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 ¼" to 2½" 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

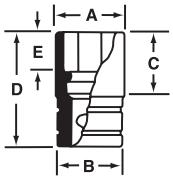
***Snap-on* bit sockets are available in a variety of configurations**

Bit lengths ranging from ¾" to 7"

Standard, stubby and long lengths

Hex, double hex and ball hex

1/4" Drive (Flank Drive®)



112TMMY

TMMD14

110TMY

TMD16

GTMD16

Shallow, mm

Set Contains: 112TMMY / 111TMMDY

mm	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

Set Contains: 110TMY / 110TMDY

11	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"

112TMMSY

TMMDS14

110TMSY

TMDS14

Semi Deep, mm

Set Contains: 112TMMSY / 112TMMDSY

mm	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

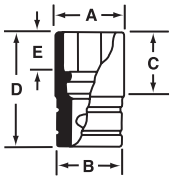
Semi Deep, inches

Set Contains: 110TMSY / 110TMDSY

11	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	6	12	A	B	C	D	E	6 (Set Contains: 112STMMY)	12 (Set Contains: 111STMMDY)
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	•	

*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 STMM4 to STMM14 Deep Sockets (except STMM4.5) (pg 19)
- 24 pcs
- 4, 5 to 14 mm

112STMMY

STMMD14

Deep, inches

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

*Conventional hex

Sets shown include magnetic storage tray

**Larger bolt clearance diameter for servicing aerospace fasteners

110STMY

STMD16

GSTMD14

Long, mm

mm	6 (Set Contains: 102STMML)	A	B	C	D	E	6
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

WARNING

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

1/4" Drive Low Profile

112RTSM

RTSM10

RTSM14

110RTSMA

RTSM15

112RT

RT101

110RT

Low Profile, mm

mm	6	A	B	C	D	E	6 (112RTSM)	6 (110RTSMA)	12 (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

11	12	A	B	C	D	E	12 (112RT)	12 (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	SDMS17
Flat Tip	**SDMS213**	1/4"	•
Phillips	**SDMS222IR**	#2	•
Metric Hex	**SDMSM3**	3 mm	•
	SDMSM4	4 mm	•
	SDMSM5	5 mm	•
	SDMSM6	6 mm	•
	SDMSM8	8 mm	•
Inch Hex	**SDMS8**	1/8"	•
	SDMS9	9/64"	•
	SDMS10	5/32"	•
	SDMS12	3/16"	•
	SDMS16	1/4"	•
Torx	**SDMST15**	T15	•
	SDMST20	T20	•
	SDMST25	T25	•
	SDMST27	T27	•
	SDMST30	T30	•

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

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

BLPS1414

BLPS14716

Shallow, inches

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

BLPLSM145

BLPLSM1412

Deep, mm

mm	6	Length, mm
4	BLPLSM144	50
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

BLPLS1414

BLPLS1412

Deep, inches

11	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

Double Square

11	8	Length, inches
1/4	BLPS81414	1
5/16	BLPS814516	1
3/8	BLPS81438	1

BLPTE145

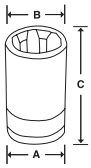
External Torx®

#	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

1/4" Drive



213AFLEY

STLE50

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).

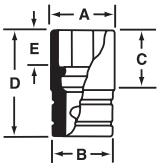
Note: Sets shown include magnetic storage tray

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

TM412



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

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

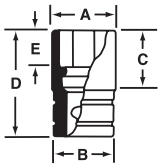
120STTM 6 Point Shallow/Deep Set. TM6 to TM18 shallow sockets (pg 18) and STM6 to STM18 deep sockets (pg 19) (20 pcs) (3/16 to 9/16").

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).



1/4" Drive Impact

112IMTMM

112SIMTMM

Shallow, mm

Set Contains: 112IMTMM

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

Set Contains: 112SIMTMM

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

106SIMTM

Shallow, inches

Set Contains: 106IMTM

11	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

Deep, inches

Set Contains: 106SIMTM

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

ASME/ANSI B107.2

Set includes magnetic storage tray

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

MGM8D

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

Shallow Magnetic, inches

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

WARNING

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

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

MGMMS11B

MGMS10A

Deep Magnetic, mm

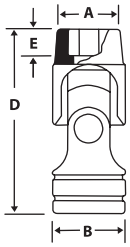
mm	6	A	B	D	E
7	MGMMS7A	10.7	12.4	50.8	5.8
8	MGMMS8A	11.8	12.4	50.8	5.8
10	MGMMS10A	14.1	14.1	50.8	6.4
11	MGMMS11B	15.6	15.6	50.8	6.4
12	MGMMS12B	17.3	17.3	50.8	7.1
13	MGMMS13A	18.1	18.1	50.8	7.6

Deep Magnetic, inches

11	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	6	12	A	B	D	E	111TMUSMA (Set Contains: 6)	106TMUSMA (Set Contains: 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

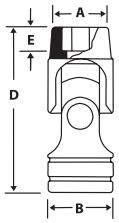
Shallow Universal, inches

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

*Conventional hex

Sets shown include storage tray

1/4" Drive (Flank Drive®) Universal



STMUM10A

GSTMU101A

Deep Universal, mm

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

Deep Universal, inches

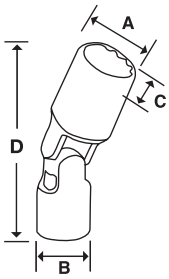
11	12	A	B	D	E
5/16	**GSTMU101A**	15/32	15/32	1 11/16	9/32

1/4" Drive Torx® Universal

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

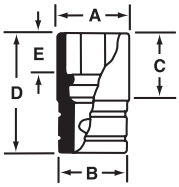
11	6	A	B	D	E	6
1/4	**IPTM8**	27/64	39/64	1 27/64	5/32	•
5/16	**IPTM10**	1/2	39/64	1 1/2	3/16	•
3/8	**IPTM12**	35/64	39/64	1 13/16	7/32	•
7/16	**IPTM14**	41/64	39/64	1 13/16	1/4	•
1/2	**IPTM16**	45/64	46/64	1 13/16	19/64	•
9/16	**IPTM18**	51/64	45/64	1 7/8	5/16	•

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**

3/8" Drive (Flank Drive®)



212FSMY

FM14

GFM9A

Shallow, mm

mm	6	12	12	A	B	C	D	E	6	12
								Set Contains:	212FSMY	212FMY
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

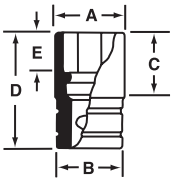
Shallow, inches

6	12	6	12	A	B	C	D	E	6	6	12
								Set Contains:	211FSY	214FSY	211FY
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).

