolts

• Detroit Diesel main bearing cap bolts • K19 Cummins head bolts



IMM302



IMFDL242

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 Deep Thin Wall Impact Socket

- Clearance on certain Caterpillar head bolts requires a thin walled socket that needs to be a certain length
- Designed to remove the head bolts on Caterpillar C12, C15, C16 and 3406Es where the front 2 and back 2 head bolts are positioned under the valve covers
- Additional applications include Detroit Diesel main bearing cap bolts and 19mm head bolts on Mercedes Benz MBE904 / MBE906 EGR engines (2007 and later)



IM402



IMD302A



SIMDM212

Deep, mm

mm	6	12	A	B	C	D	E
17	SIMM172		28.9	41.1	52.6	76.2	12.7
19	SIMM192		32.4	41.1	51.8	76.2	14.2
21	SIMM212	SIMDM212	34.2 (33.3)	41.1 (41.3)	37.5 (19)	76.2	14.2 (18.3)
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
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
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

* Applications include usage on Stud piloted, Budd style wheels.

Dimensions in () apply to 12-point sockets only.

SIMDM212 Application: Flywheel bolts on Cummins ISX engines.



WARNING



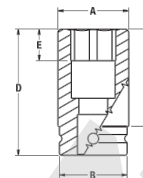
- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/4" Drive Flank Drive® Impact



SIM482



Deep, inches

		A	B	C	D	E
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.



IM243R



IM243P

3/4" Locking Rings and Pins

For use on SIM, IM, IMM and SIMM sockets and other sockets on this page.

Stock No.	Drive Size	Description	Use with
IM182R	3/4"	Rubber Locking Ring	All 3/4" Drive Sockets/Accessories
IMR2	3/4"	Socket Retainer	All 3/4" Drive Sockets/Accessories
Use the following for the IM124B Adaptor:			
IM243R	1"	Locking Ring	1" Drive Sockets/Accessories Up to 13/8"
IM243P	1"	Steel Locking Pin	1" Drive Sockets/Accessories Up to 1 3/8"

1" Drive Flank Drive Impact



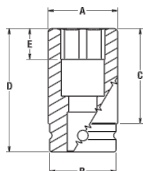
IMM503

Shallow, 6-Point, mm

		A	B	C	D	E
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
36	IMM363	57.2	57.2	34.3	63.5	22.4
35	IMM353	53.8	53.8	33.5	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

SOCKETS

1" Drive Flank Drive® Impact



Shallow, 6-Point, inches

		A	B	C	D	E
7/8	IM283	1 1/2	2 1/8	1	2 1/8	1 1/16
15/16	IM303	1 19/32	2 1/8	1	2 1/8	1 1/16
1	IM323	1 11/16	2 1/8	1 1/16	2 1/4	1 1/16
1 1/8	IM363	1 7/8	2 1/8	1 1/16	2 1/4	1 1/16
1 3/16	IM383	1 7/8	2 1/8	1 1/16	2 1/4	1 1/16
1 1/4	IM403	2	2 1/8	1 3/16	2 3/8	3/4
1 5/16	IM423	2 1/16	2 1/8	1 15/16	2 1/2	7/8
1 3/8	IM443	2 1/8	2 1/8	1 15/16	2 1/2	7/8
1 7/16	IM463	2 1/4	2 1/4	1 7/16	2 1/2	15/16
1 1/2	IM483B	2 3/8	2 1/4	1 7/16	2 5/8	15/16
1 9/16	IM503A	2 3/8	2 1/4	1 7/16	2 5/8	15/16
1 5/8	IM523A	2 3/8	2 1/4	1 5/8	2 3/4	1 1/16
1 11/16	IM543	2 9/16	2 3/8	1 5/8	2 3/4	1 1/16
1 3/4	IM563	2 5/8	2 3/8	1 23/32	2 7/8	1 5/32
1 13/16	IM583	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16
1 7/8	IM603	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16
1 15/16	IM623	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16
2	IM643	3	2 3/8	1 31/32	3 1/8	1 9/32
2 1/16	IM663	3	2 3/8	1 31/32	3 1/8	1 9/32
2 1/8	IM683	3 1/8	2 3/8	2 3/32	3 1/4	1 9/32
2 3/16	IM703	3 1/4	2 3/8	2 5/32	3 11/32	1 7/16
2 1/4	IM723	3 1/4	2 3/8	2 5/32	3 11/32	1 7/16
2 5/16	IM743	3 3/8	2 3/8	2 5/32	3 1/2	1 1/2
2 3/8	IM763	3 1/2	2 3/8	2 5/32	3 1/2	1 1/2
2 7/16	IM783	3 1/2	2 3/8	2 5/32	3 1/2	1 1/2
2 1/2	IM803	3 1/2	2 3/8	2 1/8	3 5/8	1 5/8
2 9/16	IM823	3 5/8	2 3/8	2 1/8	3 5/8	1 5/8
2 5/8	IM843	3 3/4	2 3/8	2 5/16	3 3/4	1 5/8
2 11/16	IM863	3 3/4	2 3/8	2 1/2	4	1 13/16
2 3/4	IM883	3 3/4	2 3/8	2 7/16	4	1 13/16
2 13/16	IM903	4	2 3/8	2 7/16	4	1 13/16
2 7/8	IM923	4	2 3/8	2 7/16	4	1 13/16
2 15/16	IM943	4 1/8	2 3/8	2 5/8	4 1/4	2
3	IM963	4 1/4	2 3/8	2 5/8	4 1/4	2 1/16
3 1/8	IM1003	4 1/4	2 3/8	2 9/16	4 1/4	2 1/16
3 1/4	IM1043	4 1/2	2 3/8	2 9/16	4 1/4	2 1/16
3 3/8	IM1083	4 5/8	2 3/8	2 3/4	4 1/2	2 1/4
3 1/2	IM1123	4 3/4	2 3/8	3	4 3/4	2 1/4
3 5/8	IM1163	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	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	5 1/4	2 3/8	3 1/8	5	2 9/16
3 15/16	IM1263	5 5/8	2 3/8	3 3/8	5 1/4	2 9/16
4	IM1283	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	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	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	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

Deep, mm

		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	88.6	22.4
38	SIMM383	60.3	57.2	59.7	88.9	25.4

* Applications include use on wheel lug nuts on Hub-Piloted wheel systems.



WARNING



• Read safety precautions on pages 594 to 597



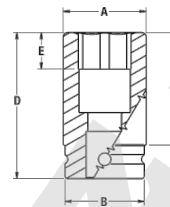
SIMM323

SOCKETS

1" Drive Flank Drive® Impact



SIM563



Deep, inches

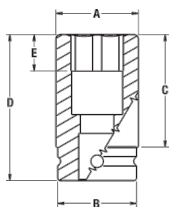
		A	B	C	D	E
7/8	SIM283	1 19/32	2 1/8	1 13/16	3	5/8
15/16	SIM303	1 19/32	2 1/8	1 13/16	3	11/16
1	SIM323	1 19/32	2 1/8	1 13/16	3	3/4
1 1/16	SIM343	1 13/16	2 1/8	1 13/16	3	3/4
1 1/8	SIM363	1 13/16	2 1/8	1 13/16	3	3/4
1 3/16	SIM383	1 13/16	2 1/8	1 13/16	3	3/4
1 1/4	SIM403	2 1/16	2 1/8	2 1/16	3 1/4	7/8
1 5/16	SIM423*	2 1/16	2 1/8	2 1/16	3 1/4	7/8
1 3/8	SIM443	2 1/16	2 1/8	2 1/16	3 1/4	7/8
1 7/16	SIM463A	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	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.

