

ONE SAFE SOURCE

2006-2007
Parts Catalog



CATERPILLAR®

Caterpillar. The difference counts.™

The background of the advertisement is a grayscale photograph. It shows a computer monitor in the upper left, displaying a web-based interface with various fields and text. Below the monitor, on the left, is a telephone. In the lower center, a person's hand is shown clicking a computer mouse. A large, semi-transparent yellow banner with the word "SERVICE" in large, bold, white letters is overlaid across the middle of the image. The text "Open 24/7. On your desktop." is written in white, bold font across the center of this banner.

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Whether you are maintaining one machine or many, we provide the support that makes the difference that counts every day. Call us to learn more and get connected.

Caterpillar. The difference counts.™

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As your Cat® Dealer, we define world-class product support. We offer you the right parts and service solutions, when and where you need them.

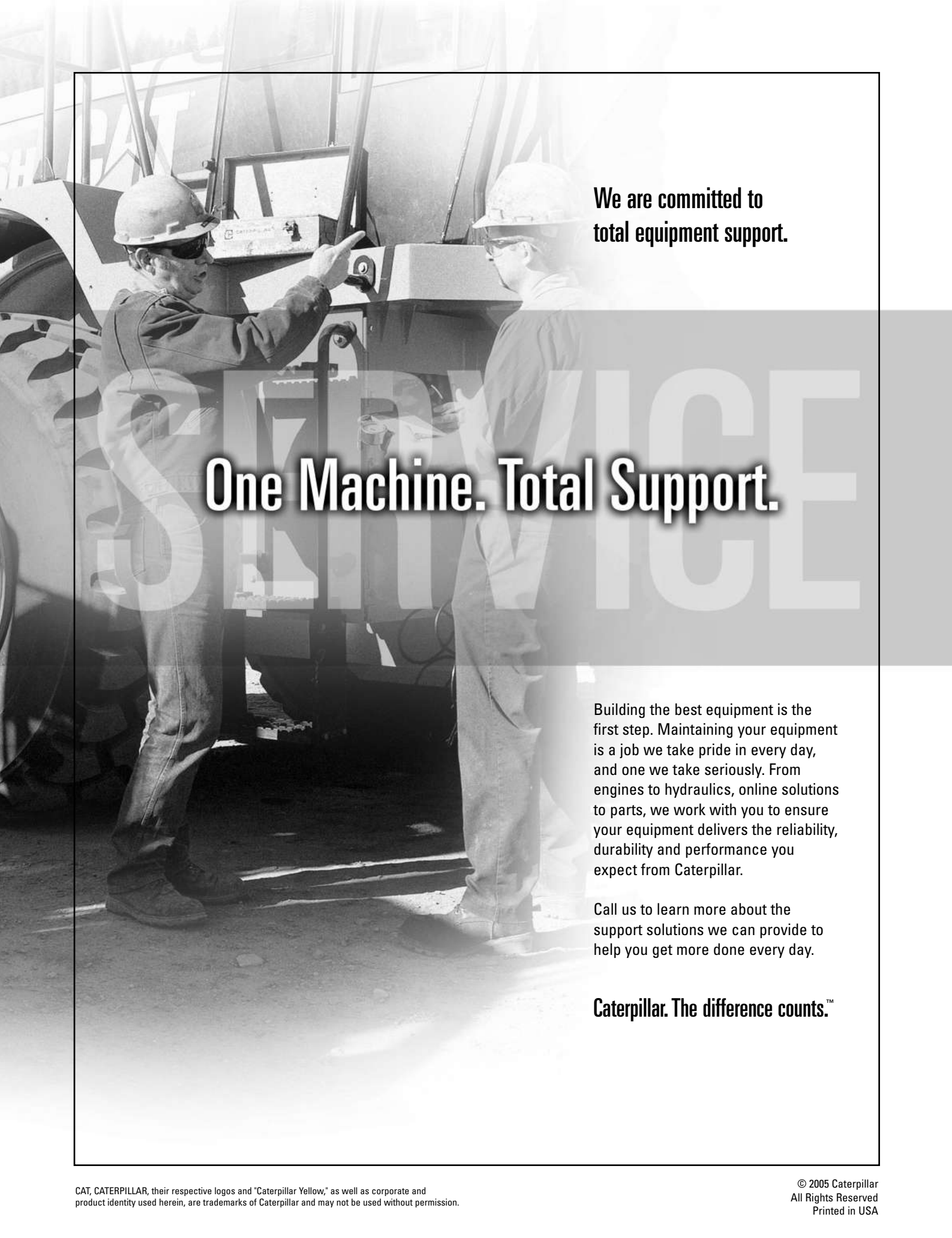
We are proud to offer you the thousands of Caterpillar® parts listed in this new edition of the *One Safe Source* catalog. You can count on genuine Cat parts to deliver top performance and long life, because they are built to high-quality, original equipment specifications.

We carry most parts listed in this catalog in stock for your immediate, off-the-shelf convenience. And thanks to Caterpillar's worldwide distribution system, we can deliver most other parts within 24 hours.

Our highly trained experts offer you comprehensive service options to keep your equipment up and running, maximizing your investment. Whether you are maintaining one machine or many, the support you get from us makes the difference that counts every day.

Part numbers and specifications are subject to change without notice. To ensure you receive the correct parts, please provide the model and serial numbers of the machines or engines on which they will be used.

Some of the products listed in this catalog are not available in certain parts of the world. Please check with us for more information.



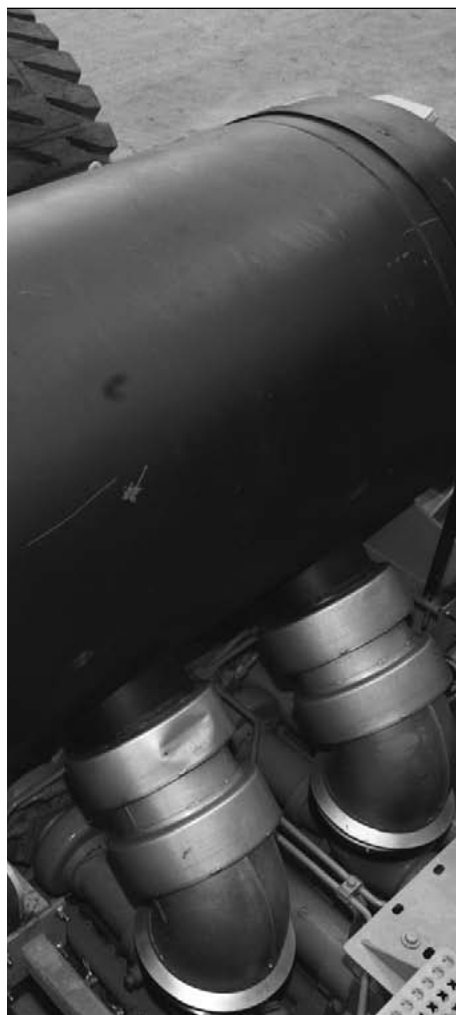
**We are committed to
total equipment support.**

One Machine. Total Support.

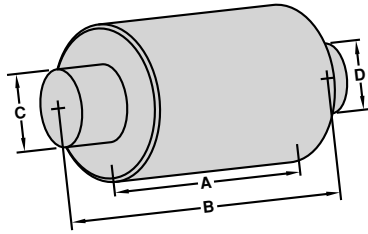
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Call us to learn more about the support solutions we can provide to help you get more done every day.

Caterpillar. The difference counts.™



Air Intake and Exhaust Systems



Mufflers

- Help reduce engine exhaust sound and aid in operator comfort.
- Are essential for machines working in enclosed areas.

A BODY LENGTH (in) (mm)		B OVERALL LENGTH (in) (mm)		C INLET DIAMETER (in) (mm)		D OUTLET DIAMETER (in) (mm)		PART NUMBER	ADDITIONAL PARTS
11.00	279.4	19	482.6	4	101.6	4	101.6	3B-6216	
11.00	279.4	19.1	485.1	3.5	88.9	3.5	88.9	5H-2656	
11.9	302.3	19.1	485.1	3	76.2	3	76.2	3B-6218	
12.19	309.6	17	431.8	3	76.2	3.13	79.4	3K-3124	
12.2	309.9	17.06	433.4	4.63	117.5	5.13	130.2	6N-0731	
13.00	330.2	22.25	565.2	4.031	102.39	4	101.6	112-5088	7E-3870 - clamp
13.11	333	19.46	494.22	1.374	34.9	1.374	34.9	150-3416	
13.25	336.6	22.25	565.2	4.03	102.4	4	101.6	7E-3683	
13.26	336.8	28.46	722.8	4.03	102.4	4	101.6	4Y-4951	
13.46	341.8	15.34	389.6	5	127	5.13	130.2	7W-6186	
13.46	341.8	15.31	389	5.038	127.97	5.15	130.81	116-0680	
14.00	355.6	22.05	560	5.13	130.2	4.13	104.8	8N-9463	
14.74	374.5	23.25	590.6	5.04	128	5	127	1W-9229	
15.00	381	23	584.2	Threaded		3	76.2	2N-1572	
15.09	383.4	17.5	444.5	3	76.2	2.63	66.7	7N-4674	
15.5	393.7	21	533.4	3	76.2	3.13	79.5	4P-0660	
15.75	400	17.91	455	1.791	45.5	1.654	42	175-6542	
16.25	412.7	26.62	676.2	4.03	102.4	4.14	105.2	112-3249*	
16.25	412.7	26.62	676.1	4.031	102.39	4.143	105.23	127-0308	
16.49	418.8	18.22	462.7	3	76.2	3.13	79.4	4W-7762	
16.69	424	18.21	462.6	3.664	93.07	4.143	105.23	7E-7984	
16.81	427	18.3	464.7	3.669	93.19	4.13	104.9	113-8510	
17.1	434.3	26.75	679.5	4.37	111.1	4.5	114.3	8S-2809	
17.1	434.3	31.25	793.8	4.37	111.1	4.5	114.2	7N-8117	
17.1	434.3	34.75	882.6	4.37	111.1	4.5	114.3	2P-5081	
17.12	434.8	23	584.2	4	101.6	5	127	1W-2572	
17.12	434.9	23	584.2	4	101.6	5	127	6N-3964	
17.38	441.5	22.32	567	3	76.2	3.13	79.4	7N-0061	
17.5	444.5	20.73	526.5	3.63	92.1	4.13	104.8	8N-5388	
17.63	447.8	22	558.8	5	127	5.12	130.1	8S-9473	2B-6296 (2) - stud
17.81	452.4	23.75	603.3	4.37	111.1	4.5	114.2	1P-0408	
17.81	452.4	26.75	679.5	4.37	111.1	4.5	114.3	7S-8443	
18.00	457.2	25.71	653.1	3.5	88.9	3.63	92.1	1W-4623	
18.1	459.7	26.14	663.9	5	127	5.19	131.8	7W-7439	
18.22	462.8	18.22	462.8	3	76.2	3.13	79.4	4P-4757	
18.22	462.8	26.62	676.2	4	101.6	4.13	104.8	4N-7870*	
18.31	465	55.12	1400	2.626	66.7	2.5	63.5	197-9717	

* Ejector is included with muffler.