3/8" Drive (Flank Drive®)



212FSMSY FSMS14

211FSSY FSS201

Semi Deep, mm

mm	6	12	A	B	C	D	E	6 (Set Contains: 212FSMSY)
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

11	6	12	A	B	C	D	E	6 (Set Contains: 211FSSY)
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

212SFSMY SFM19

211SFSY GSF181

Deep, mm

mm	6	12	A	B	C	D	E	6 (Set Contains: 212SFSMY)	12 (Set Contains: 212SFMY)
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

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

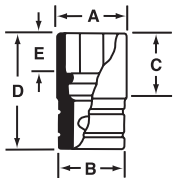
ASME®/ANSI® B107.1

Sets shown include magnetic storage tray

WARNING

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

3/8" Drive Low Profile



210RAFSM

RFM12

Low Profile, mm

mm	6	12	A	B	C	D	E	Set Contains: 210RAFSM 6	210RAFM 12	209RFSM 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

11	12	A	B	C	D	E	Set Contains: 210RARF 12	209RF 12
1/4	RF081	.46	.65		.66	.11	•	•
5/16	RF101	.46	.65		.66	.15	•	•
11/32	RF111	.49	.65		.68	.17		
3/8	RF121	.56	.65		.69	.18	•	•
7/16	RF141	.61	.65		.70	.19	•	•
1/2	RF161	.71	.69	.39	.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

11	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

11	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

Torx

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

BLPTE3810

BLPTE3818

WARNING

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

3/8" Drive Torx® and Special Application

FLE180A

213AFLEY

Torx/Shallow

Set Contains: 213AFLEY / 210AFLEY

#	Stock No.	A	B	C	213AFLEY	210AFLEY
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).

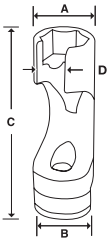
FLEL80

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



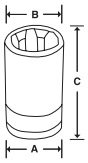
Flank Drive® Flare Nut, mm

Set Contains: 210FRXM

mm	Stock No.	A	B	C	D	210FRXM
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.

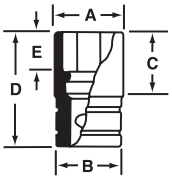
FLCE120

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

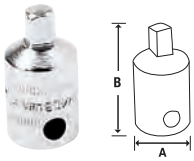
Flank Drive/Flare Nut, inches

Set Contains: 207FRX

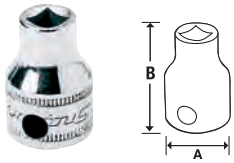
	Stock No.	A	B	C	D	207FRX
3/8	**FRX121**	5/8	3/4	2 3/32	9/32	•
7/16	**FRX141**	23/32	3/4	2 3/32	11/32	•
1/2	**FRX161**	13/16	3/4	2 1/8	3/8	•
9/16	**FRX181**	7/8	13/16	2 15/32	13/32	•
5/8	**FRX201**	15/16	7/8	2 27/32	15/32	•
11/16	**FRX221**	1	15/16	3 7/32	1/2	•
3/4	**FRX241**	1 1/16	1	3 11/32	9/16	•

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)

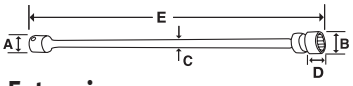
Stock No.	A	B	C
B2190	1 1/8	1/2	1 1/16

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.

B2190

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

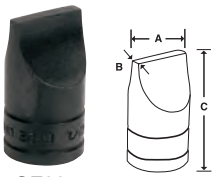
11	Stock No.	B	Stock No.	B
3/16	PPM406A	1 1/8		1
1/4	PPM408A	1 1/8	PP408A	1
9/32	PPM409A	1 1/8	PP409A	1
5/16	PPM410A	1 1/8	PP410A	1
11/32	PPM411A	1 1/8	PP411A	1
3/8	PPM412A	1 1/8	PP412A	1

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

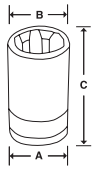
Torx

#	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

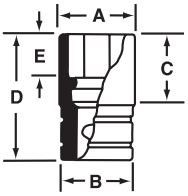


- Impact sockets are heat treated to a lower hardness to add impact resistance
- Black oxide finish
- Designed to absorb repeated impact cycling
- Various applications on European vehicles found on BMW® and *Mercedes-Benz* European vehicles
- Various applications on heavy duty trucks with *Mercedes-Benz* 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**

3/8" Drive (Flank Drive®) Impact



214IMFMYA

IMDFM14

212IMFYA

IMDF180

Shallow, mm

mm	6 (Set Contains: 214IMFMYA)	12 (Set Contains: 207IMDFMYA)	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

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

Sets shown include magnetic storage tray

212IMFMSYA

IMFMS12

210IMFSYA

IMFS16

Semi Deep, mm

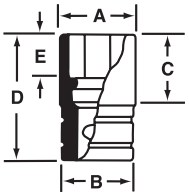
mm	6 (Set Contains: 212IMFMSYA)	A	B	C	D	E	6
8	IMFMS8A	12.8	17.2	29.3	41.3	6.4	•
9	IMFMS9A	14.0	17.2	29.3	41.3	7.1	•
10	IMFMS10A	15.1	17.2	29.3	41.3	9.7	•
11	IMFMS11A	17.2	17.2	29.3	41.3	9.7	•
12	IMFMS12	18.0	18.0	29.3	41.3	9.7	•
13	IMFMS13	19.6	19.6	29.3	41.3	10.4	•
14	IMFMS14	20.4	20.4	29.3	41.3	10.4	•
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

in	6 (Set Contains: 210IMFSYA)	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	6	12	A	B	C	D	E	6 (Set Contains: 214SIMFMYA)	12 (Set Contains: 214SIMDFMYA)
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

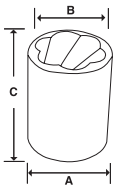
11	6	A	B	C	D	E	6 (Set Contains: 207SIMFYA)	6 (Set Contains: 212SIMFYA)
5/16	SIMF100A	1/2	11/16	1 1/2	2 1/8	3/16		•
3/8	SIMF120A	9/16	11/16	1 1/2	2 1/8	9/32	•	•
7/16	SIMF140A	21/32	3/4	1 1/2	2 1/8	5/16	•	•
1/2	SIMF160	3/4	3/4	1 1/2	2 1/8	3/8	•	•
9/16	SIMF180	13/16	13/16	1 1/2	2 3/8	7/16	•	•
5/8	SIMF200	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



213TSFSYA

Twist, Shallow, inches/mm

11	mm	6	A	B	C	6 (Set Contains: 209TFSMYA)	6 (Set Contains: 213TFSYA)
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)	•	•

