

The Finest Wrenches. Period.

Snap-on® wrenches are precision-crafted from a special alloy steel to achieve the results that technicians have come to expect.

- Flank Drive® Plus open end—The series of flutes and notches exceed the performance of any other open end design and provide more turning power and strength.
- Flank Drive box end—12-point design allows you to get the full power out of the wrench's box end.
- Open end offset—Standard open ends are angled 15 degrees so you can flip the wrench for a new bite.
- Continuous arc open end—Minimizes jaw spread for constant contact with the fastener, delivering maximum turning power.
- Nickel-chrome finish—For a corrosion-resistant, distinctive look.
- Longer standard wrenches—All standard length wrenches feature an extended length to provide the most leverage possible.

You Work With Your Hands. Your Hands Work Best With Great Wrenches.

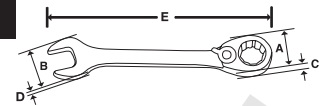
Snap-on offers wrenching solutions for every application.

- Flex head wrenches—Feature a flexible box end equipped with 12-point Flank Drive technology.
- Ratcheting box wrenches—Improve your productivity in tight spaces with options to fit a wide variety of jobs.
- Ergonomic adjustable wrenches—Provide improved turning power while reducing user fatigue.
- Specialty wrenches—From half moon to “S” shaped designs to angle heads, we set the bar on specialty designs for unique jobs.



WRENCHES

Flank Drive® Plus Combination Ratcheting Box/Open End



- Open end features Flank Drive Plus wrenching configurations that deliver up to 62% more turning power than conventional wrenches
- Longer overall length increases leverage to let the wrench do the work

- 12-pt box end features the Flank Drive wrenching configuration, the proven design for turning fasteners
- Up to 80 gear teeth require minimal movement in tight areas



SOEXRM710



SOEXR707

15° Standard Handle, mm

Set Contains:

mm	12	A	B	C	D	E	Reverse Lever Repair Kit	12
8	SOEXRM8	17.8	17.0	7.1	4.3	149	RKW1	
9	SOEXRM9	19.6	19.2	7.9	4.7	164	RKW2	
10	SOEXRM10	21.5	21.1	8.3	5.1	179	RKW3	•
11	SOEXRM11	22.0	23.4	8.6	5.5	194	RKW3	•
12	SOEXRM12	23.5	25.1	9.3	5.9	207	RKW4	•
13	SOEXRM13	25.0	27.2	10.2	6.3	221	RKW5	•
14	SOEXRM14	27.0	29.2	10.2	6.7	235	RKW6	•
15	SOEXRM15	28.5	31.2	11.1	7.1	249	RKW7	•
16	SOEXRM16	30.5	33.0	11.1	7.4	261	RKW8	•
17	SOEXRM17	32.0	35.1	12.0	7.8	277	RKW9	•
18	SOEXRM18	34.5	37.1	12.0	8.2	291	RKW10	•
19	SOEXRM19	36.5	39.4	12.9	8.6	305	RKW11	•

Set shown includes storage tray

15° Standard Handle, inches

Set Contains:

in	12	A	B	C	D	E	Reverse Lever Repair Kit	12
3/8	SOEXR12	27/32	27/32	5/16	3/16	7	RKW3	•
7/16	SOEXR14	7/8	29/32	11/32	7/32	7 5/8	RKW3	•
1/2	SOEXR16	31/32	1 1/16	13/32	1/4	8 11/16	RKW5	•
9/16	SOEXR18	1 1/16	1 5/32	13/32	1/4	9 1/4	RKW6	•
5/8	SOEXR20	1 3/16	1 5/16	7/16	9/32	10 1/4	RKW8	•
11/16	SOEXR22	1 1/4	1 3/8	15/32	5/16	10 7/8	RKW9	•
3/4	SOEXR24	1 7/16	1 9/16	1/2	11/32	12	RKW11	•

Set shown includes storage tray

Flank Drive Combination Ratcheting Box/Open End



OEXRM710



OEXR707

0° Standard Handle, mm

Set Contains:

mm	12	A	B	C	D	E	12
8	OEXRM8	17.8	17.0	7.1	4.3	147	
9	OEXRM9	19.6	19.2	8.0	4.7	159	
10	OEXRM10	21.5	21.1	8.4	5.1	171	•
11	OEXRM11	22.0	23.4	8.7	5.6	183	•
12	OEXRM12	23.5	25.1	9.3	5.9	195	•
13	OEXRM13	25.0	27.2	10.2	6.4	207	•
14	OEXRM14	27.0	29.2	10.2	6.7	219	•
15	OEXRM15	28.5	31.2	11.1	7.1	231	•
16	OEXRM16	30.5	33.0	11.1	7.4	243	•
17	OEXRM17	32.0	35.1	12.0	7.8	267	•
18	OEXRM18	34.5	37.1	12.0	8.2	291	•
19	OEXRM19	36.5	39.4	12.9	8.7	279	•

Set shown includes storage tray

0° Standard Handle, inches

Set Contains:

in	12	A	B	C	D	E	12
3/8	OEXR12	27/32	27/32	5/16	3/16	6 3/4	•
7/16	OEXR14	7/8	29/32	11/32	7/32	7 3/16	•
1/2	OEXR16	31/32	1 1/16	13/32	1/4	8 3/16	•
9/16	OEXR18	1 1/16	1 5/32	13/32	1/4	8 5/8	•
5/8	OEXR20	1 3/16	1 5/16	7/16	9/32	5 9/16	•
11/16	OEXR22	1 7/32	1 3/8	15/32	5/16	10 1/16	•
3/4	OEXR24	1 15/32	1 9/16	1/2	11/32	11	•

Set shown includes storage tray

WRENCHES

Flank Drive® Combination Ratcheting Box/Open End



OXIRM707



OXIR707

Short Handle, mm

Set Contains:

OXIRM707
OXIRM705

mm	12	A	B	C	D	E	12	12
8	OXIRM8	17.8	17.0	7.1	4.3	88.7	•	
9	OXIRM9	19.6	19.2	8.0	11.9	92.7	•	
10	OXIRM10	21.5	21.1	8.4	5.1	97.0	•	
11	OXIRM11	22.0	23.4	8.7	5.6	101.1	•	
12	OXIRM12	23.5	25.1	9.3	5.9	105.4	•	
13	OXIRM13	25.0	27.2	10.2	6.4	109.5	•	
14	OXIRM14	27.0	29.2	10.2	6.7	113.8	•	
15	OXIRM15	28.5	31.2	11.1	7.1	118.1		•
16	OXIRM16	30.5	33.0	11.1	7.4	122.2		•
17	OXIRM17	32.0	35.1	12.0	7.8	126.5		•
18	OXIRM18	34.5	37.1	12.0	8.2	130.6		•
19	OXIRM19	36.5	39.4	12.9	8.7	135.4		•

Sets shown include storage tray

Short Handle, inches

Set Contains:

OXIR707
OXIR705

in	12	A	B	C	D	E	12	12
3/8	OXIR12	27/32	27/32	5/16	3/16	3 27/32	•	
7/16	OXIR14	7/8	29/32	11/32	7/32	3 31/32	•	
1/2	OXIR16	31/32	1 1/16	13/32	1/4	4 5/16	•	
9/16	OXIR18	1 1/16	1 5/32	13/32	1/4	4 15/32	•	
5/8	OXIR20	1 3/16	1 5/16	15/32	9/32	4 13/16	•	
11/16	OXIR22	1 7/32	1 3/8	15/32	5/16	4 31/32	•	
3/4	OXIR24	1 15/32	1 9/16	1/2	11/32	5 11/32	•	

Set shown includes storage tray

Combination Reversible Ratcheting Box/Open End—Blue-Point®



BOERM712



BOER708

Standard Handle, 15° Offset, mm

Set Contains:

BOERM712
BOERM704

mm	12	A	B	C	D	E	12	12
6	BOERM6	16.3	16.3	6.6	3.6	114.3		
7	BOERM7	16.5	16.4	6.6	3.9	125.0		
8	BOERM8	17.8	17.7	6.5	4.0	135.0	•	
9	BOERM9	19.5	20.0	7.4	4.0	150.0	•	
10	BOERM10	21.5	21.9	8.0	5.0	160.0	•	
11	BOERM11	22.0	23.9	8.5	5.5	170.0	•	
12	BOERM12	23.5	25.0	9.0	5.5	175.0	•	
13	BOERM13	25.0	25.9	10.0	6.3	180.0	•	
14	BOERM14	27.0	29.9	10.0	6.5	190.0	•	
15	BOERM15	28.5	31.1	11.0	7.0	200.0	•	
16	BOERM16	30.5	33.6	11.0	7.0	210.0	•	
17	BOERM17	32.0	36.5	12.0	7.0	230.0	•	
18	BOERM18	34.5	38.5	12.0	8.0	240.0	•	
19	BOERM19	36.5	38.7	12.9	8.7	250.0	•	
21	BOERM21	39.4	43.2	13.7	9.4	266.7		•
22	BOERM22	41.7	45.7	14.5	9.4	285.8		•
24	BOERM24	46.5	49.5	15.5	11.2	304.8		•
25	BOERM25	47.2	52.8	15.5	11.2	327.2		•

Sets shown include storage tray

Standard Handle, 15° Offset, inches

Set Contains:

BOER708
BOER704

in	12	A	B	C	D	E	12	12
1/4	BOER8	21/32	21/32	1/4	5/32	4 1/2		
5/16	BOER10	11/16	11/16	1/4	5/32	5 5/16	•	
3/8	BOER12	27/32	7/8	5/16	3/16	6 5/16	•	
7/16	BOER14	7/8	15/16	11/32	7/32	6 11/16	•	
1/2	BOER16	31/32	1 1/32	13/32	1/4	7 1/16	•	
9/16	BOER18	1 1/16	1 3/16	13/32	1/4	7 1/2	•	
5/8	BOER20	1 3/16	1 5/16	7/16	9/32	8 1/4	•	
11/16	BOER22	1 1/4	1 7/16	15/32	9/32	9 1/16	•	
3/4	BOER24	1 7/16	1 17/32	1/2	11/32	9 13/16	•	
13/16	BOER26	1 9/16	1 23/32	17/32	3/8	10 1/2		•
7/8	BOER28	1 21/32	1 27/32	9/16	3/8	11 1/4		•
15/16	BOER30	1 27/32	1 31/32	5/8	7/16	12		•
1	BOER32	1 7/8	2 3/32	5/8	7/16	12 7/8		•

Sets shown include storage tray



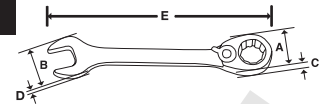
WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Combination Ratcheting Box/Open End—Blue-Point®



Flex head pivots 90° in either direction to reach hard-to-get fasteners. Reversible, dual pawl ratcheting box end yields smooth operation and maximum strength. 4.5° (5° on smaller wrenches) gear engagement less movement to engage the next gear. Tough, durable nickel-chrome finish.



BOERMF712A



BOERF708A

Flex Head/Standard, 15° Offset, mm

Set Contains:

BOERMF12A

mm	12	A	B	C	D	E		12
8	BOERMF8A	17.8	17.7	6.5	4.0	142	60	•
9	BOERMF9A	19.5	20.0	7.4	4.0	152	72	•
10	BOERMF10A	21.5	21.9	8.0	5.0	162	72	•
11	BOERMF11A	22.0	23.9	8.5	5.5	172	72	•
12	BOERMF12A	23.5	25.0	9.0	5.5	180	80	•
13	BOERMF13A	25.0	25.9	10.0	6.3	188	80	•
14	BOERMF14A	27.0	29.9	10.0	6.5	196	80	•
15	BOERMF15A	28.5	31.1	11.0	7.0	204	80	•
16	BOERMF16A	30.5	33.6	11.0	7.0	214	80	•
17	BOERMF17A	32.0	36.5	12.0	7.0	228	80	•
18	BOERMF18A	34.5	38.5	12.0	8.0	242	80	•
19	BOERMF19A	36.5	38.7	12.9	8.7	256	80	•

Sets shown include storage tray

Flex Head/Standard, 15° Offset, inches

Set Contains:

BOERF708A

in	12	A	B	C	D	E		12
5/16	BOERF10A	11/16	11/16	1/4	5/32	5 19/32	72	•
3/8	BOERF12A	27/32	7/8	5/16	3/16	6 3/8	72	•
7/16	BOERF14A	7/8	15/16	11/32	7/32	6 3/4	72	•
1/2	BOERF16A	31/32	1 1/32	13/32	1/4	7 13/32	80	•
9/16	BOERF18A	1 1/16	1 3/16	13/32	1/4	8 7/32	80	•
5/8	BOERF20A	1 3/16	1 5/16	7/16	9/32	8 7/16	80	•
11/16	BOERF22A	1 1/4	1 7/16	15/32	9/32	8 31/32	80	•
3/4	BOERF24A	1 7/16	1 17/32	1/2	11/32	10 1/16	80	•

Set shown includes storage tray

- Up to 80 gear teeth - tooth movement results in less movement required to engage next tooth
- 12 pt Flank Drive® wrenching system is ideal in tight quarters
- Small footprint with 0° offset uni-directional gear

- Low ratcheting torque is less likely to move loose fastener in wrong direction
- High quality steel ensures a better fit and yields a long lasting tool



BOERMS712



BOERS708

Short, 15° Offset, mm

Set Contains:

BOERMS712

mm	12	A	B	C	D	E		12
8	BOERMS8	17.8	17.7	6.5	4.0	90	•	
9	BOERMS9	19.5	20.0	7.4	4.0	95	•	
10	BOERMS10	21.5	21.9	8.0	5.0	100	•	
11	BOERMS11	22.0	23.9	8.5	5.5	105	•	
12	BOERMS12	23.5	25.0	9.0	5.5	110	•	
13	BOERMS13	25.0	25.9	10.0	6.3	115	•	
14	BOERMS14	27.0	29.9	10.0	6.5	120	•	
15	BOERMS15	28.5	31.1	11.0	7.0	125	•	
16	BOERMS16	30.5	33.6	11.0	7.0	128	•	
17	BOERMS17	32.0	36.5	12.0	7.0	132	•	
18	BOERMS18	34.5	38.5	12.0	8.0	138	•	
19	BOERMS19	36.5	38.7	12.9	8.7	142	•	

Set shown includes storage tray

Short, 15° Offset, inches

Set Contains:

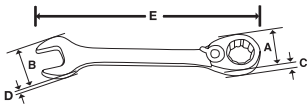
BOERS708

in	12	A	B	C	D	E		12
5/16	BOERS10	11/16	11/16	1/4	5/32	3 9/16	•	
3/8	BOERS12	27/32	7/8	5/16	3/16	3 15/16	•	
7/16	BOERS14	7/8	15/16	11/32	7/32	4 1/8	•	
1/2	BOERS16	31/32	1 1/32	13/32	1/4	4 1/2	•	
9/16	BOERS18	1 1/16	1 3/16	13/32	1/4	4 3/4	•	
5/8	BOERS20	1 3/16	1 5/16	7/16	9/32	5 1/16	•	
11/16	BOERS22	1 1/4	1 7/16	15/32	9/32	5 3/16	•	
3/4	BOERS24	1 7/16	1 17/32	1/2	11/32	5 9/16	•	

Set shown includes storage tray

WRENCHES

Flex Head Ratcheting Box/Open End—Blue-Point®



BOERMSF712

BOERSF708

Flex Head Ratcheting Box/ Open End, Stubby, 15° Offset, mm

Set
Contains:

BOERMSF712

mm	12	A	B	C	D	E	12
8	BOERMSF8	17.8	17.7	6.5	4.0	94	•
9	BOERMSF9	19.5	20.0	7.4	4.0	98	•
10	BOERMSF10	21.5	21.9	8	5	103	•
11	BOERMSF11	22	23.9	8.5	5.5	108	•
12	BOERMSF12	23.5	25	9	5.5	111	•
13	BOERMSF13	25	25.9	10	6.3	115	•
14	BOERMSF14	27	29.9	10	6.5	120	•
15	BOERMSF15	28.5	31.1	11	7	124	•
16	BOERMSF16	30.5	33.6	11	7	128	•
17	BOERMSF17	32	36.5	12	7	133	•
18	BOERMSF18	34.5	38.5	12	8	140	•
19	BOERMSF19	36.5	38.7	12.9	8.7	147	•

Set shown includes kit bag

Flex Head Ratcheting Box/ Open End, Stubby, 15° Offset, inches

Set
Contains:

BOERSF708

in	12	A	B	C	D	E	12
5/16	BOERSF10	11/16	1 1/16	1/4	5/32	3 11/16	•
3/8	BOERSF12	27/32	7/8	5/16	3/16	4 1/16	•
7/16	BOERSF14	7/8	1 15/16	11/32	7/32	4 1/4	•
1/2	BOERSF16	31/32	1 1/32	13/32	1/4	4 17/32	•
9/16	BOERSF18	1 1/16	1 3/16	13/32	1/4	4 23/32	•
5/8	BOERSF20	1 3/16	1 5/16	7/16	9/32	5 1/32	•
11/16	BOERSF22	1 1/4	1 7/16	15/32	9/32	5 1/4	•
3/4	BOERSF24	1 7/16	1 17/32	1/2	11/32	5 25/32	•

Set shown includes kit bag

Locking Flex Head Ratcheting Box—Blue Point



BOERMFLCG712

BOERFLCG708

Locking Flex Head Ratcheting Box/ Cushion Grip, mm

Set
Contains:

BOERMFLCG712

mm	12	A	B	C	D	12
8	BOERMFLCG8	17.8	6.55	32	228	•
9	BOERMFLCG9	19.5	7.45	34	229	•
10	BOERMFLCG10	21.5	8.05	38	233	•
11	BOERMFLCG11	22	8.55	40	235	•
12	BOERMFLCG12	23.5	9.05	42	285	•
13	BOERMFLCG13	25	10.05	45	287	•
14	BOERMFLCG14	27	10.05	48	289	•
15	BOERMFLCG15	28.5	11.05	52	293	•
16	BOERMFLCG16	30.5	11.05	54	347	•
17	BOERMFLCG17	32	12.05	56	348	•
18	BOERMFLCG18	34.5	12.05	60	352	•
19	BOERMFLCG19	36.5	12.95	64	354	•

Set shown includes kit bag

Locking Flex Head Ratcheting Box/ Cushion Grip, inches

Set
Contains:

BOERFLCG708

in	12	A	B	C	D	12
5/16	BOERFLCG10	23/32	1/4	1 1/4	9	•
3/8	BOERFLCG12	27/32	5/16	1 1/2	9 1/4	•
7/16	BOERFLCG14	7/8	11/32	1 9/16	9 19/32	•
1/2	BOERFLCG16	31/32	13/32	1 25/32	11 9/32	•
9/16	BOERFLCG18	1 1/16	13/32	1 29/32	11 3/8	•
5/8	BOERFLCG20	1 7/32	7/16	2 1/8	13 21/32	•
11/16	BOERFLCG22	1 1/4	15/32	2 7/32	13 23/32	•
3/4	BOERFLCG24	1 7/16	1/2	2 17/32	13 15/16	•

Set shown includes kit bag



WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Ratcheting Wrench Adaptors



RWA404

Converts ratcheting wrench into a ratchet. Use with reversible ratcheting box wrenches such as the SOEXRM, BOERM, BOERMF and BOERMS series. Can also be used with the combination ratcheting box wrenches such as the OEXRM and OXIRM series. Use reverse lever on wrench to secure or remove adaptor from wrench. Push button on adaptor to release socket.

