

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 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 full range of sockets to meet customer needs.

Sizes ranging from 1/4" to 2 1/2" drive

Standard, semi-deep and deep

Single and double hex

Chrome/impact/swivel: deep, semi-deep and shallow

Specialty sockets such as low profile, twist and magnetic

***Snap-on* bit sockets are available in a variety of configurations**

Bit lengths ranging from 3/4" to 7"

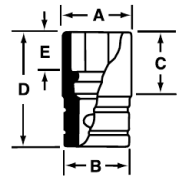
Standard, stubby and long lengths

Hex, double hex and ball hex



SOCKETS

1/4" Drive (Flank Drive®)



Shallow, mm

mm	Set Contains:		112TMMY					111TMMDY	
	6	12	A	B	C	D	E	6	12
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
*ASME® B107.5m

Sets shown include magnetic storage tray

Shallow, inches

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

*Conventional hex
ASME B107.1

Sets shown include magnetic storage tray

120STTM 6 Point Shallow/Deep Set.

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



Semi Deep, mm

mm	Set Contains:		112TMMSY					112TMMDSY	
	6	12	A	B	C	D	E	6	12
5	TMMS5*	TMMDS5*	7.7	12.1	22.9	31.8	5.1	•	•
5.5	TMMS5.5*	TMMDS5.5	8.3	12.1	22.9	31.8	5.3	•	•
6	TMMS6	TMMDS6	9.3	12.1	22.9	31.8	5.8	•	•
7	TMMS7	TMMDS7	10.5	12.1	22.9	31.8	6.1	•	•
8	TMMS8	TMMDS8	11.5	12.1	18.4	31.8	6.9	•	•
9	TMMS9	TMMDS9	12.7	12.1	18.4	31.8	7.4	•	•
10	TMMS10	TMMDS10	14.0	13.2	18.4	31.8	7.4	•	•
11	TMMS11	TMMDS11	15.4	14.6	18.4	31.8	9.4	•	•
12	TMMS12	TMMDS12	16.5	15.6	18.4	31.8	9.4	•	•
13	TMMS13	TMMDS13	17.6	16.7	18.4	31.8	9.4	•	•
14	TMMS14	TMMDS14	18.8	17.8	18.4	31.8	9.7	•	•
15	TMMS15	TMMDS15	20.4	19.4	18.4	31.8	9.7	•	•

*Conventional hex

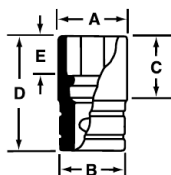
Sets shown include magnetic storage tray

Semi Deep, inches

in	Set Contains:		110TMMSY					110TMMDSY	
	6	12	A	B	C	D	E	6	12
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
*ASME B107.1

Sets shown include magnetic storage tray



Deep, mm

mm	Set Contains:							111STMMDY 112STMMY	
	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*	STMMD5*	7.7	12.1	42.2	50.8	5.1	•	•
5.5	STMM5.5	STMMD5.5	8.3	12.1	42.2	50.8	5.3	•	•
6	STMM6	STMMD6	9.3	12.1	42.2	50.8	5.8	•	•
7	STMM7	STMMD7	10.5	12.1	42.2	50.8	6.1	•	•
8	STMM8	STMMD8	11.5	12.1	42.2	50.8	6.9	•	•
9	STMM9	STMMD9	12.7	12.1	38.1	50.8	7.4	•	•
10	STMM10	STMMD10	14.0	13.2	38.1	50.8	7.4	•	•
11	STMM11	STMMD11	15.2	14.6	38.1	50.8	9.4	•	•
12	STMM12	STMMD12	16.5	15.6	38.1	50.8	9.4	•	•
13	STMM13	STMMD13	17.6	16.7	38.1	50.8	9.4	•	•
14	STMM14	STMMD14	18.8	17.8	38.1	50.8	9.7	•	•
15	STMM15		20.4	19.4	38.1	50.8	9.1	•	•



112STMMY



STMMD14

*Conventional hex Sets shown include magnetic storage tray

124STTMM Metric 6 Point Shallow/Deep Set.

- TMM4 to TMM14 shallow sockets (except TMM4.5) (pg 18) plus STM4 to STM14 Deep Sockets (except STM4.5) (pg 19)
- 24 pcs
- 4, 5 to 14 mm

Deep, inches

In	Set Contains:									110STMDY 110STMY	
	6	12	6	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	STM6*	STMD6*	GSTM6	GSTMD6*	9/16	15/32	1 21/32	2	3/16	•	•
7/32	STM7*	STMD7*	GSTM7	GSTMD7*	11/32	15/32	1 21/32	2	7/32	•	•
1/4	STM8	STMD8	GSTM8	GSTMD8	3/8	15/32	1 21/32	2	7/32	•	•
9/32	STM9	STMD9	GSTM9	GSTMD9**	13/32	15/32	1 21/32	2	1/4	•	•
5/16	STM10	STMD10	GSTM10	GSTMD10**	15/32	15/32	1 21/32	2	7/32	•	•
11/32	STM11	STMD11	GSTM11	GSTMD11	1/2	15/32	1 21/32	2	9/32	•	•
3/8	STM12	STMD12	GSTM12	GSTMD12	17/32	9/16	1 21/32	2	9/32	•	•
7/16	STM14	STMD14	GSTM14	GSTMD14	5/8	9/16	1 21/32	2	3/8	•	•
1/2	STM16	STMD16	GSTM16	GSTMD16	11/16	21/32	1 21/32	2	3/8	•	•
9/16	STM18	STMD18		GSTMD18	3/4	23/32	1 21/32	2	3/8	•	•

*Conventional hex Sets shown include magnetic storage tray

**Larger bolt clearance diameter for servicing aerospace fasteners



110STMY



STMD16 GSTMD14

Long, mm

mm	Set Contains:							6
	6	12	A	B	C	D	E	
10	STMML10		14	13.2	33.0	101.6	7.4	•
11	STMML11		15.2	14.6	33.0	101.6	9.4	•

Set shown includes storage tray

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



102STMML



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

SOCKETS

1/4" Drive Low Profile



Low Profile, mm

mm	Hex	A	B	C	D	E	Set Contains:			
							112RTSM	110RTSMA	112RTM	
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	•	•	•	
14	RTSM14	18.7	12.1	6.4	19.3	5.8				
15	RTSM15	20.3	12.1	6.3	20.3	6.4				
	RAT72	Low Profile Ratchet						•		•
	RTMBS8	Low Profile Magnetic Bit Holder						•		•

Sets shown include storage tray

Low Profile, inches

Inch	Hex	A	B	C	D	E	Set Contains:		
							112RT	110RT	
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						•	
	RTMBS8	Low Profile Magnetic Bit Holder						•	

Sets shown include storage tray



SDMS17



RTMBS8

Stubby Bits and Bit Holder

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

RTMBS8 Low Profile Magnetic Bit Holder.

- Magnetic Bit Holder for the Low Profile RAT72 Ratcheting Wrench
- Special alloy steel provides the highest match of strength and durability
- Nickel-chrome plating provides corrosion resistance
- Holds any 1/4" shank bit: fractional and metric hex bits, TORX® and ball TORX, Phillips and straight bits
- Fits in any 11 mm ratcheting wrench

Applications:

Perfect for tight and compact applications found on automotive, motorcycle, ATV and aviation.

Examples of some automotive applications: heater boxes and motor actuators in dash of vehicle, air conditioning work and on top of dash board where the windshield meets the dash.

1/4" Drive (Blue-Point®)



BLPSM145



BLPSM149



BLPSM1412



BLPLS1414



BLPLS14716

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

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



BLPLSM145



BLPLSM1412



BLPLS1414



BLPLS1412

Deep, mm

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

Deep, inches

#	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



BLPTE145

Double Square

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

External Torx®

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



WARNING



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

SOCKETS

1/4" Drive



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

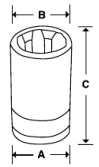
213AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg. 30) and 1/2" drive SLE160A to SLE240A (pg 40) (13 pcs) (E4 to E24)

210AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A to TLE80A (pg 22) plus 3/8" drive FLE100A to FLE180A (except FLE110A) (pg 30) (10 pcs) (E4 to E18).

Note: Sets shown include magnetic storage tray



STLE50

Torx/Deep

#	Stock No.	A	B	C
E4	STLE40	15/32	9/32	2
E5	STLE50	15/32	5/16	2
E8	STLE80	15/16	13/32	2



106RTLE

Low Profile Inverted Torx

Set Contains:

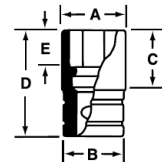
106RTLE

#	Stock No.	A (mm)	B (mm)	C (mm)
E4	RTLE40	12.1	6.7	16.5
E5	RTLE50	12.1	7.7	16.5
E6	RTLE60	12.1	8.4	16.5
E7	RTLE70	12.1	9.3	16.5
E8	RTLE80	12.1	10.5	16.6
E10	RTLE100	12.1	12.1	17.4

Set shown includes storage tray



TM412



Double Square

#	Stock No.	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)
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" and 3/8" Drive Shallow/Deep Combination Sets



120STTM



124STTMM



222SFFS



224SFFSM

1/4" Drive

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

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

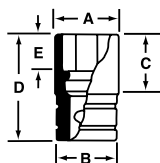
3/8" Drive

222SFFS 6 Point Shallow/Deep Set. FS081 to FS281 shallow sockets (except FS111) (pg 26) plus SFS081 to SFS281 deep sockets (except SFS111) (1/4 to 7/8") (22 pcs) (pg 27).

224SFFSM Metric 6 Point Shallow/Deep Set. FSM81 to FSM191 shallow sockets (pg 26) plus SFSM8 to SFSM19 deep sockets (pg 27) (24 pcs) (8 to 19 mm).