Air Intake and Exhaust Systems

Mufflers

A BODY LENGTH (in) (mm)		B OVERALL LENGTH (in) (mm)		C INLET DIAMETER (in) (mm)		D OUTLET DIAMETER (in) (mm)		PART NUMBER	ADDITIONAL PARTS
18.31	465	61.18	1554	2.626	66.7	2.5	63.5	131-8259	
18.5	470	18.5	470	2.89	73.4	2.89	73.3	127-8592	
18.5	470	18.5	470	2.89	73.4	2.89	73.3	127-8594	
18.5	470	18.5	470	2.89	73.4	2.886	73.3	142-1576	
18.61	472.6	33.25	844.6	4.031	102.39	4.102	104.19	112-7670	7E-3870 - clamp
19.00	482.6	25.5	647.7	3.5	88.9	3.63	92.1	7C-7344	
19.00	482.6	25.5	647.7	4.03	102.4	4.14	105.2	9S-9328	
19.41	493	23.9	607	5.04	128	6.15	156.2	7N-1393	
19.44	493.7	26.89	683	5	127	5	127	7E-0853	
19.45	494	19.69	500	2.89	73.41	2.887	73.33	7W-5194	
19.65	499.1	26	660.4	5.038	127.96	6.19	157.23	200-3200	
19.69	500	19.69	500	2.87	73	2.87	73	9Y-0254	
19.69	500	21.65	550	3.177	80.7	3.177	80.7	8U-0801	
19.75	501.7	31.57	802	3.52	89.4	3.612	91.75	146-9733	9Y-8315 - clamp
19.9	505.5	24.67	626.5	4.57	116	5.15	130.8	7C-5851	
20.00	508	29.5	749.3	4	101.6	4.13	104.8	1W-1766	
20.00	508	46.5	1181.1	5.93	150.6	4	101.6	8S-0905	
20.00	508	23.27	591	4.02	102.11	4.02	102.11	2U-8426	7E-3870 - clamp
20.15	511.9	24.67	626.5	4.57	116	5.15	130.8	4W-5053	
20.16	512	24.67	626.5	4.57	116	5.15	130.8	4P-6548	
20.16	512	24.67	626.5	4.567	116	5.15	130.81	101-8740	
20.2	513	20.2	513	3.018	76.65	3.13	79.5	101-0349	
20.33	516.4	22.42	569.4	4.567	116	5.15	130.81	6I-2408	
20.5	520.7	22.5	571.5	3.018	76.66	3.13	79.5	107-7473	
20.61	523.6	23.94	608.2	5.038	127.96	5.15	130.81	4P-6649	
20.62	523.8	23.95	608.3	5.038	127.96	6.151	156.24	200-3199	
20.79	528	23.5	597	2.52	64.01	2.52	64.01	134-1945	
21	533.4	26.81	681	5.04	128	6.15	156.2	7N-9674	
21.1	535.9	26.08	662.5	5.196	131.97	5.106	129.7	166-6670	
21.1	535.9	26.08	662.5	5.196	131.97	5.106	129.7	134-5423	
21.1	535.9	26.08	662.5	5.038	127.97	5.106	129.7	198-1939	
21.31	541.2	25.48	647.2	4	101.6	3.63	92.1	4P-4010	
21.74	552.2	25.38	644.7	5	127	6.13	155.6	1W-4187*	
21.98	558.2	22.17	563	2.89	73.4	2.887	73.33	112-5089	
21.98	558.2	22.17	563	2.89	73.4	2.887	73.33	112-5090	
22.00	558.8	29.75	755.7	4.5	114.3	5.13	130.2	2W-3428	2P-5608 (1) - pipe 0S-1571 (2) - bolt
22.00	558.8	35.26	895.6	5	127	5.15	130.8	6N-5437	
22.01	559	25.39	645	4.57	116	5.15	130.8	1N-2936	
22.24	565	35.23	894.8	8.75	222.3	10.13	257.2	4W-0532	
22.25	565.2	35.69	906.5	8.039	204.19	10.189	258.8	111-4352	
22.64	575	22.64	575	2.429	61.7	2.429	61.7	5I-7935	

* Ejector is included with muffler.

Air Intake and Exhaust Systems

Mufflers

A BODY LENGTH (in) (mm)		B OVERALL LENGTH (in) (mm)		C INLET DIAMETER (in) (mm)		D OUTLET DIAMETER (in) (mm)		PART NUMBER	ADDITIONAL PARTS
22.64	575	22.64	575	2.421	61.5	2.421	61.5	5I-7914	
22.88	581.1	22.88	581.1	3.516	89.3	3.61	91.7	173-7129	9Y-8315 - clamp
23.49	596.7	29.19	741.4	6.669	169.4	6.734	171.04	4W-8485	
23.5	596.9	23.5	596.9	4	101.6	4.13	104.8	2W-3597	
23.5	596.9	29.75	755.6	6.63	168.3	6.73	171	7W-3659	
23.5	596.9	29.75	755.7	6.63	168.3	6.73	171	7W-3660	
23.62	600	29.42	747.3	5	127	6.13	155.6	7C-6398	
23.62	600	25.75	654	3.515	89.28	4	101.6	7C-3693	
23.69	601.7	37	939.8	4	101.6	5.13	130.2	2P-5609	
23.69	601.7	37	939.8	4.03	102.4	5.15	130.8	4N-8942*	
23.69	601.6	40.75	1035	4	101.6	4.13	104.8	6N-1878	
23.69	601.7	37	939.8	4.031	102.39	5.15	130.81	8N-5565	
24.00	609.6	27.4	696	4.37	111.1	5.25	133.4	4W-3632	
24.00	609.5	31	787.5	4.03	102.4	5.15	130.8	2T-3814	
24.12	612.6	24.12	612.6	3.516	89.3	3.627	92.13	9Y-4668	9Y-8315 - clamp
24.12	612.6	24.12	612.6	3.516	89.3	3.627	92.13	9Y-0210	9Y-8315 - clamp
24.12	612.6	24.11	612.5	3.516	89.3	3.627	92.13	119-8411	9Y-8315 - clamp
24.12	612.6	61.09	1551.7	8.665	220.1	10.189	258.8	4W-0969	
24.5	622.3	22.5	571.5	3.018	76.66	2.63	66.8	126-0734	
24.62	625.4	28.94	735.2	6.13	155.6	6.25	158.8	2W-8437	
24.63	625.6	30.48	774.2	5.025	127.64	6.15	156.2	4P-1463	
24.8	630	24.8	630	3.67	93.1	3.13	79.5	112-1665	
25.00	635.1	27.13	689	3	76.2	3.13	79.4	9Y-1403	
25.01	635.2	41.38	1051	4.031	102.4	5.15	130.8	2C-9500	2C-8705 cap
25.39	645	25.39	645	2.421	61.5	2.421	61.5	5I-8007	
25.39	645	25.39	645	2.598	66	2.598	66	125-2945	
25.75	654	31.13	790.7	6.622	168.2	6.734	171.04	4P-2496	
25.87	657.2	33.25	844.6	5	127	5	127	6N-0396*	
26.00	660.4	26	660.4	4	101.6	4	101.6	7E-2944	
26.00	660.4	31.02	788	4.13	104.8	4	101.6	7E-5663	
26.00	660.4	32.75	831.9	4	101.6	5.13	130.2	9S-7079*	
26.00	660.4	33.25	844.6	5	127	5.13	130.2	4N-4577*	
26.00	660.4	33.25	844.6	5	127	5.13	130.2	8S-6558	
26.00	660.4	33.25	844.5	5	127	5.13	130.2	7N-3235*	
26.00	660.4	34.75	882.7	3.5	88.9	4.13	104.8	2P-6255	
26.00	660.4	34.75	882.7	4	101.6	4.13	104.8	2P-2744	
26.00	660.4	36.93	938	5	127	5.13	130.2	4W-0455*	
26.00	660.4	36.93	938	5	127	5.13	130.2	4W-0456*	
26.00	660.4	37.5	952.5	6	152.4	6.13	155.6	8S-5438*	
26.00	660.4	37.5	952.5	6	152.4	6.13	155.6	8S-6443	
26.00	660.4	38.86	987	5	127	6.13	155.6	1N-3452*	4P-6465 (1) - tube assy.

* Ejector is included with muffler.