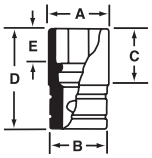
Sets shown include storage tray

Twist, Deep, inches/mm

11	mm	6	A	B	C	6 (Set Contains: 213TSFSYA)
3/8		TSFSY121A	11/16 (17.5)	9/16 (14.3)	2 1/8 (54.0)	•
7/16 (11)		TSFSY141A	11/16 (17.5)	21/32 (16.7)	2 1/8 (54.0)	•
1/2		TSFSY161A	3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•
9/16		TSFSY181A	13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•
5/8 (16)		TSFSY201A	29/32 (23.0)	29/32 (23.0)	2 3/8 (60.3)	•
11/16		TSFSY221A	31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•
3/4 (19)		TSFSY241A	1 1/16 (27.0)	1 1/16 (27.0)	2 5/8 (66.7)	•
10		TSFSY10A	11/16 (17.5)	19/32 (15.1)	2 1/8 (54.0)	•
12		TSFSY12A	11/16 (17.5)	11/16 (17.5)	2 1/8 (54.0)	•
13		TSFSY13A	3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•
14		TSFSY14A	13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•
15		TSFSY15A	13/16 (20.6)	27/32 (21.4)	2 3/8 (60.3)	•
17		TSFSY17A	31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•

Set shown includes storage tray

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

"	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

DFS14

Deep, mm

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

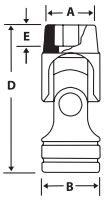
Deep, inches

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

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

Shallow, mm

mm	6	12	A	B	D	E	Set Contains: 206FSUMA 6	Set Contains: 209FUMY 12
8	FSUM8A		11.9	17.2	43.1	6.4		
10	FSUM10A	FUM10A	14.0	18.1	43.5	6.4	•	•
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

206AFSA

FU16B

Shallow, inches

"	6	12	A	B	D	E	Set Contains: 206AFSA 6	Set Contains: 206FUA 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	6	A	B	D	E	Set Contains: 206SFSUM 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

"	6	A	B	D	E	Set Contains: 207FSU 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	•

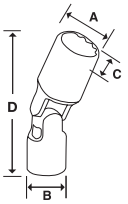
Set shown includes storage tray

WARNING

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

3/8" Drive Torx®/Universal

FSE180



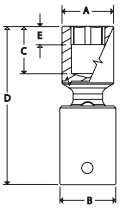
Torx/Universal

#	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

Set Contains: 207IPFM / 212IPFM

mm	6	12	A	B	D	E	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

Shallow, inches

Set Contains: 205IPF

11	6	12	A	B	D	E	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

IPSFM21A

207IPSFM

IPLFM12B

IPLF18B

Semi Deep, mm

Set Contains: 207IPSFM

mm	6	A	B	D	E	6
8	IPSFM8A	12.8	22.2	62.5	6.4	
10	IPSFM10A	15.1	22.2	64.1	9.7	•
11	IPSFM11A	17.2	22.2	65.6	9.7	
12	IPSFM12A	18.0	23.0	70.9	9.7	•
13	IPSFM13A	19.6	23.0	71.9	10.4	•
14	IPSFM14A	20.4	23.0	72.9	10.4	•
15	IPSFM15A	22.0	23.0	74.4	10.4	•
16	IPSFM16A	22.7	23.0	74.9	10.4	
17	IPSFM17A	24.3	23.0	76.0	11.2	•
18	IPSFM18A	25.1	23.0	77.5	11.2	•
19	IPSFM19A	26.7	23.0	79.0	14.2	
21	IPSFM21A	29.2	25.1	77.7	12.4	

Set includes magnetic tray

Deep, mm

Set Contains: 207IPLFM

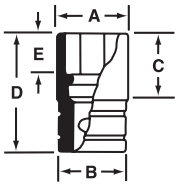
mm	6	A	B	D	E	6
8	IPLFM8B	15.8	24.9	70.1	9.1	
10	IPLFM10B	15.8	24.9	70.1	9.1	•
12	IPLFM12B	16.6	24.9	70.1	9.7	•
13	IPLFM13A	18.8	22.2	79.5	10.4	•
14	IPLFM14A	20.4	22.2	81.0	10.4	•
15	IPLFM15A	21.2	22.2	82.6	10.4	•
16	IPLFM16A	23	25	86.1	10.4	
17	IPLFM17A	23.4	23.0	88.3	10.2	•
18	IPLFM18A	25.1	23.0	90.1	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

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

1/2" Drive (Flank Drive®)



310TWMYA

SWM241

Shallow, mm

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

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

313TWYA

SW241

Shallow, inches

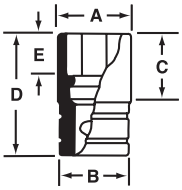
in	6	12	6	12	A	B	C	D	E	313TWYA 6	314GTWYA 6	313SWYA 12
3/8	TW121A	SW121A	GTW121A	GSW121A	19/32	29/32	7/8	1 1/2	5/16	•	•	•
7/16	TW141A	SW141A	GTW141A	GSW141A	11/16	29/32	7/8	1 1/2	11/32	•	•	•
1/2	TW161A	SW161A	GTW161A	GSW161A	3/4	29/32	7/8	1 1/2	13/32	•	•	•
9/16	TW181A	SW181A	GTW181A	GSW181A	13/16	29/32	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

1/2" Drive (Flank Drive®)



313TSMYA

SM24

Deep, mm

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

Sets shown include storage tray

313TSYA

S241

GS201

Deep, inches

in	6	12	6	12	A	B	C	D	E	313TSYA 6	313GTSYA 6	313SYA 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			

ASME®/ANSI® B107.1

Sets shown include storage tray

1/2" Drive (Flank Drive®)

Semi Deep, inches

	12	A	B	C	D	E
3/8	SDH121	19/32	7/8	13/16	1 1/2	9/32
7/16	SDH141	11/16	29/32	13/16	1 1/2	11/32
1/2	SDH161	3/4	29/32	13/16	1 1/2	3/8
9/16	SDH181	27/32	29/32	13/16	1 1/2	13/32
5/8	SDH201	29/32	7/8	13/16	1 1/2	15/32
11/16	SDH221	31/32	15/16	1 1/16	1 3/4	1/2
3/4	SDH241	1 1/16	1 1/32	1 1/16	1 3/4	19/32
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 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).