SOCKETS

1" Drive Special Application Impact



Shallow Single Square, inches

	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



IM724

Shallow Double Square, inches

	8	A	B	C	D	E
1 1/4	IM740	2 3/8	2 3/8	1 1/8	2 3/8	13/16



IM740

Shallow Crawler Track Bolt, inches

	6	A	B	C	D	E
3/4	IMT243	1 7/16	2 1/8	15/16	2 1/8	11/16
15/16	IMT303	1 19/32	2 1/8	15/16	2 1/8	11/16



IMT243



IM243R



IM243P

1" Drive Locking Rings and Pins

Stock No.	Drive Size	Description	Use with
IM483R	1" Spline	Rubber Locking Pin, use with IM243R	All Spline Drive Sockets/Accessories 1" Drive Sockets from 1 7/16" and from 35mm
IM243R	1"	Synthetic Rubber Locking Ring for IM243 to IM443 , and SIM233 to SIM353	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IM243P	1"	Steel Locking Pin, use with IM243R	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IMR3	1" Spline	Socket Retainer	All Spline Drive Sockets/Accessories All 1" Drive Sockets/Accessories
IM483P	1" Spline	Steel Locking Pin	All Spline Drive Sockets/Accessories 1" Drive Sockets from 1 7/16" and from 35mm

1 1/2" Drive Flank Drive® Impact

Shallow, 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
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



IMM365



WARNING



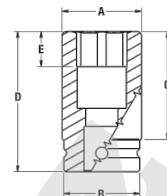
• Read safety precautions on pages 594 to 597

SOCKETS

1 1/2" Drive Flank Drive® Impact

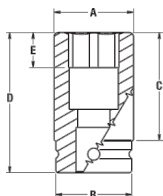


IM445



Shallow, inches

		A	B	C	D	E
1 3/8	IM445	2 7/8	3 1/4	1 3/8	3	1
1 7/16	IM465	2 7/8	3 1/4	1 3/8	3	1
1 1/2	IM485	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	2 7/8	3 1/4	1 3/8	3	1 1/16
1 11/16	IM545	3	3 1/4	1 3/8	3	1 1/16
1 3/4	IM565	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	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	3 1/2	3 1/4	1 7/8	3 1/2	1 1/4
2 1/16	IM665	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	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	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	4 1/16	3 1/4	2 1/2	4 1/4	1 11/16
2 11/16	IM865	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	4 3/8	3 1/4	2 3/8	4 1/4	1 13/16
2 15/16	IM945	4 3/8	3 1/4	2 5/8	4 1/2	1 15/16
3	IM965	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	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



SOCKETS

1 1/2" Drive Flank Drive® Impact



SIM485

Deep, inches

		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



IM243R



IM243P

Locking Rings and Pins for 1 1/2" Extensions, Adaptors, Impact Sockets and 2 1/2" Impact Sockets

Stock No.	Drive Size	Description	Use with
IM243R	1 1/2"	Synthetic Rubber Locking Ring, for IM35	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IM243P	1 1/2" Spline	Steel Locking Pin, for IM35	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IM445R	1 1/2"	Synthetic Rubber Locking Ring, for IM105, IM205, IM59, IP85, and "IGE Series" sockets	All 1 1/2" Drive Sockets/Accessories
IM729P	2 1/2"	Steel Locking Pin, for IM95	All 2 1/2" Drive Sockets



WARNING



• Read safety precautions on pages 594 to 597

SOCKETS

Torx® Bit Sockets



Torx/Standard

#	Stock No.	Stock No.	Square Drive, In.	A	B	
T8	TTX8E	GTTX8E	1/4	1 9/16	TTX8E2	•
T10	TTX10E	GTTX10E	1/4	1 9/16	TTX10E2	•
T15	TTX15E	GTTX15E	1/4	1 9/16	TTX15E2	•
T20	TTX20E	GTTX20E	1/4	1 9/16	TTX20E2	•
T25	TTX25E	GTTX25E	1/4	1 9/16	TTX25E2	•
T27	TTX27E		1/4	1 9/16	FTX27E2	
T30	TTX30E		1/4	1 9/16	FTX30E2	
T40	TTX40E		1/4	1 9/16	FTX40E2	
T27	FTX27E	GFTX27E	3/8	1 3/4	FTX27E2	• •
T30	FTX30E	GFTX30E	3/8	1 3/4	FTX30E2	• •
T40	FTX40E	GFTX40E	3/8	1 3/4	FTX40E2	• •
T45	FTX45E	GFTX45E	3/8	2 1/16	FTX45E2	• •
T50	FTX50E	GFTX50E	3/8	2 1/16	FTX50E2	• •
T55	FTX55E	GFTX55E	3/8	2 1/32	FTX55E2	• •
T60	FTX60E		3/8	2 5/16	FTX60E2	
T55	STX55E		1/2	2 9/16	FTX55E2	
T60	STX60E		1/2	3 11/32	STX60E2	
T70	STX70E		1/2	3 1/2	STX70E2	

Sets shown include storage tray

212EFTXY and **207EFTXY** sets also include the FTX47SE GM Style Torx Socket Driver. **STX70E** Applications: include brake rotor retaining bolts on GM C4500 Trucks (2003 and later) and torque converter drain plug on Subaru, Legacy, Impreza and Forester (2003 and later).



Torx/Long

#	Stock No.	Square Drive, In.	A	B
T8	TTXL8E	1/4	4 1/6	TTXL8E2
T10	TTXL10E	1/4	4 1/6	TTXL10E2
T15	TTXL15E	1/4	4 1/6	TTXL15E2
T20	TTXL20E	1/4	4 1/6	TTXL20E2
T25	TTXL25E	1/4	4 1/6	TTXL25E2
T27	FTXL27E	3/8	4 1/4	FTXL27E2
T30	FTXL30E	3/8	4 1/4	FTXL30E2
T40	FTXL40E	3/8	4 1/4	FTXL40E2
T45	FTXL45E	3/8	4 1/4	FTXL45E2
T50	FTXL50E	3/8	4 1/4	FTXL50E2
T45	STXL45E	1/2	4 5/8	STXL45E2
T50	STXL50E	1/2	4 5/8	STXL50E2
T55	STXL55E	1/2	4 5/8	STXL55E2
T60	STXL60E	1/2	4 5/8	STXL60E2

Torx/Stubby

#	Stock No.	Square Drive, In.	A	B	
T27	FTX27SE	3/8	1 13/32	FTX27SE2	•
T30	FTX30SE	3/8	1 13/32	FTX30SE2	•
T40	FTX40SE	3/8	1 13/32	FTX40SE2	•
T45	FTX45SE	3/8	1 13/32	FTX45SE2	•
T47	FTX47SE	3/8	1 13/32	FTX47SE2	•
T50	FTX50SE	3/8	1 13/32	FTX50SE2	•
T55	FTX55SE	3/8	1 7/16	FTX55SE2	•

Sets shown include storage tray

207EFTXYSE Applications: BMW under dash and sensors in engine compartment. Porsche 911 and Cayenne ignition coil bolts. Honda airbag control module inside passenger compartment of dashboard. Cadillac water pump and oil drain plugs. Various applications on motorcycles.