Ratcheting Wrench Adaptors

Set Contains:

Stock No.	Configuration	Use with Ratcheting Wrench Size	RWA404	RWA404FR
RWA1	1/4" drive	13mm	•	
RWA2	3/8" drive	16mm	•	
RWA3	1/2" drive	19mm	•	
RWA4	1/4" hex	13mm	•	
RWA1FR	1/4" drive	1/2"		•
RWA2FR	3/8" drive	5/8"		•
RWA3FR	1/2" drive	3/4"		•
RWA4FR	1/4" hex	1/2"		•

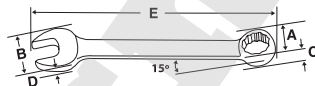
Flank Drive® Plus Combination

Snap-on® Flank Drive Plus combination wrenches exceed the limits of any other open end design. The open end features a series of flutes or notches that allow the open end to grip a fastener away from its corners much like our box ends do. Force is directed away from the weaker corners of the nut and directed to the stronger flats. You can actually see the grip-in fact, on some fasteners that you don't want marked, you should use our standard wrench.

Selection, convenience, and quality. Flank Drive Plus combination wrenches are available in many different styles and sizes. And just like all Snap-on wrenches, they are sized for optimum comfort and balance in your hand. **Mirror-like Finish.** Tough, durable, nickel-chrome plating helps protect against corrosion and makes it easy to wipe the wrenches clean.



SOEXM710



SOEX710

Standard Length, mm

Set Contains:

mm	12	A	B	C	D	E	12	12
7	SOEXM7	11	15	5	4	135		
8	SOEXM8	13	17	6	4	146		
9	SOEXM9	14	19	6	5	159		
10	SOEXM10	15	21	7	5	171	•	•
11	SOEXM11	17	23	8	6	184	•	•
12	SOEXM12	18	25	8	6	195	•	•
13	SOEXM13	20	27	9	6	207	•	•
14	SOEXM14	21	29	9	7	219	•	•
15	SOEXM15	22	31	10	7	231	•	•
16	SOEXM16	24	33	10	7	242	•	•
17	SOEXM17	25	35	11	8	255	•	•
18	SOEXM18	27	37	12	8	267	•	•
19	SOEXM19	28	39	12	9	279	•	•
20	SOEXM20	30	41	13	9	292	•	•
21	SOEXM21	31	43	13	9	304	•	•
22	SOEXM22	33	46	14	10	318	•	•
23	SOEXM23	34	47	14	10	327	•	•
24	SOEXM24	35	49	15	11	337	•	•
25	SOEXM25	37	52	16	11	356	•	•

Sets shown include storage tray

Standard Length, inches

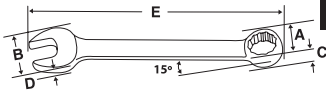
Set Contains:

in	12	A	B	C	D	E	12	12
1/4	SOEX8	13/32	17/32	3/16	5/32	5		
5/16	SOEX10	1/2	21/32	7/32	5/32	5 3/4	•	
11/32	SOEX11	17/32	23/32	1/4	3/16	6 1/8	•	
3/8	SOEX12	19/32	29/32	1/4	3/16	6 1/2	•	•
7/16	SOEX14	21/32	29/32	7/32	7/32	7 1/4	•	•
1/2	SOEX16	3/4	1 1/16	11/32	1/4	8	•	•
9/16	SOEX18	27/32	1 5/32	3/8	9/32	8 3/4	•	•
5/8	SOEX20	15/16	1 5/16	13/32	9/32	9 1/2	•	•
11/16	SOEX22	1 1/32	1 13/32	7/16	5/16	10 1/4	•	•
3/4	SOEX24	1 1/8	1 9/16	15/32	11/32	11	•	•
13/16	SOEX26	1 3/16	1 21/32	17/32	3/8	11 3/4	•	•
7/8	SOEX28	1 9/32	1 13/16	9/16	3/8	12 1/2	•	•
15/16	SOEX30	1 3/8	1 29/32	19/32	13/32	13 1/4	•	•
1	SOEX32	1 15/32	2 1/32	5/8	7/16	14	•	•
1 1/16	SOEX34	1 9/16	2 5/32	19/32	15/32	14 3/4	•	•
1 1/8	SOEX36	1 5/8	2 5/16	11/16	15/32	15 17/32	•	•
1 3/16	SOEX38	1 23/32	2 13/32	23/32	1/2	16 1/4	•	•
1 1/4	SOEX40	1 13/16	2 9/16	3/4	17/32	17	•	•
15/16	SOEX42	1 29/32	2 21/32	3/4	9/16	17 25/32	•	•

Sets shown include storage tray

WRENCHES

Flank Drive® Combination



OSHM713



OEXM710B



OSHM707B



OEXM713B



OEXM707B



GOEXM715

Standard Length, mm

mm	Set Contains:			Set Contains:													
	6	12	12	A	B	C	D	E	6	6	12	12	12	12	12	12	
7	OSHM70B			11	15	5	4	135	•								
8	OSHM80B	OEXM80B		13	17	6	4	146	•		•	•					
9	OSHM90B	OEXM90B		14	19	6	5	159	•		•	•					
10	OSHM100B	OEXM100B	GOEXM100B	15	21	7	5	171	•	•	•	•	•	•	•	•	•
11	OSHM110B	OEXM110B	GOEXM110B	17	23	8	6	184	•	•	•	•	•	•	•	•	•
12	OSHM120B	OEXM120B	GOEXM120B	18	25	8	6	195	•	•	•	•	•	•	•	•	•
13	OSHM130B	OEXM130B	GOEXM130B	20	27	9	6	207	•	•	•	•	•	•	•	•	•
14	OSHM140B	OEXM140B	GOEXM140B	21	29	9	7	219	•	•	•	•	•	•	•	•	•
15	OSHM150B	OEXM150B	GOEXM150B	22	31	10	7	231	•	•	•	•	•	•	•	•	•
16	OSHM160B	OEXM160B	GOEXM160B	24	33	10	7	242	•		•	•	•	•	•	•	•
17	OSHM170B	OEXM170B	GOEXM170B	25	35	11	8	255	•	•	•	•	•	•	•	•	•
18	OSHM180B	OEXM180B	GOEXM180B	27	37	12	8	267	•	•	•	•	•	•	•	•	•
19	OSHM190B	OEXM190B	GOEXM190B	28	39	12	9	279	•	•	•	•	•	•	•	•	•
20		OEXM200B	GOEXM200B	30	41	13	9	292			•	•	•	•	•	•	•
21		OEXM210B	GOEXM210B	31	43	13	9	304			•	•	•	•	•	•	•
22		OEXM220B	GOEXM220B	33	46	14	10	318			•	•	•	•	•	•	•
23		OEXM230B	GOEXM230B	34	47	14	10	327			•	•	•	•	•	•	•
24		OEXM240B	GOEXM240B	35	49	15	11	337			•	•	•	•	•	•	•
25		OEXM250B		37	52	16	11	356			•	•	•	•	•	•	•
26		OEXM260B		38	53	16	11	363			•	•	•	•	•	•	•
27		OEXM270B		39	55	17	12	375			•	•	•	•	•	•	•
29		OEXM290B		42	58	18	12	394			•	•	•	•	•	•	•
30		OEXM300B		44	61	19	13	413			•	•	•	•	•	•	•
32		OEXM320B		46	65	19	14	432			•	•	•	•	•	•	•
34		OEXM340B		48	68	19	14	452			•	•	•	•	•	•	•
36		OEXM360B		53	74	22	15	489			•	•	•	•	•	•	•
		Kit Bag											C2301A				

ASME/ANSI B107.100

*Sets include storage tray



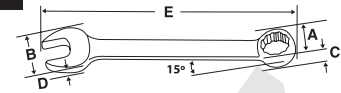
WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Flank Drive® Combination



OSH711B



OEX714K



GOEX722K



OEX707B

Standard Length, inches

Set Contains:																					
OSH711B*	OSH707B*	OEX724K	OEX714K	OEX710	OEX711B*	OEX709B*	OEX707B*	GOEX722K	GOEX714K	GOEX711B*	GOEX707B*										
11	6	12	12	A	B	C	D	E	6	6	12	12	12	12	12	12	12	12	12	12	
1/4		OEX8B		13/32	17/32	3/16	5/32	5													
5/16	OSH10B	OEX10B	GOEX10B	1/2	21/32	7/32	5/32	5 3/4													
11/32	OSH11B	OEX11B		17/32	3/4	1/4	3/16	6 1/8													
3/8	OSH12B	OEX12B	GOEX12B	19/32	13/16	5/16	3/16	6 1/2													
7/16	OSH14B	OEX14B	GOEX14B	21/32	29/32	5/16	7/32	7 1/4													
1/2	OSH16B	OEX16B	GOEX16B	3/4	1 1/16	11/32	1/4	8													
9/16	OSH18B	OEX18B	GOEX18B	27/32	13/16	3/8	9/32	8 3/4													
5/8	OSH20B	OEX20B	GOEX20B	15/16	1 5/16	13/32	9/32	9 1/2													
11/16	OSH22B	OEX22B	GOEX22B	1 1/32	1 13/32	7/16	5/16	10 1/4													
3/4	OSH24B	OEX24B	GOEX24B	1 1/8	1 9/16	15/32	11/32	11													
13/16	OSH26B	OEX26B	GOEX26B	1 3/16	1 21/32	17/32	3/8	11 3/4													
7/8	OSH28B	OEX28B	GOEX28B	1 9/32	1 13/16	9/16	3/8	12 1/2													
15/16	OSH30B	OEX30B	GOEX30B	1 3/8	1 29/32	19/32	13/32	13 1/4													
1	OSH32B	OEX32B	GOEX32B	1 15/32	2 1/32	21/32	7/16	14													
1 1/16		OEX34B	GOEX34B	1 9/16	2 3/16	11/16	15/32	14 3/4													
1 1/8		OEX36B	GOEX36B	1 5/8	2 5/16	11/16	17/32	15 7/16													
1 3/16		OEX38B	GOEX38B	1 3/4	2 7/16	3/4	1/2	16 5/16													
1 1/4		OEX40B	GOEX40B	1 13/16	2 9/16	3/4	17/32	17 1/16													
1 5/16		OEX42B	GOEX42B	1 29/32	2 21/32	3/4	9/16	17 13/16													
1 3/8		OEX44B	GOEX44B	2	2 13/16	3/4	19/32	18 9/16													
1 7/16		OEX46B	GOEX46B	2 1/16	2 29/32	7/8	19/32	19 1/32													
1 1/2		OEX48B	GOEX48B	2 5/32	3 1/16	7/8	5/8	20 1/16													
1 9/16		OEX50B	GOEX50B	2 1/4	3 3/16	7/8	23/32	20 13/16													
1 5/8		OEX52B	GOEX52B	2 11/32	3 11/32	7/8	11/16	21 9/16													
1 11/16		OEX54A		2 7/16	3 13/32	7/8	23/32	22 9/32													
1 3/4		OEX56A	GOEX56A	2 17/32	3 9/16	1 1/32	23/32	22 7/8													
1 13/16		OEX58A	GOEX58A	2 5/8	3 21/32	1 1/32	3/4	23 15/32													
1 7/8		OEX60A	GOEX60A	2 11/32	3 13/16	1 1/32	25/32	24 1/32													
2		OEX64A	GOEX64A	2 7/8	4 1/16	1 1/32	27/32	25 1/4													
2 1/16			GOEX66A	2 31/32	4 5/32	1 1/8	27/32	25 25/32													
2 1/8			GOEX68A	3 1/16	4 5/16	1 5/32	7/8	26 3/8													
2 3/16			GOEX70A	3 1/8	4 13/32	1 1/8	7/8	26 31/32													
2 1/4			GOEX72A	3 7/32	4 9/16	1 1/8	15/16	27 9/16													
2 3/8			GOEX76A	3 13/32	4 13/16	1 9/32	31/32	28 3/4													
2 1/2			GOEX80A	3 19/32	5 1/16	1 9/32	1	29 29/32													
2 5/8			GOEX84A	4 7/8	6 5/8	1 5/8	1 3/16	32													
2 3/4			GOEX88A	4 7/8	6 5/8	1 5/8	1 3/16	32													
2 7/8			GOEX92A	4 7/8	6 5/8	1 5/8	1 3/16	32													
2 15/16			GOEX94A	4 7/8	6 5/8	1 5/8	1 3/16	32													
3			GOEX96A	4 7/8	6 5/8	1 5/8	1 3/16	32													
3 1/8			GOEX1100A	4 7/8	6 5/8	1 5/8	1 3/16	32													
3 3/8			GOEX1108A	4 7/8	6 5/8	1 5/8	1 3/16	32													
3 1/2			GOEX1112A	4 7/8	6 5/8	1 5/8	1 3/16	32													

ASME/ANSI B107.6-100

*Sets include storage tray

OEX32B thru OEX52B are full polish chrome. OEX54A thru OEX64A are satin finish chrome.

Kit Bag:

C2301A

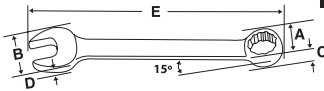
C1401

C2200

C1401

WRENCHES

Flank Drive® Combination



Short Handle, mm

mm	Set Contains:									
	12	12	A	B	C	D	E	12	12	12
6	OEXM6B	GOEXM6B	10	13	5	4	113	•	•	
7	OEXM7B	GOEXM7B	11	15	5	4	118	•	•	
8	OEXM8B	GOEXM8B	13	17	6	4	123	•	•	
9	OEXM9B	GOEXM9B	14	19	6	5	128	•	•	
10	OEXM10B	GOEXM10B	15	21	7	5	133	•	•	•
11	OEXM11B	GOEXM11B	17	23	8	6	138	•	•	•
12	OEXM12B	GOEXM12B	18	25	8	6	142	•	•	•
13	OEXM13B	GOEXM13B	20	27	9	6	148	•	•	•
14	OEXM14B	GOEXM14B	21	29	9	7	152	•	•	•
15	OEXM15B	GOEXM15B	22	31	10	7	157	•	•	•
16	OEXM16B	GOEXM16B	24	33	10	7	162	•	•	•
17	OEXM17B	GOEXM17B	25	35	11	8	167	•	•	•
18	OEXM18B	GOEXM18B	27	37	12	8	172	•	•	•
19	OEXM19B	GOEXM19B	28	39	12	9	177	•	•	•
20	OEXM20B		30	41	13	9	182	•	•	
21	OEXM21B		31	43	13	9	186	•	•	
22	OEXM22B		33	46	14	10	192	•	•	
23	OEXM23B		34	47	14	10	197	•	•	
24	OEXM24B		35	49	15	11	201	•	•	
Kit Bag										C1402

*Set includes storage tray



Short Handle, inches

in	Set Contains:									
	12	12	A	B	C	D	E	12	12	12
1/4	OEX080B	GOEX080B	13/32	17/32	3/16	5/32	4 17/32	•	•	
9/32	OEX090B		7/16	19/32	7/32	5/32	4 21/32	•	•	
5/16	OEX100B	GOEX100B	1/2	21/32	7/32	5/32	4 27/32	•	•	•
11/32	OEX110B	GOEX110B	17/32	23/32	1/4	3/16	5	•	•	•
3/8	OEX120B	GOEX120B	19/32	25/32	1/4	3/16	5 1/8	•	•	•
7/16	OEX140B	GOEX140B	21/32	29/32	5/16	7/32	5 7/16	•	•	•
1/2	OEX160B	GOEX160B	3/4	1 1/16	11/32	1/4	5 3/4	•	•	•
9/16	OEX180B	GOEX180B	27/32	1 5/32	3/8	9/32	6 1/16	•	•	•
5/5	OEX200B	GOEX200B	15/16	1 5/16	13/32	9/32	6 11/32	•	•	•
11/16	OEX220B	GOEX220B	1 1/32	1 13/32	7/16	5/16	6 21/32	•	•	•
3/4	OEX240B	GOEX240B	1 1/8	1 9/16	15/32	11/32	6 31/32	•	•	•
13/16	OEX260B	GOEX260B	1 3/16	1 21/32	17/32	3/8	7 9/32	•	•	•
7/8	OEX280B	GOEX280B	1 9/32	1 13/16	9/16	3/8	7 9/16	•	•	•
15/16	OEX300B	GOEX300B	1 3/8	1 29/32	19/32	13/32	7 7/8	•	•	•
1	OEX320B	GOEX320B	1 15/32	2 1/32	5/8	7/16	8 3/16	•	•	•
1 1/16	OEX340B	GOEX340B	1 9/16	2 5/32	21/32	15/32	8 17/32	•	•	•
1 1/8	OEX360B	GOEX360B	1 5/8	2 5/16	11/16	1/2	8 27/32	•	•	•
1 3/16	OEX380B		1 23/32	2 13/32	23/32	1/2	9 1/8	•	•	•
1 1/4	OEX400B		1 13/16	2 9/16	3/4	17/32	9 7/16	•	•	•
1 5/16	OEX420B		1 29/32	2 21/32	3/4	9/16	9 3/4	•	•	•
1 3/8	OEX440B		2	2 13/16	3/4	19/32	10 1/16	•	•	•
Kit Bag										C1505