Air Intake and Exhaust Systems

Mufflers

A BODY LENGTH (in) (mm)		B OVERALL LENGTH (in) (mm)		C INLET DIAMETER (in) (mm)		D OUTLET DIAMETER (in) (mm)		PART NUMBER	ADDITIONAL PARTS
26.00	660.4	32.25	819.2	3.516	89.3	3.516	89.3	111-0389	
26.00	660.4	38.93	988.8	5.025	127.63	6.151	156.24	8N-8730	
26.00	660.4	36	914.4	4.031	102.39	5.15	130.81	4N-5191	
26.00	660.4	37.5	952.5	6.039	153.39	6.155	156.34	1W-4293	1W-3055 - muffler as 6F-7012 - stud
26.00	660.4	37.5	952.5	6.039	153.39	6.734	171.04	1W-2489	
26.00	660.4	26	660.4	3.516	89.3	3.61	91.7	173-7128	9Y-8315 - clamp
26.11	663.1	31.88	809.7	6.669	169.4	6.734	171.04	7W-5867	
26.12	663.4	26.12	663.4	4.031	102.4	4	101.6	137-6995	7E-3870 - clamp
26.5	673.1	30.5	774.7	3	76.2	2.63	66.7	4N-6638	
27.28	693	27.28	693	4.031	102.39	4.143	105.23	7Y-2040	
27.44	697	41.76	1060.7	3.63	92.1	3.63	92.1	137-4097	
28.5	723.9	44.19	1122.4	2.5	63.5	2.63	66.7	7N-1659	
28.5	723.9	28.5	723.9	4.031	102.39	4.102	104.2	6I-3662	7E-3870 - clamp
28.5	724	28.5	724	4.031	102.39	4.102	104.2	128-1009	7E-3870 - clamp
28.56	725.4	30.53	775.4	6.039	153.4	6.142	156	157-2828	
28.62	727	32.47	824.8	6.087	154.6	8	203.2	2W-9626	
28.87	733.4	44.17	1122	3	76.2	2.63	66.7	1W-9832	
29.00	736.6	35.5	901.7	4	101.6	4.13	104.8	9S-8069	
29.00	736.6	36.62	930.2	5	127	6	152.4	6N-4184*	
29.00	736.6	38.5	977.9	5	127	6.13	155.6	7N-8923*	7N-8903 (1) - bracket assy. 0S-1588 (1) - cap screw 1D-4717 (1) - nut 5M-2894 (2) - washer
31.1	790	31.1	790	4.03	102.4	4.14	105.2	7Y-1508	
31.1	790	31.1	790	4.031	102.39	4.143	105.23	118-9906	
31.37	796.8	44.75	1136.6	8	203.2	8.13	206.4	7N-6905	
31.75	806.5	40.75	1035	6.63	168.3	6.63	168.3	7W-8445*	
31.75	806.4	41.5	1054.1	6	152.4	6.75	171.5	4N-5184	
31.75	806.5	43.25	1098.6	6.62	168.2	6.74	171.2	2P-2728	6F-7012 (2) - stud
31.75	806.5	43.25	1098.6	6.62	168.2	6.74	171.2	8S-6559	
31.75	806.4	43.25	1098.5	6.62	168.2	6.75	171.5	7N-4839*	
31.75	806.5	43.25	1098.6	6.63	168.3	6.75	171.5	8N-4975	
31.75	806.5	45	1143	6.62	168.2	6.74	171.2	9S-7786*	
31.75	806.5	43.25	1098.55	6.622	168.2	6.738	171.15	8S-8167	
31.75	806.5	43.25	1098.6	6.622	168.2	6.738	171.15	1W-2491	
32.01	813	44.57	1132	3.51	89.15	3.504	89	2220458	
32.19	817.6	42.17	1071	6.039	153.39	6.157	156.4	7W-9707	1F-0750 - weld nut
32.5	825.5	42.91	1089.8	4	101.6	4.13	104.8	1W-0370	
32.63	828.8	44.59	1132.52	3.5	88.9	3.626	92.1	100-4594	8N-4044 - flange
33.25	844.6	44.75	1136.6	8.039	204.19	7.989	202.92	2W-3773	
34.45	875	34.45	875	4.031	102.39	4.496	114.2	7Y-1978	
34.45	875	34.45	875	4.031	102.39	4.496	114.2	6I-6425	

* Ejector is included with muffler.

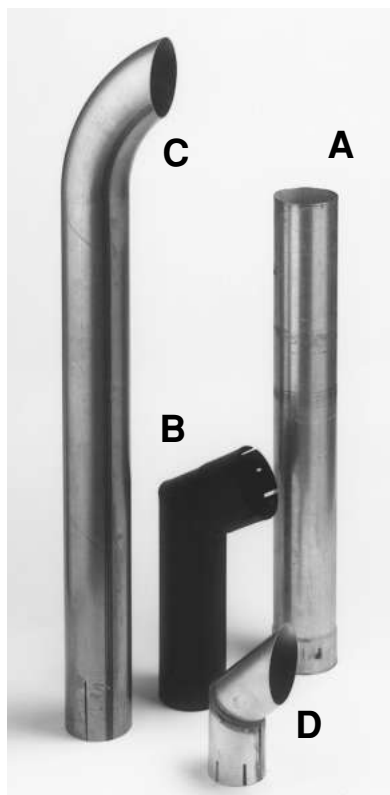
Air Intake and Exhaust Systems

Mufflers

A BODY LENGTH (in) (mm)		B OVERALL LENGTH (in) (mm)		C INLET DIAMETER (in) (mm)		D OUTLET DIAMETER (in) (mm)		PART NUMBER	ADDITIONAL PARTS
34.45	875	34.45	875	4.031	102.39	4.143	105.23	109-9323	7E-3870 - clamp
34.45	875	34.45	875	4.031	102.39	4.496	114.2	109-9463	7E-3870 - clamp
35.00	889	38.49	977.6	3	76.2	3.13	79.4	7N-5539	
35.00	889	42.31	1074.7	5	127	6	152.4	7N-2187	
35.00	889	44.19	1122.5	3	76.2	3.13	79.4	1W-9519	
35.37	898.5	44.15	1121.5	3.51	89.15	3	76.2	6I-1715	8N-4044 - flange
36.38	924	36.38	924	5.551	141	6	152.4	102-3927	
36.38	924	36.38	924	5.031	127.8	5.157	131	196-8203	
36.38	924	36.38	924	5.031	127.8	5.157	131	139-8723	
36.38	924	37.58	954.5	5.031	127.8	5.157	131	205-6642	
37.5	952.5	44.75	1136.6	5.04	128	6.04	153.4	4N-1565*	
38.00	965.2	44.94	1141.5	4	101.6	5	127	6N-4183*	
39.00	990.6	45	1143	6	152.4	6	152.4	2W-4072	2W-7861 (1) - flange 2W-7862 (1) - gasket 5L-4398 (6) - bolt 1B-5357 (6) - nut 5P-8245 (12) - washer
39.00	990.6	45	1143	6	152.4	6	152.4	2W4072	
40.32	1024.1	40.33	1024.4	4.567	116	5.105	129.67	160-8583	
40.5	1028.7	43.88	1114.5	6.62	168.2	6.73	171	7N-9647	
42.00	1066.8	54	1371.6	10	254	10.19	258.8	7E-6811	
42.5	1079.5	50.5	1282.7	6	152.4	6	152.4	2P-3890	
44.37	1127	63.07	1601.9	6	152.4	5.15	130.81	122-4989	
45.49	1155.5	62.81	1595.5	6	152.4	5.13	130.2	7W-7181	
53.34	1354.8	59.25	1505	5.025	127.64	5	127	163-0451	
54.25	1378	59.25	1505	5.025	127.64	5	127	6I-0137	
57.06	1449.3	66.94	1700.3	4.031	102.4	4	101.6	129-4048	7E-3870 - clamp
57.31	1455.6	66.94	1700.3	4.031	102.4	5	127	106-6699	7E-3870 - clamp
59.44	1509.8	62.75	1593.9	6	152.4	5.13	130.2	7W-7182	

* Ejector is included with muffler.

Air Intake and Exhaust Systems



Exhaust Pipe Extensions

- Help remove exhaust, sound, and smoke from the operator's area.
- Not for use with an engine that has an air pre-cleaner with an exhaust-powered dust ejection system.

ITEM	OUTSIDE DIAMETER		LENGTH		PART NUMBER
	(in)	(mm)	(in)	(mm)	
Straight Pipe (A)	2.50	63.5	26.50	673.1	3B-6940
Straight Pipe (A)	3.00	76.2	23.00	584.2	8F-6403
Straight Pipe (A)	3.00	76.2	33.00	838.2	7B-3831
Straight Pipe (A)	3.00	76.2	62.00	1574.8	7M-5350
Straight Pipe (A)	3.25	82.6	35.50	901.7	1P-9554
Straight Pipe (A)	3.50	88.9	30.00	762.0	3H-8688
Straight Pipe (A)	3.63	92.2	28.74	730.0	6C-0027
Straight Pipe (A)	4.00	101.6	13.37	339.6	4N-6217
Straight Pipe (A)	4.00	101.6	27.50	698.5	9F-2838
Straight Pipe (A)	4.00	101.6	30.00	762.0	4H-7256
Straight Pipe (A)	4.00	101.6	33.50	850.9	4M-0810
Straight Pipe (A)	4.14	105.2	25.00	635.0	2P-6249
Straight Pipe (A)	4.50	114.3	30.00	762.0	1M-5270
Straight Pipe (A)	4.63	117.5	17.00	431.8	8S-8981
Straight Pipe (A)	4.63	117.5	27.50	698.5	9S-1768
Straight Pipe (A)	5.15	130.8	35.75	908.1	2P-1438
Straight Pipe (A)	5.25	133.4	30.00	762.0	8H-2718
Straight Pipe (A)	5.90	149.9	30.00	762.0	4S-6941
Straight Pipe (A)	6.62	168.2	31.38	797.1	9S-6120
Straight Pipe (A)	6.75	171.5	12.00	304.8	4N-6668
45° Outlet (B)	4.25	108.0	10.87	276.1	1P-8463
Radial Square Cut Outlet (C)	4.00	101.6	12.31	312.7	7N-2537
Radial Square Cut Outlet (C)	4.00	101.6	39.50	1003.3	2H-2191
Radial Square Cut Outlet (C)	6.00	152.4	37.99	965.0	7E-3509
Radial Square Cut Outlet (C)	6.00	152.4	49.88	1267.0	4N-5958
Radial Square Cut Outlet (C)	6.59	167.4	43.00	1092.2	3R-5327
45° Square Cut Outlet (D)	3.16	80.3	9.80	248.9	9S-7534
45° Square Cut Outlet (D)	3.16	80.3	25.75	654.1	7S-7128
45° Square Cut Outlet (D)	3.16	80.3	44.30	1125.2	7S-7681
45° Square Cut Outlet (D)	4.24	107.6	11.22	285.0	7Y-1517
45° Square Cut Outlet (D)	4.24	107.7	26.62	676.2	2P-4611
45° Square Cut Outlet (D)	4.38	111.3	40.00	1016.0	5M-5856
45° Square Cut Outlet (D)	4.52	114.8	26.19	665.2	7S-8736
45° Square Cut Outlet (D)	5.50	139.7	37.40	950.0	8N-4445
45° Square Cut Outlet (D)	6.59	167.4	52.75	1339.9	7M-9877
45° Square Cut Outlet (D)	6.89	175.0	42.00	1066.8	9S-7290
45° Square Cut Outlet (D)	7.68	195.1	54.25	1378.0	5D-7771