SOCKETS

1/4" Drive Impact



112IMTMM



112SITMM

Shallow, mm

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

Set includes magnetic storage tray

Deep, mm

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

Set includes magnetic storage tray



106IMTM

Shallow, inches

#	6	A	B	C	D	E	6
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	•

ASME®/ANSI® B107.2



106SITM

Deep, inches

#	6	A	B	C	D	E	6
1/4	SITM8	13/32	15/32	1 1/2	2	1/4	•
5/16	SITM10	1/2	1/2	1 1/2	2	1/4	•
3/8	SITM12	9/16	9/16	1 1/2	2	1/4	•
7/16	SITM14	21/32	21/32	1 1/2	2	1/4	•
1/2	SITM16	11/16	11/16	1 1/2	2	9/32	•
9/16	SITM18	13/16	13/16	1 1/2	2	11/32	•

ASME/ANSI B107.2

Set includes magnetic storage tray

1/4" Drive Torx® Impact

Torx/Shallow

#	6	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



IMTLE40A

1/4" Drive (Flank Drive®) Magnetic Power



MGMM10

Shallow Magnetic, mm

mm	6	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

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



WARNING



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

SOCKETS

1/4" Drive (Flank Drive®) Magnetic Power



MGMMS11B

Deep Magnetic, mm

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



MGMS10A

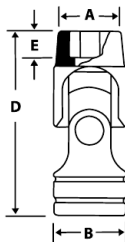
Deep Magnetic, inches

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

1/4" Drive (Flank Drive) Universal



TMUM8A



TMUS161A



GTMU141A



111TMUSMA



106TMUSA

Shallow Universal, mm

mm	Set Contains:		A	B	D	E	111TMUSMA	
	6	12					6	6
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	•	•

*Conventional hex

Sets shown include storage tray

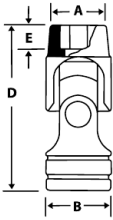
Shallow Universal, inches

in	Set Contains:		A	B	D	E	106TMUSA	
	6	12					6	12
3/16		TMU61A*	19/64	1/2	1 17/64	1/4		
7/32		TMU71A*	11/32	1/2	1 17/64	1/4		
1/4	TMUS81A	TMUM81B	3/8	1/2	1 17/64	1/4	•	•
9/32		TMU91A	27/64	1/2	1 5/16	9/32		
5/16	TMUS101A	TMUM101A	15/32	1/2	1 11/32	9/32	•	•
11/32		TMU111A	1/2	1/2	1 3/8	9/32		
3/8	TMUS121A	TMUM121A	17/32	1/2	1 27/64	9/32	•	•
7/16	TMUS141A	TMUM141A	19/32	1/2	1 29/64	13/32	•	•
1/2	TMUS161A	TMUM161A	11/16	1/2	1 33/64	13/32	•	•
9/16	TMUS181A	TMUM181A	3/4	1/2	1 35/64	13/32	•	•

*Conventional hex

Sets shown include storage tray

1/4" Drive (Flank Drive®) Universal



Deep Universal, mm

STMUM10A

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

Deep Universal, inches

GSTMU101A

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

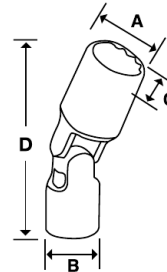
1/4" Drive Torx® Universal



#	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.



TSE120

1/4" Drive (Flank Drive) Impact Swivel



106IPTMM



106IPTM

Shallow Swivel, mm

Set Contains: 106IPTMM

mm	6	A	B	D	E	6
5	IPTMM5	8.6	15.4	35.4	4.1	
5.5	IPTMM5.5	9.5	15.4	35.8	4.1	
6	IPTMM6	10.7	15.4	36.2	4.1	
7	IPTMM7	11.5	15.4	37.4	4.3	
8	IPTMM8	12.7	15.4	38.6	4.8	•
9	IPTMM9	13.9	15.4	39.7	5.3	
10	IPTMM10	15.2	15.4	41.0	5.8	•
11	IPTMM11	16.4	15.4	42.5	6.4	
12	IPTMM12	17.3	17.9	44.9	6.9	•
13	IPTMM13	18.7	17.9	46.1	7.4	•
14	IPTMM14	20.4	17.9	47.6	7.8	•
15	IPTMM15	21.1	17.9	48.1	7.8	•

Set includes storage tray (not magnetic)

Shallow Swivel, inches

Set Contains: 106IPTM

11	6	A	B	D	E	6
1/4	IPTM8	27/64	39/64	1 27/64	5/32	•
5/16	IPTM10	1/2	39/64	1 1/2	3/16	•
3/8	IPTM12	35/64	39/64	1 13/16	7/32	•
7/16	IPTM14	41/64	39/64	1 13/16	1/4	•
1/2	IPTM16	45/64	46/64	1 13/16	19/64	•
9/16	IPTM18	51/64	45/64	1 7/8	5/16	•

Set includes storage tray (not magnetic)



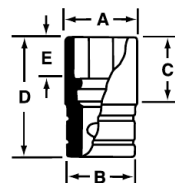
WARNING



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

SOCKETS

3/8" Drive (Flank Drive®)



212FSMY



FM14



GFM9A

Shallow, mm

Set Contains:

212FSMY
212FMY

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	30.9	12.4		
21	FSM211	FM21		27.4	26.4	17.4	31.8	12.2		
22	FSM221	FM22		28.3	27.2	17.4	32.5	13.2		
23	FSM231	FM23		29.9	28.8	18.2	33.8	13.2		
24	FSM241	FM24		31.5	30.5	19.0	35.0	14.4		
25	FSM251			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 magnetic storage tray

224SFFSM Metric 6 Point Shallow/Deep Set. FSM81 to FSM191 shallow sockets (pg 26) plus SFSM8 to SFSM19 deep sockets (pg 27) (24 pcs) (8 to 19 mm).



211FSY



F201



GF201

Shallow, inches

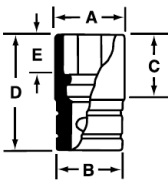
Set Contains:

211FSY
214FSY
211FY

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

Sets shown include magnetic storage tray

222SFFS 6 Point Shallow/Deep Set. FS081 to FS281 shallow sockets (except FS111) (pg 26) plus SFS081 to SFS281 deep sockets (except SFS111) (1/4 to 7/8") (22 pcs) (pg 27).



Semi Deep, mm

mm	Set Contains:		212FSMSY					6
	6	12	A	B	C	D	E	
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 magnetic storage tray

Semi Deep, inches

In	Set Contains:		211FSSY					6
	6	12	A	B	C	D	E	
1/4	FSS081		13/32	11/16	1 1/8	1 5/8	7/32	•
9/32		FDS091	7/16	11/16	3/4	1 1/4	7/32	
5/16	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	FDS201	27/32	51/64	31/32	1 5/8	13/32	•
11/16	FSS221	FDS221	15/16	7/8	31/32	1 5/8	7/16	•
3/4	FSS241	FDS241	1	15/16	31/32	1 5/8	15/32	•
25/32		FDS251	1 1/16	1 1/32	1 1/16	1 5/8	5/8	
13/16	FSS261	FDS261	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	•
15/16		FDS301	1 1/4	1 7/32	1 3/16	1 3/4	23/32	
1		FDS321	1 5/16	1 9/32	1 1/4	1 3/4	3/4	

Set shown includes magnetic storage tray



Deep, mm

mm	Set Contains:		212SFSMY					212SFM19		
	6	12	A	B	C	D	E	6	12	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 magnetic storage tray

Deep, inches

In	Set Contains:		212SFSMY		212SFM19		211SFSY		211SFSY		211SFSY	
	6	12	6	12	A	B	C	D	E	6	12	12
1/4	SFS081	SF081	GSFS081	GSF081	15/32	11/16	1 11/16	2 1/8	1/4	•	•	•
9/32		SF091			7/16	11/16	1 5/8	2 1/8	7/32			
5/16	SFS101	SF101	GSFS101	GSF101	15/32	11/16	1 11/16	2 1/8	7/32	•	•	•
11/32	SFS111	SF111			1/2	11/16	1 11/16	2 1/8	9/32			
3/8	SFS121	SF121	GSFS121	GSF121	9/16	11/16	1 11/16	2 1/8	5/16	•	•	•
7/16	SFS141	SF141	GSFS141	GSF141	5/8	11/16	1 11/16	2 1/8	3/8	•	•	•
1/2	SFS161	SF161	GSFS161	GSF161	23/32	11/16	1 11/16	2 1/8	7/16	•	•	•
9/16	SFS181	SF181	GSFS181	GSF181	25/32	23/32	1 29/32	2 3/8	7/16	•	•	•
19/32		SF191			13/16	25/32	1 29/32	2 3/8	7/16			•
5/8	SFS201	SF201	GSFS201	GSF201	27/32	13/16	1 29/32	2 3/8	15/32	•	•	•
11/16	SFS221	SF221	GSFS221	GSF221	15/16	7/8	2 3/16	2 5/8	1/2	•	•	•
3/4	SFS241	SF241	GSFS241	GSF241	1	1	2 3/16	2 5/8	5/8	•	•	•
25/32		SF251			1 1/16	1 1/32	1 3/4	2 5/8	5/8			
13/16	SFS261	SF261	GSFS261	GSF261	1 1/16	1	2 1/4	2 3/4	5/8	•	•	•
7/8	SFS281	SF281	GSFS281	GSF281	1 5/32	1 1/8	2 1/4	2 3/4	23/32	•	•	•
15/16	SFS301	SF301	GSFS301	GSF301	1 1/4	1 3/16	2 1/4	2 3/4	23/32			•
1	SFS321	SF321	GSFS321	GSF321	1 5/16	1 1/4	2 1/4	2 3/4	13/16			•

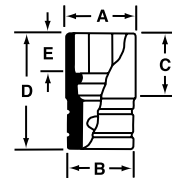
Sets shown include magnetic storage tray



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

SOCKETS

3/8" Drive Low Profile



210RAFSM



RFM12



Low Profile, mm

mm	Set Contains:		A	B	C	D	E	210RAFSM		
	6	12						6	12	6
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



210RARF



RF181



Low Profile, inches

in	Set Contains:		A	B	C	D	E	210RARF	
	12	12						12	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						•	

Sets shown include storage tray

3/8" Drive (Blue-Point®)



BLPSM389



BLPSM3815



BLPSM3822



BLPS3838



BLPS3878



BLPLM3810



BLPLM3816



BLPLM3822

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

mm	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

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

mm	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



BLPL3838



BLPL3834

3/8" Drive Torx® and Special Application



#	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



WARNING



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

SOCKETS

3/8" Drive Torx® and Special Application



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 magnetic storage tray

213AFLEY Combination Drive Shallow Torx Set.
Includes 1/4" drive TLE40A to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg 30) and 1/2" drive SLE160A to SLE240 (pg 40) (13 pcs) (E4 to E24).

210AFLEY Combination Drive Shallow Torx Set.
1/4" drive TLE40A to TLE80A (pg. 21) plus 3/8" drive FLE100A to FLE180A (except FLE110A) (pg 30) (10 pcs) (E4 to E18).