*Set includes storage tray



Long Handle, mm

mm	Set Contains:						
	12	A	B	C	D	E	12
10	OEXLM10B	15	21	7	5	186	•
11	OEXLM11B	17	23	8	6	203	•
12	OEXLM12B	18	25	8	6	218	•
13	OEXLM13B	20	27	9	6	234	•
14	OEXLM14B	21	29	9	7	250	•
15	OEXLM15B	22	31	10	7	266	•
16	OEXLM16B	24	33	10	7	282	•
17	OEXLM17B	25	35	11	8	298	•
18	OEXLM18B	27	37	12	8	314	•
19	OEXLM19B	28	39	12	9	330	•

Set includes storage tray



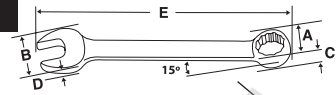
WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Flank Drive® Combination



OEXL707B

Long Handle, inches

Set Contains:		OEXL707B						
11	12	A	B	C	D	E	12	
3/8	OEXL12B	19/32	25/32	1/4	3/16	7	•	
7/16	OEXL14B	21/32	29/32	5/16	7/32	8	•	
1/2	OEXL16B	3/4	1 1/16	11/32	1/4	9	•	
9/16	OEXL18B	27/32	1 5/32	3/8	9/32	10	•	
5/8	OEXL20B	15/16	1 5/16	13/32	9/32	11	•	
11/16	OEXL22B	1 1/32	1 13/32	7/16	5/16	12	•	
3/4	OEXL24B	1 1/8	1 9/16	15/32	11/32	13	•	
13/16	OEXL26B	1 3/16	1 21/32	17/32	3/8	14		
7/8	OEXL28B	1 9/32	1 13/16	9/16	3/8	15		
15/16	OEXL30B	1 3/8	1 29/32	19/32	13/32	16		
1	OEXL32B	1 15/32	2 1/32	5/8	7/16	17		

Set includes storage tray



OXIM707SBK

Midget, mm

Set Contains:		OXIM707SBK							OXIM710B**	
6	12	A	B	C	D	E	6	12		
4	OXIM4SB*	7	10	4	3	72	6 pt	•		
5	OXIM5SB*	8	12	4	3	76	6 pt	•		
5.5	OXIM55SB	9	13	4	4	79	6 pt	•		
6	OXIM6SB	OXIM6B	10	13	5	81	12 pt	•		
7	OXIM7SB	OXIM7B	11	15	5	85	12 pt	•		
8	OXIM8SB	OXIM8B	13	17	6	89	12 pt	•		
9	OXIM9SB	OXIM9B	14	19	6	93	12 pt	•		
10		OXIM10B	15	21	7	98	12 pt	•		
11		OXIM11B	17	23	8	102	12 pt	•		
12		OXIM12B	18	25	8	106	12 pt	•		
13		OXIM13B	20	27	9	110	12 pt	•		
14		OXIM14B	21	29	9	115	12 pt	•		
15		OXIM15B	22	31	10	119	12 pt	•		
16		OXIM16B	24	33	10	122	12 pt	•		
17		OXIM17B	25	35	11	127	12 pt	•		
18		OXIM18B	27	37	12	131	12 pt	•		
19		OXIM19B	28	39	12	136	12 pt	•		
Kit Bag							C0700			

ASME/ANSI B107.100-1994

*Conventional Hex

**Set includes storage tray



OXI709SBK

Midget, inches

Set Contains:		OXI709SBK							OXI707BK		OXI715		OXI706B**	
11	6	12	A	B	C	D	E	6	12	6	12			
1/8	OXI4SB*		7/32	11/32	1/8	1/8	2 11/16	•			6 pt			
5/32	OXI5SB*		9/32	13/32	5/32	1/8	2 27/32	•			6 pt			
3/16	OXI6SB*	OXI6B*	5/16	7/16	5/32	1/8	2 31/32	•	•		12 pt			
7/32	OXI7SB	OXI7B	3/8	1/2	3/16	1/8	3 3/32	•	•		12 pt			
1/4	OXI8SB	OXI8B	13/32	17/32	3/16	5/32	3 7/32	•	•		12 pt			
9/32	OXI9SB	OXI9B	7/16	19/32	7/32	5/32	3 11/32	•	•		12 pt			
5/16	OXI10SB	OXI10B	1/2	21/32	7/32	5/32	3 1/2	•	•		12 pt			
11/32	OXI11SB	OXI11B	17/32	23/32	1/4	3/16	3 5/8	•	•		12 pt			
3/8	OXI12SB	OXI12B	19/32	25/32	1/4	3/16	3 3/4	•	•		12 pt			
7/16		OXI14B	21/32	29/32	5/16	7/32	4 1/32				12 pt	•		
1/2		OXI16B	3/4	11/16	11/32	1/4	4 9/32				12 pt	•		
9/16		OXI18B	27/32	15/32	3/8	9/32	4 17/32				12 pt	•		
5/8		OXI20B	15/16	15/16	13/32	9/32	4 13/16				12 pt	•		
11/16		OXI22B	1 1/32	113/32	7/16	5/16	5 1/16				12 pt	•		
3/4		OXI24B	1 1/8	19/16	15/32	11/32	5 11/32				12 pt	•		
Kit Bag							C0900A	C0700						

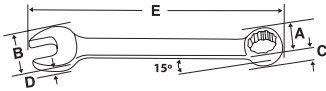
ASME/ANSI B107.100-1994

*Conventional Hex

**Set includes storage tray

WRENCHES

British Standard



Short Handle Combination

BS	Decimal Equiv., inches	12	A	B	C	D	E
3/16	.338	WOEX6B	25/32	19/32	3/16	1/4	5 3/32
1BA	.365	WOEX70B	25/32	19/32	3/16	1/4	5 1/8
OBA	.413	WOEX80B	29/32	21/32	7/32	5/16	5 13/32
1/4	.445	WOEX90B	29/32	21/32	7/32	5/16	5 15/32
5/16	.52	WOEX100B	1 5/32	27/32	9/32	3/8	6 1/32
3/8	.600	WOEX110B	1 5/16	15/16	9/32	13/32	6 11/32
7/16	.710	WOEX120B	1 5/16	1 1/32	5/16	7/16	6 23/32



WOEX90B

Combination Wrenches—Blue-Point®

Standard, mm

mm	Stock No.	Length, mm	Set Contains:
8	BLPCWM8	148	•
9	BLPCWM9	160	•
10	BLPCWM10	167	•
11	BLPCWM11	186	•
12	BLPCWM12	196	•
13	BLPCWM13	205	•
14	BLPCWM14	223	•
15	BLPCWM15	233	•
16	BLPCWM16	243	•
17	BLPCWM17	262	•
18	BLPCWM18	272	•
19	BLPCWM19	281	•

Set includes storage tray



BLPCWSM712

Standard, inches

in	Stock No.	Length, inches	Set Contains:
1/4	BLPCW14	5 1/32	
5/16	BLPCW516	5 7/32	
3/8	BLPCW38	6 9/16	•
7/16	BLPCW716	7 11/32	•
1/2	BLPCW12	8 1/16	•
9/16	BLPCW916	8 25/32	•
5/8	BLPCW58	9 9/16	•
11/16	BLPCW1116	10 5/16	•
3/4	BLPCW34	11 1/16	•
13/16	BLPCW1316	11 27/32	•
7/8	BLPCW78	12 19/16	•
15/16	BLPCW1516	13 11/32	•
1	BLPCW1	14 3/32	•

Set includes storage tray



BLPCWS711



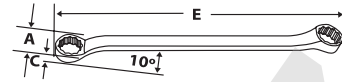
WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Flank Drive® Offset Box



XID604KA

Midget, 10° Offset, inches

Set Contains:

XID604KA

	12	A	C	E	12
3/16 - 13/64	XID1213A	5/16 - 11/32	1/8 - 5/32	2 13/16	•
7/32 - 15/64	XID1415A	3/8 - 3/8	5/32 - 5/32	3 1/16	•
1/4 - 9/32	XID1618A	13/32 - 7/16	5/32 - 3/16	3 13/32	•
5/16 - 11/32	XID2022A	15/32 - 1/2	3/16 - 7/32	3 31/32	•
	Kit Bag				C41E

ASME/ANSI B107.6-1994



XLE605



Set Contains:

XLE605

#		A	C	E	
E5 - E6	XLE56	9/32 - 5/16	5/32 - 3/16	6 13/32	•
E7 - E8	XLE78	11/32 - 3/8	7/32 - 7/32	7 7/32	•
E10 - E12	XLE1012A	15/32 - 17/32	1/4 - 5/16	8 7/8	•
E14 - E16	XLE1416	5/8 - 23/32	11/32 - 11/32	10 7/16	•
E18 - E20	XLE1820	13/16 - 7/8	13/32 - 7/16	12 3/8	•

Set includes storage tray



XBM605A

Standard Length, 10° Offset, mm

Set Contains:

XBM605A

mm	6	12	A	C	E	12
8 - 10		XBM810A	12.3 - 15	6.7 - 7.7	185	
10 - 11		XBM1011A	15 - 16.4	7.7 - 8.3	202	•
10 - 12		XBM1012A	15 - 17.7	7.7 - 8.8	208	
11 - 13		XBM1113A	16.4 - 19.1	8.3 - 9.3	219	
12 - 14	XBM1214SA	XBM1214A	17.7 - 20.4	8.8 - 9.7	230	•
13 - 15	XBM1315SA	XBM1315A	19.1 - 21.8	9.3 - 10.2	241	•
14 - 17		XBM1417A	20.4 - 24.5	9.8 - 11.4	248	
16 - 18		XBM1618A	23.1 - 25.9	10.9 - 11.9	275	•
17 - 19		XBM1719A	24.5 - 27.2	11.4 - 12.3	286	•
18 - 21		XBM1821A	25.9 - 29.9	11.9 - 13.3	303	
22 - 24		XBM2224A	31.3 - 34	13.7 - 14.7	342	
27 - 30		XBM2730A	38.1 - 42.2	16 - 17.3	404	

Set includes storage tray



XB605A

Standard Length, 10° Offset, inches

Set Contains:

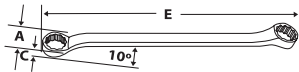
XB605A

	12	A	C	E	12
3/8 - 7/16	XB1214A	9/16 - 21/32	5/16 - 11/32	7 19/32	•
7/16 - 1/2	XB1416A	21/32 - 3/4	5/16 - 11/32	7 15/16	
1/2 - 9/16	XB1618A	3/4 - 13/16	11/32 - 3/8	8 11/16	•
9/16 - 5/8	XB1820A	13/16 - 29/32	13/32 - 7/16	9 13/32	
5/8 - 11/16	XB2022A	29/32 - 1	7/16 - 15/32	10 5/32	•
11/16 - 3/4	XB2224A	1 - 1 1/16	15/32 - 1/2	10 15/16	
3/4 - 13/16	XB2426A	1 1/16 - 1 5/32	1/2 - 17/32	11 21/32	•
7/8 - 15/16	XB2830A	1 1/4 - 1 11/32	17/32 - 9/16	13 1/8	•
15/16 - 1	XB3032A	1 11/32 - 1 13/32	9/16 - 19/32	13 7/8	
1 - 1 1/16	XB3234A	1 13/32 - 1 1/2	19/32 - 5/8	14 19/32	
1 1/16 - 1 1/4	XB3440A	1 1/2 - 1 3/4	5/8 - 23/32	16 3/32	
1 1/8 - 1 3/16	XB3638A	1 9/32 - 1 21/32	21/32 - 11/16	16 3/32	
1 1/4 - 1 5/16	XB4042A	1 3/4 - 1 27/32	23/32 - 3/4	17 19/32	
1 3/8 - 1 7/16	XB4446A	1 31/32 - 2 1/16	3/4 - 25/32	19 1/8	
1 1/2 - 1 5/8	XB4852A	2 3/32 - 2 9/32	13/16 - 7/8	20 15/16	

Set includes storage tray

WRENCHES

Flank Drive® Offset Box



XSM608A



XS609A

Short Handle, 10° Offset, mm

Set Contains: XSM608A

mm	12	A	B	C	12
6 - 7	XSM67A	9.6 - 10.9	5.7 - 6.2	86	•
8 - 9	XSM89A	12.3 - 13.7	6.7 - 7.2	103	•
8 - 10	XSM810	12.3 - 15	6.7 - 7.7	107	•
9 - 10	XSM910A	13.7 - 15	7.2 - 7.7	112	•
11 - 12	XSM1112A	16.4 - 17.7	8.3 - 8.8	128	•
13 - 14	XSM1314A	19.1 - 20.4	9.3 - 9.8	146	•
15 - 16	XSM1516A	21.8 - 23.1	10.2 - 10.9	163	•
17 - 19	XSM1719A	24.5 - 27.2	11.4 - 12.3	185	•
18 - 20	XSM1820A	25.9 - 28.6	11.9 - 12.8	194	•

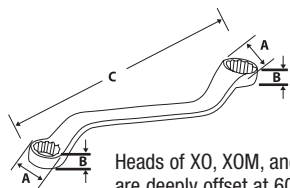
Set includes storage tray

Short Handle, 10° Offset, inches

Set Contains: XS609A

12	12	A	B	C	12
3/16 - 7/32	XS67A	5/16 - 11/32	7/32 - 7/32	3 27/32	•
1/4 - 5/16	XS810A	13/32 - 15/32	1/4 - 9/32	4 1/4	•
5/16 - 3/8	XS1012A	15/32 - 9/16	9/32 - 5/16	4 9/16	•
3/8 - 7/16	XS1214A	9/16 - 21/32	5/16 - 11/32	4 29/32	•
7/16 - 1/2	XS1416A	21/32 - 3/4	11/32 - 11/32	5 3/16	•
1/2 - 9/16	XS1618A	3/4 - 13/16	3/8 - 3/8	5 17/32	•
9/16 - 5/8	XS1820A	13/16 - 29/32	13/32 - 7/16	5 7/8	•
5/8 - 3/4	XS2024A	29/32 - 1 1/16	7/16 - 1/2	6 3/8	•
11/16 - 13/16	XS2226A	1 - 1 5/32	15/32 - 17/32	6 23/32	•

Set includes storage tray



Heads of X0, XOM, and XS0 wrenches are deeply offset at 60° angle to the handles so recessed fasteners may be easily reached.



XOM605



XO605



XSO1214A

Standard Length, Deep 60° Offset, mm

Set Contains: XOM605

mm	12	A	B	C	12
8 - 10	XOM810	11.7 - 14.2	6.9 - 7.3	178.1	•
10 - 11	XOM1011	15 - 16.3	7.6	193.0	•
12 - 14	XOM1214	15 - 20.3	9.0	210.0	•
13 - 15	XOM1315	16.3 - 21.2	8.9	223.0	•
16 - 18	XOM1618	17.7 - 25.4	10.8	253.0	•
17 - 19	XOM1719	17.7 - 27.4	11.1	260.0	•
20 - 21	XOM2021	32.5 - 33.3	13.7	329.6	•
22 - 24	XOM2224	31.9 - 34.1	13.7	329.6	•

Sets shown include storage tray

Standard Length, Deep 60° Offset, inches

Set Contains: XO605A

12	12	A	B	C	12
1/4 - 5/16	XO810	3/8	9/32 (1/4 - 9/32)	6 13/32	•
5/16 - 3/8	XO1012	15/32 - 9/16	9/32	7	•
3/8 - 7/16	XO1214	9/16 - 5/8	5/16	7 19/32	•
1/2 - 9/16	XO1618	23/32 - 13/16	11/32	8 25/32	•
9/16 - 5/8	XO1820	13/16 - 29/32	13/32	9 3/8	•
5/8 - 11/16	XO2022	29/32 - 1	13/32	9 15/16	•
5/8 - 3/4	XO2024	29/32 - 1 3/32	7/16	10 1/4	•
11/16 - 13/16	XO2226	1 - 1 5/32	15/32	10 27/32	•
3/4 - 7/8	XO2428	1 3/32 - 1 1/4	1/2	11 13/32	•
7/8 - 15/16	XO2830	1 1/4 - 1 11/32	17/32	12 31/32	•
15/16 - 1	XO3032	1 11/32 - 1 7/16	9/16	13 15/16	•

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Sets shown include storage tray

Short Handle, Deep 60° Offset, inches

12	12	A	B	C
1/4 - 5/16	XS0810A	3/8 - 7/16	3/16 - 7/32	4 5/32
3/8 - 7/16	XS01214A	17/32 - 5/8	1/4 - 9/32	4 13/16
11/16 - 13/16	XS02226A	31/32 - 1 1/8	13/32 - 15/32	7 1/32

ASME/ANSI B107.100



WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Ratcheting Box



RTBM605

Set Contains:

RTBM605
RTBM505

T-Handle, mm

mm	12	A	B	C	D	12	12
8	RTBM8	17.5	71.4	307.2	9.5	•	
10	RTBM10	23.0	76.2	307.2	9.5	•	
12	RTBM12	29.4	86.5	308.8	12.7	•	
13	RTBM13	29.4	86.5	308.8	12.7	•	
14	RTBM14	29.4	86.5	308.8	12.7	•	
15	RTBM15	36.8	98.6	308.8	12.7		•
16	RTBM16	36.8	98.6	308.8	12.7		•
17	RTBM17	36.8	98.6	308.8	12.7		•
18	RTBM18	36.8	98.6	308.8	12.7		•
19	RTBM19	36.8	98.6	308.8	12.7		•

Sets include storage tray



RTB607

Set Contains:

RTB607

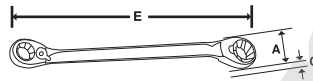
T-Handle, inches

11	12	A	B	C	D	12
1/4	RTB8	11/16	2 13/16	12 3/32	3/8	•
5/16	RTB10	11/16	2 13/16	12 3/32	3/8	•
11/32	RTB11	29/32	3	12 3/32	3/8	•
3/8	RTB12	29/32	3	12 3/32	3/8	•
7/16	RTB14	29/32	3	12 3/32	3/8	•
1/2	RTB16	1 5/32	3 13/32	12 5/32	1/2	•
9/16	RTB18	1 5/32	3 13/32	12 5/32	1/2	•

Set includes storage tray



BXORM706



Standard Length, 25° Offset, mm

Set Contains:

BXORM706*

mm	12	A	C	E	12
8 - 9	BXORM89	18.0 - 19.3	6.4 - 7.6	184.2	•
10 - 11	BXORM1011	21.8 - 22.1	8.1 - 8.6	203.2	•
12 - 13	BXORM1213	23.6 - 26.6	8.9 - 10.2	222.3	•
14 - 15	BXORM1415	27.2 - 28.7	10.2 - 10.9	241.3	•
16 - 17	BXORM1617	31.0 - 32.0	10.9 - 11.9	260.4	•
18 - 19	BXORM1819	34.5 - 36.8	12.2 - 13.2	279.4	•