Related parts, such as hardware and braces, are not included with all exhaust pipe extensions. Please check the parts book for related part numbers.

Air Intake and Exhaust Systems



Air Intake Pipe Extensions

Intake extensions raise the air intake level to avoid low-lying dust concentrations.

- Provide cleaner air for your engine.
- Are easily installed between the pre-cleaner and the inlet pipe of the air cleaner.

ITEM	OUTSIDE DIAMETER		LENGTH		PART NUMBER
	(in)	(mm)	(in)	(mm)	
Air Intake Pipe Extension	3.25	82.6	27.50	698.5	7S-7117
Air Intake Pipe Extension	3.25	82.6	46.00	1168.4	8S-0985
Air Intake Pipe Extension (with clamp)	4.00	101.6	13.50	342.9	8S-2382
Air Intake Pipe Extension	4.00	101.6	30.00	762.0	7F-1499
Air Intake Pipe Extension	4.00	101.6	52.00	1320.8	1F-1342
Air Intake Pipe Extension	4.53	115.1	18.00	457.2	7H-0870
Air Intake Pipe Extension	5.00	127.0	13.50	342.9	8S-2381
Air Intake Pipe Extension	5.00	127.0	18.00	457.2	9H-8318
Air Intake Pipe Extension	5.00	127.0	45.00	1143.0	5H-7610
Air Intake Pipe Extension	5.91	150.1	45.00	1143.0	5D-5016
Air Intake Pipe Extension (with clamp)	6.58	167.1	13.50	342.9	8S-2383
Air Intake Pipe Extension (with clamp)	7.00	177.8	27.00	685.8	8S-8354
Air Intake Pipe Extension (with clamp)	9.00	228.6	13.35	339.1	8S-2384

Air Intake and Exhaust Systems



Air Intake and Exhaust Stack Clamps

ITEM	DIAMETER (in)	DIAMETER (mm)	PART NUMBER
Air Intake and Exhaust Stack Clamps	1.38	35.1	8M-4106
Air Intake and Exhaust Stack Clamps	1.50	38.1	1F-9774
Air Intake and Exhaust Stack Clamps	1.67	42.5	8M-7581
Air Intake and Exhaust Stack Clamps	1.75	44.5	8M-2325
Air Intake and Exhaust Stack Clamps	2.50	63.5	6B-3771
Air Intake and Exhaust Stack Clamps	2.66	67.6	2F-8299
Air Intake and Exhaust Stack Clamps	2.70	68.5	099-2062
Air Intake and Exhaust Stack Clamps	2.75	69.9	8N-9758
Air Intake and Exhaust Stack Clamps	3.00	76.2	8M-3121
Air Intake and Exhaust Stack Clamps	3.12	79.2	4K-2544
Air Intake and Exhaust Stack Clamps	3.14	79.8	2F-5152
Air Intake and Exhaust Stack Clamps	3.22	81.8	1W-5869
Air Intake and Exhaust Stack Clamps	3.28	83.3	5S-0580
Air Intake and Exhaust Stack Clamps	3.29	83.5	5A-8598
Air Intake and Exhaust Stack Clamps	3.67	93.3	3H-8604
Air Intake and Exhaust Stack Clamps	3.78	96.0	8F-5714
Air Intake and Exhaust Stack Clamps	4.09	103.9	2H-2190
Air Intake and Exhaust Stack Clamps	4.17	106.0	9S-8068
Air Intake and Exhaust Stack Clamps	4.31	109.5	9S-8071
Air Intake and Exhaust Stack Clamps	4.67	118.6	5A-8600
Air Intake and Exhaust Stack Clamps	5.17	131.4	2P-7806
Air Intake and Exhaust Stack Clamps	5.18	131.6	6F-8814
Air Intake and Exhaust Stack Clamps	5.25	133.4	8H-2758
Air Intake and Exhaust Stack Clamps	5.59	142.0	8M-0280
Air Intake and Exhaust Stack Clamps	6.00	152.4	5D-5017
Air Intake and Exhaust Stack Clamps	6.19	157.2	1N-4720
Air Intake and Exhaust Stack Clamps	6.32	160.5	8S-5444
Air Intake and Exhaust Stack Clamps	6.52	165.6	2R-1159
Air Intake and Exhaust Stack Clamps	6.77	171.9	5H-7292
Air Intake and Exhaust Stack Clamps	6.86	174.2	8S-1460
Air Intake and Exhaust Stack Clamps	7.04	178.8	5S-5327
Air Intake and Exhaust Stack Clamps	7.15	181.6	8S-1353
Air Intake and Exhaust Stack Clamps	7.28	185.0	7P-4595
Air Intake and Exhaust Stack Clamps	7.80	198.1	8M-1883
Air Intake and Exhaust Stack Clamps	8.16	207.3	4N-9330
Air Intake and Exhaust Stack Clamps	8.19	208.0	2P-7418
Air Intake and Exhaust Stack Clamps	8.40	213.4	1W-1305
Air Intake and Exhaust Stack Clamps	8.81	223.9	4W-1814
Air Intake and Exhaust Stack Clamps	10.46	265.8	6N-9298

Air Intake and Exhaust Systems



Rain Traps and Rain Caps

Rain traps and rain caps are made of heavy-gauge steel and are gravity-operated to provide low-cost protection for engine exhaust systems.

- Help keep rain, snow, and dirt from entering the exhaust manifold.
- Available for every Cat diesel and starting engine exhaust stack and for most other engines in your equipment spread.
- For use with both turbocharged and naturally-aspirated engines.
- Not for use with machines that have a muffler.

ITEM	EXHAUST STACK DIAMETER		PART NUMBER
	(in)	(mm)	
Rain Cap	1.25-1.44	32-36	7S-1724
Rain Trap	1.34-1.47	34-38	8F-3822
Rain Trap	1.47-1.59	37-41	8F-3825
Locking Rain Cap	1.50-1.69	38-43	7S-5004
Rain Trap	2.50-2.69	63-68	6F-6521
Locking Rain Cap	2.50-2.69	63-68	7S-4993
Rain Trap	3.00-3.19	76-81	6F-6522
Locking Rain Cap	3.00-3.19	76-81	7S-4992
Locking Rain Cap	3.22-3.41	82-87	8S-1935
Rain Trap	3.50-3.69	89-94	5H-2658
Locking Rain Cap	3.50-3.69	88-94	7S-4995
Rain Trap	4.00-4.19	101-106	5H-2722
Locking Rain Cap	4.00-4.19	102-106	7S-4994
Locking Rain Cap	4.50-4.69	114-119	7S-1784
Rain Cap	5.00-5.19	127-132	9S-7148
Locking Rain Cap	5.25-5.44	133-138	7S-4413
Rain Cap	5.50-5.69	140-144	7S-4410
Rain Cap	6.00-6.20	152-157	7S-4411
Rain Cap	6.14-6.30	156-160	3R-7698
Locking Rain Cap	6.75-6.94	171-176	7S-5003
Locking Rain Cap	6.88-7.07	175-180	8S-1417
Rain Cap	7.75-7.94	197-202	7S-4412
Rain Cap	8.00	203	6N-7611

ONE SAFE SOURCE | 2006-2007



BATTERIES AND ELECTRICAL PARTS

Batteries and Electrical Parts



Premium High Output Batteries

- Vibration Resistance . . . 5-times the industry Standard.
- 4D & 8D Maintenance Free Batteries - World's Highest Cold Cranking Amps.
- Exclusive "Flat Top" 4D & 8D Maintenance Free Batteries - No leaking or lost caps.
- Provide three or more times the life of the best know battery brands.