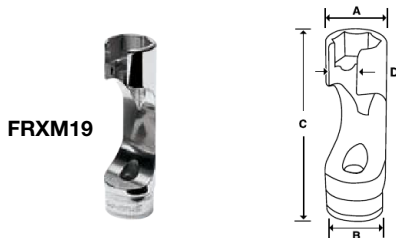


FLEL80

Long Torx Socket

#	Stock No.	Dimension A, Drive End Dia., inches	Dimension B, Socket End Dia., inches	Dimension C, Length, inches
E8	FLEL80	19/32	7/16	5

Application: Fits Delco® alternator Model CS130 found on both GM passenger and light trucks.

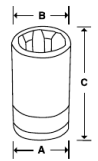


FRXM19

Set Contains:
210FRXM

Flank Drive® Flare Nut, mm

mm	Stock No.	A	B	C	D	
10	FRXM10	16.9	18.3	53.3	7.2	•
11	FRXM11	18.1	18.7	53.3	8.3	•
12	FRXM12	19.3	18.3	53.3	8.8	•
13	FRXM13	20.4	19.1	62.5	9.4	•
14	FRXM14	22.0	20.5	62.5	10.4	•
15	FRXM15	22.6	21.0	71.6	11.2	•
16	FRXM16	23.5	21.9	71.6	11.7	•
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	•



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 6 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.



FLCE120

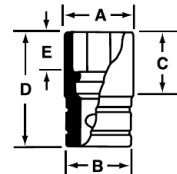
Shallow Torx with Countersink

#	Stock No.	Dimension A, Drive End Dia., inches	Dimension B, Socket End Dia., inches	Dimension C, Length, inches
E12	FLCE120	19/32	11/16	1 5/32

Application: Remove/install shallow countersink Torx fasteners that hold window regulators in place for BMW 5 & 7 Series.



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



207FRX

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	•

Set shown includes magnetic storage tray

3/8" Drive Torx® Special Application



PMM406A

PMP406A

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

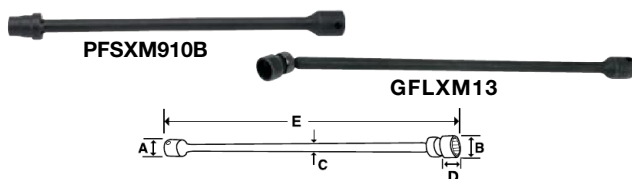
Flank Drive®/Pentagon (5 Point)

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



B2190

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.



PFSXM910B

GFLXM13

Swivel Ball Extension, mm

mm	6	12	A	B	C	D	E
10	PFSXM910B		19.1	14.4	9.5	5.6	243.4
11	PFSXM911B		19.1	15.6	9.5	6.3	243.8
12	PFSXM912B		19.1	16.9	9.5	6.8	244.6
13	PFSXM913B		19.1	18.4	12.4	7.6	245.9
14	PFSXM914B		19.1	19.8	12.4	9.1	247.9
15	PFSXM915B		19.1	20.4	12.4	9.1	247.4
13		GFLXM13	19.1	19.1	17.3	9.5	320.3

PFSXM910B and PFSXM912B Applications: Toyota® and Lexus® vehicles transmission pan bolts plus several underdash applications. Volvo® vehicle: removing intake faster and easier.

GFLXM13 Applications: Removing water pumps and transmission bolts for Mercedes-Benz® vehicles. Various applications for Caterpillar® engines.



211PPPMY

Pipe Plug, inches

Size	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 to PPM412 external sockets plus PP408 to PP412 internal sockets (11 pcs) (3/16 to 3/8").

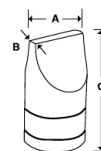
Drag Link

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

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



GF22



FD150



Weatherhead®

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

3/8" Drive Torx Impact



#	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	IMSLE200	1/2	15/16	15/16	1 1/2	•

Set shown includes magnetic storage tray

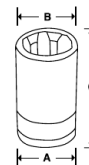
Various applications on heavy duty trucks with Mercedes-Benz engines.

Use E18 size for F550 brake rotor.

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



207IMFLE



- Impact sockets are heat treated to a lower hardness to add impact resistance
- Black oxide finish
- Designed to absorb repeated impact cycling
- Various applications on European vehicles found on BMW® and Mercedes-Benz European vehicles
- Various applications on heavy duty trucks with Mercedes-Benz engines
- E18 for F550 brake rotor
- E20 for rear brake caliper bolts on BMW X5



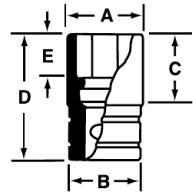
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Use only moderate force on flare nut sockets
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive (Flank Drive®) Impact



Shallow, mm

Set Contains:

214IMFMYA
207IMDFMYA

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 magnetic storage tray

Shallow, inches

Set Contains:

212IMFYA
207IMDFY

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	11/32	3/8	•	•
3/4	IMF240	IMDF240	11/16	11/16	9/16	13/32	13/32	•	•
13/16	IMF260		11/8	11/8	11/16	13/16	1/2	•	
7/8	IMF280		13/16	13/16	3/4	19/32	1/2	•	
15/16	IMF300		19/32	19/32	13/16	15/16	17/32	•	
1	IMF320		111/32	19/32	13/16	15/16	9/16	•	

Sets shown include magnetic storage tray



Semi Deep, mm

Set Contains:

212IMFMSYA

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	•
21	IMFMS21	29.2	25.1	29.3	65.7	12.4	•

Set shown includes magnetic storage tray

Semi Deep, inches

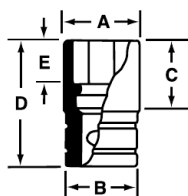
Set Contains:

210IMFSYA

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 magnetic storage tray

3/8" Drive (Flank Drive®) Impact



214SIMFMYA



SIMDFM14



212SIMFYA

SIMF260

Deep, mm

mm	Set Contains:		214SIMFMYA						
	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 magnetic storage tray

Deep, inches

Inches	Set Contains:		212SIMFYA						
	6	12	A	B	C	D	E	6	12
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		•

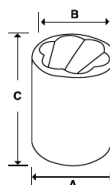
Sets shown include magnetic storage tray

3/8" Drive Impact/Special Purpose

Twist sockets remove rounded/damaged fasteners



209TFSMYA



213TFSYA

Twist, Shallow, inches/mm

Inches/mm	Set Contains:		209TFSMYA				
	6	12	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

Inches/mm	Set Contains:		213TFSYA			
	6	12	A	B	C	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



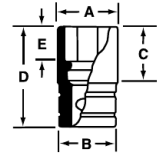
WARNING



• Read safety precautions on pages W1 to W4

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 3 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 13 mm 6 point bolts. Please use MFIMM13 for this application.

Shallow Magnetic, inches

in	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



SMFIMM13B

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



DFSM10



DFSM14

Deep, mm

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

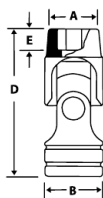
Deep, inches

in	6	A	B	C	D	E
7/16	DFSM14	21/32	11/16	1 21/32	2 1/8	11/32

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.

3/8" Drive (Flank Drive®) Universal



206FSUMA



FUM18A



206AFSA



FU16B

Shallow, mm

mm	Set Contains:		A	B	D	E	206FSUMA		206FU16B	
	6	12					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	Set Contains:		A	B	D	E	206AFSA		206FU16B	
	6	12					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		FU30A	1 1/4	3/4	2 9/32	9/16				
1		FU32A	1 5/16	3/4	2 9/32	9/16				

Sets shown include storage tray



206SFSUM



207FSU

Deep, mm

mm	Set Contains:		A	B	D	E	206SFSUM	
	6	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	Set Contains:		A	B	D	E	207FSU	
	6	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



WARNING



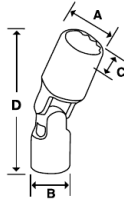
- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Torx®/Universal



FSE180



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

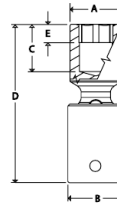
3/8" Drive (Flank Drive®)/Impact Swivel



207IPFM



IPDFM12A



205IPF

Shallow, mm

mm	Set Contains:		A	B	D	E	207IPFM		212IPFM	
	6	12					6	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	IPDFM15A	21.2	22.2	56.4	7.9	•	•		
16	IPFM16C	IPDFM16A	22.6	22.2	57.4	8.6			•	
17	IPFM17C	IPDFM17A	23.4	23.0	62.2	8.6	•	•		
18	IPFM18C	IPDFM18A	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				

Sets shown include storage tray



207IPFSM

Shallow, inches

In	Set Contains:		A	B	D	E	205IPF	
	6	12					6	6
3/8	IPF12C	IPDF12A	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

mm	Set Contains:		A	B	D	E	207IPFSM	
	6	6						
8	IPFSM8A		12.8	22.2	62.5	6.4		
10	IPFSM10A		15.1	22.2	64.1	9.7	•	
11	IPFSM11A		17.2	22.2	65.6	9.7		
12	IPFSM12A		18.0	23.0	70.9	9.7	•	
13	IPFSM13A		19.6	23.0	71.9	10.4	•	
14	IPFSM14A		20.4	23.0	72.9	10.4	•	
15	IPFSM15A		22.0	23.0	74.4	10.4	•	
16	IPFSM16A		22.7	23.0	74.9	10.4		
17	IPFSM17A		24.3	23.0	76.0	11.2	•	
18	IPFSM18A		25.1	23.0	77.5	11.2	•	
19	IPFSM19A		26.7	23.0	79.0	14.2		
21	IPFSM21A		29.2	25.1	77.7	12.4		

Set includes magnetic tray

Deep, mm

mm	Set Contains:		A	B	D	E	207IPLFM	
	6	6						
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	•	
16	IPLFM16A		23	25	86.1	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		
21	IPLFM21A		29.2	25.3	92.2	12.4		

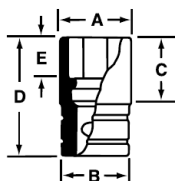
Set includes magnetic tray

Deep, inches

In	Set Contains:		A	B	D	E	207IPLFM	
	6	6						
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		

SOCKETS

1/2" Drive (Flank Drive®)