Torx/Stubby Universal

#	Stock No.	Square Drive, In.	A	
T20	TUTX20E	1/4	1 3/4	•
T25	TUTX25E	1/4	1 3/4	•
T27	TUTX27E	1/4	1 3/4	•
T30	TUTX30E	1/4	1 3/4	•
T40	TUTX40E	1/4	1 3/4	•

Sets shown include storage tray

105TUTX Applications: T40 for Porsche 2005 and newer 911, Boxer Cayenne for ignition coil bolts. T30 for Volvo turbo return lines. T30 for Honda airbag control module inside passenger compartment of dashboard. T30 for pump alignment on Mitsubishi F4A51 transmissions (97 and later). Numerous other applications for Mercedes that require a stubby Torx where a regular Torx bit socket will not fit in T20, T25 and T27.



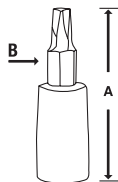
Torx/Heavy Duty Removal

#	Stock No.	Square Drive, In.	A	B	
T15	TTXB15E	1/4	1 9/16	TTXB15E2	•
T20	TTXB20E	1/4	1 9/16	TTXB20E2	•
T25	TTXB25E	1/4	1 9/16	TTXB25E2	•
T27	FTXB27E	3/8	1 13/16	FTXB27E2	•
T30	FTXB30E	3/8	1 13/16	FTXB30E2	•
T40	FTXB40E	3/8	1 13/16	FTXB40E2	•
T45	FTXB45E	3/8	1 1/16	FTXB45E2	•
T50	FTXB50E	3/8	1 1/16	FTXB50E2	•
T55	STXB55E	3/8	1 1/16	STXB55E2	•

Sets shown include storage tray

SOCKETS

Torx® Bit



210EFTXRY

Torx/Tamper Resistant

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
T8	TTXR8E	1/4	1 9/16	TTXR8E2	•
T10	TTXR10E	1/4	1 9/16	TTXR10E2	•
T15	TTXR15E	1/4	1 9/16	TTXR15E2	•
T20	TTXR20E	1/4	1 9/16	TTXR20E2	•
T25	TTXR25E	1/4	1 9/16	TTXR25E2	•
T27	FTXR27E	3/8	1 3/4	FTXR27E2	•
T30	FTXR30E	3/8	1 3/4	FTXR30E2	•
T40	FTXR40E	3/8	1 3/4	FTXR40E2	•
T45	FTXR45E	3/8	2 1/16	FTXR45E2	•
T50	FTXR50E	3/8	2 1/16	FTXR50E2	•



211EFTXRTPY

Torx Plus/ Tamper Resistant

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
8IPR	TTXR8TPE	1/4	1 9/16	TTXR8TPE2	•
10IPR	TTXR10TPE	1/4	1 9/16	TTXR10TPE2	•
15IPR	TTXR15TPE	1/4	1 9/16	TTXR15TPE2	•
20IPR	TTXR20TPE	1/4	1 9/16	TTXR20TPE2	•
25IPR	TTXR25TPE	1/4	1 9/16	TTXR25TPE2	•
27IPR	FTXR27TPE	3/8	1 3/4	FTXR27TPE2	•
30IPR	FTXR30TPE	3/8	1 3/4	FTXR30TPE2	•
40IPR	FTXR40TPE	3/8	1 3/4	FTXR40TPE2	•
45IPR	FTXR45TPE	3/8	2 1/32	FTXR45TPE2	•
50IPR	FTXR50TPE	3/8	2 5/32	FTXR50TPE2	•
55IPR	FTXR55TPE	3/8	2 11/32	FTXR55TPE2	•

211EFTXRTPY Applications: 2003 Ford Mustang transmissions, 2004 Ford F150 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.



FTXEL45E

Special Application Torx (3/8" Drive)

#	Stock No.	Description	A	B
T40	FTXEL40E	Extra Long	7 1/2	FTXEL40E2
T47	FTX47E	GM Style	2 1/16	FTX47E2
T45	FTXEL45E	Extra Long	7 11/16	FTXEL45E2
T40	FTXR40TPE	Tamper Resistant	1 3/4 (44.7)	FTXR40TPE2
T47	GFTX500E	GM Style	2 1/16	GFTX500E2

FTXEL40E Applications include service on intake manifold bolts on Ford 5.0L engines with fuel injection, model years 1985 to 1990.

FTXEL45E 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.

FTX47E For use on GM door strikers.

GFTX500E For use on GM door strikers and seat belt bolts.



WARNING



- Do not use chrome or power sockets with impact drivers
- Read safety precautions on pages 594 to 597



211EFTXTPY

Torx Plus®

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
8IP	TTX8TPE	1/4	1 9/16	TTX8TPE2	•
10IP	TTX10TPE	1/4	1 9/16	TTX10TPE2	•
15IP	TTX15TPE	1/4	1 9/16	TTX15TPE2	•
20IP	TTX20TPE	1/4	1 9/16	TTX20TPE2	•
25IP	TTX25TPE	1/4	1 9/16	TTX25TPE2	•
27IP	FTX27TPE	3/8	1 3/4	FTX27TPE2	•
30IP	FTX30TPE	3/8	1 3/4	FTX30TPE2	•
40IP	FTX40TPE	3/8	1 3/4	FTX40TPE2	•
45IP	FTX45TPE	3/8	2 1/8	FTX45TPE2	•
50IP	FTX50TPE	3/8	2 1/8	FTX50TPE2	•
55IP	FTX55TPE	3/8	2 5/16	FTX55TPE2	•

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.