BCI GROUP SIZE	PART NUMBER	COLD CRANKING AMPS*	RESERVE CAPACITY MINUTES**	VOLTS	AMP HR. CAPACITY @ 20 HRS.	CONSTRUCTION
8D	153-5720	1500	465	12	210	Maintenance Free - Calcium Design
8D	101-4000	1400	400	12	190	Hybrid Design (Dry Only)
4D	153-5710	1400	425	12	200	Maintenance Free - Calcium Design
4D	153-5700	1125	305	12	145	Maintenance Free - Calcium Design
4D	9X-9730	1300	400	12	190	Hybrid Design (Dry Only)
4D	9X-9720	1000	275	12	140	Hybrid Design (Dry Only)
31	175-4390	1000	180	12	90	Maintenance Free - Calcium Design, Stud Terminals - Starting
31	175-4370	825	190	12	100	Maintenance Free - Calcium Design, Stud Terminals, Start/Deep Cycle
31	175-4360	710	185	12	100	Maintenance Free - Calcium Design, Stud Terminals, Deep Cycle/Start
31	115-2422	1000	170	12	90	Maintenance Free - Calcium Design - Accessible Cover
31	115-2421	950	170	12	90	Maintenance Free - Calcium Design - Accessible Cover
31	9X-3404	950	165	12	100	Maintenance Free - Calcium Design
31	3T-5760	750	165	12	100	Maintenance Free - Silver/Calcium Design
24	153-5656	650	110	12	52	Maintenance Free - Silver/Calcium Design
74	153-5660	650	110	12	52	Maintenance Free - Silver/Calcium Design, Side Terminals
58	175-4280	500	70	12	35	Maintenance Free - Silver/Calcium Design
2	153-5690	765	210	6	90	Hybrid Design (Dry Only)
31	250-0480	710	185	12	100	Maintenance Free - Calcium Design-Dual Terminal Stud and SAE-Marine Deep Cycle/Starting
65	230-6368	880	140	12	80	Maintenance Free - Silver/Calcium Design

All batteries have taper post design and are shipped dry except as noted.

* For 30 seconds at 0° F

** 25 Amp output at 80° F

Batteries and Electrical Parts



Premium High Output Batteries (cont.)

BCI GROUP SIZE	PART NUMBER	ADD WATER MAINTENANCE CHECK/HRS.	BCI OVERALL DIMENSIONS						NOMINAL WEIGHT				ACID TO FILL	
			LENGTH		WIDTH		HEIGHT		WET		DRY		(qt)	(liter)
			(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(lb)	(kg)		
8D	153-5720	MF	20.47	(520)	10.8	275	9.76	(248)	132	(60)	—	—	—	—
8D	101-4000	1000	20.7	(526.5)	10.96	(278)	9.76	(248)	132	(60)	86	(39)	18.0	(17.0)
4D	153-5710	MF	20.47	(520)	8.58	(218)	9.76	(248)	119	(54)	—	—	—	—
4D	153-5700	MF	20.47	(520)	8.58	(218)	9.76	(248)	101	(46)	—	—	—	—
4D	9X-9730	1000	20.75	(527)	8.58	(218)	9.76	(248)	119	(54)	81	(37)	14.8	(14.0)
4D	9X-9720	1000	20.75	(527)	8.58	(218)	9.76	(248)	101	(46)	59	(27)	15.9	(15.0)
31	175-4390	MF	12.9	(328.4)	6.74	(171.2)	9.29	(236)	60	(27)	—	—	—	—
31	175-4370	MF	12.9	(328.4)	6.74	(171.2)	9.29	(236)	60	(27)	—	—	—	—
31	175-4360	MF	12.9	(328.4)	6.74	(171.2)	9.29	(236)	60	(27)	—	—	—	—
31	115-2422	MF	12.9	(328.4)	6.74	(171.2)	9.46	(240.3)	60	(27)	—	—	—	—
31	115-2421	MF	12.9	(328.4)	6.74	(171.2)	9.46	(240.3)	60	(27)	44	(20)	6.6	(6.2)
31	9X-3404	MF	13	(330.2)	6.77	(172)	9.46	(240.3)	58	(26)	—	—	—	—
31	3T-5760	MF	13	(330.2)	6.77	(172)	9.46	(240.3)	55	(25)	—	—	—	—
24	153-5656	MF	10.98	(278.9)	6.85	(174)	9.0	(229.1)	39	(18)	—	—	—	—
74	153-5660	MF	10.98	(278.9)	7.0	(178.2)	8.15	(206.9)	39	(18)	—	—	—	—
58	175-4280	MF	9.96	(253.1)	7.2	(182.5)	6.9	(176)	31	(14)	—	—	—	—
2	153-5690	1000	10.24	(260)	6.8	(173)	8.72	(221.6)	37	(17)	22	(10)	4.8	(4.5)
31	250-0480	MF	12.9	(328.4)	6.74	(171.2)	9.29	(236)	60	27	—	—	—	—
65	230-6368	MF	11.9	(303.4)	7.5	(190.8)	7.5	(191.4)	45.5	21	—	—	—	—

MF – Maintenance Free

Batteries and Electrical Parts

General Service Batteries

BCI GROUP SIZE	PART NUMBER	VOLTS	COLD CRANKING AMPS*	RESERVE CAPACITY MINUTES**	AMP HR. CAPACITY @20 HRS.	CONSTRUCTION	BCI OVERALL DIMENSIONS				NOMINAL WEIGHT		ACID TO FILL (qt) (liter)
							LENGTH (in)	WIDTH (in)	HEIGHT (in)	HEIGHT (mm)	WET (lb)	DRY (kg)	
Agricultural / Industrial / Truck (Shipped Dry)													
1	8T-9734	6	650	180	100	Maintenance Free - Calcium Grids	9.0	229	6.9	175	33.5	15	4.3
3D	8T-9730	6	1400	675	320	Low Maintenance, Low Antimony Grids	20.4	518	8.7	221	120.0	54	10.4
7D	8T-9731	6	950	350	156	Low Maintenance, Low Antimony Grids	15.7	399	7.0	178	59.5	27	7.1
24F	9X-1382	12	650	120	50	Maintenance Free, Silver/Calcium Grids	10.6	269	6.8	173	38.5	17	5.7
26	145-4517	12	540	80	48	Maintenance Free, Silver/Calcium Grids	8.8	224	6.8	173	33.0	15	3.1
26R	145-4518	12	540	80	48	Maintenance Free, Silver/Calcium Grids.	8.8	224	6.8	173	33.0	15	3.3
27	3E-8925	12	675	120	55	Maintenance Free, Silver/Calcium Grids	12.0	305	6.7	170	45.0	20	6.2
6TL	5R-9120	12	700	230	120	Low Maintenance - Hybrid Ordnance Battery (Order through Morton, Government Restricted)	11.3	287	10.5	267	73.0	33	7.6
Automotive / Light Truck/ SUV (Shipped Dry)													
22F	9X-1384	12	425	65	32	Maintenance Free, Silver/Calcium Grids	9.4	239	6.8	173	29.5	13	4.3
24	9X-1383	12	650	120	50	Maintenance Free, Silver/Calcium Grids	10.2	259	6.8	173	38.5	17	5.7
Marine / Recreational (Shipped Dry)													
8V	8C-3640	8	980	350	175	Low Maintenance, Low Antimony Grids	20.8	527	7.2	184	90.0	41	10.9
General Service - Agricultural / Industrial / Truck (Shipped Wet)													
1	8C-3617	6	650	180	100	Maintenance Free Calcium Grids	9.0	229	6.9	175	30.0	14	—
2	8C-3629	6	780	215	90	Low Maintenance, Low Antimony Grids	10.4	264	6.9	175	36.5	17	—

* For 30 seconds at 0° F ** 25 Amp output at 80° F

All batteries have taper post design and are shipped dry except as noted

Batteries and Electrical Parts

General Service Batteries (Wet)

BCI GROUP SIZE	PART NUMBER	VOLTS	COLD CRANKING AMPS*	RESERVE CAPACITY MINUTES**	AMP HR. CAPACITY @20 HRS.	CONSTRUCTION	BCI OVERALL DIMENSIONS				NOMINAL WEIGHT		ACID TO FILL (qt)
							LENGTH (in)	WIDTH (in)	HEIGHT (in)	HEIGHT (mm)	WET (lb)	DRY (kg)	(qt)
Agricultural / Industrial / Truck (cont.)													
3EE	8C-3620	12	400	95	54	Low Maintenance, Low Antimony Grids	19.3	4.3	9.0	229	43.0	20	—
3EH	8C-3632	6	875	250	115	Low Maintenance, Low Antimony Grids	19.3	4.3	10.0	254	47.5	22	—
4	8C-3633	6	1000	270	125	Maintenance Free, Calcium Grids	12.5	6.9	9.5	241	47.0	21	—
4D	8C-3623	12	900	260	115	Low Maintenance, Low Antimony Grids	20.8	8.5	10.1	257	97.0	44	—
4DLT	8C-3622	12	860	250	100	Low Maintenance, Low Antimony Grids	20.0	8.2	8.2	208	79.0	36	—
7D	8C-3635	6	950	350	156	Low Maintenance, Low Antimony Grids	15.8	7.0	9.2	234	59.5	27	—
8D	8C-3624	12	1300	430	190	Low Maintenance, Low Antimony Grids	20.7	11.0	10.0	254	131.5	60	—
24F	3T-5858	12	650	120	55	Maintenance Free, Silver/Calcium Grids	10.6	6.8	9.0	229	38.5	17	—
27	8C-3601	12	675	120	65	Maintenance Free, Silver/Calcium Grids	12.0	6.7	9.0	229	45.0	20	—
27F	8C-3602	12	675	120	65	Maintenance Free, Silver/Calcium Grids	12.4	6.7	9.0	229	45.0	20	—
30H,	8C-3627	12	850	180	100	Maintenance Free, Calcium Grids	13.0	6.8	9.5	241	57.5	26	—
31	8C-3628	12	800	170	80	Maintenance Free, Calcium Grids (Stud terminals)	13.0	6.8	9.5	241	54.5	25	—
8D	250-0473	12	1450	450	190	Maintenance Free, Calcium Grids Transit Bus Terminal	20.7	11.0	10.0	254	136.5	62	—
Automotive / Light Truck / SUV													
22F	3T-5859	12	425	65	35	Maintenance Free, Silver/Calcium Grids	9.4	6.8	8.3	211	29.5	13	—