310TWMYA

SWM241

Shallow, mm

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



313TWYA

SW241

Sets shown include storage tray unless noted
*Does not include storage tray

Shallow, inches

II	Set Contains:							Set Contains:				
	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 1/16	1 11/16	3/4	•	•	•
1 1/8	TW361	SW361	GTW361	GSW361	1 1/2	1 7/16	1 31/32	1 3/4	1 3/16	•	•	•
1 3/16	TW381	SW381		GSW381	1 5/8	1 9/16	1 1/8	1 3/4	3/4			
1 1/4	TW401	SW401	GTW401	GSW401	1 11/16	1 5/8	1 1/4	1 7/8	3/4		•	
1 5/16	TW421	SW421		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



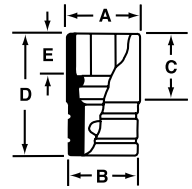
WARNING



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

SOCKETS

1/2" Drive (Flank Drive®)



Deep, mm

Set Contains:

mm	313TSMYA		310TSM		313SMYA						
	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



Deep, inches

Set Contains:



in	313TSYA		S241		GS201							
	6	12	6	12	A	B	C	D	E	6	6	12
3/8	TS121A	S121A	GTS121A		19/32	29/32	2 5/8	3 1/4	5/16	•	•	•
7/16	TS141A	S141A	GTS141A		3/4	29/32	2 5/8	3 1/4	11/32	•	•	•
1/2	TS161A	S161A	GTS161A	GS161A	3/4	29/32	2 5/8	3 1/4	13/32	•	•	•
9/16	TS181A	S181A	GTS181A	GS181A	13/16	29/32	2 5/8	3 1/4	13/32	•	•	•
5/8	TS201	S201	GTS201	GS201	15/16	7/8	1 31/32	3 1/4	15/32	•	•	•
11/16	TS221	S221	GTS221	GS221	31/32	29/32	1 31/32	3 1/4	1/2	•	•	•
3/4	TS241	S241	GTS241	GS241	1 1/32	31/32	2 5/8	3 1/4	9/16	•	•	•
25/32		S251			1 1/16	1 1/32	2 1/8	3 1/4	5/8			
13/16	TS261	S261	GTS261	GS261	1 1/8	1 1/16	2 5/8	3 1/4	9/16	•	•	•
7/8	TS281	S281	GTS281	GS281	1 3/16	1 1/8	2 5/8	3 1/4	9/16	•	•	•
15/16	TS301	S301	GTS301	GS301	1 9/32	1 7/32	1 31/32	3 1/4	3/4	•	•	•
1	TS321	S321	GTS321	GS321	1 11/32	1 9/32	1 31/32	3 1/4	3/4	•	•	•
1 1/16	TS341	S341	GTS341	GS341	1 7/16	1 3/8	1 31/32	3 1/4	3/4	•	•	•
1 1/8	TS361	S361	GTS361	GS361	1 1/2	1 7/16	1 31/32	3 1/4	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			

Sets shown include storage tray

ASME®/ANSI® B107.1

1/2" Drive (Flank Drive®)

Semi Deep, inches

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



SDH201



320TSWMA

320TSWMA Metric 6 Point Shallow/Deep Set. Includes TWM10A to TWM19 shallow sockets (pg 37) and TSM10A to TSM20 deep sockets (pg 38) (20 pcs) (10 to 20 mm).

1/2" Drive (Blue-Point®)





BLPSM1216





BLPS1234

Shallow, mm

		Length
12	BLPSM1212	38.1
13	BLPSM1213	38.1
14	BLPSM1214	38.1
15	BLPSM1215	38.1
16	BLPSM1216	38.1
17	BLPSM1217	38.1
18	BLPSM1218	38.1
19	BLPSM1219	38.1
20	BLPSM1220	38.1
21	BLPSM1221	38.1
22	BLPSM1222	38.1
24	BLPSM1224	38.1

Shallow, inches

		Length
3/8	BLPS1238	1 1/2
7/16	BLPS12716	1 1/2
1/2	BLPS1212	1 1/2
9/16	BLPS12916	1 1/2
5/8	BLPS1258	1 1/2
11/16	BLPS121116	1 1/2
3/4	BLPS1234	1 1/2
13/16	BLPS121316	1 1/2
7/8	BLPS1278	1 1/2
15/16	BLPS121516	1 9/16
1	BLPS121	1 9/16
1 1/16	BLPSB121116	1 9/16
1 1/8	BLPSB12118	1 3/4
1 3/16	BLPSB121316	1 3/4
1 1/4	BLPSB12114	1 3/4



WARNING



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

SOCKETS

1/2" Drive (Flank Drive®) Impact



SLEPL200

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 T50 Torx Plus bit socket (pg 58).



213AFLEY

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 to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg 30) and 1/2" drive SLE160A to SLE240 (pg 40) (13 pcs) (E4 to E24).



IMSLE200

Torx, Impact

#	Stock No.	A	B	D
E18	IMSLE180	29/32	29/32	1 1/2
E20	IMSLE200	15/16	15/16	1 1/2



BLPTE1220

Torx Plus®/External (Blue Point®)

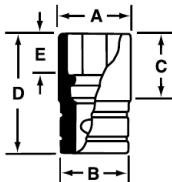
#	Stock No.	Length, inches
E18	BLPTE1218	1 1/2
E20	BLPTE1220	1 1/2
E22	BLPTE1222	1 1/2
E24	BLPTE1224	1 1/2

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

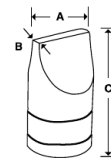
ASME®/ANSI® B107.1



WH290



A26A

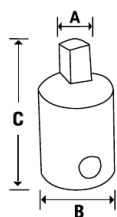


Weatherhead®, inches

#	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

Drag Link

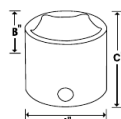
Stock No.	A	B	C
A26A	3/4	.109	1 11/16
A17A	15/16	.150	1 11/16
A15A	1 3/16	.150	1 11/16



PPM516A

Pipe Plug, inches

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



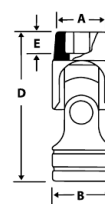
B2191

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.

1/2" Drive Special Application



SU24

Universal, inches

11	6	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

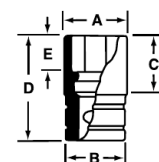
ASME/ANSI® B107.1

1/2" Drive Flank Drive Impact



315IMMYA

IMDM150A



Shallow, mm

mm	Set Contains:		A	B	C	D	E	315IMMYA			
	6	6						6	6		
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 include storage tray

IMDM320 Applications: Uses include axle nuts on Mercedes-Benz® W140 chassis 1992 to 1999 SC and SL Class, Porsche® Boxster, Cayenne and 944 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.



WARNING



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

SOCKETS

1/2" Drive (Flank Drive®) Impact



311IMYA

IMD200

Shallow, inches

11	6	12	A	B	C	D	E	Set Contains:		
								311IMYA	313IMD	307IMDYA
3/8	IM120A	IMD120A	19/32	29/32	7/8	1 1/2	5/16	•	•	•
7/16	IM140A	IMD140A	23/32	29/32	7/8	1 1/2	11/32	•	•	•
1/2	IM160A	IMD160A	13/16	29/32	7/8	1 1/2	13/32	•	•	•
9/16	IM180A	IMD180A	7/8	29/32	7/8	1 1/2	13/32	•	•	•
5/8	IM200	IMD200	15/16	1	7/8	1 1/2	15/32	•	•	•
11/16	IM220	IMD220	1 1/16	1 1/16	3/4	1 1/2	1/2	•	•	•
3/4	IM240	IMD240	1 1/8	1 1/8	3/4	1 1/2	1/2	•	•	•
13/16	IM260	IMD260	1 1/4	1 1/4	3/4	1 1/2	1/2	•	•	
7/8	IM280	IMD280	1 5/16	1 5/16	13/16	1 1/2	9/16	•	•	
15/16	IM300	IMD300	1 3/8	1 3/8	1 1/16	1 3/4	3/4	•	•	
1	IM320	IMD320	1 7/16	1 7/16	1 1/16	1 3/4	3/4	•	•	
1 1/16	IM340		1 9/16	1 9/16	1	2	13/16			
1 1/8	IM360	IMD360	1 5/8	1 5/8	1	2	13/16		•	
1 3/16	IM380		1 11/16	1 1/2	1 3/32	2	13/16			
1 1/4	IM400	IMD400	1 3/4	1 1/2	1 5/32	2	13/16		•	
1 5/16	IM420H		1 7/8	1 1/2	1 3/8	2	7/8			
1 3/8	IM440		1 15/16	1 1/2	1 3/8	2	7/8			
1 7/16	IM460		2	1 1/2	1 3/8	2	15/16			
1 1/2	IM480		2 1/8	1 9/16	1 3/8	2	15/16			
1 9/16	IM500		2 1/4	1 5/8	1 11/16	2 5/16	15/16			

Sets shown include storage tray



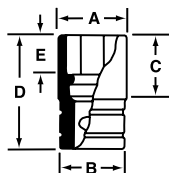
312IMMS

Semi Deep, mm

mm	6	A	B	D	E	Set Contains:
						312IMMS
15	IMMS150	23.7	23.7	55.9	10.7	•
16	IMMS160	24.4	24.4	55.9	11.9	•
17	IMMS170	25.3	25.3	55.9	11.2	•
18	IMMS180	26.8	26.8	55.9	12.7	•
19	IMMS190	28.5	28.5	55.9	14.2	•
20	IMMS200	30.0	30.0	55.9	14.2	•
21	IMMS210	31.6	31.6	55.9	14.2	•
22	IMMS220	33.2	33.2	60.4	14.2	•
23	IMMS230	34.0	34.0	60.4	16.2	•
24	IMMS240	34.9	34.9	60.4	15.5	•
25	IMMS250	36.3	36.3	60.4	16.2	•
27	IMMS270	39.6	39.6	60.4	20.3	•

Set shown includes storage tray

1/2" Drive (Flank Drive®) Impact



315SIMMYA

Deep, mm

mm	6	Set Contains:					6	6	6	6	6
		A	B	C	D	E					
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	SIMM170A	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		•			•
28	SIMM280A	41.0	41.0	71.0	88.9	20.8					•
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

11	6	Set Contains:					6	6	6
		A	B	C	D	E			
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 unless noted

*Does not include storage tray



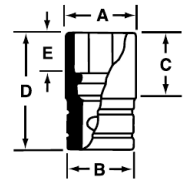
WARNING



• Read safety precautions on pages W1 to W4

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

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 nut 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	SIMMF22A	30.2	30.2	50.8	76.2	25.4

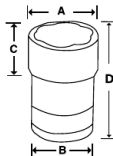
1/2" Drive Special Application Impact



TTWY281A

Twist/Shallow, inches

Removes rounded/damaged fasteners



SPS10

Shackle Pin

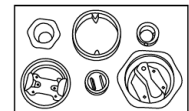
Designed with an oval configuration to service shackle pins on International Harvester® and Kenworth® semi trucks.
SPS10 41/64" x 1 3/32" x 1 3/4" long.
SPS11 21/32" x 1 17/32" x 1 3/4" long



A172A

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.