320TSWMA

1/2" Drive (Blue-Point®)

BLPSM1216

BLPS1234

Shallow, mm

mm	6	Length
12	BLPSM1212	38.1
13	BLPSM1213	38.1
14	BLPSM1214	38.1
15	BLPSM1215	38.1
16	BLPSM1216	38.1
17	BLPSM1217	38.1
18	BLPSM1218	38.1
19	BLPSM1219	38.1
20	BLPSM1220	38.1
21	BLPSM1221	38.1
22	BLPSM1222	38.1
24	BLPSM1224	38.1

Shallow, inches

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

WARNING

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

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

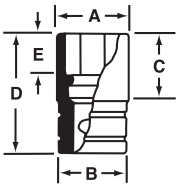
BLPTE1220

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

SW420

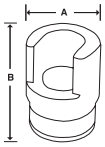


Double Square, inches

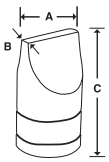
	Stock No.	A	B	C	D	E
3/8	**SW412**	23/32	7/8	7/8	1 1/2	5/16
7/16	**SW414**	51/64	7/8	7/8	1 1/2	3/8
1/2	**SW416**	29/32	7/8	7/8	1 1/2	13/32
9/16	**SW418**	31/32	29/32	7/8	1 1/2	7/16
5/8	**SW420**	1 1/16	1	7/8	1 1/2	1/2
11/16	**SW422**	1 3/16	1 1/8	7/8	1 1/2	1/2
3/4	**SW424**	1 9/32	1 3/16	7/8	1 1/2	9/16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



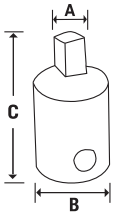
Weatherhead®, inches

	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

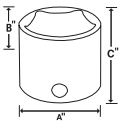
1/2" Drive Special Application



PPM516A

Pipe Plug, inches

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

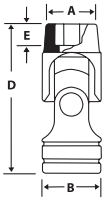


B2191

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.



SU24

Universal, inches

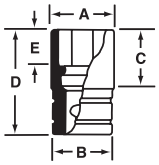
11	6	A	B	D	E
9/16	SU18	27/32	15/16	2 7/16	11/32
5/8	SU20	15/16	15/16	2 15/32	3/8
11/16	SU22	1 1/16	1 1/16	2 9/16	7/16
3/4	SU24	1 1/8	1 1/8	2 7/8	1/2
13/16	SU26	1 3/16	1 1/8	2 15/16	9/16
7/8	SU28	1 1/4	1 1/8	2 15/16	9/16
15/16	SU30	1 5/16	1 1/8	3	9/16

ASME®/ANSI® B107.1

1/2" Drive *Flank Drive* Impact

315IMMYA

IMDM150A



Shallow, mm

mm	6	12	A	B	C	D	E	315IMMYA 6	312IMM 6	310IMMYA 6	315IMDMYA 12
10	IMM100A	IMDM100A	15	22.6	22.2	38.1	7.9	•		•	•
11	IMM110A	IMDM110A	18.2	22.6	22.2	38.1	8.7	•		•	•
12	IMM120A	IMDM120A	19	24.3	22.2	38.1	9.5	•		•	•
13	IMM130A	IMDM130A	20.6	24.3	22.2	38.1	10.3	•		•	•
14	IMM140A	IMDM140A	22.2	24.3	22.2	38.1	10.3	•		•	•
15	IMM150A	IMDM150A	23.8	26.4	22.2	38.1	10.3	•	•	•	•
16	IMM160A	IMDM160A	24.6	26.4	22.2	38.1	11.9	•	•	•	•
17	IMM170A	IMDM170A	25.4	26.7	22.2	38.1	12.7	•	•	•	•
18	IMM180	IMDM180	26.7	26.7	19.1	38.1	12.7	•	•	•	•
19	IMM190	IMDM190	28.3	28.3	21.3	38.1	12.7	•	•	•	•
20	IMM200	IMDM200	29.9	29.9	21.1	38.1	14.2	•	•		•
21	IMM210	IMDM210	31.5	31.5	21	38.1	14.2	•	•		•
22	IMM220	IMDM220	33.3	33.3	21.4	38.1	15.9	•	•		•
23	IMM230	IMDM230	34.1	34.1	27.8	44.5	15.9	•	•		•
24	IMM240	IMDM240	34.9	34.9	27.8	44.5	15.9	•	•		•
25	IMM250		29.8	29.8	27	44.5	15.9		•		
26	IMM260		38.1	38.1	33.3	50.8	15.9				
27	IMM270		39.4	39.4	27.1	50.8	20.3		•		
29	IMM290		41.1	41.1	33.3	50.8	21.1				
30	IMM300		42.7	42.7	32.1	50.8	21.6				
32	IMM320	IMDM320	45.8 (45.7)	45.8 (45.7)	32.1 (36.8)	50.8	22.4 (20.6)				
34	IMM340		47.6	42.9	40.5	52.4	22.4				
36	IMM360	IMDM360	50.5 (50.8)	45.8 (46.0)	40.5 (41.3)	57.2	22.4 (22.2)				
39		IMDM390	53.8	39.6	36.8	50.8	22.3				
46	IMM460		64.8	47.6	50.3	69.9	29.7				

Dimensions in ( ) apply to 12 point sockets only.

Sets 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

1/2" Drive (Flank Drive®) Impact

311IMYA

IMD200

Shallow, inches

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

Sets shown include storage tray

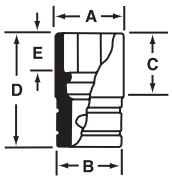
312IMMS

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	A	B	C	D	E	315SIMMYA 6	312SIMM 6	310SIMMYA 6	305SIMMY 6	325SIMM 6
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

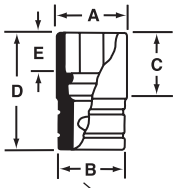
"	6	A	B	C	D	E	313SIMA 6	309SIMYA 6	320SIM* 6
3/8	SIM120A	19/32	29/32	2 5/8	3 1/4	5/16			•
7/16	SIM140A	23/32	29/32	2 5/8	3 1/4	11/32			•
1/2	SIM160A	13/16	29/32	2 5/8	3 1/4	3/8	•	•	•
9/16	SIM180A	7/8	29/32	2 5/8	3 1/4	13/32	•	•	•
5/8	SIM200	31/32	29/32	2 5/8	3 1/4	15/32	•	•	•
11/16	SIM220	1 1/16	1 1/16	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

1/2" Drive (Flank Drive®) Impact

311IMFSY



Set Contains: 311IMFSY

Shallow Thin Wall, inches

		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	

Set shown includes storage tray

SIMML150

Extra Deep, mm

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.

mm		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

SIML200

Extra Deep, inches

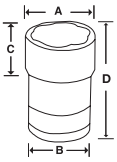
		A	B	C	D	E
1/2	SIML160*	25/32	15/16	4 1/4	5	3/8
9/16	SIML180	7/8	15/16	4 1/4	5	13/32
5/8	SIML200	31/32	1	4 1/4	5	15/32
11/16	SIML220	1 1/16	1 1/16	4 1/4	5	1/2
3/4	SIML240	1 1/8	1 1/8	4 1/4	5	9/16
13/16	SIML260	1 1/4	1 1/4	4 1/4	5	19/32
7/8	SIML280	1 5/16	1 5/16	4 1/4	5	21/32
15/16	SIML300	1 3/8	1 3/8	4 1/4	5	23/32
1	SIML320	1 7/16	1 7/16	4 3/8	5	3/4
1 1/16	SIML340	1 9/16	1 9/16	4 3/8	5	25/32
1 1/8	SIML360	1 5/8	1 5/8	4 3/8	5	25/32

*ASME®/ANSI® B107.2

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

1/2" Drive Special Application Impact

TTWY281A



Twist/Shallow, inches

Removes rounded/damaged fasteners

	Stock No.	A	B	C	D
3/4	TTWY241A	1 1/32	1	1	1 5/8
13/16	TTWY261A	1 1/8	1	1	1 5/8
7/8	TTWY281A	1 3/16	1 1/16	1	1 5/8
15/16	TTWY301A	1 1/4	1 3/16	1	1 5/8
1	TTWY321A	1 5/16	1 1/4	1	1 5/8

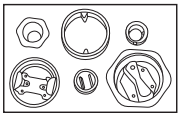
305TTWYA Shallow Twist Set. TTWY241A to TTWY321A (5 pcs) (3/4 to 1").