PFTX30E

Torx/Power Drivers

#	Stock No.	Square Drive, In.	A	B
T20	PTTX20E	1/4	1 9/16	PTTX20E2
T25	PTTX25E	1/4	1 9/16	PTTX25E2
T27	PFTX27E	3/8	1 3/4	PTTX27E2
T30	PFTX30E	3/8	1 3/4	PTTX30E2
T40	PFTX40E	3/8	1 3/4	PTTX40E2
T45	PSTX45E	1/2	2 7/16	PTTX45E2
T50	PSTX50E	1/2	2 7/16	PTTX50E2
T50	PSTX500*	1/2	2 7/16	PTTX500E2
T55	PSTX55E	1/2	2 7/16	PTTX55E2

* GM Style



GFTX500E

SOCKETS

Torx® Bit–Blue-Point®



BLPTORX1410

Torx/Stubby

Set
Contains:

BLPTORX1410

#	Stock No.	Square Drive, in.	A	
T10	BLPTS1410	1/4	3/4	●
T15	BLPTS1415	1/4	3/4	●
T20	BLPTS1420	1/4	3/4	●
T25	BLPTS1425	1/4	3/4	●
T27	BLPTS1427	1/4	3/4	●
T30	BLPTS1430	1/4	3/4	●
T40	BLPTS1440	1/4	3/4	●
T45	BLPTS1445	1/4	3/4	●
T47	BLPTS1447	1/4	3/4	●
T50	BLPTS1450	1/4	3/4	●

Sets shown include storage tray



BLPTS1425TP

Torx/ Tamper Resistant, Stubby

#	Stock No.	Square Drive, in.	A
T8	BLPTS148TP	1/4	3/4
T10	BLPTS1410TP	1/4	3/4
T15	BLPTS1415TP	1/4	3/4
T20	BLPTS1420TP	1/4	3/4
T25	BLPTS1425TP	1/4	3/4
T27	BLPTS1427TP	1/4	3/4
T30	BLPTS1430TP	1/4	3/4
T40	BLPTS1440TP	1/4	3/4
T45	BLPTS1445TP	1/4	3/4
T50	BLPTS1450TP	1/4	3/4

Torx/ Tamper Resistant, Long

#	Stock No.	Square Drive, in.	A
T6	BLPTL146TP	1/4	3 15/16
T7	BLPTL147TP	1/4	3 15/16
T8	BLPTL148TP	1/4	3 15/16
T9	BLPTL149TP	1/4	3 15/16
T10	BLPTL1410TP	1/4	3 15/16
T15	BLPTL1415TP	1/4	3 15/16
T20	BLPTL1420TP	1/4	3 15/16
T25	BLPTL1425TP	1/4	3 15/16
T27	BLPTL1427TP	1/4	3 15/16
T30	BLPTL1430TP	1/4	3 15/16
T40	BLPTL3840TP	3/8	4 3/8
T45	BLPTL3845TP	3/8	4 3/8
T50	BLPTL3850TP	3/8	4 3/8
T55	BLPTL1255TP	1/2	4 5/8
T60	BLPTL1260TP	1/2	4 5/8



BLPTL1425TP



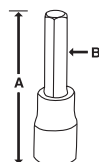
BLPT3820TP

Torx/ Tamper Resistant, Standard

#	Stock No.	Square Drive, in.	A
T6	BLPT146TP	1/4	1 7/16
T7	BLPT147TP	1/4	1 7/16
T8	BLPT148TP	1/4	1 7/16
T9	BLPT149TP	1/4	1 7/16
T10	BLPT1410TP	1/4	1 7/16
T15	BLPT1415TP	1/4	1 7/16
T20	BLPT1420TP	1/4	1 7/16
T25	BLPT1425TP	1/4	1 7/16
T27	BLPT1427TP	1/4	1 7/16
T30	BLPT1430TP	1/4	1 7/16
T10	BLPT3810TP	3/8	1 27/32
T15	BLPT3815TP	3/8	1 27/32
T20	BLPT3820TP	3/8	1 27/32
T25	BLPT3825TP	3/8	1 27/32
T27	BLPT3827TP	3/8	1 27/32
T30	BLPT3830TP	3/8	1 27/32
T40	BLPT3840TP	3/8	2
T45	BLPT3845TP	3/8	2
T50	BLPT3850TP	3/8	2
T55	BLPT3855TP	3/8	2
T55	BLPT1255TP	1/2	2 5/16
T60	BLPT1260TP	1/2	2 5/16

SOCKETS

Hex Bit



211EFAMY



210EFTAMY

Hex/Standard, mm

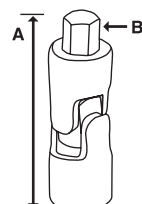
mm		Square Drive, In.	A	B	106ETMAMY	20TEFAMY	210EFTAMY	211EFAMY	307ESAMY
2	TMAM2E	1/4	47.8	TMAM2E2A	•			•	
2.5	TMAM2.5E	1/4	47.8	TMAM2.5E2	•			•	
3	TMAM3E	1/4	47.8	TMAM3E2	•			•	
4	TMAM4E	1/4	47.8	FAM4E2	•			•	
5	TMAM5E	1/4	47.8	FAM5E2	•			•	
6	TMAM6E	1/4	47.8	FAM6E2	•			•	
4	FAM4E	3/8	52.3	FAM4E2		•	•	•	
5	FAM5E	3/8	52.6	FAM5E2		•	•	•	
6	FAM6E	3/8	52.6	FAM6E2		•	•	•	
7	FAM7E	3/8	52.6	FAM7E2		•	•	•	
8	FAM8E	3/8	52.6	FAM8E2		•	•	•	
9	FAM9E	3/8	52.6	FAM9E2		•	•	•	
10	FAM10E	3/8	52.6	SAM10E2		•	•	•	
11	FAM11E	3/8	69.9	FAM11E2				•	
12	FAM12E	3/8	69.9	FAM12E2				•	
13	FAM13E	3/8	69.9	FAM13E2				•	
14	FAM14E	3/8	69.9	FAM14E2				•	
6	SAM6E	1/2	60.5	FAM6E2					•
8	SAM8E	1/2	62	FAM8E2					•
10	SAM10E	1/2	62.8	SAM10E2					•
12	SAM12E	1/2	81	SAM12E2					•
14	SAM14E	1/2	81	SAM14E2					•
17	SAM17E	1/2	93.7	SAM17E2					•
19	SAM19E	1/2	103.1	SAM19E2					•



208EFTAMXSY

Hex/Stubby, mm

mm		Square Drive, In.	A	B	208EFTAMXSY
3	TMAMXS3E	1/4	26.0	TMAMXS3E2	•
4	TMAMXS4E	1/4	27.0	TMAMXS4E2	•
5	TMAMXS5E	1/4	27.0	TMAMXS5E2	•
6	TMAMXS6E	1/4	29.0	TMAMXS6E2	•
7	FAMXS7E	3/8	34.7	FAMXS7E2	•
8	FAMXS8E	3/8	35.7	FAMXS8E2	•
9	FAMXS9E	3/8	36.7	FAMXS9E2	•
10	FAMXS10E	3/8	37.7	FAMXS10E2	•



TUAM6E

Hex/Universal Stubby, mm

mm		Square Drive, In.	A
5	TUAM5E	1/4	38.1
6	TUAM6E	1/4	38.1

Ball Hex/Standard, mm

mm		Square Drive, In.	A	B	208EFTABMY
3	TMABM3E	1/4	47.7	TMABM3E2	•
4	TMABM4E	1/4	47.6	TMABM4E2	•
5	TMABM5E	1/4	47.9	TMABM5E2	•
6	TMABM6E	1/4	47.9	TMABM6E2	•
7	FABM7E	3/8	52.5	FABM7E2	•
8	FABM8E	3/8	52.5	FABM8E2	•
9	FABM9E	3/8	52.5	FABM9E2	•
10	FABM10E	3/8	52.5	FABM10E2	•

Hex/Long, mm

mm		Square Drive, In.	A	B	206EFAML
4	FAML4E	3/8	153.9	FAML4E2	•
5	FAML5E	3/8	153.9	FAML5E2	•
6	FAML6E	3/8	153.9	FAML6E2	•
7	FAML7E	3/8	153.9	FAML7E2	•
8	FAML8E	3/8	153.9	FAML8E2	•
10	FAML10E	3/8	153.4	FAML10E2	•
12	SAM12LE	1/2	98.0	SAM12LE	

SAM12LE Applications: 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.