305TTWYA Shallow Twist Set. TTWY241A to TTWY321A (5 pcs) (3/4 to 1").

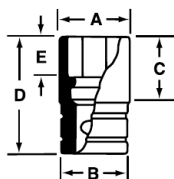
Set shown includes storage tray

Extra Deep, inches SIML200

		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

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



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
15	IPSM15	23.0	25.1		65.7	12.4
18	IPSM18	26.5	31.5		89.1	12.7
21	IPSM21	30.0	31.5	33.8	89.2	12.7
22	IPSM22	32.4	31.5		89.1	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



DTSM13A

Surface Drive Deep, mm

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

		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



DTS16A

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

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 1/2	1 1/32	1 3/4	5/8
1	P432	1 23/32	1 3/4	1 1/8	1 3/4	3/4



SIPR426

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



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



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



WARNING



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

SOCKETS

1/2" Drive (Flank Drive®) Impact Swivel



307IPLMY

IPDLM12

Shallow Swivel, mm

Set Contains:

307IPLMY
312IPLM

mm	6	12	A	B	D	E	6	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	IPDLM13A	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	•	•

Sets shown include storage tray



307IPLY

Shallow Swivel, Inches

Set Contains:

307IPLY
312IPL

1/2"	6	12	A	B	D	E	6	6
1/2	IPL16C	IPDL16	25/32	1 1/16	2 29/32	11/32		•
9/16	IPL18C		7/8	1 1/16	2 29/32	11/32	•	•
5/8	IPL20C	IPDL20	31/32	1 1/16	2 31/32	11/32	•	•
11/16	IPL22C		1 1/16	1 1/4	3 1/16	7/16	•	•
3/4	IPL24C		1 1/8	1 1/4	3 1/16	15/32	•	•
13/16	IPL26C		1 3/16	1 1/4	3 1/16	1/2		•
7/8	IPL28C		1 9/32	1 1/4	3 7/32	9/16	•	•
15/16	IPL30C		1 11/32	1 1/4	3 7/32	5/8	•	•
1	IPL32C		1 11/32	1 1/4	3 3/16	11/16		•
1 1/16	IPL34C		1 7/16	1 1/4	3 7/32	23/32		•
1 1/8	IPL36C		1 9/16	1 1/4	3 11/32	3/4	•	•
1 3/16	IPL38C		1 9/16	1 1/4	3 3/8	3/4		•
1 1/4	IPL40C		1 5/8	1 1/4	3 7/16	13/16		
1 5/16	IPL42C		1 3/4	1 1/4	3 7/16	7/8		

Sets shown include storage tray

3/4" Drive (Flank Drive)

Shallow, inches

1 1/2"	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 3/4	1 9/16	2 1/2	7/8
1 3/8	LDH442	1 15/16	1 3/4	1 9/16	2 1/2	7/8
1 7/16	LDH462	2	1 3/4	1 5/8	2 1/2	15/16

ASME/ANSI B107.1

Shallow, inches



LDH482

1 1/2"	12	A	B	C	D	E
1 1/2	LDH482	2 1/8	1 3/4	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

3/4" Drive Special Application



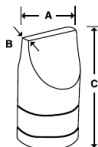
LDHM362

Shallow, mm

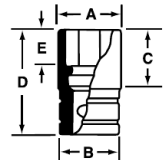
mm	12	A	B	C	D	E
22	LDHM222	31.1	34.6	30.2	50.8	17.1
24	LDHM242	33.4	34.6	31.8	50.8	17.9
27	LDHM272	37.3	39.5	31.8	54.0	19.9
30	LDHM302	41.0	39.8	34.0	57.2	21.8
36	LDHM362	49.3	41.2	35.1	58.7	22.1
41	LDHM412	55.1	44.5	42.9	66.5	26.7



GLD139



LS342



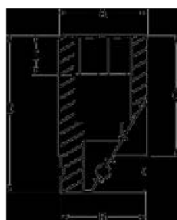
Deep, inches

1 1/16"	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	C
GLD138	13/64 x 1 3/8	1 3/8	13/64	2 3/16
GLD139	1/4 x 1 11/16	1 11/16	1/4	2 3/16

3/4" Drive (Flank Drive®) Impact



IMM302

Shallow, mm

mm	Set Contains:							
	6	12	A	B	C	D	E	6
17	IMM172A		29.2	41.1	27.2	50.8	13.7	•
18	IMM182A		31.6	41.1	27.2	50.8	12.7	•
19	IMM192A		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	•

mm	Set Contains:							
	6	12	A	B	C	D	E	6
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.



IM402



IMD302A

Shallow, inches

T1	Set Contains:												
	6	12	A	B	C	D	E	6	6	6	12	12	12
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.



WARNING



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

SOCKETS

3/4" Drive (Flank Drive®) Impact



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.



423SIM

Set Contains:



423SIM

Deep, inches

11	6	A	B	C	D	E	6
9/16	SIM182	1	1 5/8	2 1/16	3	9/16	•
5/8	SIM202	1 1/16	1 5/8	2 1/16	3	9/16	•
11/16	SIM222	1 1/8	1 5/8	2 1/16	3	9/16	•
3/4	SIM242	1 1/4	1 5/8	2	3	9/16	•
13/16	SIM262	1 3/8	1 5/8	2	3	5/8	•
7/8	SIM282	1 1/2	1 5/8	2	3	5/8	•
15/16	SIM302	1 5/8	1 5/8	2	3	5/8	•
1	SIM322	1 5/8	1 5/8	2	3	11/16	•
1 1/16	SIM342	1 3/4	1 5/8	2	3	11/16	•
1 1/8	SIM362	1 3/4	1 5/8	2	3	3/4	•
1 3/16	SIM382	2	1 3/4	2 1/4	3 1/4	3/4	•
1 1/4	SIM402	2	1 3/4	2 1/4	3 1/4	7/8	•
1 5/16	SIM422	2 1/8	1 3/4	2 9/16	3 1/4	7/8	•
1 3/8	SIM442	2 1/8	1 3/4	2 1/4	3 1/4	7/8	•
1 7/16	SIM462	2 3/16	1 3/4	2 1/2	3 1/2	7/8	•
1 1/2	SIM482	2 1/4	1 3/4	2 1/2	3 1/2	15/16	•
1 9/16	SIM502	2 5/16	1 3/4	2 1/2	3 1/2	15/16	•
1 5/8	SIM522	2 7/16	1 3/4	2 1/2	3 1/2	15/16	•
1 11/16	SIM542	2 1/2	1 3/4	2 1/2	3 1/2	1	•
1 3/4	SIM562	2 1/2	1 3/4	2 1/2	3 1/2	1	•
1 13/16	SIM582	2 5/8	1 3/4	2 3/4	3 3/4	1 1/16	•
1 7/8	SIM602	2 11/16	1 3/4	2 3/4	3 3/4	1 1/8	•
2	SIM642A	2 13/16	1 3/4	2 3/4	3 3/4	1 1/8	•

Larger sizes available on special order.

Thin Wall, inches

		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 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 E R engines (2007 and later)



IMFDL242



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 1 3/8"
IM243P	1"	Steel Locking Pin	1" Drive Sockets/Accessories Up to 1 3/8"



1" Drive (Flank Drive) Impact



IMM503

Shallow, 6 Point, mm

Set Contains: **516IMM**

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	•
80	IMM803	108.7	61.1	65.9	108.7	47.6	•



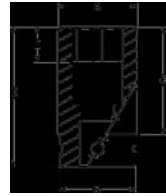
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

1" Drive (Flank Drive®) Impact



IM703

Shallow, 6 Point, inches

H	6	A	B	C	D	E	Set Contains:		
							521IM	516IM	522IM
3/4	IM243	1 7/16	2 1/8	1	2 1/8	1 1/16	•		
13/16	IM263	1 7/16	2 1/8	1	2 1/8	1 1/16	•		
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 1/16	IM343	1 3/4	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	•		

Shallow, 6 Point, inches

H	6	A	B	C	D	E	Set Contains:		
							521IM	516IM	522IM
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 3/8	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	•		



SIMM323

Deep, mm

mm	6	A	B	C	D	E
30	SIMM303	46.0	53.7	46.0	76.2	19.1
32	SIMM323	52.3	53.7	76.2	82.6	22.4
33	SIMM333*	52.3	53.7	53.3	82.5	22.4
38	SIMM383	60.3	57.2	59.7	88.9	25.4

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



SIM563

Deep, inches

Set Contains:
 519SIM
 520SIM
 517SIM

II	6	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.