*Blue-Point®

Set includes storage tray



RBM604C

Standard Length, 0° Offset, mm

Set Contains:

RBM604C

mm	6	12	A	C	E	12
7 - 8	RBM78SC	RBM78C	15.1 - 17.1	9.5	114.3	
8 - 10		RBM810C	20.2 - 22.6	9.5	139.7	
9 - 10		RBM910C	20.2 - 22.6	9.5	139.7	
10 - 11	RBM1011SC	RBM1011C	25.8 - 29.4	12.7	174.6	•
10 - 12		RBM1012C	25.8 - 29.4	12.7	174.6	
12 - 13	RBM1213SC	RBM1213C	25.8 - 29.4	12.7	174.6	•
12 - 14		RBM1214C	25.8 - 29.4	12.7	174.6	
14 - 15		RBM1415C	32.9 - 36.5	12.7	206.4	•
16 - 18		RBM1618C	32.9 - 36.5	12.7	206.4	
17 - 19		RBM1719C	32.9 - 36.5	12.7	206.4	•

Set shown includes storage tray



BXOR704

Standard Length, 25° Offset, inches

Set Contains:

BXOR704*

11	12	A	C	E	12
5/16 - 3/8	BXOR1012	23/32 - 7/8	1/4 - 5/16	7 1/2	•
7/16 - 1/2	BXOR1416	7/8 - 31/32	11/32 - 13/32	8 3/4	•
9/16 - 5/8	BXOR1820	1 1/16 - 7/32	13/32 - 7/16	9 3/4	•
11/16 - 3/4	BXOR2224	1 9/32 - 7/16	15/32 - 7/2	11	•

*Blue-Point®

Set includes storage tray



RB604C

Standard Length, 0° Offset, inches

Set Contains:

RB604C

11	6	12	A	C	E	12
1/4 - 5/16	R810SC	R810C	19/32 - 43/64	3/8	4 1/2	
5/16 - 11/32		R1011C	5/8 - 3/4	11/32	5 3/8	
5/16 - 3/8		R1012C	51/64 - 57/64	3/8	5 1/2	
3/8 - 7/16	R1214SC	R1214C	51/64 - 57/64	3/8	5 1/2	•
1/2 - 9/16	R1618SC	R1618C	1 1/64 - 1 5/32	1/2	6 7/8	•
5/8 - 11/16		R2022C	1 19/64 - 1 7/16	1/2	8 1/8	•
5/8 - 3/4		R2024C	1 19/64 - 1 7/16	1/2	8 1/8	
3/4 - 13/16		R2426C	1 13/32 - 1 37/64	1/2	9 1/4	
3/4 - 7/8		R2428C	1 13/32 - 1 37/64	1/2	9 1/4	•
13/16 - 15/16		R2630C	1 13/32 - 1 37/64	1/2	9 1/4	
7/8 - 15/16		R2830C	1 29/32 - 2 17/64	9/16	15	
15/16 - 1		R3032C	1 29/32 - 2 17/64	9/16	15	
1 1/16 - 1 1/8		R3436A	2 - 2	9/16	12 3/4	
1 1/8 - 1 1/4	R3640SA		2 3/32 - 2 3/32	9/16	12 13/16	
1 3/16 - 1 1/4		R3840A	2 - 2	9/16	12 3/4	

Set shown includes storage tray

WRENCHES

Ratcheting Box



RBZM605

Set Contains:

RBZM605

Latch-on®, 0° Offset, mm

- Latch-on head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

mm	12	A	C	E	12
7 - 8	RBZM78	15.1 - 17.1	9.5	114.3	•
9 - 10	RBZM910	20.4 - 22.6	9.5	140.3	•
11 - 12	RBZM1112	25.8 - 29.4	12.7	174.6	•
13 - 14	RBZM1314	25.8 - 29.4	12.7	174.6	•
15 - 17	RBZM1517	32.9 - 36.5	12.7	206.4	•
16 - 18	RBZM1618	32.9 - 36.5	12.7	206.4	•
19 - 21	RBZM1921	35.7 - 40.1	12.7	234.9	•

Set shown includes storage tray



RBZ605

Set Contains:

RBZ605

Latch-on®, 0° Offset, inches

- Latch-on head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

12	A	C	E	12	
$1/4 - 5/16$	RBZ810	$19/32 - 11/16$	$3/8$	$4 1/2$	•
$3/8 - 7/16$	RBZ1214	$13/16 - 29/32$	$3/8$	$5 1/2$	•
$1/2 - 9/16$	RBZ1618	$1 1/32 - 1 5/32$	$1/2$	$6 7/8$	•
$5/8 - 11/16$	RBZ2022	$1 5/16 - 1 7/16$	$1/2$	$8 1/8$	•
$3/4 - 7/8$	RBZ2428	$1 13/32 - 1 19/32$	$1/2$	$9 1/4$	•
$1/4 - 5/16$	RBZ605	$29/32 - 29/32$	$3/8$	8	•

Set shown includes storage tray



RBYAM605

Set Contains:

RBYAM605

Standard Length, 25° Offset, mm

mm	12	A	C	E	12
7 - 8	RYAM78	15.5 - 16.3	9.5	105.2	•
9 - 10	RYAM910	19.8 - 22.6	9.5	134.5	•
11 - 12	RYAM1112	25.4 - 29	12.7	165.9	•
13 - 14	RYAM1314	25.4 - 29	12.7	165.9	•
15 - 17	RYAM1517	33 - 36.5	12.7	197.2	•
16 - 18	RYAM1618	33 - 36.5	12.7	197.2	•
19 - 21	RYAM1921	35.7 - 40.1	12.7	224.2	•

Sets shown include storage tray



RBYA605

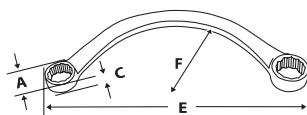
Set Contains:

RBYA605

Standard Length, 25° Offset, inches

12	A	C	E	12	
$1/4 - 5/16$	RYA810	$9/16 - 5/8$	$11/32$	$4 9/32$	•
$5/16 - 11/32$	RYA1011	$19/32 - 11/16$	$3/8$	$4 1/32$	•
$3/8 - 7/16$	RYA1214	$3/4 - 7/8$	$11/32$	$6 5/32$	•
$1/2 - 9/16$	RYA1618	$15/16 - 1$	$13/32$	$6 31/32$	•
$5/8 - 11/16$	RYA2022	$1 1/8 - 1 1/4$	$13/32$	$7 27/32$	•
$3/4 - 7/8$	RYA2428	$1 3/8 - 1 1/2$	$7/16$	$8 5/8$	•

Set shown includes storage tray



CXM605

Set Contains:

CXM605

Half Moon, mm

mm	12	A	C	E	F	12
10 - 12	CXM1012	15 - 17	6 - 7	128	48	•
11 - 13	CXM1113	16 - 18	8 - 8	144	57	•
14 - 17	CXM1417	20 - 23	9 - 9	166	65	•
15 - 19	CXM1519	22 - 27	10 - 11	198	78	•
18 - 21	CXM1821	27 - 31	11 - 13	224	86	•

Set shown includes storage tray

Flank Drive® Specialty Box



CX605

Set Contains:

CX605

Half Moon, inches

12	A	C	E	F	12	
$5/16 - 3/8$	CX1012	$15/32 - 9/16$	$3/16 - 5/16$	$4 5/8$	$2 1/16$	•
$7/16 - 1/2$	CX1416	$5/8 - 23/32$	$5/16 - 5/16$	5	$2 7/32$	•
$9/16 - 5/8$	CX1820	$13/16 - 7/8$	$11/32 - 3/8$	$6 1/2$	$2 9/16$	•
$5/8 - 3/4$	CX2024	$7/8 - 1 7/32$	$13/32 - 7/16$	$7 3/4$	$3 1/16$	•
$11/16 - 13/16$	CX2226	$31/32 - 1 9/32$	$13/32 - 15/32$	$8 1/2$	$3 1/2$	•
$7/8 - 15/16$	CX2830	$1 1/4 - 1 11/32$	$9/16 - 9/16$	10	$4 1/16$	•

Set includes storage tray



WARNING



- Frequently inspect, clean and lubricate ratchet mechanism with light oil
- Read safety precautions on pages 594 to 597

WRENCHES

Flank Drive® Specialty Box



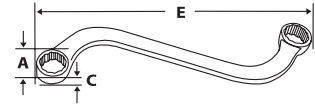
SBXM605

"S" Shaped, mm

Set Contains: SBXM605

mm	12	A	C	E	12
10 - 12	SBXM1012	14 - 18	6 - 8	140	•
11 - 13	SBXM1113	16 - 19	7 - 8	155	•
14 - 15	SBXM1415	21 - 22	9 - 9	190	•
16 - 18	SBXM1618	24 - 27	10 - 11	173	•
17 - 19	SBXM1719	25 - 28	10 - 12	240	•

Set includes storage tray



SBX605

"S" Shaped, inches

Set Contains: SBX605

11	12	A	C	E	12
5/16 - 3/8	SBX1012	15/32 - 9/16	9/16 - 7/32	3 3/4	•
7/16 - 1/2	SBX1416	21/32 - 3/4	9/32 - 9/16	5 5/16	•
9/16 - 5/8	SBX1820	27/32 - 15/16	11/32 - 13/32	6 7/8	•
11/16 - 3/4	SBX2224	1 1/32 - 1 1/8	13/32 - 15/32	8 7/16	•
13/16 - 7/8	SBX2628	1 7/32 - 1 5/16	17/32 - 9/16	10	•

Set includes storage tray

Open End



LTAM811

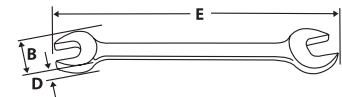
Low Torque Slimline, 15° Offsets, mm

Set Contains: LTAM811

mm	Stock No.	B	D	E	
6 - 7	LTAM67	13 - 15	3	165	•
8 - 10	LTAM810	17 - 21	3	165	•
10 - 11	LTAM1011	21 - 23	3	165	•
12 - 14	LTAM1214	25 - 29	4	241	•
13 - 15	LTAM1315	27 - 31	4	241	•
16 - 18	LTAM1618	33 - 37	4	241	•
17 - 19	LTAM1719	35 - 39	4	241	•
19 - 22	LTAM1922	39 - 45	4	241	•
21 - 24	LTAM2124	43 - 49	4	241	•
27 - 30	LTAM2730	55 - 61	6	311	•
32 - 36	LTAM3236	65 - 73	6	311	•

ASME/ANSI B107.100

Set includes storage tray



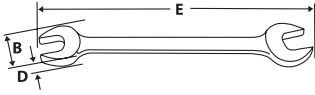
LTA805K

Low Torque Slimline, 15° Offsets, inches

Set Contains: LTA812, LTA805K

11	Stock No.	B	D	E		
3/8 - 7/16	LTA1214	25/32 - 29/32	3/32	9 1/2	•	
7/16 - 1/2	LTA1416	29/32 - 1 1/32	5/32	9 1/2	•	•
1/2 - 9/16	LTA1618	1 1/32 - 1 5/32	5/32	9 1/2	•	•
5/8 - 11/16	LTA2022	1 9/32 - 1 13/32	5/32	9 1/2	•	•
3/4 - 13/16	LTA2426	1 17/32 - 1 11/16	5/32	9 1/2	•	•
3/4 - 7/8	LTA2428	1 17/32 - 1 25/32	5/32	9 1/2	•	•
15/16 - 1	LTA3032	1 29/32 - 2 1/32	5/32	9 1/2	•	•
1 1/16 - 1 1/8	LTA3436	2 5/32 - 2 9/32	1/4	12 1/4	•	•
1 1/4 - 1 5/16	LTA4042	2 17/32 - 2 21/32	1/4	12 1/4	•	•
1 3/8 - 1 7/16	LTA4446	2 25/32 - 2 29/32	1/4	12 1/4	•	•
1 1/2 - 1 5/8	LTA4852	3 1/16 - 3 9/32	9/32	14 1/4	•	•
1 11/16 - 1 7/8	LTA5460	3 13/32 - 3 17/32	9/32	14 1/4	•	•
	Kit Bag					C0507

WRENCHES



VOM1415B

Standard, mm

mm	Stock No.	B	D	E
6 - 7	VOM67B	13 - 15	4 - 4	97
7 - 8	VOM78B	15 - 17	4 - 4	106
8 - 10	VOM810B	17 - 21	4 - 5	121
10 - 11	VOM1011B	21 - 23	5 - 6	136
11 - 13	VOM1113B	23 - 27	6 - 6	151
12 - 13	VOM1213B	25 - 27	6 - 6	157
12 - 14	VOM1214B	25 - 29	6 - 7	162
14 - 15	VOM1415B	29 - 31	7 - 7	178
16 - 18	VOM1618B	33 - 37	7 - 8	205
17 - 19	VOM1719B	35 - 38	8 - 9	216
19 - 22	VOM1922B	39 - 46	9 - 10	245
21 - 24	VOM2124B	43 - 49	9 - 10	267
22 - 24	VOM2224B	46 - 49	10 - 10	273
27 - 30	VOM2730B	55 - 61	11 - 12	338
30 - 32	VOM3032B	61 - 65	12 - 12	368

ASME/ANSI B107.100



DSM810K

Ignition, 15/60° Offsets, mm

A	B	Stock No.	C	D	E	
3.2	5.5	DSM3.25.5	8 - 11	3	74	•
5.5	3.2	DSM5.53.2	11 - 8	3	83	•
4	5	DSM45	9 - 11	3	77	•
5	4	DSM54	11 - 9	3	81	•
6	7	DSM67	12 - 14	3	85	•
7	6	DSM76	14 - 12	3	89	•
8	9	DSM89	15 - 17	3	93	•
9	8	DSM98	17 - 15	3	97	•
10	11	DSM1011	20 - 22	4	101	•
11	10	DSM1110	22 - 20	4	105	•
		Kit Bag				C1003A

ASME/ANSI B107.100

Open End



V0806B

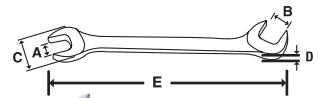
Set Contains: V0806B* V0820K

Standard, inches

in	Stock No.	B	D	E		
1/4 - 5/16	V0810B	17/32 - 21/32	5/32 - 5/32	4 1/16	•	•
5/16 - 3/8	V01012B	21/32 - 25/32	5/32 - 3/16	4 21/32	•	•
3/8 - 7/16	V01214B	25/32 - 29/32	3/16 - 7/32	5 5/16	•	•
7/16 - 1/2	V01416B	29/32 - 1 1/16	7/32 - 1/4	5 15/16	•	•
1/2 - 9/16	V01618B	1 1/16 - 1 5/32	1/4 - 9/32	6 19/32	•	•
9/16 - 5/8	V01820B	1 5/32 - 1 5/16	9/32 - 9/32	7 9/32	•	•
5/8 - 11/16	V02022B	1 5/16 - 1 13/32	9/32 - 5/16	7 15/16	•	•
5/8 - 3/4	V02024B	1 5/16 - 1 9/16	9/32 - 11/32	8 9/32	•	•
11/16 - 3/4	V02224B	1 13/32 - 1 9/16	5/16 - 11/32	8 5/8	•	•
3/4 - 13/16	V02426B	1 9/16 - 1 21/32	11/32 - 3/8	9 11/32	•	•
3/4 - 7/8	V02428B	1 9/16 - 1 13/16	11/32 - 3/8	9 21/32	•	•
13/16 - 7/8	V02628B	1 21/32 - 1 13/16	3/8 - 3/8	10 1/32	•	•
7/8 - 15/16	V02830B	1 13/16 - 1 29/32	3/8 - 13/32	10 3/4	•	•
15/16 - 1	V03032B	1 29/32 - 2 1/32	13/32 - 13/32	11 15/32	•	•
1 11/16	V03234B	2 1/32 - 2 5/32	13/32 - 7/16	12 7/32	•	•
1 1/16 - 1 1/4	V03440B	2 5/32 - 2 17/32	7/16 - 1/2	12 15/16	•	•
1 1/8 - 1 3/16	V03638B	2 5/16 - 2 13/32	7/16 - 15/32	13 23/32	•	•
1 1/4 - 1 5/16	V04042B	2 17/32 - 2 21/32	1/2 - 1/2	15 1/4	•	•
1 3/8 - 1 7/16	V04446B	2 13/16 - 2 29/32	17/32 - 17/32	16 7/8	•	•
1 1/2 - 1 5/8	V04852B	3 1/16 - 3 5/16	9/16 - 19/32	18 29/32	•	•
	Kit Bag					C200

ASME/ANSI B107.100

*Set includes storage tray



DS809K

Ignition, 15/60° Offsets, inches

A	B	Stock No.	C	D	E		
1/8	1/8	DS88A	5/16 - 5/16	1/8	2 29/32	•	
5/32	5/32	DS1010A	3/8 - 3/8	1/8	2 7/8	•	
3/16	3/16	DS1212A	13/32 - 13/32	1/8	3 1/8	•	
15/64	1/4	DS1516A	15/32 - 1/2	1/8	3 1/4	•	•
1/4	15/64	DS1615A	1/2 - 15/32	1/8	3 13/32	•	•
9/32	5/16	DS1820A	9/16 - 19/32	1/8	3 1/2	•	•
5/16	9/32	DS2018A	19/32 - 9/16	1/8	3 21/32	•	•
11/32	3/8	DS2224A	21/32 - 23/32	5/32	3 3/4	•	•
3/8	11/32	DS2422A	23/32 - 21/32	5/32	3 3/4	•	•
		Kit Bag					C0900A C0605

ASME/ANSI B107.100



WARNING

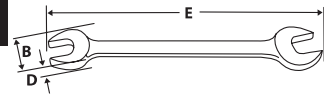


• Read safety precautions on pages 594 to 597

WRENCHES

Open End

- Angle-head wrenches offset at 30° and 60° angles to the handle
- Both ends are same size to permit use of one wrench in four positions