All batteries have taper post design and are shipped dry except as noted

* For 30 seconds at 0° F

** 25 Amp output at 80° F

Batteries and Electrical Parts

General Service Batteries (Wet)

BCI GROUP SIZE	PART NUMBER	VOLTS	COLD CRANKING AMPS*	RESERVE CAPACITY MINUTES**	AMP HR. CAPACITY @20 HRS.	CONSTRUCTION	BCI OVERALL DIMENSIONS				NOMINAL WEIGHT		ACID TO FILL (qt) (liter)
							LENGTH (in)	WIDTH (in)	HEIGHT (in)	HEIGHT (mm)	WET (lb)	DRY (kg)	
Automotive / Light Truck / SUV (cont.)													
24	3T-5857	12	650	120	55	Maintenance Free, Silver/Calcium Grids	10.2	6.8	9.0	229	38.5	17	—
26	8C-3600	12	540	80	45	Maintenance Free, Silver/Calcium Grids	8.8	6.8	8.0	203	24.5	11	—
41	8C-3605	12	660	110	64	Maintenance Free, Silver/Calcium Grids	11.5	6.9	6.9	175	37.0	17	—
55/56 /62	8C-3611	12	585	95	52	Maintenance Free, Silver/Calcium Grids (Dual terminals)	8.8	6.0	8.5	216	33.0	15	—
58	8C-3612	12	580	55	53	Maintenance Free, Silver/Calcium Grids	10.0	7.2	6.9	175	30.5	14	—
75	7X-6100	12	720	100	60	Maintenance Free, Silver/Calcium Grids (Side terminals)	9.0	7.0	7.3	185	34.5	16	—
42	250-0490	12	475	70	40	Maintenance Free, Silver/Calcium Grids	9.5	6.9	6.9	175	29.0	13	—
25	250-0488	12	600	90	45	Maintenance Free, Silver/Calcium Alloy - Severe Service	9.1	6.8	8.8	225	31.0	14	—
35	250-0487	12	600	90	45	Maintenance Free, Silver/Calcium Alloy - Severe Service	9.1	6.8	8.8	225	31.0	14	—
65	250-0484	12	650	105	55	Maintenance Free, Silver/Calcium Alloy - Severe Service	12	7.3	7.6	194	39.0	18	—
Dual Terminal Offering													
24/24F /74	127-0824	12	930	130	63	Maintenance Free, Silver/Calcium Grids	10.9	7.0	9.0	229	44.0	20	—
34/78	127-0826	12	875	120	66	Maintenance Free, Silver/Calcium Grids	10.8	6.9	8.0	203	41.0	19	—
34/78	250-0486	12	690	100	60	Maintenance Free, Silver/Calcium Alloy - Severe Service	10.7	6.8	8.0	203	36.5	17	—
75/86	250-0489	12	540	85	47	Maintenance Free Silver/Calcium Grids	9.7	7.0	8.1	206	30.5	14	—
Marine / Recreational													
GC-2	8C-3641	6	115 min. 75AMPS @80°F		215	Deep Cycle, Antimony Grids (Offset post with horizontal hole)	10.3	7.1	180	10.9	63.0	29	—

All batteries have taper post design and are shipped dry except as noted

* For 30 seconds at 0° F

** 25 Amp output at 80° F

General Service Batteries (Wet)

BCI GROUP SIZE	PART NUMBER	VOLTS	COLD CRANKING AMPS*	RESERVE CAPACITY MINUTES**	AMP HR. CAPACITY @20 HRS.	CONSTRUCTION	BCI OVERALL DIMENSIONS				NOMINAL WEIGHT		ACID TO FILL (qt)
							LENGTH (in)	WIDTH (mm)	HEIGHT (in)	HEIGHT (mm)	WET (lb)	DRY (kg)	
Marine / Recreational (cont.)													
U1	8C-3636	12	260	32	25	Maintenance Free, Calcium Grids (L-Terminal)	7.8	198	5.1	130	7.3	185	—
24M	8C-3638	12	650	120	55	Marine Starting, Maintenance Free Silver, Calcium Grids (Stud terminals)	10.8	274	6.8	173	9.4	239	—
27M	8C-3639	12	625	150	80	Deep Cycle, Antimony Grids Dual Terminal (Stud terminals)	12.5	318	6.8	173	9.4	239	—
4D	152-8006	12	970	375	183	Maintenance Free - Gelled Deep Cycle	20.8	528	8.5	216	10.0	254	—
8D	152-7242	12	1150	475	225	Maintenance Free - Gelled Deep Cycle	20.8	528	11.1	282	10.0	254	—

All batteries have taper post design and are shipped dry except as noted

* For 30 seconds at 0° F

** 25 Amp output at 80° F

Batteries and Electrical Parts

Absorbed Glass Mat (AGM) Batteries, Designed for High-rate Uninterruptible Power Supplies (UPS) or Standby Applications

BCI GROUP SIZE	PART NO.	DISCHARGE RATINGS				NORMAL VOLTAGE	CONSTRUCTION	TERMINAL	BCI OVERALL DIMENSIONS			NOMINAL WEIGHT
		POWER WATTS PER CELL	DISCHARGE RATING IN AMPERES	FOR 15 MINS. TO 1.67 V.P.C. @ 77° F (25° C)	FOR 15 MINS. TO END VOLTAGE OF 1.67 V.P.C. @ 77° F (25° C)				LENGTH	WIDTH	HEIGHT	
					AMP HOUR @ 20 HOUR RATE TO 1.75 VOLTS PER CELL @ 77° F (25° C)				in (mm)	in (mm)	in (mm)	
U1	250-0474	116	62	1.63	12	MF-AGM/VRLA	1	7.71 (196)	5.18 (132)	7.18 (182)	6.18 (157)	24 (11)
45	250-0475	156	84.3	2.75	12	MF-AGM/VRLA	2	8.84 (225)	5.31 (135)	8.7 (221)	8.14 (207)	38.5 (18)
24	250-0476	262	140	3.95	12	MF-AGM/VRLA	2	10.2 (259)	6.8 (173)	9.14 (232)	8.12 (206)	53 (24)
27	250-0477	304	165	4.61	12	MF-AGM/VRLA	2	12.72 (323)	6.8 (173)	8.68 (220)	8.12 (206)	63 (29)
31	250-0478	350	186	5.25	12	MF-AGM/VRLA	3	12.93 (329)	6.75 (171)	8.75 (222)	8.58 (218)	69 (31)
31(A)	250-0479	475	261	6.66	12	MF-AGM/VRLA	3	13.5 (342)	6.77 (172)	11.25 (286)	11.08 (281)	98 (45)
4D(H)	250-0483	624	338	9.91	12	MF-AGM/VRLA	4	21.73 (552)	8.82 (210)	9.34 (237)	8.74 (222)	129 (59)

MF-AGM/VRLA = Maintenance Free-Absorbed Glass Mat (AGM) Battery. Battery has Flame Arrestor and is low-pressure self sealing
Housed in flame-retardant polypropylene (rated 28 LOI) 12-Volt Monoblocks

(A) = Battery is 2.5 in (63.5 mm) taller and 0.57 in (13 mm) longer than standard Group 31

(H) = Battery has handles

Sealed Valve-Regulated Lead Acid (VRLA) with electrolyte absorbed in separators consisting of a sponge-like mass of matted glass fibers

Preferred for high-rate performance in uninterruptible power supply (UPS) or standby applications

VPC = Volts per Cell

WPC = Watts per Cell. Ratings conform to IEEE-485 Standards

VRLA batteries use recombination reaction to prevent the escape of hydrogen and oxygen gases normally lost in a flooded lead acid battery. They are non-spillable, never need watering and should never be opened



* Note: Availability of UPS batteries are planned for late 2005

AGM batteries have a longer production lead time than regular lead-acid type batteries

UL Recognized Component

Important: Alternator and charger instructions: for 12-volt AGM Batteries charge to 14.4 volts but no more than 14.6 volts at 68° F (20° C)

Valve Regulated AGM Batteries — Terminal Locations

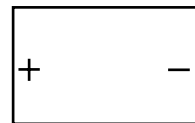
1-BCI Group U1



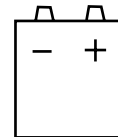
2-BCI Groups 45, 24, 27



3-BCI Group 31



4-BCI Group



VRLA batteries are a UL Recognized Component and are
I.C.C.O., I.M.D.E., I.A.T.A., and D.O.T. Air Transportable Approved.

Terminals

1 = Lead terminal. L shaped. Terminals have square holes.

2 = Lead terminal with brass inserts. 1/4-20 x 0.25 Deep Female Thread.

3 = Lead terminal with brass inserts. Centerline terminals. 1/4-20 x 0.25 Deep Female Thread.

4 = End terminals with brass inserts. 1/4-20 (UNC) Female Thread. Ratings conform to IEEE-485 Standards.

Batteries and Electrical Parts



Digital Battery Analyzer

- Used to test the condition (full state charge, voltage) of 6 and 12 volt batteries quickly and accurately, even when discharged to as low as one volt.
- Tests batteries in the machine or vehicle without disconnecting battery cables.

ITEM	PART NUMBER
Digital Battery Analyzer	177-2330



Battery Load Tester

- Measures voltage and amps for 6, 8, and 12 volt batteries.
- Measures voltage to one-hundredth of a volt and has a 1000 amp load capacity.

ITEM	PART NUMBER
Battery Load Tester	4C-4911

Batteries and Electrical Parts



Battery Voltmeter 4C-6600

- Small digital voltmeter designed to quickly determine state of charge of 6 to 60 Volt batteries on or off the machine.
- Easier and faster than using a hydrometer to measure specific gravity.
- Works on all batteries including sealed maintenance free batteries.
- Bright, red LED display easy to read outdoors and in low light conditions.
- Chart on rear of meter shows battery approximate percent of charge based on battery voltage for 12-Volt batteries (Chart in Operating Manual includes 6, 8, and 12-Volt Batteries).
- No internal batteries to wear out.
- Small enough to carry in pocket or toolbox.
- 4C-6777 Test Lead Kit included with 4C-6600 Voltmeter.