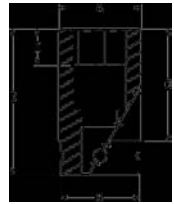


WARNING



• Read safety precautions on pages W1 to W4

1" Drive Special Application Impact



IM724

Shallow Single Square, inches

	4	A	B	C	D	E
$\frac{3}{4}$	IM724	1 $\frac{15}{16}$	2 $\frac{1}{8}$	$\frac{31}{32}$	2 $\frac{1}{8}$	$\frac{21}{32}$
$\frac{13}{16}$	IM726	1 $\frac{15}{16}$	2 $\frac{1}{8}$	$\frac{31}{32}$	2 $\frac{1}{8}$	$\frac{21}{32}$
$\frac{7}{8}$	IM728	2 $\frac{1}{16}$	2 $\frac{1}{8}$	$\frac{31}{32}$	2 $\frac{1}{8}$	$\frac{21}{32}$
$\frac{15}{16}$	IM730	2 $\frac{1}{16}$	2 $\frac{1}{8}$	$\frac{15}{16}$	2 $\frac{1}{8}$	$\frac{5}{8}$
1	IM732	2 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{3}{32}$	2 $\frac{1}{4}$	$\frac{25}{32}$
1 $\frac{1}{8}$	IM736	2 $\frac{1}{4}$	2 $\frac{1}{4}$	1 $\frac{3}{32}$	2 $\frac{1}{4}$	$\frac{25}{32}$



IM740

Shallow Double Square, inches

	8	A	B	C	D	E
1 $\frac{1}{4}$	IM740	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{8}$	$\frac{13}{16}$



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 $\frac{7}{16}$ " and from 35mm
IM243R	1"	Synthetic Rubber Locking Ring for IM243 to IM443 , and SIM233 to SIM353	1" Drive Sockets/Accessories up to 1 $\frac{3}{8}$ " and up to 35mm
IM243P	1"	Steel Locking Pin, use with IM243R	1" Drive Sockets/Accessories up to 1 $\frac{3}{8}$ " 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 $\frac{7}{16}$ " and from 35mm

1 1/2" Drive Flank Drive® Impact

Shallow, mm



IMM365

	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

1 1/2" Drive (Flank Drive®) Impact





IM445

Shallow, inches

Set
Contains:

619MM
616MM
618MM
609MM

		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				•



WARNING



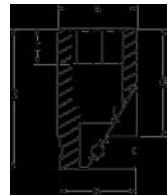
• Read safety precautions on pages W1 to W4

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



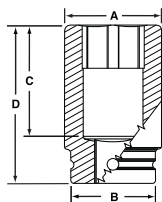
IM243R



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 35 mm
IM243P	1 1/2" Spline	Steel Locking Pin, for IM35	1" Drive Sockets/Accessories up to 1 3/8" and up to 35 mm
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





Shallow, inches

IM2209

Set Contains:

716IM 713IM 714IM 711IM

		A	B	C	D	716IM	713IM	714IM	711IM
2	IM649	3 7/16	5	2 31/32	5 1/2	•			
2 3/16	IM709	3 21/32	5	3 7/32	5 3/4	•			
2 1/4	IM729	3 23/32	5	3 7/32	5 3/4	•			
2 3/8	IM769	3 7/8	5	3 15/32	6	•			
2 1/2	IM809	4	5	3 15/32	6	•			
2 9/16	IM829	4 3/32	5	3 15/32	6	•			
2 5/8	IM849	4 5/32	5	3 15/32	6	•			
2 7/8	IM929	4 7/16	5	3 23/32	6 1/4	•			
2 3/4	IM889	4 5/16	5	3 23/32	6 1/4	•			
2 15/16	IM949	4 17/32	5	3 23/32	6 1/4	•			
3	IM969	4 19/32	5	3 23/32	6 1/4	•			
3 1/8	IM1009	4 3/4	5	3 31/32	6 1/2	•			
3 1/4	IM1049	5	5	3 31/32	6 1/2	•			
3 3/8	IM1089	5	5	3 31/32	6 1/2	•			
3 7/16	IM1109	5	5	4 7/32	6 3/4	•			
3 1/2	IM1129	5 3/16	5	4 7/32	6 3/4	•			
3 5/8	IM1169	5 5/16	5	4 7/32	6 3/4		•		
3 3/4	IM1209	5 15/32	5	4 15/32	7		•		
3 7/8	IM1249	5 5/8	5	4 15/32	7		•		
4	IM1289	5 3/4	5	4 15/32	7		•		
4 1/16	IM1309	5 27/32	5	4 15/32	7		•		
4 1/8	IM1329	5 29/32	5	4 23/32	7 1/4		•		
4 1/4	IM1369	6 1/16	5	4 23/32	7 1/4		•		
4 3/8	IM1409	6 7/32	5	4 23/32	7 1/4		•		
4 1/2	IM1449	6 11/32	5	4 31/32	7 1/2		•		
4 5/8	IM1489	6 1/2	5	4 31/32	7 1/2		•		
4 3/4	IM1529	6 21/32	5	4 31/32	7 1/2		•		
4 7/8	IM1569	6 25/32	5	5 7/32	7 3/4		•		
5	IM1609	6 15/16	5	5 7/32	7 3/4		•		
5 1/8	IM1649	7 3/32	5	5 7/32	7 3/4			•	
5 1/4	IM1689	7 7/32	5	5 15/32	8			•	
5 3/8	IM1729	7 3/8	5	5 15/32	8			•	
5 7/16	IM1749	7 7/16	5	5 3/8	8			•	
5 1/2	IM1769	7 17/32	5	5 5/8	8 1/4			•	
5 5/8	IM1809	7 21/32	5	5 19/32	8 1/4			•	
5 3/4	IM1849	7 13/16	5	5 19/32	8 1/4			•	
5 7/8	IM1889	7 31/32	5	5 13/16	8 1/2			•	
6	IM1929	8 3/32	5	5 3/4	8 1/2			•	
6 1/8	IM1969	8 1/4	5	5 3/4	8 1/2			•	
6 1/4	IM20099	8 13/32	5	5 31/32	8 3/4			•	
6 3/8	IM2049	8 17/32	5	5 15/16	8 3/4			•	
6 1/2	IM2089	8 11/16	5	5 15/16	8 3/4			•	
6 5/8	IM2129	8 27/32	5	6 5/32	9			•	
6 3/4	IM2169	8 31/32	5	6 1/8	9				•
6 7/8	IM2209	9 1/8	5	6 1/8	9				•
7	IM2249	9 9/32	5	6 5/16	9 1/4				•
7 1/8	IM2289	9 13/32	5	6 5/16	9 1/4				•
7 1/4	IM2329	9 9/16	5	6 17/32	9 1/2				•
7 3/8	IM2369	9 23/32	5	6 1/2	9 1/2				•
7 1/2	IM2409	9 7/8	5	6 1/2	9 1/2				•
7 5/8	IM2449	10	5	6 23/32	9 3/4				•
7 3/4	IM2489	10 5/32	5	6 11/16	9 3/4				•
7 7/8	IM2529	10 5/16	5	6 11/16	9 3/4				•
8	IM2569	10 7/16	5	6 7/8	10				•



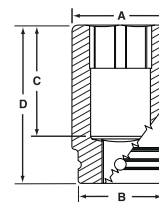
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

2 1/2 Drive (Flank Drive®) Impact



IMM1159

Shallow, mm

Set
Contains:

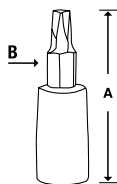
713MM

710MM

709MM

mm	6	A	B	C	D	713MM	710MM	709MM
60	IMM609	97.6	127	88.1	152.4	•		
65	IMM659	104.0	127	88.1	152.4	•		
67	IMM679	105.6	127	88.1	152.4	•		
70	IMM709	109.5	127	94.5	158.8	•		
71	IMM719	110.3	127	94.5	158.8	•		
75	IMM759	115.1	127	94.5	158.8	•		
80	IMM809	121.4	127	100.8	165.1	•		
85	IMM859	127.0	127	100.8	165.1	•		
86	IMM869	127.0	127	100.8	165.1	•		
90	IMM909	132.6	127	107.2	171.5	•		
95	IMM959	138.9	127	107.2	171.5	•		
98	IMM989	142.1	127	113.5	177.8	•		
100	IMM1009	144.5	127	113.5	177.8	•		
105	IMM1059	150.8	127	119.9	184.2		•	
110	IMM1109	156.4	127	119.9	184.2		•	
115	IMM1159	161.9	127	126.2	190.5		•	
120	IMM1209	168.3	127	126.2	190.5		•	
125	IMM1259	173.8	127	132.6	196.9		•	
130	IMM1309	179.4	127	132.6	196.9		•	
135	IMM1359	185.7	127	138.9	203.2		•	
140	IMM1409	191.3	127	142.9	209.6		•	
145	IMM1459	196.9	127	142.1	209.6		•	
150	IMM1509	203.2	127	147.6	215.9		•	
155	IMM1559	208.8	127	146.1	215.9			•
160	IMM1609	215.1	127	151.6	222.3			•
165	IMM1659	215.1	127	150.8	222.3			•
170	IMM1709	226.2	127	156.4	228.6			•
175	IMM1759	232.6	127	161.9	235.0			•
180	IMM1809	238.1	127	160.3	235.0			•
185	IMM1859	243.7	127	165.9	241.3			•
190	IMM1909	250.0	127	165.1	241.3			•
200	IMM2009	261.9	127	169.9	247.7			•

Torx® Bit Sockets



212EFTXY



GFTX45E

Torx/Standard

Set Contains:

#	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	•	•
T47	FTX47E		3/8	2 1/16	FTX47E2	•	•
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		
T80	T802E		3/4	4 3/8	T802E2		
T90	T902E		3/4	4 3/8	T902E2		

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).



FTXL40E

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



207EFTXYSE

Torx/Stubby

Set Contains:

#	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	•

Set shown includes magnetic 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.



105TUTX

Torx/Stubby Universal

Set Contains:

#	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	•

Set shown includes storage tray

105TUTX Applications: T40 for Porsche 2005 and newer 911, Boxster® and 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.



209EFTXBY

Torx/Heavy Duty Removal

Set Contains:

#	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	2 1/16	FTXB45E2	•
T50	FTXB50E	3/8	2 1/16	FTXB50E2	•
T55	STXB55E	3/8	2 1/16	FTXB55E2	•

Set shown includes magnetic storage tray



WARNING



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

SOCKETS

Torx® Bit Sockets



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	•

Set shown includes magnetic storage tray



Torx Plus/Tamper Resistant

211EFTXRTPY

5 lobe configuration. 2 piece pinless design holds bit securely in socket while facilitating quick bit replacement. Cold formed socket delivers a strong, durable tool. Chrome plating resists corrosion and cleans easily. For sale to authorized technicians only.

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	•

Set shown includes magnetic storage tray

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.



FTXL45E

Special Application Torx (3/8" Drive)

#	Stock No.	Description	Square Drive, inches	A	B
T40	FTXL40E	Extra Long	3/8	7 1/2	FTXL40E2
T47	FTX47E	GM Style	3/8	2 1/16	FTX47E2
T45	FTXL45E	Extra Long	3/8	7 11/16	FTXL45E2
T40	FTXR40TPE	Tamper Resistant	3/8	1 3/4	FTXR40TPE2
T47	GFTX500E	GM Style	3/8	2 1/16	FTX500E2
T30	FTXL30TPE	Extra Long	3/8	5	FTXL30TPEZ

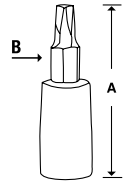
FTXL40E Applications include service on intake manifold bolts on Ford 5.0 L engines with fuel injection, model years 1985 to 1990.

FTXL45E 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.