Four-Way Angle Head, mm

mm	Stock No.	B	D	E	Set Contains:	
					VSM814	VSM807B*
10	VSM5210B	20	6	127	•	•
11	VSM5211B	22	6	137	•	•
12	VSM5212B	24	6	145	•	•
13	VSM5213B	26	6	154	•	•
14	VSM5214B	28	6	164	•	•
15	VSM5215B	30	7	173	•	•
16	VSM5216B	31	7	181	•	•
17	VSM5217B	34	7	191	•	•
18	VSM5218B	36	7	200	•	•
19	VSM5219B	37	7	210	•	•
21	VSM5221B	41	8	228	•	•
22	VSM5222B	44	8	239	•	•
24	VSM5224B	47	8	254	•	•
27	VSM5227B	53	9	283	•	•

ASME/ANSI B107.9M-1994

*Set includes storage tray

Open End Wrenches—Blue-Point®



Open End, mm

mm	Stock No.	Length, mm
10-11	BDOEM1011	145
12-13	BDOEM1213	165
14-15	BDOEM1415	185
16-17	BDOEM1617	185
18-19	BDOEM1819	227



Open End, inches

#	Stock No.	Length, inches
5/16-3/8	BDOE1012	5 5/16
7/16-1/2	BDOE1416	6 1/2
9/16-5/8	BDOE1820	7 9/32
11/16-3/4	BDOE2224	8 15/16

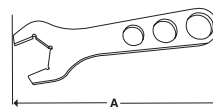
ASME/ANSI B107.100



Four-Way Angle Head, inches

#	Stock No.	Industrial Stock No.	B	D	E	Set Contains:		
						VS828A	VS814A	VS807B*
1/4	VS8B		17/32	3/16	3 11/16	•		
5/16	VS10B		21/32	3/16	4 1/4	•		
11/32	VS11B		23/32	7/32	4 17/32	•		
3/8	VS12B		25/32	7/32	4 27/32	•	•	•
7/16	VS14B		7/8	7/32	5 13/32	•	•	•
1/2	VS16B	GVS16B	1	1/4	5 31/32	•	•	•
9/16	VS18B	GVS18B	1 1/8	1/4	6 9/16	•	•	•
5/8	VS20B	GVS20B	1 1/4	9/32	7 1/8	•	•	•
11/16	VS22B	GVS22B	1 3/8	9/32	7 11/16	•	•	•
3/4	VS24B	GVS24B	1 15/32	9/32	8 9/32	•	•	•
13/16	VS26B	GVS26B	1 19/32	5/16	8 27/32	•	•	
7/8	VS28B	GVS28B	1 23/32	5/16	9 13/32	•	•	
15/16	VS30B	GVS30B	1 27/32	11/32	10	•	•	
1	VS32B	GVS32B	1 31/32	11/32	10 9/16	•	•	
1 1/16	VS34B	GVS34B	2 3/32	11/32	11 1/8	•	•	
1 1/8	VS36B		2 3/16	3/8	11 23/32	•	•	
1 3/16	VS38B		2 11/32	3/8	12 9/32	•	•	
1 1/4	VS40B	GVS40B	2 7/16	13/32	12 7/8	•	•	
1 5/16	VS42B		2 9/16	13/32	13 7/16	•	•	
1 3/8	VS44B		2 11/16	13/32	14	•	•	
1 7/16	VS46B		2 27/32	7/16	14 19/32	•	•	
1 1/2	VS48B		2 15/16	7/16	15 5/32	•	•	
1 5/8	VS52B		3 7/32	15/32	16 5/16	•	•	
1 11/16	VS54B		3 11/32	1/2	16 7/8	•	•	
1 3/4	VS56B		3 15/32	1/2	17 7/16	•	•	
1 13/16	VS58B		3 19/32	1/2	18	•	•	
1 7/8	VS60B		3 23/32	17/32	18 19/32	•	•	
2	VS64B		3 31/32	9/16	19 3/4	•	•	

*Set includes storage tray



Aluminum (for AN Fittings)

- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications as well as race and show cars
- Machined from aluminum billet to exacting tolerances
- Made from quality heat treated hardened aluminum
- Corner reliefs on open end wrenches prevent rounding the corners of the fitting
- Handle length designed to apply appropriate torque without overtightening
- Open end wrenches are color coded and stamped for quick size identification

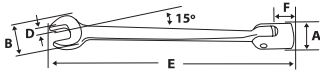
Set Contains:

#	#	Stock No.	Color	A	
No. 3	1/2	ANWR3	Silver	4 (101.6)	•
No. 4	9/16	ANWR4	Black	4 3/4 (120.7)	•
No. 6	11/16	ANWR6	Light Blue	5 3/4 (146.1)	•
No. 8	7/8	ANWR8	Pink	5 3/4 (146.1)	•
No. 10	1	ANWR10	Gold	7 1/8 (181.0)	•
No. 12	1 1/4	ANWR12	Red	7 1/2 (190.5)	•
No. 16	1 1/2	ANWR16	Brass	8 3/4 (222.3)	•
No. 20	1 13/16	ANWR20	Dark Blue	9 1/4 (237.0)	•

Set includes heavy gauge vinyl pouch

WRENCHES

Flank Drive® Flex Head



FHOM606B



FHO607B

Flex-Combination, mm

Set Contains:

FHOM612B
FHOM606B

mm	12	A	B	D	E	F	12	12
8	FHOM8B	12	17	5	146	6	•	
9	FHOM9B	13	18	5	156	6	•	
10	FHOM10B	14	20	5	166	6	•	•
11	FHOM11B	16	23	6	181	7	•	•
12	FHOM12B	17	30	6	198	9	•	•
13	FHOM13B	19	27	7	205	9	•	•
14	FHOM14B	20	30	7	213	9	•	•
15	FHOM15B	21	31	7	224	10	•	•
16	FHOM16B	23	33	7	229	10	•	
17	FHOM17B	24	37	8	246	10	•	•
18	FHOM18B	24	38	8	254	11	•	
19	FHOM19B	26	40	8	261	12	•	

Sets include storage tray

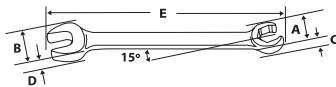
Flex-Combination, inches

Set Contains:

FHO611B
FHO607B

in	12	A	B	D	E	F	12	12
1/4	FHO8B	3/8	17/32	1/8	4 15/16	7/32	•	
5/16	FHO10B	15/32	21/32	3/16	5 31/32	1/4	•	
3/8	FHO12B	9/16	17/32	7/32	6 1/2	1/4	•	•
7/16	FHO14B	5/8	29/32	7/32	7 1/8	9/32	•	•
1/2	FHO16B	23/32	1 1/16	1/4	7 13/16	11/32	•	•
9/16	FHO18B	25/32	1 3/16	9/32	8 3/8	11/32	•	•
5/8	FHO20B	29/32	1 5/16	9/32	9	3/8	•	•
11/16	FHO22B	1	1 7/16	9/32	9 11/16	13/32	•	•
3/4	FHO24B	1 1/32	1 1/2	5/16	10 1/4	15/32	•	•
13/16	FHO26B	1 1/32	1 23/32	5/16	10 5/16	1/2	•	•
7/8	FHO28B	1 3/16	1 27/32	5/16	10 15/32	9/16	•	

Sets include storage tray



RXSM605B



RXS605B

Open End and Flare Nut, mm

Set Contains:

RXSM605B

mm	6	A	B	C	D	E	6
8	RXSM8B	17	17	7	7	135	
9	RXSM9B	18	19	7	7	144	
10	RXSM10B	20	21	8	8	152	•
11	RXSM11B	21	23	9	9	162	•
12	RXSM12B	22	25	9	9	169	•
13	RXSM13B	24	27	9	9	178	•
14	RXSM14B	25	29	10	10	186	•
15	RXSM15B	26	31	10	10	194	
16	RXSM16B	27	33	11	11	202	
17	RXSM17B	29	35	11	11	211	
18	RXSM18B	30	37	12	12	219	
19	RXSM19B	32	39	12	12	228	
20	RXSM20B	33	41	14	14	235	

Set includes storage tray

Open End and Flare Nut, inches

Set Contains:

RXS605B

in	6	A	B	C	D	E	6
	RXS10B	21/32	21/32	9/32	9/32	5 5/16	
3/8	RXS12B	3/4	25/32	5/16	5/16	5 27/32	•
7/16	RXS14B	27/32	29/32	11/32	11/32	6 3/8	•
1/2	RXS16B	29/32	1 1/16	3/8	3/8	6 7/8	•
9/16	RXS18B	1	1 5/32	13/32	13/32	7 13/32	•
5/8	RXS20B	1 3/32	1 5/16	7/16	7/16	7 15/16	•
	RXS22B	1 5/32	1 13/32	15/32	15/32	8 15/32	
	RXS24B	1 1/4	1 9/16	1/2	1/2	9	

Set includes storage tray



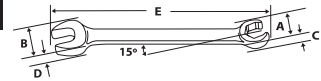
WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Flank Drive® Flare Nut



RXFMS606B



RXFS605B

Double End, mm

Set Contains: RXFMS606B

mm	6	A	C	E	6
9 - 11	RXFMS911B	18 - 21	7 - 8	145	•
10 - 12	RXFMS1012B	20 - 22	8 - 9	153	•
13 - 14	RXFMS1314B	24 - 25	9 - 10	173	•
15 - 17	RXFMS1517B	26 - 29	10 - 11	193	•
16 - 18	RXFMS1618B	28 - 30	11 - 12	200	•
19 - 21	RXFMS1921B	32 - 34	12 - 13	223	•

Set includes storage tray

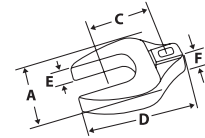
Double End, inches

Set Contains: RXFS605B

in	6	A	C	E	6
1/4 - 5/16	RXFS810B	19/32 - 21/32	1/4 - 9/32	4 27/32	•
3/8 - 7/16	RXFS1214B	3/4 - 27/32	5/16 - 11/32	5 13/16	•
1/2 - 9/16	RXFS1618B	29/32 - 1	3/8 - 13/32	6 13/16	•
5/8 - 11/16	RXFS2022B	1 3/32 - 1 5/32	7/16 - 15/32	7 3/4	•
3/4 - 13/16	RXFS2426B	1 1/4 - 1 9/16	1/2 - 17/32	8 25/32	•
3/4 - 1	RXFS2432B	1 1/4 - 1 9/16	1/2 - 5/8	9 1/2	•
7/8 - 1 1/8	RXFS2836B	1 13/32 - 1 3/4	9/16 - 11/16	10 1/2	•

Set includes storage tray

1/4" Drive Crowfoot Wrenches



107TMCOM



106TMCO

Open End, mm (chrome)

Set Contains: 107TMCOM

mm	Hand	A	C	E	F	D	Hand
7	TMCOM7	13.5	13.2	6.6	6.6	24.4	•
8	TMCOM8	16.8	14.1	6.6	6.6	25.9	•
10	TMCOM10	19.8	14.6	6.6	6.6	27.5	•
11	TMCOM11	22.4	16.0	7.9	7.9	29.4	•
12	TMCOM12	24.4	16.5	7.9	7.9	30.6	•
13	TMCOM13	26.4	16.6	7.9	7.9	31.2	•
14	TMCOM14	29.0	17.7	7.9	7.9	32.9	•

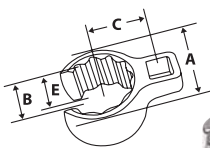
Set includes storage tray

Open End, inches (chrome)

Set Contains: 106TMCO

in	Hand	A	C	E	F	D	Hand
1/4	TMCO8	17/32	17/32	1/4	1/4	31/32	•
5/16	TMCO10	21/32	9/16	1/4	1/4	1 1/32	•
3/8	TMCO12	25/32	19/32	1/4	1/4	1 3/32	•
7/16	TMCO14	7/8	5/8	5/16	5/16	1 5/32	•
1/2	TMCO16	1 1/32	21/32	5/16	5/16	1 1/4	•
9/16	TMCO18	1 1/8	11/16	5/16	5/16	1 9/32	•

Set includes storage tray



TMRX12



AN85088B

Flank Drive Flare Nut-Shallow, inches, 12-Point

in	12	A	B	C	E	Maximum Recommended Working Torque, in. lb.
1/4	TMRX8	13/32	1/8	31/32	1/4	75
5/16	TMRX10	1/2	3/16	31/32	1/4	75
3/8	TMRX12	19/32	1/4	31/32	1/4	75

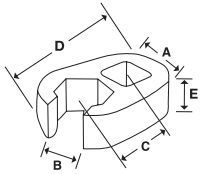
Flank Drive Flare Nut-Deep, inches, 12-Point

in	12	A	C	E	Maximum Recommended Working Torque, in. lb.
3/8	AN85086B	9/32	1/2	1/2	75
7/16	AN85087B	11/32	9/16	9/16	200
1/2	AN85088B	13/32	19/32	9/16	200
9/16	AN85089B	15/32	5/8	9/16	200

• Use only moderate force on crowfoot and flare nut wrenches

WRENCHES

3/8" Drive Crowfoot Wrenches



210FRHMA

Flank Drive® Flare Nut,
mm, 6-Point (chrome)

Set
Contains:

210FRHMA

mm	6	A	B	C	D	E	Maximum Recommended Working Torque, in. lb.	6
9	FRHM9	22.4	6.7	14.2	33.3	9.7	150	
10	FRHM10	22.9	7.4	14.2	35.3	9.7	200	•
11	FRHM11	22.9	8.3	14.2	35.3	9.7	200	•
12	FRHM12	25.4	9.0	14.2	36.6	9.7	250	•
13	FRHM13	25.4	9.4	14.2	36.6	9.7	250	•
14	FRHM14	28.4	10.5	18.8	40.9	11.2	375	•
15	FRHM15	28.4	11.2	18.8	40.9	11.2	375	•
16	FRHM16	28.4	11.7	18.8	40.9	11.2	375	•
17	FRHM17	33.3	12.6	20.6	44.7	12.7	525	•
18	FRHM18	33.3	13.6	20.6	44.7	12.7	525	•
19	FRHM19	33.3	14.7	20.6	44.7	12.7	525	•
20	FRHM20	41.1	15.2	22.1	50.3	14.2	600	
21	FRHM21	41.1	16.3	22.1	50.3	14.2	650	
22	FRHM22	41.1	17.0	22.1	50.3	14.2	650	

Set shown includes storage tray



205ANM

Flank Drive Flare Nut-Deep,
mm, 12-Point (chrome)

Set
Contains:

205ANM

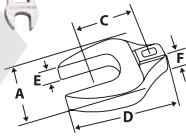
mm	12	A	B	C	E	
12	ANM12	18.9	8.3	16.3	15.0	•
13	ANM13	21.2	9.7	17.7	15.0	•
14	ANM14	21.2	10.5	17.7	15.0	•
17	ANM17	26.6	13.0	19.7	19.1	•
19	ANM19	29.0	14.6	20.9	19.8	•

Set shown includes storage tray



210FCOMA

Open End, mm (chrome)



mm		A	C	E	F	D	Maximum Recommended Working Torque, in. lb.		
9	FCOM9A	22.4	18.8	5.3	13.2	33.3	75	•	
10	FCOM10A	22.4	17.6	5.3	13.2	33.0	75	•	•
11	FCOM11A	22.4	16.6	5.3	13.2	32.3	75	•	•
12	FCOM12A	26.2	21.0	5.3	13.2	37.3	105	•	•
13	FCOM13A	26.2	19.8	5.3	13.2	36.8	105	•	•
14	FCOM14A	26.2	18.6	5.3	13.2	36.1	105	•	•
15	FCOM15A	31.8	22.7	5.3	13.2	40.9	125	•	•
16	FCOM16A	31.8	21.7	5.3	13.2	40.4	125	•	•
17	FCOM17A	31.8	20.5	5.3	13.2	39.9	125	•	•
18	FCOM18A	38.4	27.2	6.4	13.2	48.5	170	•	•
19	FCOM19A	38.4	26.2	6.4	13.2	48.0	170	•	•
20	FCOM20A	38.4	25.0	6.4	13.2	48.0	170	•	•
21	FCOM21A	43.7	27.4	7.1	15.0	48.8	250	•	•
22	FCOM22A	43.7	26.4	7.1	15.0	50.0	250	•	•
23	FCOM23A	50.5	30.1	8.9	16.8	54.4	390	•	•
24	FCOM24A	50.5	28.8	8.9	16.8	53.8	400	•	•

Set
Contains:

216FCOM

210FCOMA



207SFRH

Flank Drive Flare Nut,
inches, 6-Point (chrome)

Set
Contains:

207SFRH

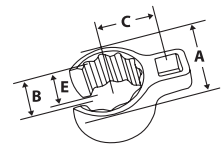
in	6	A	B	C	D	E	Maximum Recommended Working Torque, in. lb.	6
3/8	FRH120S	13/32	1/4	9/16	1 11/32	3/8	150	•
7/16	FRH140S	29/32	5/16	9/16	1 13/32	3/8	200	•
1/2	FRH160S	1	11/32	9/16	1 7/16	3/8	250	•
9/16	FRH180S	1 1/8	3/8	3/4	1 5/8	7/16	300	•
5/8	FRH200S	1 1/8	7/16	3/4	1 5/8	7/16	375	•
11/16	FRH220S	1 5/16	1/2	13/16	1 25/32	1/2	450	•
3/4	FRH240S	1 5/16	9/16	13/16	1 25/32	1/2	525	•
13/16	FRH260S	1 5/8	5/8	7/8	1 31/32	9/16	600	
7/8	FRH280S	1 5/8	23/32	7/8	1 31/32	9/16	675	
15/16	FRH300S	1 7/8	11/16	15/16	2 3/16	5/8	750	
1	FRH320S	1 7/8	3/4	15/16	2 3/16	5/8	825	

Set shown includes storage tray



208AN

Flank Drive Flare Nut-Deep,
inches, 12-Point (chrome)



Set
Contains:

208AN

in	12	A	B	C	E	Maximum Recommended Working Torque, in. lb.	12
5/8	AN850810B	15/16	1/2	23/32	23/32	250	•
11/16	AN850811B	1 1/32	17/32	25/32	23/32	310	•
3/4	AN850812B	1 1/8	9/16	13/16	3/4	450	•
13/16	AN850813B	1 7/32	5/8	7/8	3/4	450	•
7/8	AN850814B	1 5/16	23/32	15/16	25/32	625	•
15/16	AN850815B	1 3/8	3/4	31/32	25/32	625	•
1	AN850816B	1 7/16	3/4	1	13/16	625	•
1 1/16	AN850817B	1 17/32	25/32	1 1/32	13/16	625	•

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Set shown includes storage tray