SPS10

Shackle Pin

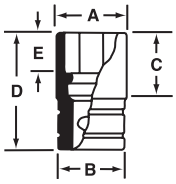
Designed with an oval configuration to service shackle pins on International Harvester® and Kenworth® semi trucks.
SPS10 41/64" x 1 3/32" x 1 3/4" long.
SPS11 21/32" x 1 17/32" x 1 3/4" long

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.



1/2" Drive Special Application Impact

SIP18A

Deep Swivel, inches

	6	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

Semi Deep Swivel, mm

mm	6	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

mm	6	A	B	C	D	E
17	SPM17	24.6	24.6	66.6	82.6	12.7
19	SPM19	26.4	26.4	64.8	82.6	11.9
21	SPM21	28.3	28.3	64.8	82.6	12.3

DTM15A

Surface Drive Shallow, mm

mm	6	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

mm	6	A	B	C	D	E
13	DTSM13A	19.3	21.8	65.8	82.6	10.2
15	DTSM15A	22.3	21.8	65.8	82.6	10.7

DTS16A

Surface Drive Deep, inches

	6	A	B	C	D	E
1/2	DTS16A	3/4	29/32	2 19/32	3 1/4	13/32
9/16	DTS18A	13/16	29/32	2 19/32	3 1/4	13/32

1/2" Drive Special Application Power

P412

Shallow Double Square, inches

	8	A	B	C	D	E
3/8	P412	13/32	7/8	7/8	1 1/2	5/16
7/16	P414	13/16	15/16	7/8	1 1/2	3/8
1/2	P416	29/32	1	7/8	1 1/2	5/16
9/16	P418	1	1 1/8	7/8	1 1/2	1/2
5/8	P420	1 3/32	1 3/16	7/8	1 1/2	1/2
11/16	P422	1 7/32	1 1/4	7/8	1 1/2	13/32
3/4	P424	1 5/16	1 3/8	7/8	1 1/2	9/16
13/16	P426	1 7/16	1 7/16	7/8	1 1/2	5/8
7/8	P428	1 1/2	1 1/2	1 1/32	1 3/4	5/8
1	P432	1 23/32	1 3/4	1 1/8	1 3/4	3/4

SIPR426

Deep Double Square, inches

	8	A	B	C	D	E
13/16	SIPR426	1 7/16	1 3/8	2 9/16	3 1/4	5/8
1	SIPR432	1 3/4	1 1/2	2 11/16	3 1/2	3/4
1 1/8	SIPR436	1 15/16	1 51/64	2 23/32	3 1/2	27/32

SIPRL436

Extra Deep Double Square, inches

	8	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

	6	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

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

307IPLMY IPDLM12

Shallow Swivel, mm

mm	6	12	A	B	D	E	307IPLMY 6	312IPLM 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

11	6	12	A	B	D	E	307IPLY 6	312IPL 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

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

LDH482

Shallow, inches

11	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

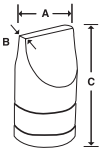
3/4" Drive Special Application

LDHM362

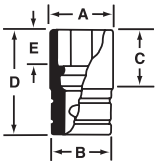
Shallow, mm

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

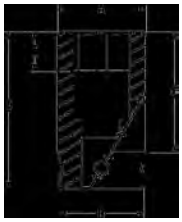


Deep, inches

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

Drag Link, inches

Stock No.	B x A	A	B	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	6	12	A	B	C	D	E	6 (Set Contains: 425IMM)
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	6	12	A	B	C	D	E	6 (Set Contains: 425IMM)
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

II	6	12	A	B	C	D	E	6 (Set Contains: 429IM)	6 (Set Contains: 417IM)	6 (Set Contains: 418IM)	12 (Set Contains: 429IMD)	12 (Set Contains: 417IMD)	12 (Set Contains: 418IMD)
9/16	IM182A	IMD182A	1	1 5/8	1	1 3/4	7/16	•			•		
5/8	IM202A	IMD202A*	1 3/32	1 5/8	1	1 3/4	1/2	•			•		
11/16	IM222A	IMD222A	1 5/32	1 5/8	1	1 3/4	9/16	•			•		
3/4	IM242A	IMD242A	1 1/4	1 5/8	1	1 3/4	9/16	•	•		•	•	
13/16	IM262A	IMD262A	1 3/8	1 5/8	1 1/8	1 7/8	5/8	•	•		•	•	
7/8	IM282A	IMD282A	1 1/2	1 5/8	1 1/8	1 7/8	5/8	•	•		•	•	
15/16	IM302A	IMD302A*	1 9/16	1 5/8	1 1/8	1 7/8	3/4	•	•		•	•	
1	IM322A	IMD322A*	1 5/8	1 5/8	1 1/4	2	3/4	•	•		•	•	
1 1/16	IM342A	IMD342A	1 11/16	1 5/8	1 1/4	2	3/4	•	•		•	•	
1 1/8	IM362	IMD362A	1 7/8	1 5/8	1 3/8	2 1/8	3/4	•	•		•	•	
1 3/16	IM382	IMD382	1 7/8	1 5/8	1 5/16	2 1/8	3/4	•	•		•	•	
1 1/4	IM402	IMD402	2	1 3/4	1 3/8	2 1/8	13/16	•	•	•	•	•	•
1 5/16	IM422	IMD422	2 1/8	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 3/8	IM442	IMD442	2 1/8	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 7/16	IM462	IMD462	2 1/4	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 1/2	IM482	IMD482	2 1/4	1 3/4	1 1/2	2 1/4	15/16	•	•	•	•	•	•
1 9/16	IM502	IMD502	2 7/16	1 3/4	1 9/16	2 3/8	15/16	•	•	•	•	•	•
1 5/8	IM522	IMD522	2 7/16	1 3/4	1 5/8	2 3/8	7/8	•	•	•	•	•	•
1 11/16	IM542	IMD542	2 1/2	1 3/4	1 13/16	2 9/16	1	•	•	•	•	•	•
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**

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

Deep, inches

11	6	A	B	C	D	E	6 (Set Contains: 423SIM)
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.