208EFTABMY



WARNING



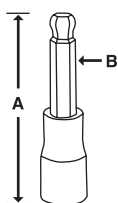
- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

Metric Hex Bit



206EFABLM



Ball Hex/Long, mm

Set Contains: 206EFABLM

mm		Square Drive, In.	A	B	
4	FABLM4E	3/8	129.3	FABLM4E2	•
5	FABLM5E	3/8	128.5	FABLM5E2	•
6	FABLM6E	3/8	128.5	FABLM6E2	•
7	FABLM7E	3/8	128.5	FABLM7E2	•
8	FABLM8E	3/8	127.3	FABLM8E2	•
10	FABLM10E	3/8	128.3	FABLM10E2	•

Set shown includes storage tray

Hex, mm (Power)

mm		Square Drive, In.	A	B
4	PFAM4E	3/8	52.3	FAM4E2
5	PFAM5E	3/8	52.6	FAM5E2
6	PFAM6E	3/8	52.6	FAM6E2
7	PFAM7E	3/8	52.5	FAM7E2
8	PFAM8E	3/8	52.1	FAM8E2
9	PFAM9E	3/8	52.5	FAM9E2
10	PFAM10E	3/8	52.5	SAM10E2

Metric Hex Bit–Blue-Point®



BLPH3810



BLPHEXS1418

Hex, mm

mm		Square Drive, In.	Length, mm
7	BLPH387	3/8	47
8	BLPH388	3/8	50.5
10	BLPH3810	3/8	50.5

Hex/Stubby, mm

mm		Square Drive, In.	A
2	BLPHSM142	1/4	19.05
2.5	BLPHSM142.5	1/4	19.05
3	BLPHSM143	1/4	19.05
4	BLPHSM144	1/4	19.05
5	BLPHSM145	1/4	19.05
6	BLPHSM146	1/4	19.05
7	BLPHSM147	1/4	19.05
8	BLPHSM148	1/4	19.05
9	BLPHSM149	1/4	19.05
10	BLPHSM1410	1/4	19.05

BLPHEXS1418 Hex Driver Set. Includes all BLPHSM metric bit sockets listed above plus all BLPHS SAE bit sockets.

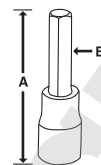
Hex/Stubby, Tamper Resistant, mm

mm	Stock No.	Square Drive, in.	A
2	BLPTHSM142	1/4	3/4
2.5	BLPTHSM142.5	1/4	3/4
3	BLPTHSM143	1/4	3/4
4	BLPTHSM144	1/4	3/4
5	BLPTHSM145	1/4	3/4
6	BLPTHSM146	1/4	3/4
7	BLPTHSM147	1/4	3/4
8	BLPTHSM148	1/4	3/4
9	BLPTHSM149	1/4	3/4
10	BLPTHSM1410	1/4	3/4

BLPHEXS1418 Tamper Resistant Hex Driver Set. Includes all BLPTHSM bit sockets listed above plus all BLPHS SAE bit sockets in storage tray.



FADM8E



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.

Double Hex, mm

mm		Square Drive, In.	A	B
8	FADM8E	3/8	51.3	FADM8E2
8	FADM8LE	3/8	121.9	FADM8LE2
10	SADM10E	1/2	100	SADM10E2

FADM8E / FADM8LE Applications: Removal/installation of head bolts on Toyota Tercel 1995 and later, and Paseo (1992 to 1997).

SADM10E Applications: Removal/installation of head bolts on Toyota Highlander, 4Runner, Camry, Matrix, Corolla and Lexus IS300, GS300, SC300 vehicles.



PFAM6E

SOCKETS

Hex Bit

Hex/Standard, inches

11			Square Drive, In.	A	B	Length with Opt. Long Bit	Optional Long Bit	Set Contains:				
								110ETMAY	208EFAY	208EGFAY	212EFTAY	307ESAY
1/16	TMA2E		1/4	1 7/8	TMA2E2A	6	TMAL2E2	•				
5/64	TMA2.5E	GTMA2.5E	1/4	1 7/8	TMA2.5E2	6	TMAL2.5E2	•				
3/32	TMA3E	GTMA3E	1/4	1 7/8	TMA3E2	6	TMAL3E2	•				
7/64	TMA3.5E		1/4	1 7/8	TMA3.5E2	6	TMAL3.5E2	•				
1/8	TMA4E	GTMA4E	1/4	1 7/8	TMA4E2	6	TMAL4E2	•				
9/64	TMA4.5E		1/4	1 7/8	TMA4.5E2	6	TMAL4.5E2	•				
5/32	TMA5E	GTMA5E	1/4	1 7/8	FA5E2			•				
3/16	TMA6E	GTMA6E	1/4	1 5/16	FA6E2			•				
7/32	TMA7E	GTMA7E	1/4	1 7/8	FA7E2			•				
1/4	TMA8E	GTMA8E	1/4	1 7/8	FA8E2			•				
1/8	FA4E	GFA4E	3/8	2 1/16	TMA4E2		1/4		•	•	•	
9/64	FA4.5E	GFA4.5E	3/8	2 1/16	TMA4.5E2	#8			•	•	•	
5/32	FA5E	GFA5E	3/8	2 1/16	FA5E2	#10	5/16		•	•	•	
3/16	FA6E	GFA6E	3/8	2 1/16	FA6E2	1/4	3/8		•	•	•	
7/32	FA7E	GFA7E	3/8	2 1/16	FA7E2		7/16		•	•	•	
1/4	FA8E	GFA8E	3/8	2 1/16	FA8E2	5/16	1/2		•	•	•	
5/16	FA10E	GFA10E	3/8	2 1/16	FA10E2	3/8	5/8		•	•	•	
3/8	FA12E	GFA12E	3/8	2 3/32	FA12E2	7/16 and 1/2	3/4		•	•	•	
5/16	SA10E	GSA10E	1/2	2 3/8	FA10E2							•
3/8	SA12E	GSA12E	1/2	2 1/2	SA12E2							•
7/16	SA14E	GSA14E	1/2	2 7/8	SA14E2							•
1/2	SA16E	GSA16E	1/2	3 1/16	SA16E2							•
9/16	SA18E	GSA18E	1/2	3 3/16	SA18E2							•
5/8	SA20E	GSA20E	1/2	3 11/32	LAW120E2							•
3/4	SA24E	GSA24E	1/2	4 1/16	LAW124E2							•
5/8	LAW120E		3/4	3 3/4	LAW120E2							
3/4	LAW124E		3/4	4 3/8	LAW124E2							
7/8	IMA283		1	5 5/8	IMA283-2							
1	IMA323		1	5 5/8	IMA323-2							

NOTE: Optional long bits are not included in the listed sets.