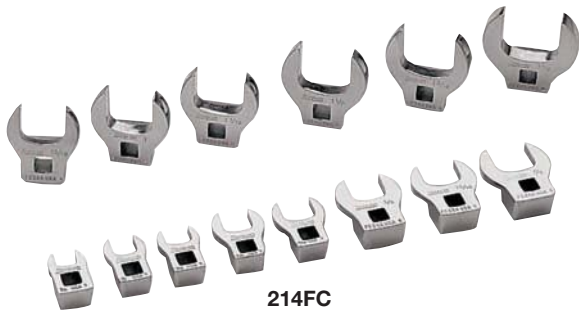
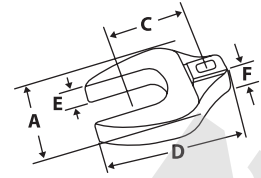
WARNING



- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages 594 to 597

WRENCHES

3/8" Drive Crowfoot Wrenches



Open End, inches

Set Contains:

242FC 226FC 214FC 211GFCO 211FCOA

			A	C	E	F	D	Maximum Recommended Working Torque, in. lb.	Set Contains:				
3/8	FC012A	GFC012A	7/8	23/32	7/32	33/64	1 19/64	75					
7/16	FC014A	GFC014A	7/8	41/64	7/32	33/64	1 17/64	75	•	•	•	•	•
1/2	FC016A	GFC016A	1 1/32	51/64	7/32	33/64	1 29/64	105	•	•	•	•	•
9/16	FC018A	GFC018A	1 1/4	59/64	7/32	33/64	1 5/8	105	•	•	•	•	•
5/8	FC020A	GFC020A	1 1/4	55/64	7/32	33/64	1 19/32	125	•	•	•	•	•
11/16	FC022A	GFC022A	1 9/16	1 3/32	7/32	33/64	1 59/64	150	•	•	•	•	•
3/4	FC024A	GFC024A	1 9/16	1 1/32	7/32	33/64	1 57/64	190	•	•	•	•	•
13/16	FC026A	GFC026A	1 23/32	1 3/32	9/32	19/32	2	245	•	•	•	•	•
7/8	FC028A	GFC028A	1 23/32	1 1/32	9/32	19/32	1 31/32	300	•	•	•	•	•
15/16	FC030A	GFC030A	2	1 5/32	11/32	21/32	2 1/8	360	•	•	•	•	•
1	FC032A	GFC032A	2	1 5/64	11/32	21/32	2 3/32	420	•	•	•	•	•
1 1/16	FC34B		1 23/32	1 3/64	3/8	39/64		465	•	•	•		
1 1/8	FC36A		1 29/32	1 5/32	3/8	39/64		510	•	•	•		
1 3/16	FC38A		1 29/32	1 13/64	3/8	39/64		510	•	•	•		
1 1/4	FC40A		2 5/32	1 15/64	3/8	41/64		555	•	•	•		
1 5/16	FC42A		2 5/32	1 17/64	3/8	41/64		600	•	•			
1 3/8	FC44A		2 3/8	1 19/64	3/8	41/64		680	•	•			
1 7/16	FC46A		2 3/8	1 11/32	3/8	41/64		760	•	•			
1 1/2	FC48A		2 17/32	1 3/8	3/8	41/64		795	•	•			
1 9/16	FC50A		2 17/32	1 13/32	3/8	41/64		795	•	•			
1 5/8	FC52A		2 21/32	1 29/64	3/8	41/64		820	•	•			
1 11/16	FC54A		2 21/32	1 31/64	3/8	41/64		860	•	•			
1 3/4	FC56A		2 7/8	1 33/64	3/8	41/64		910	•	•			
1 13/16	FC58A		2 7/8	1 35/64	3/8	41/64		960	•	•			
1 7/8	FC60A		3 5/32	1 19/32	3/8	41/64		1040	•	•			
1 15/16	FC62A		3 5/32	1 5/8	3/8	41/64		1040	•	•			
2	FC64A		3 13/32	1 23/32	1/2	45/64		1115	•	•			
2 1/16	FC66A		3 13/32	1 3/4	1/2	45/64		1190	•				
2 1/8	FC68A		3 19/32	1 25/32	1/2	45/64		1190	•				
2 3/16	FC70A		3 19/32	1 53/64	1/2	45/64		1275	•				
2 1/4	FC72A		3 27/32	1 15/16	1/2	45/64		1370	•				
2 5/16	FC74A		3 27/32	1 15/16	1/2	45/64		1370	•				
2 3/8	FC76A		4 3/32	2 1/16	1/2	45/64		1450	•				
2 7/16	FC78A		4 3/32	2 1/8	1/2	45/64		1555	•				
2 1/2	FC80A		4 9/32	2 11/64	1/2	45/64		1555	•				
2 9/16	FC82A		4 9/32	2 11/64	1/2	45/64		1660	•				
2 5/8	FC84A		4 17/32	2 21/64	1/2	45/64		1760	•				
2 11/16	FC86A		4 17/32	2 3/8	1/2	45/64		1760	•				
2 3/4	FC88A		4 23/32	2 7/16	1/2	45/64		1900	•				
2 13/16	FC90A		4 23/32	2 17/32	1/2	45/64		2075	•				
2 7/8	FC92A		5 3/32	2 41/64	1/2	45/64		2075	•				
2 15/16	FC94A		5 3/32	2 43/64	1/2	45/64		2200	•				
3	FC96A		5 3/32	2 23/32	1/2	45/64		2200	•				

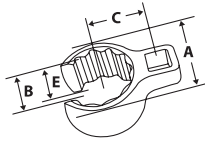
ASME/ANSI B107.100

WRENCHES

3/8" - 1/2" Drive Crowfoot Wrenches



315AN



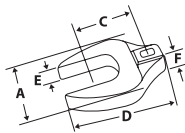
1/2" Flank Drive® Flare Nut-Deep, inches, 12-Point

Set Contains: 315AN

12	12	A	B	C	E	Maximum Recommended Working Torque, in. lb.	12
1 1/8	AN850818B	1 5/8	27/32	1 5/32	7/8	825	•
1 3/16	AN850819B	1 11/16	29/32	1 3/16	7/8	825	•
1 1/4	AN850820B	1 25/32	15/16	1 7/32	7/8	825	•
1 5/16	AN850821B	1 27/32	31/32	1 1/4	7/8	900	•
1 3/8	AN850822B	1 15/16	1 1/16	1 5/16	15/16	900	•
1 7/16	AN850823B	2	1 1/16	1 11/32	15/16	900	•
1 1/2	AN850824B	2 3/32	1 1/8	1 3/8	15/16	900	•
1 9/16	AN850825B	2 5/32	1 5/32	1 13/32	15/16	900	•
1 5/8	AN850826B	2 7/32	1 7/32	1 7/16	15/16	1,100	•
1 11/16	AN850827B	2 5/16	1 5/16	1 1/2	1 1/32	1,100	•
1 3/4	AN850828B	2 3/8	1 5/16	1 9/16	1 1/32	1,150	•
1 13/16	AN850829B	2 15/32	1 11/32	1 19/32	1 1/32	1,200	•
1 7/8	AN850830B	2 9/16	1 3/8	1 21/32	1 1/16	1,200	•
1 15/16	AN850831B	2 5/8	1 7/16	1 11/16	1 1/16	1,200	•
2	AN850832B	2 23/32	1 9/16	1 23/32	1 1/16	1,400	•
2 1/8	AN850834B	2 7/8	1 9/16	1 13/16	1 1/8	1,450	•
2 3/16	AN850835B	2 15/16	1 21/32	1 27/32	1 1/8	1,500	•
2 1/4	AN850836B	3 1/32	1 11/16	1 7/8	1 1/8	1,500	•
2 3/8	AN850838B	3 3/16	1 13/16	1 31/32	1 3/16	1,600	•
2 7/16	AN850839B	3 1/4	1 13/16	2	1 3/16	1,650	•
2 9/16	AN850841B	3 7/16	1 29/32	2 3/32	1 9/32	1,750	•
2 5/8	AN850842B	3 1/2	2 1/16	2 1/8	1 9/32	1,800	•
2 11/16	AN850843B	3 19/32	2 1/16	2 5/32	1 9/32	1,800	•
2 3/4	AN850844B	3 21/32	2 1/16	2 7/32	1 9/32	1,850	•
3 1/8	AN850850B	4 1/8	2 5/16	2 7/16	1 5/16	2,000	•

ASME/ANSI B107.100

Set shown includes storage tray



314SCO

Set Contains: 314SCO

1/2" Open End, inches

12	12	A	C	E	F	Maximum Recommended Working Torque, in. lb.	12
1 1/16	SC034	2 3/32	1 3/4	3/8	5/8	2,000	•
1 1/8	SC036	2 7/32	1 3/4	3/8	5/8	2,100	•
1 3/16	SC038	2 11/32	1 3/4	13/32	5/8	2,200	•
1 1/4	SC040	2 15/32	2	13/32	5/8	2,300	•
1 5/16	SC042	2 19/32	2	7/16	5/8	2,400	•
1 3/8	SC044	2 23/32	2	7/16	5/8	2,500	•
1 7/16	SC046	2 27/32	2	7/16	5/8	2,600	•
1 1/2	SC048	2 31/32	2	15/32	5/8	2,900	•
1 5/8	SC052	3 7/32	1 31/32	1/2	5/8	3,400	•
1 11/16	SC054	3 11/32	2 3/16	1/2	5/8	3,700	•
1 3/4	SC056	3 15/32	2 3/16	17/32	5/8	3,900	•
1 13/16	SC058	3 19/32	2 3/16	17/32	5/8	4,100	•
1 7/8	SC060	3 23/32	2 3/16	9/16	5/8	4,300	•
2	SC064	3 31/32	2 7/32	9/16	5/8	5,000	•

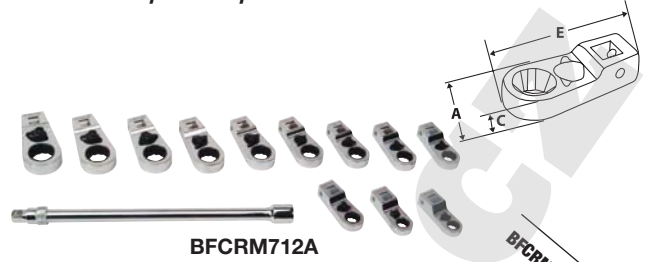
Set shown includes storage tray



WARNING



- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages 594 to 597



BFCRM712A

BFCRM712A*

3/8" Ratcheting, mm

Set Contains: BFCRM712A*

mm	12	A	C	E	12
8	BFCRM8A	17.8	6.5	49.3	•
9	BFCRM9A	19.5	7.4	50.8	•
10	BFCRM10A	21.5	8.0	53.8	•
11	BFCRM11A	22.0	8.5	53.8	•
12	BFCRM12A	23.5	9.0	57.2	•
13	BFCRM13A	25.0	10.0	57.2	•
14	BFCRM14A	27.0	10.0	60.3	•
15	BFCRM15A	28.5	11.0	63.5	•
16	BFCRM16A	30.5	11.0	66.7	•
17	BFCRM17A	34.5	12.0	68.3	•
18	BFCRM18A	36.5	12.0	71.4	•
19	BFCRM19A	36.5	12.9	73.0	•

*Set includes FXLBP10 -10" locking extension

Set shown includes storage tray



BFCR708A

BFCR708A*

3/8" Ratcheting, inches

Set Contains: BFCR708A*

12	12	A	C	E	12
5/16	BFCR10A	11/16	1/4	2	•
3/8	BFCR12A	27/32	5/16	2 1/8	•
7/16	BFCR14A	7/8	11/32	2 1/8	•
1/2	BFCR16A	31/32	13/32	2 1/4	•
9/16	BFCR18A	1 1/16	13/32	2 3/8	•
5/8	BFCR20A	1 3/16	7/16	2 5/8	•
11/16	BFCR22A	1 1/4	15/32	2 5/8	•
3/4	BFCR24A	1 7/16	1/2	2 7/8	•

*Set includes FXLBP10 -10" locking extension

Set shown includes storage tray



A277



ADCF8

Crowfoot Wrench Holder

A277 3/8" Crowfoot Holder.

- Organize and store your crowfoot wrenches
- 2 piece design snaps apart for access to desired size
- 8 3/4" long

ADCF8 Adjustable Crowfoot Wrench.

- Metric and fractional scales
- Opening range from 0 to 1.14" (0 to 29mm)
- Lateral side nut designed to work on difficult access fasteners and minimize dirt accumulation

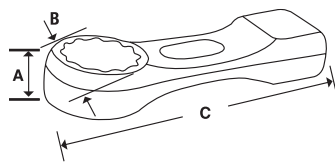
Stock No.	Drive Size	Maximum Recommended Working Torque, in. lb.
ADCF8	3/8	2,849

WRENCHES



Heavy Duty Striking Wrenches



DX158A



Flank Drive® Straight Handle Sledge Hammer, inches, 12-Point

		A	B	C
1 3/16	DX138A	7/8	2 3/32	7 35/64
1 1/4	DX140A	7/8	2 3/32	7 35/64
1 5/16	DX142A	7/8	2 3/32	7 35/64
1 3/8	DX144A	61/64	2 17/64	7 41/64
1 7/16	DX146A	61/64	2 17/64	7 41/64
1 1/2	DX148A	61/64	1 17/64	7 41/64
1 5/8	DX152A	1 9/64	2 5/8	7 53/64
1 11/16	DX154A	1 9/64	2 5/8	7 53/64
1 3/4	DX156A	1 7/32	2 13/16	7 29/32
1 13/16	DX158A	1 7/32	2 13/16	7 29/32
1 7/8	DX160A	1 7/32	2 13/16	7 29/32
2	DX164A	1 13/32	3 11/64	11 19/32
2 1/16	DX166A	1 13/32	3 11/64	11 19/32
2 3/16	DX170A	1 17/32	3 29/64	11 47/64
2 1/4	DX172A	1 17/32	3 29/64	11 47/64
2 3/8	DX176A	1 21/32	3 23/32	11 55/64
2 7/16	DX178A	1 21/32	3 23/32	11 55/64
2 1/2	DX180A	1 21/32	3 23/32	11 55/64
2 9/16	DX182A	1 51/64	3 63/64	13
2 5/8	DX184A	1 51/64	3 63/64	13
2 3/4	DX188A	1 59/64	4 17/64	14 17/64
2 13/16	DX190A	1 59/64	4 17/64	14 17/64
2 15/16	DX194A	2 3/64	4 17/32	14 13/32
3	DX196A	2 3/64	4 17/32	14 13/32
3 1/8	DX1100A	2 17/64	4 29/32	17 37/64
3 3/8	DX1108A	2 17/64	4 29/32	17 37/64
3 1/2	DX1112A	2 29/64	5 19/64	17 51/64
3 3/4	DX1120A	2 21/32	5 17/32	17 51/64
3 7/8	DX1124A	2 21/32	5 17/32	17 51/64
4 1/8	DX1132A	2 59/64	6 1/32	18 9/64
4 1/4	DX1136A	2 59/64	6 1/32	18 9/64
4 1/2	DX1144A	3 5/32	6 25/32	20 1/64
4 5/8	DX1148A	3 5/32	6 25/32	20 1/64


Combination T and L-Shape Wrenches



AWSGM800

Set Contains:
AWSGM800

Hex, mm

	Blue Handle	T-Length, mm	Length, mm	
2	AWSGM2	95	152	•
2.5	AWSGM2.5	95	152	•
3	AWSGM3	98	152	•
4	AWSGM4	98	187	•
5	AWSGM5	117	187	•
6	AWSGM6	117	246	•
8	AWSGM8	117	246	•
10	AWSGM10	124	248	•


Set shown includes storage tray



AWSG800

Set Contains:
AWSG800

Hex, inches

	Red Handle	T-Length, inches	Length, inches	
3/32	AWSG06	3 7/8	6	•
7/64	AWSG07	3 7/8	6	•
1/8	AWSG08	3 7/8	6	•
9/64	AWSG09	3 7/8	6	•
5/32	AWSG10	3 7/8	7 3/8	•
3/16	AWSG12	4 3/4	7 3/4	•
7/32	AWSG14	4 3/4	7 3/4	•
1/4	AWSG16	4 3/4	9 5/8	•
5/16	AWSG20	4 3/4	9 5/8	•
3/8	AWSG24	4 3/4	9 5/8	•

Sets shown include storage tray

- Ergonomic, soft grip handle provides comfort during repetitive tasks
- Delivers superior turning power
- Allows maximum pressure to be applied when loosening difficult fasteners with both T and L applications
- Blades constructed from high-strength steel and hardened for durability

- Blade tips are black oxide coated to prevent chipping and to help maintain a secure fastener engagement
- Short blade provides maximum torque for tight quarters
- Long blade promotes quick fastener turning in difficult access situations
- Hole in handle for hanging tool or tether
- Color coded handles identify tool configuration at a glance

WRENCHES

Combination T and L-Shape Wrenches



AWBSGM800

Ball Hex, mm

Set Contains: **AWBSGM800**

mm	Blue Handle	T-Length, mm	Length, mm	
2	AWBSGM2	95	152	•
2.5	AWBSGM2.5	95	152	•
3	AWBSGM3	98	152	•
4	AWBSGM4	98	187	•
5	AWBSGM5	117	187	•
6	AWBSGM6	117	246	•
8	AWBSGM8	117	246	•
10	AWBSGM10	124	248	•

Set shown includes storage tray



AWBSG800

Ball Hex, inches

Set Contains: **AWBSG800**

#	Red Handle	T-Length, inches	Length, inches	
3/32	AWBSG06	3 7/8	6	•
7/64	AWBSG07	3 7/8	6	•
1/8	AWBSG08	3 7/8	6	•
9/64	AWBSG09	3 7/8	6	•
5/32	AWBSG10	3 7/8	7 3/8	•
3/16	AWBSG12	4 3/4	7 3/4	•
7/32	AWBSG14	4 3/4	7 3/4	•
1/4	AWBSG16	4 3/4	9 5/8	•
5/16	AWBSG20	4 3/4	9 5/8	•
3/8	AWBSG24	4 3/4	9 5/8	•