3/4" Drive (Flank Drive®) Impact

Thin Wall, inches

11	12	A	B	C	D	E
3/4	**IMFDL242**	1 3/8	1 5/8	4 3/4	5 3/4	1/2

Larger sizes available on special order.

IMFDL242

IMFDL242 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)

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"

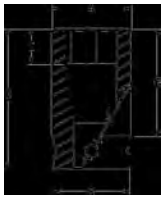
1" Drive (*Flank Drive*) Impact

IMM503

Shallow, 6 Point, mm

Set Contains: 516IMM

mm	6	A	B	C	D	E	6
27	**IMM273**	44.5	53.8	27.0	57.2	17.5	•
30	**IMM303**	47.8	53.8	27.0	57.2	17.5	•
32	**IMM323**	50.8	53.8	33.3	63.5	19.1	•
33	**IMM333**	52.3	53.8	33.3	63.5	22.4	•
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	•



1" Drive (Flank Drive®) Impact

IM703

Shallow, 6 Point, inches

							Set Contains: 521IM	516IM	522IM
	6	A	B	C	D	E			
3/4	IM243	1 7/16	2 1/8	1	2 1/8	11/16	•		
13/16	IM263	1 7/16	2 1/8	1	2 1/8	11/16	•		
7/8	IM283	1 1/2	2 1/8	1	2 1/8	11/16	•		
15/16	IM303	1 19/32	2 1/8	1	2 1/8	11/16	•		
1	IM323	1 11/16	2 1/8	1 1/16	2 1/4	11/16	•		
1 1/16	IM343	1 3/4	2 1/8	1 1/16	2 1/4	11/16	•		
1 1/8	IM363	1 7/8	2 1/8	1 1/16	2 1/4	11/16	•		
1 3/16	IM383	1 7/8	2 1/8	1 1/16	2 1/4	11/16	•		
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

							Set Contains: 521IM	516IM	522IM
	6	A	B	C	D	E			
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			•

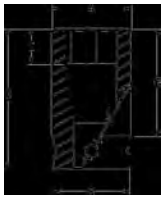
SIMM323

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.

1" Drive (Flank Drive®) Impact



SIM563

Deep, inches

11	6	A	B	C	D	E	Set Contains: 519SIM	520SIM	517SIM
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

11	4	A	B	C	D	E
3/4	IM724	1 15/16	2 1/8	31/32	2 1/8	21/32
13/16	IM726	1 15/16	2 1/8	31/32	2 1/8	21/32
7/8	IM728	2 1/16	2 1/8	31/32	2 1/8	21/32
15/16	IM730	2 1/16	2 1/8	15/16	2 1/8	5/8
1	IM732	2 1/8	2 1/8	1 3/32	2 1/4	25/32
1 1/8	IM736	2 1/4	2 1/4	1 3/32	2 1/4	25/32

IM740

Shallow Double Square, inches

11	8	A	B	C	D	E
1 1/4	IM740	2 3/8	2 3/8	1 1/8	2 3/8	13/16

IM243R

IM243P

1" Drive Locking Rings and Pins

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

1 1/2" Drive Flank Drive® Impact

IMM365

Shallow, mm

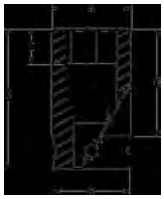
mm	6	A	B	C	D	E
36	IMM365	73.0	82.6	34.5	76.2	25.4
38	IMM385	73.0	82.6	34.5	76.2	25.4
41	IMM415	73.0	82.6	34.5	76.2	27.7
46	IMM465	79.4	82.6	40.9	82.6	29.7
50	IMM505	79.4	82.6	47.2	88.9	31.8
55	IMM555	88.9	82.6	47.2	88.9	35.6
60	IMM605	94.5	82.6	58.2	101.6	38.6
65	IMM655	99.2	82.6	56.6	101.6	41.4
70	IMM705	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: 619IM	616IM	618IM	609IM
11	6	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				•



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

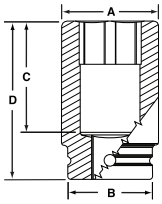
IM243R

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

2 1/2" Drive (Flank Drive®) Impact



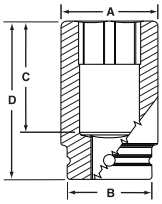
IM2209

Shallow, inches

11	6	A	B	C	D	Set Contains: 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

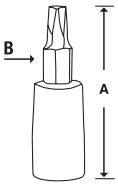
2 1/2 Drive (Flank Drive®) Impact



IMM1159

Shallow, mm

mm	6	A	B	C	D	Set Contains: 713IMM	710MM	709IMM
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			•



212EFTXY

GFTX45E

Torx/Standard

#	Stock No.	Stock No.	Square Drive, In.	A	B	212EFTXY	207EFTXY
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**

Torx® Bit Sockets

207EFTXYSE

Torx/Stubby

#	Stock No.	Square Drive, In.	A	B	207EFTXYSE
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

#	Stock No.	Square Drive, In.	A	105TUTX
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

#	Stock No.	Square Drive, In.	A	B	209EFTXBY
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

Torx® Bit Sockets

210EFTXRY
Torx/Tamper Resistant

Set Contains: 210EFTXRY

#	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.

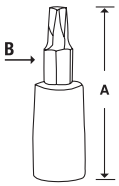
Set Contains: 211EFTXRTPY

#	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.

FTXEL45E



211EFTXTPY
Torx Plus®

Set Contains: 211EFTXTPY

#	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

Special Application *Torx* (3/8" Drive)

#	Stock No.	Description	Square Drive, inches	A	B
T40	**FTXEL40E**	Extra Long	3/8	7 1/2	**FTXEL40E2**
T47	**FTX47E**	GM Style	3/8	2 1/16	**FTX47E2**
T45	**FTXEL45E**	Extra Long	3/8	7 11/16	**FTXEL45E2**
T40	**FTXR40TPE**	Tamper Resistant	3/8	1 3/4	**FTXR40TPE2**
T47	**GFTX500E**	GM Style	3/8	2 1/16	**FTX500E2**
T30	**FTXEL30TPE**	Extra Long	3/8	5	**FTXEL30TPEZ**

FTXEL40E Applications include service on intake manifold bolts on *Ford* 5.0 L engines with fuel injection, model years 1985 to 1990.
FTXEL45E Quickly and easily access intake bolts on *Cummins* N14 diesel engines without removing the air pump. Can also be used on older *Cummins* NH Big Cam 4 diesel engines. 3/8" square drive.
FTX47E For use on *GM* door strikers.
GFTX500E For use on *GM* door strikers and seat belt bolts.
FTXEL30TPE 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® Bit Sockets (Blue-Point®)