Sets shown include storage tray



212EFTAY



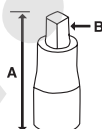
208EGFAY



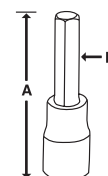
IMA283



208EFTAXSY



206EFAL



Hex/Stubby, inches

11		Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	
1/8	TMAXS4E	1/4	1 1/32	TMAXS4E2			•
9/64	TMAXS4.5E	1/4	1 1/16	TMAXS4.5E2			•
5/32	TMAXS5E	1/4	1 1/16	TMAXS5E2			•
3/16	TMAXS6E	1/4	1 3/32	TMAXS6E2			•
7/32	FAXS7E	3/8	1 5/16	FAXS7E2			•
1/4	FAXS8E	3/8	1 11/32	FAXS8E2	5/16"	1/2"	•
5/16	FAXS10E	3/8	1 13/32	FAXS10E2	3/8"	5/8"	•
3/8	FAXS12E	3/8	1 15/32	FAXS12E2	1/2"	3/4"	•

Set shown includes storage tray

Hex/Extra Long, inches

11		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



WARNING



- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

Hex Bit



208EFTABY

Ball Hex/Standard, inches

Set Contains:

		Square Drive, in.	A	B	
1/8	TMA4E	1/4	1 7/8	TMA4E2	•
9/64	TMA4.5E	1/4	1 7/8	TMA4.5E2	•
5/32	TMA5E	1/4	1 7/8	TMA5E2	•
3/16	TMA6E	1/4	1 7/8	TMA6E2	•
7/32	FAB7E	3/8	2 3/32	FAB7E2	•
1/4	FAB8E	3/8	2 3/32	FAB8E2	•
5/16	FAB10E	3/8	2 3/32	FAB10E2	•
3/8	FAB12E	3/8	2 3/32	FAB12E2	•

Sets shown include storage tray



PFA8E

Hex, inches (Power)

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

Ball Hex/Long, inches

Set Contains:

		Square Drive, in.	A	B	
5/32	FABL5E	3/8	5 1/16	FABL5E2	•
3/16	FABL6E	3/8	5 1/16	FABL6E2	•
7/32	FABL7E	3/8	5 1/16	FABL7E2	•
1/4	FABL8E	3/8	5 1/16	FABL8E2	•
5/16	FABL10E	3/8	5 1/16	FABL10E2	•
3/8	FABL12E	3/8	5 1/16	FABL12E2	•

Sets shown include storage tray



206EFABL

Hex, inches

		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

Hex Bit–Blue-Point®



BLPH1414



BLPHEXS1418

Hex Standard, inches

		Square Drive, in.	A
1/8	BLPH1418	1/4	1 7/16
5/32	BLPH14532	1/4	1 7/16
3/16	BLPH14316	1/4	1 7/16
7/32	BLPH14732	1/4	1 7/16
1/4	BLPH1414	1/4	1 7/16
5/16	BLPH14516	1/4	1 7/16

Hex/Stubby, inches

		Square Drive, in.	A
5/64	BLPHS14564	1/4	3/4
3/32	BLPHS14332	1/4	3/4
7/64	BLPHS14764	1/4	3/4
5/32	BLPHS14532	1/4	3/4
3/16	BLPHS14316	1/4	3/4
7/32	BLPHS14732	1/4	3/4
1/4	BLPHS1414	1/4	3/4
5/16	BLPHS14516	1/4	3/4
3/8	BLPHS1438	1/4	3/4

BLPHEXS1418 Hex Driver Set. Includes all BLPHS bit sockets listed above plus all BLPHSM metric bit sockets in storage tray.

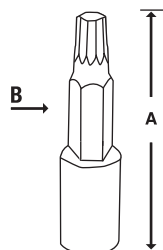
Hex/Stubby, Tamper Resistant, inches

		Square Drive, in.	A
3/32	BLPTHS14332	1/4	3/4
7/64	BLPTHS14764	1/4	3/4
1/8	BLPTHS1418	1/4	3/4
5/32	BLPTHS14532	1/4	3/4
3/16	BLPTHS14316	1/4	3/4
7/32	BLPTHS14732	1/4	3/4
1/4	BLPTHS1414	1/4	3/4
5/16	BLPTHS14516	1/4	3/4
3/8	BLPTHS1438	1/4	3/4

BLPHEXS1418 Tamper Resistant Hex Driver Set. Includes all BLPTHS bit sockets listed above plus all BLPTHSM metric bit sockets in storage tray.

SOCKETS

Triple Square Drivers



Triple Square, mm

Set Contains: TSSKIT

	mm	Stock No.	Square Drive, in.	A	B	
Standard Length	4	FTSM4E	3/8	48.5	FTSM4E2	
	5	FTSM5E	3/8	48.5	FTSM5E2	
	6	FTSM6E	3/8	48.5	FTSM6E2	•
	8	FTSM8E	3/8	58	FTSM8E2	•
	10	FTSM10E	3/8	67.8	FTSM10E2	•
Long	8	FTSM8LE	3/8	84.6	FTSM8LE2	
	10	FTSM10LE	3/8	101.6	FTSM10LE2	
	10	STSM10E	1/2	88.9	STSM10E2	
	12	STSM12E	1/2	109.5	STSM12E2	•
	12	STSM12LE	1/2	147.6	STSM12LE2	
	14	STSM14E	1/2	108.0	STSM14E2	•
	16	STSM16E*	1/2	108.0	STSM16E2	•
	18	STSM18E	1/2	108.0	STSM18E2	

*Tamper Resistant

Set shown includes storage tray

Applications:

FTSM6E (6mm, 3/8" drive) - Various applications on European vehicles.

FTSM8E (8mm, 3/8" drive) - Remove and install head and accessory bolts on Mercedes, and remove and install axle shaft bolts on VW and Audis.

FTSM10E (10mm, 3/8" drive) - Used for cylinder head bolts and drive shaft bolts on Mercedes, and remove and install axle shaft bolts on VW and Audis.

STSM12E (12mm, 1/2" drive) - Remove and install cylinder head bolts on Mercedes, rear toe adjustment on 1999 and newer Audi A6, and axle shaft bolts on new VWs.

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.



TSSKIT

STSM14E Metric Triple Square Driver. Applications include 2003 and later VW Touareg front axle bolts, 2003 and later Porsche Cayenne front axle bolts, various Audi / VW axle bolts plus Audi TT differential mount bolts and transmission drain plugs.

STSM16E Metric Triple Square 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, plus Detroit Diesel flywheel bolts and front crank pulley on 900 and 4000 engines and head bolts on 900 engines.

STSM18E Metric Triple Square Driver. Applications include removing and installing rear axle bolts of 2006 VW Jetta and Golf.