Set shown includes storage tray

Torx®

Set Contains: **AWSGT800**

#	Green Handle	T-Length, inches	Length, inches	
T6	AWSGT6	3 7/8	6	
T7	AWSGT7	3 7/8	6	
T8	AWSGT8	3 7/8	6	
T9	AWSGT9	3 7/8	6	
T10	AWSGT10	3 7/8	6	•
T15	AWSGT15	3 7/8	7 3/8	•
T20	AWSGT20	3 7/8	7 3/8	•
T25	AWSGT25	4 3/4	7 5/8	•
T27	AWSGT27	4 3/4	7 5/8	•
T30	AWSGT30	4 3/4	9 5/8	•
T40	AWSGT40	4 3/4	9 5/8	•
T45	AWSGT45	4 3/4	9 3/4	•
T50	AWSGT50	4 3/4	9 3/4	•

Set shown includes storage tray



AWSGT800

Torx Special Application

- Extra long T20 Tamper Proof Torx
- Access Mercedes mirrors
- Short end also T20 Tamper resistant Torx for tight quarters

AWSGTRP20

#	Green Handle	T-Length, inches	Length, inches
T20	AWSGTRP20	3 7/8	10 1/2

T-Shape



AWBMCG1600

Ball Hex, mm

Set Contains: **AWBMCG1600**

mm	Stock No.	Handle	Length, inches	
2	AWBMCG1602	Blue	9	•
2.5	AWBMCG16025	Blue	9	•
3	AWBMCG1603	Blue	9	•
4	AWBMCG1604	Blue	9	•
5	AWBMCG1605	Blue	9	•
6	AWBMCG1606	Blue	9	•
8	AWBMCG1608	Blue	9	•
10	AWBMCG1610	Blue	9	•

Set shown includes storage tray



AWBCG1600

Ball Hex, inches

Set Contains: **AWBCG1600**

#	Stock No.	Handle	Length, inches	
3/32	AWBCG1606	Red	9	•
7/64	AWBCG1607	Red	9	•
1/8	AWBCG1608	Red	9	•
9/64	AWBCG1609	Red	9	•
5/32	AWBCG1610	Red	9	•
3/16	AWBCG1612	Red	9	•
7/32	AWBCG1614	Red	9	•
1/4	AWBCG1616	Red	9	•
5/16	AWBCG1620	Red	9	•
3/8	AWBCG1624	Red	9	•

Set shown includes storage tray



WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

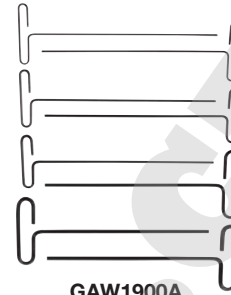
T-Shape



AWMCG1600B



AWCG1600B



GAW1900A

Hex, mm

Set Contains:

AWMCG1600B

mm	Stock No.	Handle	Length, mm	
2	AWMCG1602B	Blue	152.4	•
2.5	AWMCG16025B	Blue	152.4	•
3	AWMCG1603B	Blue	152.4	•
4	AWMCG1604B	Blue	152.4	•
5	AWMCG1605B	Blue	152.4	•
6	AWMCG1606B	Blue	152.4	•
8	AWMCG1608B	Blue	152.4	•
10	AWMCG1610B	Blue	152.4	•

Set shown includes storage tray

Hex, inches

Set Contains:

GAW1900A

AWCG1600B

#	Standard Handle 9" Length	Red Handle 6" Length		
3/32	GAW1906	AWCG1606B	•	•
7/64	GAW1907	AWCG1607B	•	•
1/8	GAW1908	AWCG1608B	•	•
9/64	GAW1909	AWCG1609B	•	•
5/32	GAW1910	AWCG1610B	•	•
3/16	GAW1912	AWCG1612B	•	•
7/32	GAW1914	AWCG1614B	•	•
1/4	GAW1916	AWCG1616B	•	•
5/16	GAW1920	AWCG1620B		
3/8	GAW1924	AWCG1624B		

Sets shown include storage tray



AWMCGR1608

Tamper Resistant, mm

AWMCGR1608 Metric T-Shape Hex Wrench.

- Yamaha Rhino doors and aftermarket license plate holders with 8mm tamper proof hex security fasteners
- Permits maximum pressure application when loosening difficult fasteners

Torx®

AWCGT500

Set Contains:

AWCGT500

#	Green Handle 6" Length	
7	AWCGT7	
T8	AWCGT8	•
T10	AWCGT10	•
T15	AWCGT15	•
T20	AWCGT20	•
T25	AWCGT25	•
T30	AWCGT30	
T40	AWCGT40	
T45	AWCGT45	

Sets shown include storage tray

Wrench Stands

AWSTAND Wrench Stand.

- Mounting holes on top and bottom of stand provide many mounting locations
- Another AWSTAND can be added for increased storage options
- Stands can mount to a Slots-N-Dots Plus™ personal work center or lie flat on top of tool box
- Stand holds the following wrench styles:
 - L or T-shaped fractional hex 1/16" to 3/8"
 - L or T-shaped metric hex 2 to 10mm
 - L or T-shaped Torx® T6 to T50
 - Metric or Torx on one stand
 - Fractional and metric on one stand
 - Metric and fractional ball wrenches



AWSTAND
Tools not included
with AWSTAND

WRENCHES

Folding Sets/L-Shape



Hex, mm

AWMEF8K

AWMEF6K

mm	AWMEF7K	AWMEF8K	AWMEF6K
1.5	45.7		
2	50.8	50.8	
2.5	55.9	55.9	
3	61.0	61.0	83.8
4	66.0	66.0	88.9
5	78.7	78.7	96.5
6	83.8	96.5	101.6
7		106.7	
8		121.9	121.9
10			129.5

Unique Screw Holding Tip*

Holds fastener to tool for delicate installations

* AWBPH13, AWMBPH9, AWTPH8 only



BHM9A

AWMBPH9

BHS13A

BHS7A

Ball Hex Sets

Industrial Finish L-Shaped Ball Hex Wrench Sets:

Ball hex allows up to 25° angle entry. Made from high torque steel.

Metric Sets:

BHM9A Metric Ball Hex Set. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm sizes (9 pcs) (1.5 to 10mm) in plastic index.

AWMBPH9 Metric Ball Hex Set. Screw holding tip holds fastener to tool for delicate installations. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm sizes (9 pcs) (1.5 to 10mm) in plastic index.

AWMBS9 Metric Stubby Ball Hex Set. Stubby length for access in tight quarters. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm sizes (9 pcs) (1.5 to 10mm) in plastic index.

Standard Sets:

BHS7A Ball Hex Set. Set includes 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" and 3/16" sizes (7 pcs) (5/64" to 3/16") in plastic index.

BHS13A Ball Hex Set. Set includes 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8" sizes (13 pcs) (.050" to 3/8") in plastic index.

AWBPH13 Ball Hex Set. Screw holding tip holds fastener to tool for delicate installations. Set includes 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8" sizes (13 pcs) (.050" to 3/8") in plastic index.

AWBS13 Stubby Ball Hex Set. Stubby length for access to tight quarters. Set includes 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8" sizes (13 pcs) (.050" to 3/8") in plastic index.



AWEF6K

AWEF9K

Hex, inches

Hex	AWEF6K
5/32	2.7
3/16	3.3
7/32	3.5
1/4	3.7
5/16	4.8
3/8	5.1

Hex	AWEF9K
.050	1.8
1/16	1.9
5/64	2.0
3/32	2.1
7/64	2.3
1/8	2.4
9/64	2.6
5/32	2.7
3/16	2.9

AWCPEF16K

Combination Set.

Set includes AWEF9K hex set and AWMEF7K metric hex set.



AWEFBH9K

AWTEF8K

Ball Hex inches

Hex	AWEFBH6K
5/64	2.0
3/32	2.1
7/64	2.3
1/8	2.4
9/64	2.6
5/32	2.7
3/16	2.9
7/32	3.5
1/4	3.7

Torx®

#	AWTEF8K
T8	2.4
T10	2.7
T15	3.0
T20	3.2
T25	3.4
T27	3.5
T30	3.7
T40	3.9



AWHD8K

Combination

AWHD8K Hex/Torx Set.

Includes two Torx sizes (T27, T40) and six hex sizes (5/32", 3/16", 7/32", 1/4", 5/16" and 3/8"). Fits a wide range of Harley-Davidson® motorcycles.



WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

L-Shaped



AWM140DK



AWM110DHK



AW1020DK



AW1015DK



AW1013DK



AW1015DHK

AW1015DK



Hex, mm

Set Contains:

AWM140DK

AWM110DK

AWM100DK

	Stock No.	mm	A				
Standard Length	AWM2D	2	47.7	•	•	•	
	AWM2-1/2D	2.5	52.0	•	•	•	
	AWM3D	3	58.6	•	•	•	
	AWM4D	4	65.6	•	•	•	
	AWM5D	5	75.6	•	•	•	
	AWM6D	6	82.2	•	•	•	
	AWM7D	7	92.4	•	•	•	
	AWM8D	8	99.2	•	•	•	
	AWM9D	9	105.1	•	•	•	
	AWM10D	10	111.4	•	•	•	
	AWM12D	12	139.3	•	•	•	
	AWM14D	14	138.8	•			
	AWM17D	17	167.2	•			
AWM19D	19	193.6	•				
Long	AWML1.5D	1.5	77.7				
	AWML2D	2	83.0				
	AWML2.5D	2.5	89.9				
	AWML3D	3	100.0				
	AWML4D	4	107.0				
	AWML5D	5	118.5				
	AWML6D	6	141.0				
	AWML8D	8	161.5				
	AWML10D	10	172.0				
	AWML12D	12	193.6				
	Kit Bag				C1209	C15B	
	Metal Index						BHK11



Hex, Standard Length, inches

Set Contains:

AW1020DK

AW1015DK

AW1013DK

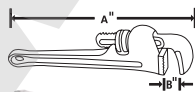
AW1015DHK

Stock No.		A				
AW028D	0.028	1 1/4	•	•		•
AW035D	0.035	1 5/16	•	•		•
AW050D	0.050	1 3/4	•	•	•	•
AW2D	1/16	1 3/4	•	•	•	•
AW2-1/2D	5/64	1 7/8	•	•	•	•
AW3D	3/32	2	•	•	•	•
AW3-1/2D	7/64	2 1/8	•	•	•	•
AW4D	1/8	2 1/4	•	•	•	•
AW4-1/2D	9/64	2 3/8	•	•	•	•
AW5D	5/32	2 1/2	•	•	•	•
AW6D	3/16	2 3/4	•	•	•	•
AW7D	7/32	3	•	•	•	•
AW8D	1/4	3 1/4	•	•	•	•
AW10D	5/16	3 3/4	•	•	•	•
AW12D	3/8	4 1/4	•	•	•	•
AW14D	7/16	4 3/4	•			
AW18D	9/16	5 3/4	•			
AW20D	5/8	6 1/4	•			
AW24D	3/4	7 1/4	•			
Kit Bag				C1209	C154	C1102
Metal Index						BHK15

Pipe Wrenches



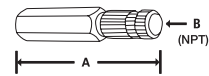
PW10C



PWA10A



PWN16B



External Pipe Wrenches

Stock No.	Aluminum Handle	A	B
PW6C		6	3/4
PW8C		8	1
PW10C	PWA10A	10	1 1/2
PW12C		12	2
PW14C	PWA14A	14	2
PW18C	PWA18A	18	2 1/2
PW24C	PWA24A	24	3
PW36C	PWA36A	36	5
	PWA48A	48	6

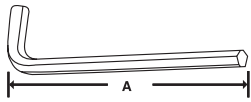
Internal Pipe Wrenches

Set Contains:

PWN904B

Stock No.	A	B	
PWN12B	3 3/4	3/8	•
PWN16B	3 3/4	1/2	•
PWN24B	3 3/4	3/4	•
PWN32B	3 3/4	1	•

WRENCHES



L-Shaped



AWL1010DHK

Hex, Long, inches

Stock No.	$\frac{11}{16}$	A	Set Contains:	
AWL3D	$\frac{3}{32}$	$3 \frac{1}{8}$	•	•
AWL3-1/2D	$\frac{7}{64}$	$3 \frac{1}{2}$	•	•
AWL4D	$\frac{1}{8}$	$3 \frac{3}{4}$	•	•
AWL4-1/2D	$\frac{9}{64}$	4	•	•
AWL5D	$\frac{5}{32}$	$4 \frac{1}{8}$	•	•
AWL6D	$\frac{3}{16}$	$4 \frac{1}{2}$	•	•
AWL7D	$\frac{7}{32}$	$4 \frac{7}{8}$	•	•
AWL8D	$\frac{1}{4}$	$5 \frac{1}{4}$	•	•
AWL10D	$\frac{5}{16}$	6	•	•
AWL12D	$\frac{3}{8}$	$6 \frac{3}{4}$	•	•
AWL14D	$\frac{7}{16}$	$7 \frac{1}{2}$		
AWL16D	$\frac{1}{2}$	$8 \frac{1}{4}$		
AWL18D	$\frac{9}{16}$	9		
AWL20D	$\frac{5}{8}$	$9 \frac{3}{4}$		
Kit Bag			C15B	
Metal Index				BHK10



AWMG9

Hex/Gold Finish, mm

Stock No.	mm	Set Contains:	
AWMG9-1	1.5	•	
AWMG9-2	2	•	
AWMG9-3	2.5	•	
AWMG9-4	3	•	
AWMG9-5	4	•	
AWMG9-6	5	•	
AWMG9-7	6	•	
AWMG9-8	8	•	
AWMG9-9	10	•	



AWS13

Hex/Natural Finish, inches

Stock No.	$\frac{11}{16}$	Set Contains:	
AWS13-1	$\frac{1}{20}$	•	
AWS13-2	$\frac{1}{16}$	•	
AWS13-3	$\frac{5}{64}$	•	
AWS13-4	$\frac{3}{32}$	•	
AWS13-5	$\frac{7}{64}$	•	
AWS13-6	$\frac{1}{8}$	•	
AWS13-7	$\frac{9}{64}$	•	
AWS13-8	$\frac{5}{32}$	•	
AWS13-9	$\frac{3}{16}$	•	
AWS13-10	$\frac{7}{32}$	•	
AWS13-11	$\frac{1}{4}$	•	
AWS13-12	$\frac{5}{16}$	•	
AWS13-13	$\frac{3}{8}$	•	



AWT100KA

Torx®

Stock No.	#	A	B	Set Contains:	
AWT8A	T8	.137	$1 \frac{7}{8}$		
AWT9A	T9	.148	$1 \frac{7}{8}$		
AWT10A	T10	.162	2	•	
AWT15A	T15	.194	$2 \frac{1}{8}$	•	
AWT20A	T20	.228	$2 \frac{1}{4}$	•	
AWT25A	T25	.262	$2 \frac{3}{8}$	•	
AWT27A	T27	.295	$2 \frac{1}{2}$	•	
AWT30A	T30	.218	$2 \frac{3}{4}$	•	
AWT40A	T40	.262	3	•	
AWT45A	T45	.430	$3 \frac{5}{8}$	•	
AWT50A	T50	.348	$3 \frac{3}{4}$	•	
AWT55A	T55	.442	$4 \frac{1}{4}$	•	

Set shown includes storage tray

AWTPH8 Torx Set. Ball hex allows up to 25° angle entry. Screw holding tip holds fastener to tool for delicate installations. Set includes T9, T10, T15, T20, T25, T27, T30 and T40 sizes (8 pcs) (T9 to T40) in plastic index. Made from high torque steel.

Torx/Tamper Resistant

Stock No.	#	Set Contains:	
AWTR8-1	T9	•	
AWTR8-2	T10	•	
AWTR8-3	T15	•	
AWTR8-4	T20	•	
AWTR8-5	T25	•	
AWTR8-6	T27	•	
AWTR8-7	T30	•	
AWTR8-8	T40	•	



AWTPH8

AWTR8



MS1015KA

Multi-Spline

#	A	B	Set Contains:	
MS2A	4	.033	•	
MS3A	4	.048	•	
MS4A	6	.060	•	
MS5A	4	.069	•	
MS6A	4	.076	•	
MS7A	6	.072	•	
MS8A	6	.096	•	
MS10A	6	.110	•	
MS16A	6	.144	•	
MS20A	6	.183	•	
MS24A	6	.216	•	
MS28A	6	.251	•	
MS32A	6	.291	•	
MS40A	6	.372	•	
MS48A	6	.454	•	

Set includes C16 Kit Bag



WARNING



• Read safety precautions on pages 594 to 597

WRENCHES

Adjustable/Special Application



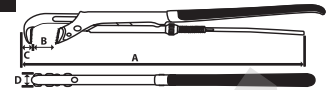
PWZ1

Pliers Wrench

- Inwardly angled teeth (fine teeth at back of jaw, larger teeth at front of jaw) for a stronger grip
- Quick adjustment of grip width
- Built-in guard against unthreading
- Soft, warm to the touch, high friction handle surfaces with a strong, stable core

Pliers Wrench

Stock No.	A	B	C	D	Weight, lbs.
PWZ0	8 3/16	1 1/2	5/16	9/16	1
PWZ1	12 5/8	1 3/4	1/2	3/4	1 5/8
PWZ2	17	2 1/2	5/8	13/16	2 1/2
PWZ3	21 1/2	3 1/2	3/4	1	6 3/8



Adjustable



Adjustable wrenches with serrated jaws feature our Flank Drive Plus wrenching system for more turning power from an adjustable wrench. Precision-made wrenches feature fractional and metric scales for size reference. Elastomer handle surface is soft, yet provides a non-slip gripping surface even for greasy and oily hands. Cushion handle insulates against cold temperatures.