BLPTORX1410

Torx/Stubby

#	Stock No.	Square Drive, in.	A	Set Contains: BLPTORX1410
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

BLPTS1425TP

Torx/ Tamper Resistant, Stubby

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

Torx/ Tamper Resistant, Long

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

BLPTL1425TP

Torx/ Tamper Resistant, Standard

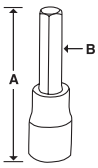
#	Stock No.	Square Drive, in.	A
T6	BLPT146TP	1/4	1 7/16
T7	BLPT147TP	1/4	1 7/16
T8	BLPT148TP	1/4	1 7/16
T9	BLPT149TP	1/4	1 7/16
T10	BLPT1410TP	1/4	1 7/16
T15	BLPT1415TP	1/4	1 7/16
T20	BLPT1420TP	1/4	1 7/16
T25	BLPT1425TP	1/4	1 7/16
T27	BLPT1427TP	1/4	1 7/16
T30	BLPT1430TP	1/4	1 7/16
T10	BLPT3810TP	3/8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

BLPT3820TP

WARNING

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

Metric Hex Bit



211EFAMY

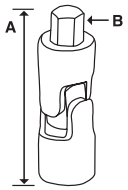
210EFTAMY

LAWM19E

Hex/Standard, mm

mm		Square Drive, In.	A	B	106ETMAMY	207EFAMY	210EFTAMY	211EFAMY	307ESAMY
2	TMAM2E	1/4	47.8	TMAM2E2A	●		●		
2.5	TMAM2.5E	1/4	47.8	TMAM2.5E2	●		●		
3	TMAM3E	1/4	47.8	TMAM3E2	●		●		
4	TMAM4E	1/4	47.8	FAM4E2	●				
5	TMAM5E	1/4	47.8	FAM5E2	●				
6	TMAM6E	1/4	47.8	FAM6E2	●				
4	FAM4E	3/8	52.3	FAM4E2		●	●	●	
5	FAM5E	3/8	52.6	FAM5E2		●	●	●	
6	FAM6E	3/8	52.6	FAM6E2		●	●	●	
7	FAM7E	3/8	52.6	FAM7E2		●	●	●	
8	FAM8E	3/8	52.6	FAM8E2		●	●	●	
9	FAM9E	3/8	52.6	FAM9E2		●	●	●	
10	FAM10E	3/8	52.6	SAM10E2		●	●	●	
11	FAM11E	3/8	69.9	FAM11E2				●	
12	FAM12E	3/8	69.9	FAM12E2				●	
13	FAM13E	3/8	69.9	FAM13E2				●	
14	FAM14E	3/8	69.9	FAM14E2				●	
6	SAM6E	1/2	60.5	FAM6E2					●
8	SAM8E	1/2	62	FAM8E2					●
10	SAM10E	1/2	62.8	SAM10E2					●
12	SAM12E	1/2	81	SAM12E2					●
14	SAM14E	1/2	81	SAM14E2					●
17	SAM17E	1/2	93.7	SAM17E2					●
19	SAM19E	1/2	103.1	SAM19E2					●
17	LAWM17E	3/4	4 1/8"	SAM17E2					
19	LAWM19E	3/4	4 13/32"	SAM19E2					

Sets include magnetic storage tray



TUAM6E

Hex/Universal Stubby, mm

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

Ball Hex/Standard, mm

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

Set includes magnetic storage tray

208EFTAMXSY

Hex/Stubby, mm

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

Set includes magnetic storage tray

206EFAML

Hex/Long, mm

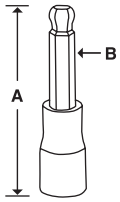
mm		Square Drive, In.	A	B	206EFAML
4	FAML4E	3/8	153.9	FAML4E2	●
5	FAML5E	3/8	153.9	FAML5E2	●
6	FAML6E	3/8	153.9	FAML6E2	●
7	FAML7E	3/8	153.9	FAML7E2	●
8	FAML8E	3/8	153.9	FAML8E2	●
10	FAML10E	3/8	153.4	FAML10E2	●
10	SAM10LE	1/2	152.4	SAM10LE2	
12	SAM12LE	1/2	98.0	SAM12LE2	

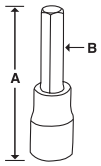
SAM12LE Applications: Essential for removal or installation of bolt found on the lower forks of 2006 and newer Harley-Davidson® Dyna series. Used when servicing the internal parts of the fork.

208EFTABMY

Metric Hex Bit

206EFABLM





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.

Ball Hex/Long, mm

Set Contains: 206EFABLM

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

Set shown includes storage tray

Double Hex, mm

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

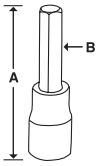
FADM8E / FADM8LE Applications: Removal/installation of head bolts on Toyota® Tercel 1995 and later, and Paseo (1992 to 1997). **SADM10E** Applications: Removal/installation of head bolts on *Toyota* Highlander, 4Runner, Camry, Matrix, Corolla and Lexus® IS300, GS300, SC300 vehicles.

Hex, mm (Power)

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

PFAM6E

Metric Hex Bit (Blue-Point®)



BLPH3810

BLPHEXS1418

Hex, mm

mm		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		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

Hex Bit

212EFTAY

208EGFAY

IMA283

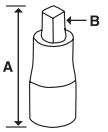
Hex/Standard, inches

Inches			Square Drive, In.	A	B	Length with Opt. Long Bit	Optional Long Bit	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			●				
Inches			**Square Drive, In.**	**A**	**B**	**Fits These Cap Screws**	**Fits These Set Screws**					
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

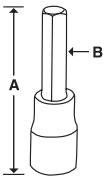


Hex/Stubby, inches

Inches		Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	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

206EFAL



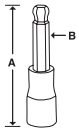
Hex/Extra Long, inches

Inches		Square Drive, In.	A	Fits These Cap Screws	Fits These Set Screws	B	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

Hex Bit

208EFTABY



Ball Hex/Standard, inches

Set Contains: 208EFTABY

		Square Drive, In.	A	B	
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

206EFABL

Ball Hex/Long, inches

Set Contains: 206EFABL

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

Sets shown include storage tray

PFA8E

Hex, inches (Power)

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

Hex, inches

		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

BLPHEXS1418

Hex Standard, inches

		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

Hex/Stubby, inches

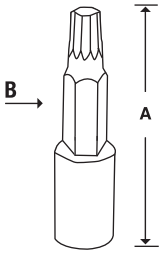
		Square Drive, In.	A
5/64	BLPHS14564	1/4	3/4
3/32	BLPHS14332	1/4	3/4
7/64	BLPHS14764	1/4	3/4
5/32	BLPHS14532	1/4	3/4
3/16	BLPHS14316	1/4	3/4
7/32	BLPHS14732	1/4	3/4
1/4	BLPHS1414	1/4	3/4
5/16	BLPHS14516	1/4	3/4
3/8	BLPHS1438	1/4	3/4