Range	6.0 to 60.0 VDC
Operating temperature range	-22° F to +158° F (-30° C to +70° C)
Accuracy:	
32° F to 158° F (0° C to 70° C)	+0.2 VDC
-22° F to 32° F (-30° C to 0° C)	+0.23 VDC
Input Voltage protection	+100 VDC max.
Power	powered by battery being tested
Current requirement	0.18 Amp
Settling time	3 seconds
Weight	4 oz (0.113 kg)
Size	3.0 in x 3.3 in x 0.8 in (76 mm x 84 mm x 20 mm)
Service part	4C-6777 Test Lead Kit (included with 4C-6600 Voltmeter)

Batteries and Electrical Parts



Coolant and Battery Tester

- Used for checking coolant freezing point and battery charge condition (specific gravity).
- Can also be used to check some types of permanent antifreeze, such as Dowtherm 209 Coolant.
- For use on either hot or cold radiators.

ITEM	PART NUMBER
Coolant and Battery Tester (° F)	1U-7297
Coolant and Battery Tester (° C)	1U-7298



Battery Cable Terminals

ITEM	CABLE SIZE	PART NUMBER
Battery Cable Terminal (A Negative)	365	3S-6050
Battery Cable Terminal (A Negative)	365	9S-6333
Battery Cable Terminal (A Positive)	365	3S-6049
Battery Cable Terminal (A Positive)	365	3S-6051
Battery Cable Terminal (B Negative)	365	9S-5753
Battery Cable Terminal (B Negative)	365	9S-5755
Battery Cable Terminal (B Positive)	365	9S-5752
Battery Cable Terminal (B Positive)	365	9S-5754
Battery Cable Terminal (C 1/2" Hole)	365	1M-4986
Battery Cable Terminal (C 1/2" Hole)	365	1S-7251
Battery Cable Terminal (C 1/2" Hole)	365	5P-2600
Battery Cable Terminal (C 1/2" Hole)	366	3L-7634
Battery Cable Terminal (C 1/4" Hole)	365	030-1709
Battery Cable Terminal (C 1/4" Hole)	365	030-1706
Battery Cable Terminal (C 3/8" Hole)	365	030-1707
Battery Cable Terminal (C 3/8" Hole)	365	1S-7252
Battery Cable Terminal (C 3/8" Hole)	365	035-0425
Battery Cable Terminal (C 3/8" Hole)	366	031-9295
Battery Cable Terminal (C 5/16" Hole)	365	030-1708
Battery Cable Terminal (C 5/16" Hole)	365	030-1705

Batteries and Electrical Parts



Battery Ground Straps

ITEM	LENGTH		GROUND END HOLE		BATTERY END HOLE		PART NUMBER
	(in)	(mm)	(in)	(mm)	(in)	(mm)	
Battery Ground Strap	4.3	108	7/16	11	9/16	14	8M-4963
Battery Ground Strap	5.4	137	5/16	8	3/16	5	8L-8420
Battery Ground Strap	5.5	140	7/16	11	7/16	11	1S-2342
Battery Ground Strap	12.0	305	13/32	10	9/16	14	2L-6716
Battery Ground Strap	12.0	305	17/32	14	13/32	10	4M-7146
Battery Ground Strap	18.0	457	17/32	14	21/32	17	3R-2853



Battery Cable Repair Kit

- For use during cable fabrication and repair.
- For use with heavy 1/0 through 4/0 gauge electrical cables.

KIT PART NUMBER	ITEM	QUANTITY	PART NUMBER
6V-3025	Cable Repair Kit		
	Roto Crimping Tool	1	6V-3021
	Cable Cutter	1	6V-3022
	Box Assembly	1	6V-3023
	Butt Splice (4/0)	2	6V-3020
	Butt Splice (3/0)	3	6V-3019
	Butt Splice (2/0)	4	6V-3017
	Butt Splice (1/0)	3	6V-3018



Battery Charging Posts

- For checking state of charge and charging of stud terminal type batteries.

PART NUMBER	DESCRIPTION
4C-5637	Charging Posts (+ & -) for Group 31 Stud Terminal Batteries
4C-5638	Charging Posts (+ & -) for screw-in Side Terminal Batteries

- Extra Vent Caps for Dry Charged Batteries

PART NUMBER	DESCRIPTION
7N-0060	10 - Vent Caps

Batteries and Electrical Parts



Booster Cables

- Professional quality
- Ensure quick and efficient connections
- Designed for convenience and safety
- Flexi-spring cable guards
- Meets SAEJ1494 specifications

PART NO.	LENGTH		GAUGE	CIR. MIL. COPPER	JACKET ²	AMP CLAMP	SIDE TERMINAL ADAPTERS	WEIGHT	
	(ft)	(m)						(lb)	(kg)
4C-4933	12	3.66	4	32,900	T-94	500	YES	8	3.6
4C-4934 ¹	12	3.66	4	32,900	T-94	500	YES	8	3.6
4C-4935	15	4.572	4	32,900	T-94	500	YES	9	4.1
4C-4936	20	6	4 AWG	41,300	T-94	500	YES	12	5.4
4C-4937	20	6	1 AWG	83,600	T-94	800	NO	17	7.7
4C-4938	15	4.572	1/0 AWG	106,400	T-94	800	NO	16	7.3

¹ Equipped with stop/go light — red L.E.D.s warn operator if polarity is reversed.

² T-94: flexible to -40° F (4° C).



Portable Chargers 4C-4924 and 4C-4925

- Charges all standard and maintenance-free batteries with four charging positions.
- Heavy-duty chrome plated handles
- Fan cooled
- UL and CSA listed for indoor/outdoor use

4C-4924 also features:

- Automatic timer — 90 minute and “hold” position
- AC and DC circuit overload protection
- Patented stop/go light

PART. NO.	UL CONTINUOUS RATINGS (AMPS)	UL CRANKING ASSIST RATE (AMPS)	UL BOOST RATE (AMPS)	AC CORD	DC LEADS	CLAMP RATING	VOLT	WEIGHT	
								(lb)	(kg)
4C-4924	70/60	230	420	6½ ft 16-3	7 ft 4AWG	500A	6/12	38	17.2
4C-4925	40/10/2	132	250	6½ ft 18-3	6 ft 8AWG	200A	6/12	26	11.8

Batteries and Electrical Parts



Emergency Jump Start Receptacle Assemblies

- Mount on the machine to provide a direct electrical connection to the starting motor.
- Available in several cable lengths to suit your particular application.
- For use with 8S-2632 or 9S-3664 Emergency Start Systems.

ITEM	LENGTH		PART NUMBER
	(ft)	(m)	
Emergency Jump Start Receptacle Assembly	1.25	0.380	9S-9015
Emergency Jump Start Receptacle Assembly	1.42	0.460	2G-1830
Emergency Jump Start Receptacle Assembly	4.00	1.220	8S-2633
Emergency Jump Start Receptacle Assembly	5.00	1.520	9S-9016
Emergency Jump Start Receptacle Assembly	6.00	1.820	4N-6580
Emergency Jump Start Receptacle Assembly	7.00	2.130	1P-1250
Emergency Jump Start Receptacle Assembly	9.00	2.680	4N-6579
Emergency Jump Start Receptacle Assembly	10.00	3.050	9S-9312
Emergency Jump Start Receptacle Assembly	12.00	3.660	9D-8647



Starting/Charging Analyzer Group

- Identifies deteriorating starting and charging system components before they fail.
- Contains a 5.5 m cable for testing from the operator's seat.

ITEM	PART NUMBER
Starting/Charging Analyzer Group	6V-2150



Battery Post Brush 1U-9921

- Stiff wire bristles thoroughly clean posts

Batteries and Electrical Parts



Composite Halogen Lights

- Provide longer life and lower operating costs.
- Provide 30 to 35% more light output than conventional lights and maintain full light output over their lifetime.
- Provide easy replacement for existing conventional lights or may be added as additional lamp assemblies.
- Replacement bulbs fit all lamps of the same voltage.
- Standard on all new Cat production machines.