Triple Square Bit-Blue-Point®



BLPXZNM389



Triple Square, mm

Set Contains: BLPXZNM389

mm	Stock No.	Square Drive, in.	
4	BLPXZNM384	3/8	•
5	BLPXZNM385	3/8	•
6	BLPXZNM386	3/8	•
8	BLPXZNM388	3/8	•
10	BLPXZNM3810	3/8	•
12	BLPXZNM3812	3/8	•
14	BLPXZNM3814	3/8	•
16	BLPXZNM3816	3/8	•
18	BLPXZNM3818	3/8	•

Set shown includes storage tray



BLPXZN146



Triple Square/Stubby, mm

mm	Stock No.	Square Drive, in.	A
4	BLPXZN144	1/4	1 1/16
5	BLPXZN145	1/4	1 1/16
6	BLPXZN146	1/4	1 1/16
8	BLPXZN148	1/4	1 1/16
10	BLPXZN1410	1/4	1 1/16
12	BLPXZN1412	1/4	1 1/16



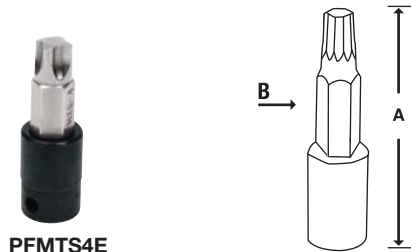
WARNING



• Do not use chrome or industrial finish sockets with impact drivers
• Read safety precautions on pages 594 to 597

SOCKETS

Special Application Bit



PFMTS4E



SPDL10E

Mortorq®/Super Bit

#	Stock No.	Square Drive, In.	A	B
MTS-0	PFMTS0E	3/8		PFMTS0E2
MTS-1	PFMTS1E	3/8	1 3/4	PFMTS1E2
MTS-4	PFMTS4E	3/8	2 1/8	PFMTS4E2

PFMTS1E Socket Driver. Applications: For seat tracks on 2009 Mazda 6. Other seat applications: Cadillac CTS, Nissan Maxima and Altima.

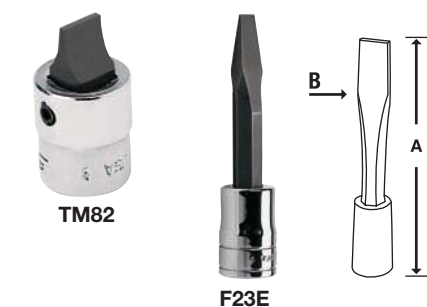
PFMTS4E Socket Driver. Applications: Remove/install the bolts that secure the bell housing to the transmission on GM 4L60 transmissions.

Polydrive Head Bolt, mm

mm	Stock No.	Description	A	B
10	SPDL10E	#10 Polydrive Head Bolt Socket Driver	159	SPDL10E2

SPDL10E Socket Driver. Use to remove and install #10 Polydrive cylinder head bolts on 1998 and later VW/Audi vehicles with 5 valve motors. 1/2" Drive.

Flat Tip Bit



TM82

F23E



GF62E

Flat Tip, inches

		Stock No.	Industrial Stock No.	Square Drive, In.	A	B
Standard Length	3/16 x .032	TMC104E		1/4	2 7/8	TMC104E2
	1/4 x .032	TMC105E		1/4	2 15/16	TMC105E2
	3/8 x .042	TMC106E		1/4	2 7/8	TMC106E2
	1/4 x 1/32	F23E		3/8	3	F23E2
	5/16 x 3/64	F25E	GF25E	3/8	3	F25E2A
	3/8 x 1/16	F31E	GF31E	3/8	3 7/16	F31E2A
	7/16 x .050	SW28E		1/2	3 1/16	SW28E2
	1/2 x .075	SW32E		1/2	3 1/16	SW32E2A
Short	5/8 x .093	SW40E		1/2	3 1/4	SW40E2
	1/4 x .036	TM82		1/4	7/8	TM82-2C
	1/4 x 1/32	F42E		3/8	1 13/16	F42E2
	5/16 x 1/16	F52E		3/8	1 13/16	F52E2
	3/8 x 1/16	F62E	GF62E	3/8	1 27/32	F62E2

Flat Tip-Blue-Point®, inches

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

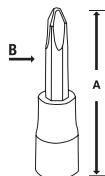


BLPFT14732

BLPFS1438

SOCKETS

Phillips®/Pozidriv® Clutch Bit



Phillips/Standard

		Stock No.	Industrial Stock No.	Square Drive, In.	A	B
Standard Length	#1	TMP12E	GTMP12E	1/4	1 7/8	TMP12E2
	#2	TMP22E		1/4	1 7/8	FP22E2
	#2	FP22E	GFP22E	3/8	2 1/16	FP22E2
	#3	FP32E		3/8	2 5/16	FP32E2
	#4	FP41E		3/8	1 21/32	FP41E2
	#3	SP32E		1/2	2 3/16	SP32E2
Short	#4	SP42E		1/2	2 5/16	SP42E2
	#2	TMP21E		1/4	1 1/4	TMP21E2
	#2	TMP82		1/4	15/16	TMP82-2B
Long	#3	FPS32E		3/8	1 29/32	SP32E2
	#2	TMP23E		1/4	3 1/16	TMP23E2
	#2	FP24E		3/8	4 1/32	FP24E2
	#3	FP34E		3/8	4 1/32	FP34E2
	#3	FP42E		3/8	2 9/16	FP42E2



GFP22E



FPS32E



BLPP383

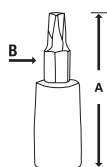


FP34E

Phillips-Blue-Point®

		Stock No.	Square Drive, In.	A
Standard Length	#0	BLPP140	1/4	1 7/16
	#1	BLPP141	1/4	1 7/16
	#2	BLPP142	1/4	1 7/16
	#3	BLPP383	3/8	1 27/32
	#4	BLPP384	3/8	1 27/32
Stubby	#1	BLPPS141	1/4	3/4
	#2	BLPPS142	1/4	3/4

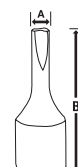
Pozidriv and Clutch® Drivers



FPD32E



BLPPD383



F29E

Pozidriv

#	Stock No.	Square Drive, In.	A	B
#2	FPD22E	3/8	2 1/16	FPD22E2
#3	FPD32E	3/8	2	FPD32E2
#4	FPD41E	3/8	1 11/16	FPD41E2

Pozidriv

Size	Stock No.	Square Drive, In.	A
#3	BLPPD383	3/8	1 27/32
#4	BLPPD384	3/8	1 27/32

Clutch, Standard Length

		Square Drive, In.	A	B
3/16	TM27E	1/4	3/16	1 3/8
1/4	TM30E	1/4	1/4	1 3/8
5/32	TM31E	1/4	5/32	1 3/8
3/8	F29E	3/8	3/8	1 3/4
5/16	F30E	3/8	19/64	1 3/4