FADH704A



ADHW8

Snap-on Wide Mouth Adjustable/Cushion Handle

- Opens larger than standard adjustable wrench
- Longer jaws and slimline design for greater reach
- Metric and fractional scales for quick observation
- Adjustable moving jaw will not fall out, even when at max opening
- Elastomer handle is soft, insulates against cold and provides a non-slip surface
- ADHW6 opens as wide as an 8" adjustable wrench: ADHW8 opens as wide as a 10" adjustable wrench

Stock No.	A inches (mm)	B inches (mm)
ADHW6	6 (152)	1 1/4 (32)
ADHW8	8 (203)	1 1/2 (38)

Sets shown include storage tray

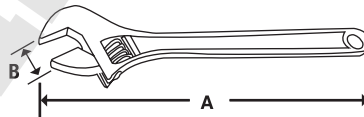
Snap-on® Flank Drive® Plus Adjustable/Cushion Handles

Set Contains:

FADH704A

Stock No.	A inches (mm)	B inches (mm)	
FADH6A	6 (152)	3/4 (19)	•
FADH8A	8 (203)	15/16 (24)	•
FADH10A	10 (254)	1 1/8 (29)	•
FADH12A	12 (304)	1 5/16 (33)	•

Set shown includes storage tray



Snap-on Adjustable Wrenches

- Opposing fractional and metric quick sizing scales are provided for convenience
- High strength steel alloy machined to exacting specs and precision heat treated for strength and durability
- Nickel-chromium plating and improved finish help protect against corrosion and speed clean up



AD704A

Set Contains:

AD704A

Stock No.	A inches (mm)	B inches (mm)	
AD6A	6 (155)	25/32 (20)	•
AD8A	8 (205)	1 1/16 (27)	•
AD10A	10 (255)	1 3/16 (30)	•
AD12A	12 (305)	1 11/32 (34)	•

Sets shown include storage tray

WRENCHES

Adjustable—Blue Point®

Adjustable Wrenches

Stock No.	Set Contains:			
	A inches (mm)	B inches (mm)		
GAJ4A	4 (108)	1/2 (13)		
GAJ6A	6 (160)	1 (25.4)		•
GAJ8A	8 (210)	1 1/8 (29)		•
GAJ10A	10 (260)	1 9/32 (33)		•
GAJ12A	12 (310)	1 1/2 (38)		•
GAJ15A	15 (385)	1 19/32 (43)	•	
GAJ18A	18 (450)	2 1/16 (52)	•	
GAJ24A	24 (610)	2 7/16 (62)	•	
GAJS30A*	30 (778)	3 11/32 (85)		

B107.8M-1996 Sets shown include storage tray
 *SAE and Metric Scales on fixed jaw indicate wrench opening. Fixed jaw and handle forged in one piece to ensure maximum strength. Wrench is balanced to minimize wrist stress. Hole at handle end for tether or hanging.



BLPADJ703



BLPADJ404



GAJS30A

Composite Handle Adjustable Wrench Sets

Stock No.	Set Contains:			
	A inches	B inches		
BADJC6	6 7/16	1		•
BADJC8	8 9/16	1 3/16		•
BADJC10	10 1/2	1 3/8		•

Set shown includes storage tray



BADJC703

Adjustable Wrenches/Soft Grip

Stock No.	Set Contains:			
	A inches (mm)	B inches (mm)		
GAJ6SG	6 (160)	1 (25.4)		•
GAJ8SG	8 (210)	1 1/8 (29)		•
GAJ10SG	10 (260)	1 9/32 (32.8)		•
GAJ12SG	12 (310)	1 1/2 (38)		•

Set shown includes storage tray



BLPADJ404SG

Aluminum (for AN Fittings)

Stock No.	Color	A inches (mm)	B inches (mm)
ANADJ8	Red	8 (203)	AN #10 (1")

- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications as well as for race and show cars
- Machined from aluminum billet to exacting tolerances and made from quality heat treated aluminum



ANADJ8



WARNING



• Read safety precautions on pages 594 to 597

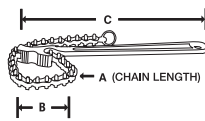
WRENCHES

Special Application



Chain Wrenches

Stock No.	A	B	C
CW12A	16	4	12
CW15A	19	5	15
CW24A	23	6	24



VGP18110 Locking Chain Wrench.

- Wraps around and holds irregular-shaped objects like oil filters and mufflers
- Chain capacity: up to 6 9/32" (160mm)
- Handle length: 9 27/32" (250mm)

VGP181101 Replacement Chain.

- Replacement chain for VGP18110



Strap Wrenches

BLPSTWR4 Strap Wrench.

- Adjusts to fit any circumference or irregular shape
- Won't scratch or damage surfaces
- Cushioned grip for maximum comfort
- Heavy duty construction for longer life
- 4" max diameter

BLPSTWR6 Strap Wrench.

- Same as BLPSTWR4 except features a 6" max diameter

BLPSTWRKT Strap Wrench Set.

- BLPSTWR4 and BLPSTWR6 (2 pcs)

YA826A Strap Wrench.

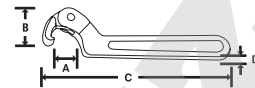
- For irregularly shaped objects 1" to 5" in diameter
- 22" long; 1" wide
- Urethane coated nylon strap has a tensile strength of 1,300 lbs
- 2" handle



Valve Persuader (Special order only.)

N6893B Valve Persuader Wrench.

- Persuader end provides extra leverage on valve wheels
- Hooks around valve stems and protrudes through spokes
- 15" long.



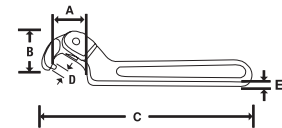
Adjustable Hook Spanners

- Services collars, rings, and bearings
- Single jaw and roll pin construction with industrial finish
- When using, make sure jaw hook is properly positioned

Set Contains: 304AHSK

Stock No.	A	B	C	D	
AHS300B	3/4-2	1/8	6 3/8	11/32	•
AHS301B	1 1/4-3	5/32	8 1/8	13/32	•
AHS304B	2-4 3/4	3/16	11 3/8	15/32	•
AHS307B	4 1/2-6 1/2	1/4	12 1/8	15/32	•

Set shown includes Kit bag



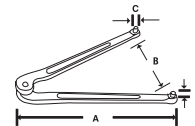
Adjustable Pin Spanners

- Removes rings, collars, and lock nuts
- When using, make sure jaw hook is properly aligned

Set Contains: 304APSK

Stock No.	A	B	C	D	E	
APS351B	3/4-2	1/8	6 3/8	1/8	11/32	•
APS357B	1 1/4-3	3/16	8 1/8	3/16	11/32	•
APS363B	2-4 3/4	1/4	11 3/8	1/4	15/32	•
APS366B	4 1/2-6 1/4	1/4	12 1/8	3/8	15/32	•

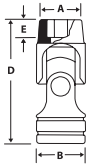
Set shown includes Kit bag



Adjustable Face Pin Spanners

For servicing seal and packing nuts on hydraulic cylinders.

Stock No.	A	B	C	D
AFS482B	6 3/8	2	3/16	5/32
AFS483B	8 1/4	3	1/4	3/16
AFS484B	10 3/8	4	5/16	1/4



HIGH PERFORMANCE/SPLINE

High Performance 1/4" Drive Flank Drive® Sockets

Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft.

Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8983. (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.

Universal, inches

		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

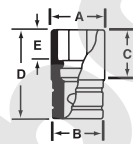


TDHU101A

1/4" Drive Spline Sockets



TES10



TESU10

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

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, 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

Deep, 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

3/8" Drive Spline Sockets



FES200

Shallow, inches

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



FELM10A

Deep, mm

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

Deep, inches

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



FEL200



WARNING



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

HIGH PERFORMANCE/SPLINE

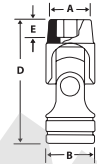
1/4" Drive Flank Drive® Sockets



FESU160



IMFES14



Shallow Universal, inches

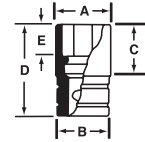
		Stock No.	A	B	D	E
#12	3/8	FESU120	35/64	3/4	1 31/32	23/64
#14	7/16	FESU140	5/8	3/4	2 3/64	7/16
#16	1/2	FESU160	23/32	3/4	2 5/64	29/64
#18	9/16	FESU180	53/64	3/4	2 1/8	15/32

SAE Spec. MA1547A

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



Shallow, inches

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

Set Contains: 300SES



SES181

3/4" and 1" Drive Spline Sockets



LES302



LES323

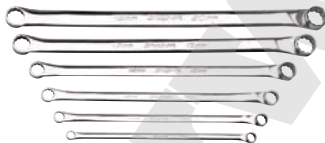
3/4" Drive Shallow, inches

		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 35/64	1 35/64	1 35/64	1 35/64
#36	1 1/8	LES362	1 5/8	1 1/2	1 3/16	2 3/16	15/16

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

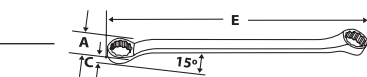
High Performance Flank Drive Wrenches



XDHM606



XDH605



GXDH1618A

Box, 15° Offset Heads, mm

Set Contains: XDHM606

mm	12	A	C	E	12
8-9	XDHM89	11.6-13.0	5.8-6.2	219.2	•
8-10	XDHM810	11.6-14.4	6.2-7.6	225.6	•
10-11	XDHM1011	14.4-15.6	7.6-8.5	246.3	•
10-12	XDHM1012	14.4-17.1	7.6-9.0	264.0	•
12-13	XDHM1213	17.1-18.7	9.0-9.0	277.6	•
12-14	XDHM1214	17.1-20.1	9.0-10.2	289.6	•
14-15	XDHM1415	20.1-21.5	9.8-10.9	313.1	•
14-17	XDHM1417	20.1-23.7	9.8-11.3	334.7	•
15-16	XDHM1516	21.5-22.6	10.9-0.9	334.8	•
17-19	XDHM1719	23.7-26.3	11.3-2.1	360.1	•
18-20	XDHM1820	24.9-27.3	12.1-3.6	384.0	•

Box, 15° Offset Heads, inches

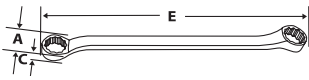
Set Contains: XDH605

	12	12	A	C	E	12
7/32 - 1/4	XDH78A	GXDH78A	11/32 - 3/8	13/64 - 15/64	7 15/64	
1/4 - 5/16	XDH810B	GXDH810B	3/8 - 29/64	1/4 - 1/4	8 3/64	•
5/16 - 3/8	XDH1012B	GXDH1012B	29/64 - 35/64	1/4 - 19/64	8 7/8	•
3/8 - 7/16	XDH1214A	GXDH1214A	35/64 - 5/8	19/64 - 11/32	9 11/16	•
7/16 - 1/2	XDH1416A	GXDH1416A	11/32 - 3/4	11/32 - 23/64	10 7/16	•
1/2 - 9/16	XDH1618A	GXDH1618A	23/32 - 13/16	23/64 - 13/32	11 7/16	•
5/8 - 3/4	XDH2024A		57/64 - 1 3/64	7/16 - 31/64	13 9/32	•
11/16 - 13/16	XDH2226A		63/64 - 1 9/64	31/64 - 17/32	15 5/32	•
25/32 - 7/8	XDH2528		1 5/64 - 1 13/64	35/64 - 37/64	16 5/64	•

Aerospace Spec. AS954E

HIGH PERFORMANCE/SPLINE

Flank Drive® Wrenches

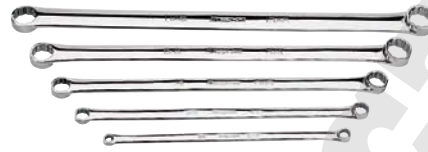


XDHFM606

Box, 0° Offset Heads, mm

Set Contains: XDHFM606

mm	12	A	C	E	12
6-7	XDHFM67	9.1-10.4	5.3-5.8	211.5	
8-9	XDHFM89	11.6-13.0	5.8-6.2	226.1	
8-10	XDHFM810	11.6-14.4	6.2-7.6	232.7	
10-11	XDHFM1011	14.4-15.6	7.6-8.5	253.7	•
10-12	XDHFM1012	14.4-17.1	8.5-9.0	272.2	
12-13	XDHFM1213	17.1-18.7	9.0-9.0	286.2	•
12-14	XDHFM1214	17.1-20.1	9.0-10.2	298.4	
13-14	XDHFM1314	18.7-20.1	9.0-9.7	299.2	
14-15	XDHFM1415	20.1-21.5	9.8-10.9	323.5	•
14-17	XDHFM1417	20.1-23.7	9.8-11.3	345.0	
15-16	XDHFM1516	21.5-22.6	10.9-9.9	347.5	•
17-19	XDHFM1719	23.8-26.3	11.3-2.1	372.1	•
18-20	XDHFM1820	25.0-27.3	12.1-3.6	395.7	•
21-22	XDHFM2122	28.8-30.6	13.7-4.6	421.2	•
22-24	XDHFM2224	30.6-33.1	14.0-4.9	445.2	•



XDHF605

Box, 0° Offset Heads, inches

Set Contains: XDHF605

mm	12	A	C	E	12
1/4 - 5/16	XDHF810	13/32 - 15/32	7/32 - 1/4	8 5/16	•
3/8 - 7/16	XDHF1214	17/32 - 5/8	5/16 - 11/32	10 1/16	•
1/2 - 9/16	XDHF1618	23/32 - 13/16	11/32 - 13/32	11 3/4	•
5/8 - 3/4	XDHF2024	7/8 - 1 1/32	7/16 - 15/32	13 5/8	•
11/16 - 13/16	XDHF2226	31/32 - 1 5/32	15/32 - 17/32	15 5/8	•



XDHSFM1214

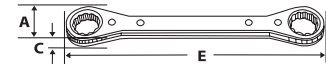
Box/Short Handle, 0° Offset Heads, mm

mm	12	A	C	E
8-10	XDHSFM810	12.1-14.9	6.2-7.6	162.9
10-12	XDHSFM1012	14.4-17.1	7.6-9.0	190.5
12-14	XDHSFM1214	17.1-20.1	8.5-10.2	208.8
17-19	XDHSFM1719	23.8-26.3	11.3-12.1	260.3

Spline Wrenches



OES18B



Combination/Short Handle, inches

mm	12	Stock No.	A	B	C	D	E
8	1/4	OES8B	13/32	17/32	1/8	5/32	4 1/2
#10	5/16	OES10B	15/32	21/32	11/64	15/64	4 55/64
#12	3/8	OES12B	17/32	25/32	13/64	17/64	5 7/32
#14	7/16	OES14B	5/8	29/32	15/64	5/16	5 27/64
#16	1/2	OES16B	23/32	1 1/16	1/4	5/16	5 47/64
#18	9/16	OES18B	13/16	1 3/16	17/64	21/64	6 1/32
#20	5/8	OES20B	7/8	1 5/16	9/32	11/32	6 5/16
#22	11/16	OES22B	31/32	1 7/16	19/64	23/64	6 39/64
#24	3/4	OES24B	1 1/16	1 9/16	5/16	3/8	6 29/32



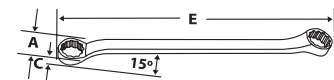
RES2630C

Ratcheting Box, inches

mm	12	Stock No.	A	C	E	12
8-#10	1/4-5/16	RES810C	9/16-5/8	11/32	4 11/16	16-18
#12-#14	3/8-7/16	RES1214C	3/4-7/8	11/32	6 5/32	20-22
#18-#20	9/16-5/8	RES1820C	1 1/8-1 1/4	13/32	7 27/32	20-22
#26-#30	13/16-15/16	RES2630C	1 1/2-1 9/16	7/16	9 25/32	22-22



XDES1618A



15° Offset Heads, inches

mm	12	Stock No.	A	C	E
7-#9	7/32-9/32	XDES79A	11/32-7/16	11/64-13/64	7 1/4
#8-#10	1/4-5/16	XDES810A	3/8-15/32	3/16-7/32	8 1/16
#12-#14	3/8-7/16	XDES1214A	35/64-41/64	5/16-11/32	9 3/4
#16-#18	1/2-9/16	XDES1618A	3/4-13/16	3/8-3/8	11 7/16
#18-#20	9/16-5/8	XDES1820A	13/16-57/64	25/64-13/32	12 3/8
#22-#24	11/16-3/4	XDES2224A	31/32-1 9/64	7/16-5/64	14 1/4
#26-#30	13/16-15/16	XDES2630A	1 5/32-1 5/16	1/2-9/16	16 3/16
#28-#32	7/8-1	XDES2832A	1 1/4-1 7/16	17/32-37/64	17



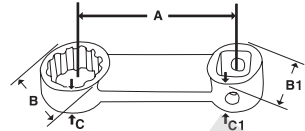
WARNING



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

HIGH PERFORMANCE/SPLINE

Spline Torque Adaptors



FRES10

3/8" Drive Spline, inches

#	Hex Size	Stock No.	A	B-B1	C-C1
7	7/32	FRES7	2	.375-.750	1/4 - 7/16
8	1/4	FRES8	2	.400-.750	1/4 - 7/16
9	9/32	FRES9	2	.445-.750	1/4 - 7/16
10	5/16	FRES10	2	.490-.750	1/4 - 7/16
12	3/8	FRES12	2	.590-.750	5/16 - 7/16
14	7/16	FRES14	2	.680-.750	5/16 - 7/16
16	1/2	FRES16	2	.745-.750	5/16 - 7/16
18	9/16	FRES18	2	.825-.750	3/8 - 7/16
20	5/8	FRES20	2	.895-.750	3/8 - 7/16
22	11/16	FRES22	2	.997-.750	1/2 - 7/16
24	3/4	FRES24	2	1.08-.750	9/16 - 7/16



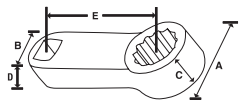
SRES30A

1/2" Drive Spline, inches

#	Hex Size	Stock No.	A	B-B1	C-C1	Set Contains:
#18	9/16	SRES18	3	.818-1.04	13/32 - 1/2	•
#20	5/8	SRES20	3	.900-1.04	1/2 - 1/2	•
#22	11/16	SRES22	3	.989-1.04	1/2 - 1/2	•
#24	3/4	SRES24	3	1.08-1.04	1/2 - 1/2	•
#26	13/16	SRES26	3	1.16-1.04	1/2 - 1/2	•
#28	7/8	SRES28	3	1.26-1.04	1/2 - 1/2	•
#30	15/16	SRES30A	3	1.26-1.04	37/64 - 37/64	•

Set Contains: SRES306

3/8" Drive Torque Adaptors, Non-Spline



FRDHM18



205FRDH

Flank Drive® Torque Adaptors, mm

mm	Hex Size	A	B	C	D	E
10	FRDHM10	17.1	18.8	7.8	11.1	50.8
13	FRDHM13	21.0	18.8	7.8	11.1	50.8
15	FRDHM15	25.1	18.8	7.8	11.1	50.8
18	FRDHM18	22.4	18.8	13.3	11.1	50.8

Flank Drive Torque Adaptors, inches

Hex Size	Hex Size	A	B	C	D	E	Hex Size
5/16	FRDH101	.475	.750	1/4	7/16	2	•
3/8	FRDH121	.570	.750	5/16	7/16	2	•
7/16	FRDH141	.655	.750	11/32	7/16	2	•
1/2	FRDH161	.740	.750	11/32	7/16	2	•
9/16	FRDH181	.825	.750	3/8	7/16	2	•

Set Contains: 205FRDH

*Conventional hex

Set shown includes storage tray