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

WARNING

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

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.	A	B	Set Contains: TSSKIT
Standard Length	4	FTSM4E	3/8	48.5	FTSM4E2	
	5	FTSM5E	3/8	48.5	FTSM5E2	
	6	FTSM6E	3/8	48.5	FTSM6E2	•
	8	FTSM8E	3/8	58	FTSM8E2	•
	10	FTSM10E	3/8	67.8	FTSM10E2	•
Long	8	FTSM8LE	3/8	84.6	FTSM8LE2	
	10	FTSM10LE	3/8	101.6	FTSM10LE2	
	10	STSM10E	1/2	88.9	STSM10E2	
	12	STSM12E	1/2	109.5	STSM12E2	•
	12	STSM12LE	1/2	147.6	STSM12LE2	
	14	STSM14E	1/2	108.0	STSM14E2	•
	16	STSM16E*	1/2	108.0	STSM16E2	•
	18	STSM18E	1/2	108.0	STSM18E2	

*Tamper Resistant

Set shown includes storage tray

Applications:
FTSM6E (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 axel 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: 305STSMSE
10	STSM10SE	59.4	STSM10SE2	•
12	STSM12SE	59.4	STSM12SE2	•
14	STSM14SE	63.2	STSM14SE2	•
16	STSM16SE	68.1	STSM16SE2	•
18	STSM18SE	69.8	STSM18SE2	•

Set 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.

Triple Square Bit (Blue-Point®)

BLPXZNM389

Triple Square, mm

mm	Stock No.	Square Drive, in.	Set Contains: BLPXZNM389
4	BLPXZNM384	3/8	•
5	BLPXZNM385	3/8	•
6	BLPXZNM386	3/8	•
8	BLPXZNM388	3/8	•
10	BLPXZNM3810	3/8	•
12	BLPXZNM3812	3/8	•
14	BLPXZNM3814	3/8	•
16	BLPXZNM3816	3/8	•
18	BLPXZNM3818	3/8	•

Set shown includes storage tray

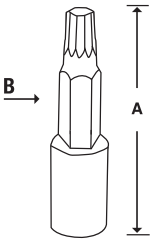
BLPXZN146

Triple Square/Stubby, mm

mm	Stock No.	Square Drive, in.	A 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

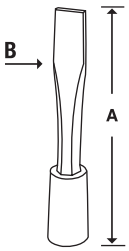
SPDL10E Socket Driver. Use to remove and install #10 Polydrive cylinder head bolts on 1998 and later VW®/Audi® vehicles with 5 valve motors. 1/2" Drive.

Flat Tip Bit

Flat Tip, inches

	"	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
	5/8 x .093	SW40E		1/2	3 1/4	SW40E2A
Short	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



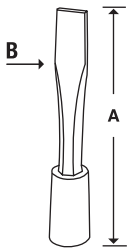
F23E

GF31E

WARNING

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

Flat Tip Bits



BLPFT14732

BLPFS1438

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

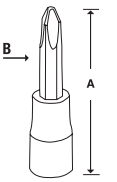
Phillips® Bits

GFP22E

FPS32E

BLPP383

FP34E



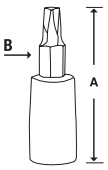
Phillips (Blue-Point)

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

Phillips/Standard

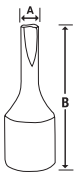
		Stock No.	Industrial Stock No.	Square Drive, In.	A	B
Standard Length	#1	TMP12E	GTMP12E	1/4	1 7/8	TMP12E2
	#2	TMP22E		1/4	1 7/8	FP22E2
	#2	FP22E	GFP22E	3/8	2 1/16	FP22E2
	#3	FP32E		3/8	2 5/16	FP32E2
	#4	FP41E		3/8	1 21/32	FP41E2
	#3	SP32E		1/2	2 3/16	SP32E2
	#4	SP42E		1/2	2 5/16	SP42E2
Short	#2	TMP21E		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

Pozidriv® and Clutch® Drivers



FPD32E

BLPPD383



F29E

Pozidriv

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

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

		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.

208EPIT

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

PIT2230E

PIT120

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.

PIT160

PIT3120EB

WARNING

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

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	1/4
	BLPT147TP	T7	1/4
	BLPT148TP	T8	1/4
	BLPT149TP	T9	1/4
	BLPT1410TP	T10	1/4
	BLPT1415TP	T15	1/4
	BLPT1420TP	T20	1/4
	BLPT1425TP	T25	1/4
	BLPT1427TP	T27	1/4
	BLPT1430TP	T30	1/4
	BLPT3840TP	T40	3/8
	BLPT3845TP	T45	3/8
	BLPT3850TP	T50	3/8
	BLPT1255TP	T55	1/2
	BLPT1260TP	T60	1/2
***Torx* Tamper Resistant Long Bit Sockets**	**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

BLPHSSC30

Combination Socket Driver Set (30 pcs)

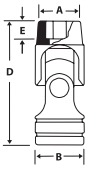
	Stock No.	Size	Drive Size, inches		Stock No.	Size	Drive Size, inches
Hex, inches	BLPH1418	1/8	1/4	Hex, mm	BLPH1425	2.5	1/4
	BLPH14964	9/64	1/4		BLPH386	6	3/8
	BLPH14532	5/32	1/4		BLPH387	7	3/8
	BLPH14316	3/16	1/4		BLPH388	8	3/8
	BLPH14732	7/32	1/4		BLPH389	9	3/8
	BLPH1414	1/4	1/4		BLPH3810	10	3/8
	BLPH38732	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	9/19	1/2		BLPH1214	14	1/2
	BLPH1258	5/8	1/2		BLPH1217	17	1/2
	BLPH1234	3/4	1/2		BLPH1219	19	1/2

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.

TES10

Shallow, inches

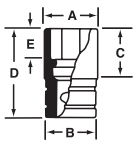
		Stock No.	A	B	C	D	E
#7	7/32	TES7	11/32	27/64	29/64	59/64	7/32
#8	1/4	TES8	3/8	27/64	29/64	59/64	17/64
#9	9/32	TES9	7/16	3/16	37/64	59/64	19/64
#10	5/16	TES10	29/64	29/64	19/32	59/64	21/64
#12	3/8	TES12	35/64	35/64	19/32	59/64	23/64
#14	7/16	TES14	5/8	39/64	23/32	1 3/64	7/16

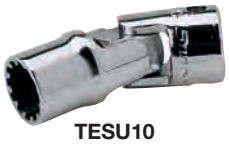
TEL10

Deep, inches

		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

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.





TESU10

Shallow Universal, inches

		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, 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

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

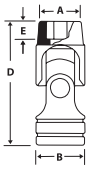
FEL200

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

1/4" Drive Spline Sockets

FESU160



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

SAE Spec. MA1547A

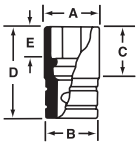
IMFES14

Impact, inches

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

1/2" Drive Spline Sockets

SES181



Shallow, inches

		Stock No.	A	B	C	D	E	Set Contains: 308SES
#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	●

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