Bit Holder and 1/4" Bits-Blue-Point

Stock No.	Description	Size	Stock No.	Description	Size
BLPTMBS1414	Bit Holder (for 1/4" hex bits)		BLPTB20TP	Tamper Resistant Torx® Bit	T20
BLPTMBS3814	Bit Holder (for 1/4" hex bits)	3/8"	BLPTB25TP	Tamper Resistant Torx Bit	T25
BLPHB18	Hex Bit	1/8"	BLPTB30TP	Tamper Resistant Torx Bit	T30
BLPHB964	Hex Bit	9/64"	BLPFB532	Flat Tip Bit	5/32"
BLPHB532	Hex Bit	5/32"	BLPFB732	Flat Tip Bit	7/32"
BLPHB316	Hex Bit	3/16"	BLPFB932	Flat Tip Bit	9/32"
BLPHB732	Hex Bit	7/32"	BLPFB316	Flat Tip Bit	3/16"
BLPHB14	Hex Bit	1/4"	BLPFB14	Flat Tip Bit	1/4"
BLPHBM3	Metric Hex Bit	3mm	BLPPB0	Phillips Tip Bit	#0
BLPHBM4	Metric Hex Bit	4mm	BLPPB1	Phillips Tip Bit	#1
BLPHBM5	Metric Hex Bit	5mm	BLPPB2	Phillips Tip Bit	#2
BLPHBM6	Metric Hex Bit	6mm	BLPPB3	Phillips Tip Bit	#3
BLPTB10TP	Tamper Resistant Torx Bit	T10	BLPSQB1	Square Tip Bit	#1
BLPTB15TP	Tamper Resistant Torx Bit	T15	BLPSQB2	Square Tip Bit	#2



BLPTMBS1414



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages 594 to 597

SOCKETS

3/8" and 1/2" Impact Drivers and Sets



208EPIT



PIT2230E



PIT160



PIT3120EB

3/8" Drive Impact Sets

208EPIT Set. 8 pcs Includes:

Stock No.	Description
PIT120	Impact Driver
F42E	1/4" Flat Tip Driver
F52E	5/16" Flat Tip Driver
F62E	3/8" Flat Tip Driver
FP22E	#2 Phillips® Driver
FP32E	#3 Phillips® Driver
FP42E	#4 Phillips® Driver
FPD22E	#2 Pozidriv® Driver
PB108A	Storage Case

PIT120 Impact Driver.

Delivers cam action impact when struck with a hammer for loosening or tightening fasteners. Industrial finish.

PIT2230E Impact Driver Set.

Includes PIT120 impact driver plus all sockets, screwdrivers and replacement bits (24 pcs) conveniently displayed in a storage tray that fits in the KRA142 metal box.

PIT2230E Set. 24 pcs Includes:

Stock No.	Description
PIT120	Impact Driver
FA6E	3/16" Hex Driver w/extra FA6E2 Bit
FA7E	7/32" Hex Driver w/extra FA7E2 Bit
FA8E	1/4" Hex Driver w/extra FA8E2 Bit
FA10E	5/16" Hex Driver w/extra FA10E2 Bit
FA12E	3/8" Hex Driver w/extra FA12E2 Bit
F42E	1/4" Flat Tip Driver w/extra F42E2 Bit
F52E	5/16" Flat Tip Driver w/extra F52E2 Bit
F62E	3/8" Flat Tip Driver w/extra F62E2 Bit
FP22E	#2 Phillips® Driver w/extra FP22E2 Bit
FP32E	#3 Phillips® Driver w/extra FP32E2 Bit
FP41E	#4 Phillips® Driver w/extra FP41E2 Bit
FP42E	#4 Phillips® Driver w/extra FP42E2 Bit
F29E	3/8" Clutch Driver
F30E	5/16" Clutch Driver
FPD22E	#2 Pozidriv® Driver
IMF120A	3/8" 6-point Impact Socket
IMF140A	7/16" 6-point Impact Socket
IMF160	1/2" 6-point Impact Socket
IMF180	9/16" 6-point Impact Socket
IMF200	5/8" 6-point Impact Socket
IMF220	11/16" 6-point Impact Socket
IMF240	3/4" 6-point Impact Socket
GF22	11/16" Drag Link Socket
KRA142	Metal Box

1/2" Drive Impact Sets

Stock No.	Description
PIT160	Impact Driver
A26A	Drag Link Socket
SA10E	5/16" Hex Head Driver
SA12E	3/8" Hex Head Driver
SA14E	7/16" Hex Head Driver
SA16E	1/2" Hex Head Driver
SA18E	9/16" Hex Head Driver
SA20E	5/8" Hex head Driver
SP32E	#3 Phillips® Driver
SP42E	#3 Phillips® Driver
SW28E	7/16" x .050" Socket Driver
SW32E	1/2" x .075" Socket Driver
KRA142	Metal Box

Includes:

PIT160 This 1/2" drive unit delivers cam action impact when struck with a hammer. U.S. Fed. Spec. GGG-W-641E.

PIT3120EB Impact Driver Set. PIT160 impact driver plus sockets and socket drivers (12 pcs) in KRA142 metal box.

Combination Bit Sets–Blue-Point®



BLPBSS40

1/4" Drive Stubby Bit Socket Set (40 pcs.)

	Stock No.	Size
Torx Tamper Resistant	BLPTS148TP	TP8
	BLPTS1410TP	TP10
	BLPTS1415TP	TP15
	BLPTS1420TP	TP20
	BLPTS1425TP	TP25
	BLPTS1427TP	TP27
	BLPTS1430TP	TP30
	BLPTS1440TP	TP40
	BLPTS1445TP	TP45
	BLPTS1450TP	TP50
Triple Square	BLPXZN144	XZN4
	BLPXZN145	XZN5
	BLPXZN146	XZN6
	BLPXZN148	XZN8
	BLPXZN1410	XZN10
	BLPXZN1412	XZN12
Flat Tip	BLPFS1414	1/4" Wide
	BLPFS1438	3/8" Wide
Phillips®	BLPPS141	P1
	BLPPS142	P2
Hex, inches	BLPHS14564	5/64"
	BLPHS14332	3/32"
	BLPHS14764	7/64"
	BLPHS1418	1/8"
	BLPHS14532	5/32"
	BLPHS14316	3/16"
	BLPHS14732	7/32"
	BLPHS1414	1/4"
	BLPHS14516	5/16"
	BLPHS1438	3/8"
Hex, mm	BLPHSM142	2mm
	BLPHSM142.5	2.5mm
	BLPHSM143	3mm
	BLPHSM144	4mm
	BLPHSM145	5mm
	BLPHSM146	6mm
	BLPHSM147	7mm
	BLPHSM148	8mm
	BLPHSM149	9mm
	BLPHSM1410	10mm
	BLPCSS400PB Storage Case	



BLPTSSC43

Combination Torx®/Socket and Bit Socket Set (43 pcs.)

	Stock No.	Size	Drive Size, 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"
	BLPT1255TP	T55	1/2"
Torx Tamper Resistant Long Bit Sockets	BLPT1260TP	T60	1/2"
	BLPTL146TP	T6	1/4"
	BLPTL147TP	T7	1/4"
	BLPTL148TP	T8	1/4"
	BLPTL149TP	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"
	BLPTL1255TP	T55	1/2"
	BLPTL1260TP	T60	1/2"
	BLPTSSC43PB Storage Case		



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages 594 to 597