FTXL30TPE For removing the engine harness from the firewall on 2007 and newer. For Volvo trucks with D16, MPT 8 and MPT 10 engines, Cummins ISX fuel timing and metering actuators.



Torx Plus®

211EFTXTPY

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	•
555P	STX55TPE	1/2	2 3/4	FTX55TPE2	•

Set shown includes magnetic storage tray

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	TTX20E2
T25	PTTX25E	1/4	1 9/16	TTX25E2
T27	PFTX27E	3/8	1 3/4	FTX27E2
T30	PFTX30E	3/8	1 3/4	FTX30E2
T40	PFTX40E	3/8	1 3/4	FTX40E2
T45	PSTX45E	1/2	2 7/16	FTX45E2
T50	PSTX50E	1/2	2 7/16	FT50E2
T50	PSTX500E*	1/2	2 7/16	FTX500E2
T55	PSTX55E	1/2	2 7/16	FTX55E2

*GM Style



GFTX500E

Torx® Bit Sockets (Blue-Point®)



BLPTORX1410



BLPTS1425TP



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	•

Set shown includes storage tray



Torx/
Tammer 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/
Tammer 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



Torx/
Tammer 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



BLPT3820TP



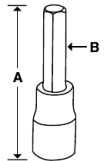
WARNING



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

SOCKETS

Metric Hex Bit



211EFAMY



210EFTAMY



LAWM19E

Hex/Standard, mm

Set Contains:
 106ETMAMY
 207EFAMY
 211EFAMY
 307ESAMY

mm	Hex	Square Drive, In.	A	B	Hex	Hex	Hex	Hex	Hex
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					•
17	LAWM17E	3/4	4 1/8"	SAM17E2					•
19	LAWM19E	3/4	4 3/32"	SAM19E2					•



208EFTAMXSY

Set Contains:
 208EFTAMXSY

Hex/Stubby, mm

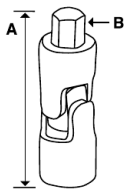
mm	Hex	Square Drive, In.	A	B	Hex
3	TMAMXS3E	1/4	26.0	TMAMXS3E2	•
4	TMAMXS4E	1/4	27.0	TMAMXS4E2	•
5	TMAMXS5E	1/4	27.0	TMAMXS5E2	•
6	TMAMXS6E	1/4	29.0	TMAMXS6E2	•
7	FAMXS7E	3/8	34.7	FAMXS7E2	•
8	FAMXS8E	3/8	35.7	FAMXS8E2	•
9	FAMXS9E	3/8	36.7	FAMXS9E2	•
10	FAMXS10E	3/8	37.7	FAMXS10E2	•

Set includes magnetic storage tray



206EFAML

Set Contains:
 206EFAML



TUAM6E

Sets include magnetic storage tray

Hex/Universal Stubby, mm

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

Ball Hex/Standard, mm

Set Contains:
 206EFTABMY

mm	Ball Hex	Square Drive, In.	A	B	Ball Hex
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	•

Set includes magnetic storage tray

Hex/Long, mm

mm	Hex	Square Drive, In.	A	B	Hex
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	•
10	SAM10LE	1/2	152.4	SAM10LE2	
12	SAM12LE	1/2	98.0	SAM12LE2	

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.

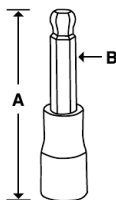


208EFTABMY

Metric Hex Bit



206EFABLM



Ball Hex/Long, mm

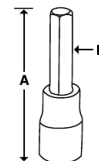
Set Contains: 206EFABLM

mm	Part No.	Square Drive, In.	A	B	Icon
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



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	Part No.	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.

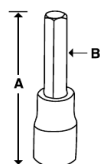
Hex, mm (Power)

mm	Part No.	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



PFAM6E

Metric Hex Bit (Blue-Point®)



BLPH3810



BLPHEXS1418

Hex, mm

mm	Part No.	Square Drive, In.	Length, mm
2.5	BLPH1425	1/4	34.9
6	BLPH386	3/8	47
7	BLPH387	3/8	47
8	BLPH388	3/8	50.5
9	BLPH389	3/8	50.5
10	BLPH3810	3/8	50.5
3	BLPH123	1/2	60.3
4	BLPH124	1/2	60.3
5	BLPH125	1/2	60.3
6	BLPH126	1/2	60.3
10	BLPH1210	1/2	60.3
12	BLPHM1212	1/2	60.3
14	BLPH1214	1/2	60.3
17	BLPH1217	1/2	60.3
19	BLPH1219	1/2	60.3

Hex/Stubby, mm

mm	Part No.	Square Drive, In.	Length, mm
2	BLPHSM142	1/4	19.1
2.5	BLPHSM1425	1/4	19.1
3	BLPHSM143	1/4	19.1
4	BLPHSM144	1/4	19.1
5	BLPHSM145	1/4	19.1
6	BLPHSM146	1/4	19.1
7	BLPHSM147	1/4	19.1
8	BLPHSM148	1/4	19.1
9	BLPHSM149	1/4	19.1
10	BLPHSM1410	1/4	19.1

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



WARNING



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

SOCKETS

Hex Bit



212EFTAY



208EGFAY



IMA283

Hex/Standard, inches

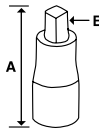
Hex Bit	Hex Bit	Hex Bit	Square Drive, In.	A	B	Length with Opt. Long Bit	Optional Long Bit	Set Contains:				
								110ETMAY	208EFAY	208EGFAY	212EFTAY	307ESAY
1/16	TMA2E		1/4	1 7/8	TMA2E2A	6	TMAL2E2	•				•
5/64	TMA2.5E	GTMA2.5E	1/4	1 7/8	TMA2.5E2	6	TMAL2.5E2	•				•
3/32	TMA3E	GTMA3E	1/4	1 7/8	TMA3E2	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 15/16	FA6E2			•				•
7/32	TMA7E	GTMA7E	1/4	1 7/8	FA7E2			•				•
1/4	TMA8E	GTMA8E	1/4	1 7/8	FA8E2			•				•
Hex Bit	Hex Bit	Hex Bit	Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	Hex Bit	Hex Bit	Hex Bit	Hex Bit	Hex Bit
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, 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.

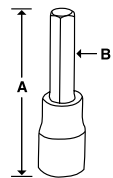
Sets shown include storage tray



208EFTAXSY



206EFAL



Hex/Stubby, inches

Hex Bit	Hex Bit	Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	Set Contains:
							208EFTAXSY
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 magnetic storage tray

Hex/Extra Long, inches

Hex Bit	Hex Bit	Square Drive, In.	A	Fits These Cap Screws	Fits These Set Screws	B	Set Contains:
							206EFAL
5/32	FA5LE	3/8	6 1/16	#10	5/16"	FA5LE2	•
3/16	FA6LE	3/8	6 1/8	1/4"	3/8"	FA6LE2	•
7/32	FA7LE	3/8	6 1/8		7/16"	FA7LE2	•
1/4	FA8LE	3/8	6 1/8	5/16"	1/2"	FA8LE2	•
5/16	FA10LE	3/8	6 1/16	3/8"	5/8"	FA10LE2	•
3/8	FA12LE	3/8	6 1/16	1/4"	3/4"	FA12LE2	•

Set shown includes storage tray



208EFTABY

Ball Hex/Standard, inches

Set Contains:

Size	Part Number	Square Drive, in.	A	B	Tip
1/8	TMAB4E	1/4	1 7/8	TMAB4E2	•
9/64	TMAB4.5E	1/4	1 7/8	TMAB4.5E2	•
5/32	TMAB5E	1/4	1 7/8	TMAB5E2	•
3/16	TMAB6E	1/4	1 7/8	TMAB6E2	•
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 magnetic storage tray



PFA8E

Hex, inches (Power)

Size	Part Number	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", 1/2"	3/4"	FA12E2



206EFABL

Ball Hex/Long, inches

Set Contains:

Size	Part Number	Square Drive, in.	A	B	Tip
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

Hex, inches

Size	Part Number	Square Drive, in.	A	B
5/16	PSA10E	1/2	2 7/16	FA10E2
3/8	PSA12E	1/2	2 9/16	SA12E2
7/16	PSA14E	1/2	2 7/8	SA14E2
1/2	PSA16E	1/2	3 1/16	SA16E2
9/16	PSA18E	1/2	3 1/8	SA18E2
5/8	PSA20E	1/2	3 7/16	LAW120E2
3/4	PSA24E	1/2	4 1/16	LAW124E2



PSA10E

Hex Bit (Blue-Point®)



BLPH1414

Hex Standard, inches

Size	Part Number	Square Drive, in.	A
1/8	BLPH1418	1/4	1 7/16
9/64	BLPH14964	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
7/32	BLPH38732	3/8	1 15/16
1/4	BLPH3814	3/8	1 15/16
5/16	BLPH38516	3/8	1 15/16
3/8	BLPH3838	3/8	1 15/16
7/16	BLPH12716	1/2	2 7/16
1/2	BLPH1212	1/2	2 7/16
9/16	BLPH12916	1/2	2 7/16
5/8	BLPH1258	1/2	2 7/16
3/4	BLPH1234	1/2	2 7/16



BLPHEXS1418

Hex/Stubby, inches

Size	Part Number	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.



WARNING

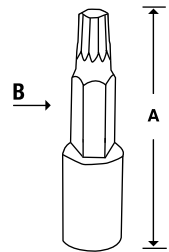


- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Triple Square Drivers

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

Triple Square, mm

	mm	Stock No.	Square Drive, In.	Set Contains:		TSSKIT
				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	•
Long	10	FTSM10E	3/8	67.8	FTSM10E2	•
	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 (6 mm, 3/8" drive) Various applications on European vehicles.

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

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

STSM12E (12 mm, 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 VW vehicles.

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.



305STSMSE

Triple Square/Stubby, mm (1/2" drive)

mm	Stock No.	A	B	Set Contains:	
10	STSM10SE	59.4	STSM10SE2		•
12	STSM12SE	59.4	STSM12SE2		•
14	STSM14SE	63.2	STSM14SE2		•
16	STSM16SE	68.1	STSM16SE2		•
18	STSM18SE	69.8	STSM18SE2		•

Set shown includes storage tray

STSM10SE Used for cylinder head bolts, driveshaft bolts and various other applications on VW, Audi and Mercedes vehicles.

STSM12SE Access exhaust manifold bolts on DD15 and Mercedes 900/4000 engines. Also for the back of the turbo and some oil pans. Head bolts and axle shaft bolts on VW, Audi and Mercedes vehicles.

STSM14SE Brake caliper bolts on Volkswagen®, Jetta, Rabbit, Passat, EOS and Tiquan. There is limited room due to the control arm in the way when backing out the fastener.

STSM16SE VW and Audi transmission and differential plug. Porsche Cayenne brake caliper bolts.

STSM18SE Rear axle bolts on Volkswagen Jetta and Golf.



BLPXZNM389

Triple Square Bit (Blue-Point®)



BLPXZN146

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

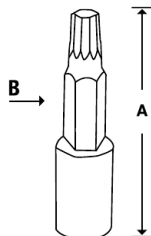
Triple Square/Stubby, mm

mm	Stock No.	Square Drive, in.	A mm
4	BLPXZN144	1/4	27
5	BLPXZN145	1/4	27
6	BLPXZN146	1/4	27
8	BLPXZN148	1/4	27
10	BLPXZN1410	1/4	27
12	BLPXZN1412	1/4	27

Special Application



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-3	PFMTS3E	3/8	2 1/8	PFMTS3E2
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

Flat Tip, inches

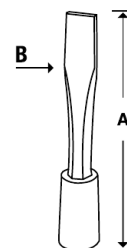
	TI	Stock No.	Industrial Stock No.	Square Drive, in.	A	B
Standard Length	3/16 x .032	TMC104E		1/4	2 7/8	TMC104E2A
	1/4 x .032	TMC105E		1/4	2 15/16	TMC105E2A
	3/8 x .042	TMC106E		1/4	2 7/8	TMC106E2A
	1/4 x 1/32	F23E		3/8	3	F23E2A
	5/16 x 3/64	F25E	GF25E	3/8	3	F25E2A
	3/8 x 1/16	F31E	GF31E	3/8	3 7/16	F31E2A
	7/16 x .050	SW28E		1/2	3 1/16	SW28E2A
	1/2 x .075	SW32E		1/2	3 1/16	SW32E2A
Short	5/8 x .093	SW40E		1/2	3 1/4	SW40E2A
	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



TM82



F23E



GF31E



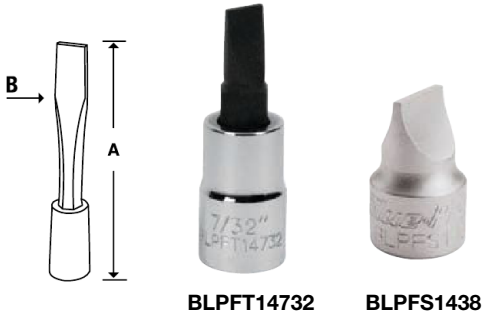
WARNING



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

SOCKETS

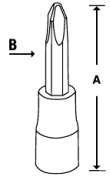
Flat Tip Bits



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

Phillips® Bits



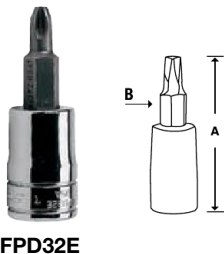
Phillips/Standard

		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
	#3	FPS32E		3/8	1 29/32	SP32E2
Long	#2	TMP23E		1/4	3 1/16	TMP23E2
	#2	FP24E		3/8	4 1/32	FP24E2
	#3	FP34E		3/8	4 1/32	FP34E2
	#4	FP42E		3/8	2 9/16	FP42E2

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



Pozidriv

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

Pozidriv, (Blue-Point)

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

Clutch. Standard Length

		Stock No.	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

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 (36 pcs) conveniently displayed in a storage tray that fits in the KRA142 metal box.

PIT2230E Set. 36 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	#4 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.

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



208EPIT



PIT2230E

PIT120



PIT160



PIT3120EB



WARNING



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

SOCKETS

Combination Bit Sets (Blue-Point®)



BLPBSS40



BLPTSSC43

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	2 mm
		BLPHSM142.5	2.5 mm
		BLPHSM143	3 mm
BLPHSM144		4 mm	
BLPHSM145		5 mm	
BLPHSM146		6 mm	
BLPHSM147		7 mm	
BLPHSM148		8 mm	
BLPHSM149		9 mm	
BLPHSM1410		10 mm	
BLPCSS400PB Storage Case			

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
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
Torx Tamper Resistant Long Bit Sockets	BLPT1255TP	T55	1/2
	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		

Combination Hex Drive Bit Socket Set

BLPHSSC30 Combination Socket Driver Set.

- 30 piece Combination 1/4, 3/8 and 1/2" drive Hex Bit Socket Set
- Set covers a full range of metric hex sizes from 2.5 to 19 mm and fractional from 1/8 to 3/4"
- Drive size increase with bit size to offer maximum strength
- Perfect set for the technician in the shop or for use around the house
- Comes in a durable compact case
- Supported by a full lifetime warranty, no need to replace bits

Combination Socket Driver Set (30 pcs)

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



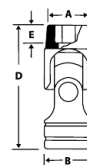
BLPHSSC30

High Performance 1/4" Drive (Flank Drive®) Sockets

Universal, inches

	12	A	B	D	E
1/4	TDHU81A	3/8	1/2	1 15/64	1/4
5/16	TDHU101A	29/64	1/2	1 23/64	9/32
3/8	TDHU121A	17/32	1/2	1 15/32	11/32

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



TDHU101A

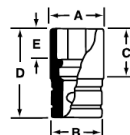
1/4" Drive Spline Sockets

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

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



TES10



TESU10

Shallow, inches

	12	Stock No.	A	B	C	D	E
#7	7/32	TES7	11/32	27/64	29/64	59/64	7/32
#8	1/4	TES8	3/8	27/64	29/64	59/64	17/64
#9	9/32	TES9	7/16	3/16	37/64	59/64	19/64
#10	5/16	TES10	29/64	29/64	19/32	59/64	21/64
#12	3/8	TES12	35/64	35/64	19/32	59/64	23/64
#14	7/16	TES14	5/8	39/64	23/32	1 3/64	7/16

Shallow Universal, inches

	12	Stock No.	A	B	D	E
#8	1/4	TESU8	3/8	1/2	1 15/64	17/64
#10	5/16	TESU10	29/64	1/2	1 23/64	21/64

Deep, inches

	12	Stock No.	A	B	C	D	E
#7	7/32	TEL7	11/32	27/64	1 43/64	2	7/32
#8	1/4	TEL8	3/8	7/16	1 43/64	2	17/64
#10	5/16	TEL10	29/64	29/64	1 43/64	2	21/64

Deep, mm

	mm	Stock No.	A	B	C	D	E
#7	7	TELM7A	10.4	10.9	36.3	50.8	7.3
#8	8	TELM8A	11.7	11.7	36.3	50.8	8.8



WARNING



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

SOCKETS

3/8" Drive Spline Sockets



FES200

Shallow, inches

		Stock No.	A	B	C	D	E
#12	3/8	FES120	35/64	21/32	19/32	1 3/64	23/64
#14	7/16	FES140	5/8	11/16	5/8	1 7/64	7/16
#16	1/2	FES160	23/32	3/4	39/64	1 7/64	29/64
#18	9/16	FES180	53/64	53/64	39/64	1 7/64	15/32
#20	5/8	FES200	57/64	57/64	45/64	1 15/64	35/64



FELM10A

Deep, mm

		Stock No.	A	B	C	D	E
#10	10	FELM10A	14.5	16.8	40.4	54.0	10.0

Deep, inches

		Stock No.	A	B	C	D	E
#12	3/8	FEL120	35/64	5/8	1 41/64	2 1/8	23/64
#14	7/16	FEL140	41/64	43/64	1 3/4	2 1/8	7/16
#16	1/2	FEL160	23/32	23/32	1 55/64	2 1/4	15/32
#18	9/16	FEL180	53/64	53/64	1 55/64	2 3/8	15/32
#20	5/8	FEL200	57/64	57/64	1 27/32	2 3/8	35/64

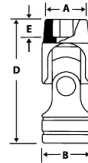


FEL200

1/4" Drive Spline Sockets



FESU160



IMFES14

Shallow Universal, inches

		Stock No.	A	B	D	E
#12	3/8	FESU120	35/64	3/4	1 31/32	23/64
#14	7/16	FESU140	5/8	3/4	2 3/64	7/16
#16	1/2	FESU160	23/32	3/4	2 5/64	29/64
#18	9/16	FESU180	53/64	3/4	2 1/8	15/32

Impact, inches

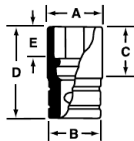
		Stock No.	A	B	C	D	E
#14	7/16	IMFES14	3/4	3/4	5/8	1 7/64	7/16

SAE Spec. MA1547A

1/2" Drive Spline Sockets



SES181



Shallow, inches

		Stock No.	A	B	C	D	E	
#16	1/2	SES161	23/32	55/64	5/8	1 19/64	29/64	•
#18	9/16	SES181	53/64	55/64	5/8	1 19/64	15/32	•
#20	5/8	SES201	57/64	57/64	55/64	1 35/64	35/64	•
#22	11/16	SES221	31/32	31/32	27/32	1 35/64	37/64	•
#24	3/4	SES241	1 3/64	31/32	53/64	1 35/64	37/64	•
#26	13/16	SES261	1 1/8	1 1/8	13/16		37/64	•
#28	7/8	SES281	1 3/16	1 1/8	51/64	1 35/64	37/64	•
#30	15/16	SES301	1 17/64	1 17/64	49/64	1 35/64	37/64	•

Set Contains: 308SES

3/4" and 1" Drive Spline Sockets



LES302

3/4" Drive Shallow, inches

		Stock No.	A	B	C	D	E
#24	3/4	LES242	1 3/64	1 3/8	1	1 51/64	41/64
#30	15/16	LES302	1 3/8	1 3/8	1 7/64	1 59/64	51/64
#34	1 1/16	LES342	1 35/64	1 19/32	1	2 3/64	57/64
#36	1 1/8	LES362	1 5/8	1 1/2	1 3/16	2 3/16	15/16



LES323

1" Drive Shallow, inches

		Stock No.	A	B	C	D	E
#32	1	LES323	1 29/64	1 55/64	1 35/64	2 7/16	53/64
#34	1 1/16	LES343	1 35/64	1 55/64	1 37/64	2 35/64	57/64
#38	1 3/16	LES383	1 23/64	1 63/64	1 25/32	2 51/64	1 1/64