ITEM	SIZE	VOLTAGE	ELECTRICAL CONNECTOR	PART NUMBER	LENS ASSY.	BODY ASSY.	FACE SEAL	BULB
Suspended Flood	3x3	12	Blade Term.	142-8637				9W-0607
Suspended Flood	3x3	12	Pigtail DT (2)	201-1422	202-6611	202-6613	202-6612	9W-0607
Suspended Flood	3x3	12	Pigtail DT (2)	201-1423	202-6614	202-6613	202-6612	9W-0607
Vertical Flood	3x3	12	Blade Term.	168-6410				9W-0607
Surface Flood	3x5	12	Wire w/spade	105-8069				9W-0607
Suspended Flood	3x5	12	Pigtail DT (2)	105-8070	144-5284	144-5744	144-5283	9W-0607
Suspended Flood	3x5	12	Spade Term.	152-8180	155-5354	155-5355		9W-0607
Vertical Flood	3x5	12	Pigtail DT (2)	190-3753	144-5284	144-5744	144-5283	9W-0607
Surface Flood	3x5	24	Wire w/spade	109-7041				9X-3463
Suspended Flood	3x5	24	Pigtail DT (2)	112-9378	144-5284	144-5744	144-5283	9X-3463
Suspended Flood	3x5	24	Pigtail w/rings	117-3468	144-5284	144-5744	144-5283	9X-3463
Suspended Flood	3x5	24	Pigtail DT (2)	164-5499	144-5284	144-5744	144-5283	9X-3463
Vertical Flood	3x5	24	Pigtail DT (2)	135-5549	144-5284	144-5744	144-5283	9X-3463
Suspended Flood	5x5	12	Blade Term.	107-1301	107-1302			9W-0607
Vertical Flood	5x5	12	Screw Term.	9X-7779	9X-4174	9X-3455	9X-4243	9W-0607
Left Hand Flood	5x5	24	Screw Term.	166-8850	9X-4174	9X-3455	9X-4243	9X-3463
Suspended Flood	5x5	24	Screw Term.	106-8964	9X-4174	9X-3455	9X-4243	9X-3463
Suspended Flood	5x5	24	Screw Term.	126-7487	9X-4174	9X-3455	9X-4243	9X-3463
Suspended Flood	5x5	24	Pigtail DT (2)	176-0780	9X-4174	176-7214	9X-4243	9X-3463
Suspended Flood	5x5	24	Pigtail DT (2)	184-1104	9X-4174	176-7214	9X-4243	9X-3463
Vertical Flood	5x5	24	Screw Term.	122-6663	9X-4174	9X-3455	9X-4243	9X-3463
Vertical Flood	5x5	24	Pigtail DT (2)	172-9973	9X-4174	176-7214	9X-4243	9X-3463
Vertical Flood	5x5	24	Screw Term.	9X-1439	9X-4174	9X-3455	9X-4243	9X-3463
Vertical High Beam	5x5	12	Screw Term.	9X-8180	9X-7797	9X-3455	9X-4243	9W-0607
Vertical High Beam	5x5	24	Pigtail DT (2)	171-7214	9X-7797	176-7214	9X-4243	9X-3463
Vertical High Beam	5x5	24	Screw Term.	9X-1440	9X-4175	9X-7848	9X-9865	9X-7849
Vertical High Beam	5x5	24	Screw Term.	9X-1442	9X-4177	9X-7848	9X-9865	9X-7849
Vertical High Beam	5x5	24	Screw Term.	9X-7170	9X-7797	9X-3455	9X-4243	9X-3463
Vertical Low Beam	5x5	12	Screw Term.	9X-8179	9X-7798	9X-3455	9X-4243	9W-0607
Vertical Low Beam	5x5	24	Pigtail DT (2)	171-7213	9X-7798	176-7214	9X-4243	9X-3463
Vertical Low Beam	5x5	24	Screw Term.	9X-1441	9X-4176	9X-7848	9X-9865	9X-7849
Vertical Low Beam	5x5	24	Screw Term.	9X-7169	9X-7798	9X-3455	9X-4243	9X-3463
Vertical Low Beam LH	5x5	24	Screw Term.	9X-1444	9X-4179	9X-7848	9X-9865	9X-7849
Vertical Low Beam RH	5x5	24	Screw Term.	9X-1443	9X-4178	9X-7848	9X-9865	9X-7849
Vertical Stop	5x5	24	Screw Term.	6V-1108	6V-1120	9X-3455	9X-4243	9X-3463
Vertical Turn	5x5	24	Screw Term.	6V-1119	6V-1174	9X-3455	9X-4243	9X-3463

Batteries and Electrical Parts



3 x 3 and 5 x 5 Shock Resistant Halogen Lights

Versatile Shock Resistant Halogen Light offer up to 10-times improvement in bulb life versus non-shock resistant lights contributing to lower operating cost in applications with high vibration and where current bulb life is short.

- 3x3 Wide Range Flood and Long Range Flood light pattern.
- 5x5 Head Light and Flood Light patterns.
- Vertical & Suspended Mounts.
- 24-Volt (65 watt) or 12-Volt (55 watt).
- Integral (mounted in housing) Dt (Deutsch) or pigtail-type DT (Deutsch connectors).
- Environmentally sealed. Caterpillar exclusive design specifications for resistance to water spray, water dunk and vibration.

ITEM	SIZE	V.	CONNECTOR	PART NUMBER	LENS ASSY.	BODY ASSY.	BEZEL	CLAMP	BULB
Vertical Flood	3x3 SR	24	Integral DT	219-6485					
Suspended Flood	3x3 SR	24	Pigtail DT (2)	225-5075					
Vertical Flood	3x3 SR	12	Integral DT	212-9347					
Suspended Flood	3x3 SR	24	Integral DT	219-6487					
Suspended Flood	3x3 SR	24	Integral DT	219-6488					
Left Hand Flood	3x3 SR	12	Integral DT	212-9348					
Right Hand Flood	3x3 SR	12	Integral DT	212-9349					
Suspended High Beam	5x5 SR	24	Integral DT	227-5979					
Suspended Flood	5x5 SR	24	Integral DT	227-5978					
Vertical High Beam	5x5 SR	24	Integral DT	164-7599					
Vertical Low Beam	5x5 SR	24	Integral DT	164-7595					
Vertical Flood	5x5 SR	24	Integral DT	164-7600					
Suspended Low Beam	5x5 SR	24	Integral DT	164-7598					
Suspended Flood	5x5 SR	24	Integral DT	147-0319	158-0248	158-0250	158-0252	188-8849	9X-3463
Vertical Flood	5x5 SR	24	Integral DT	153-2073	158-0248	158-0250	158-0252	188-8849	9X-3463
Vertical Flood	5x5 SR	24	Pigtail DT (2)	162-3294	158-0248	162-5372	158-0252	188-8849	9X-3463
Suspended Flood	5x5 SR	24	Pigtail DT (2)	171-2065	158-0248	162-5372	158-0252	188-8849	9X-3463
Suspended High Beam	5x5 SR	24	Integral DT	157-0305	158-0249	158-0250	158-0252	188-8849	9X-3463
Vertical High Beam	5x5 SR	24	Integral DT	180-1300	158-0249	158-0250	158-0252	188-8849	9X-3463
Suspended High Beam	5x5 SR	24	Pigtail DT (2)	168-1960	158-0249	162-5372	158-0252	188-8849	9X-3463
Vertical High Beam	5x5 SR	24	Pigtail DT (2)	171-2067	158-0249	162-5372	158-0252	188-8849	9X-3463
Suspended Low Beam	5x5 SR	24	Integral DT	161-0908	162-2077	158-0250	158-0252	188-8849	9X-3463
Vertical Low Beam	5x5 SR	24	Integral DT	161-3509	162-2077	158-0250	158-0252	188-8849	9X-3463
Vertical Low Beam	5x5 SR	24	Pigtail DT (2)	168-1953	162-2077	162-5372	158-0252	188-8849	9X-3463
Suspended Low Beam	5x5 SR	24	Pigtail DT (2)	171-2066	162-2077	162-5372	158-0252	188-8849	9X-3463

DT = Deutsch

SR = Shock Resistant

Batteries and Electrical Parts



3 x 3 Value Priced Flood Lights (Many Non-Cat Applications)

- 12-Volt (55 watt) or 24-Volt (65 watt).
- All have swivel capability. Mounting bracket included.
- Integral (mounted in housing) DT (Deutsch) connectors.
- Environmentally sealed. Caterpillar design specifications for resistance to water spray, water dunk, and an 8.57 GRMS vibration test.

ITEM	SIZE	VOLTAGE	CONNECTOR	PART NUMBER	NOTES
Vertical Flood	3x3	24	Integral DT	234-4323	Wide range flood pattern. Bracket is 10x25 mm. Weld stud.
Vertical Flood	3x3	24	Integral DT	234-4324	Long range flood pattern. Bracket is 10x25 mm. Weld stud.
Suspended Flood	3x3	24	Integral DT	234-4325	Wide range flood pattern. Bracket is 10x25 mm. Weld stud.
Suspended Flood	3x3	24	Integral DT	234-4326	Long range flood pattern. Bracket is 10x25 mm. Weld stud.
Vertical Flood	3x3	12	Integral DT	234-4327	Wide range flood pattern. Bracket is 10x25 mm. Weld stud.
Suspended Flood	3x3	12	Integral DT	234-4328	Wide range flood pattern. Bracket is 10x25 mm. Weld stud.
Suspended Flood	3x3	12	Integral DT	234-4329	Long range flood pattern. Bracket is 10x25 mm. Weld stud.



LED Signal Lights

Designed for long life and lower maintenance costs than incandescent signal light bulbs. Provide 500-times the life of incandescent signal light bulbs.

- 24-Volt. LED lights can be retrofitted to any 24-Volt application.
- Pigtail-type DT (Deutsch) connectors.
- Resists High Vibration (use no filaments).
- Environmentally sealed. Circuit protection against voltage spikes.
- Low current draw (0.35 amps maximum) compared to 24-Volt incandescent signal lights (1 amp).
- Designed for resistance to water spray, water dunk, and vibration. Permanently sealed with sonic welded lenses and use potted circuitry.
- SAE or ECE Approvals.

ITEM	SHAPE	COLOR	PART NUMBER
Front Turn and Park	Rectangular	Amber	135-0427
Front Turn and Park	Round	Amber	135-0428
Stop and Tail Light	Rectangular	Red	135-0426
Stop and Tail Light	Round	Red	143-2014
Turn Light	Rectangular	Amber	201-5464
Turn Light	Rectangular	Amber	199-3368
Combination Stop/Tail/Turn	Rectangular 7.4 in (188.6 mm) x 5.5 in (139.6 mm)	Amber	232-6136

Batteries and Electrical Parts



5 x 5 High-Intensity Gas Discharge Lights (HID)

- Life expectancy is 6-10 times the life of halogen lamps.
- HID Light provide 4-times more light than a Halogen lamp.
- They are self-contained with no filament to service.
- Color of light is closer to true daylight and they penetrate dust and fog better than Halogen lamps.
- HID lights have a gradual reduction in light power versus a Halogen burnout.
- Low current draw (3 amps/5 amps at start-up)
- High Intensity Gas Discharge (HID) lights must pass a Caterpillar exclusive design specification test for 12 GRMS vibration resistance.

5 x 5 35-Watt

5x5 35-Watt (3,200 Lumens) Flood Light with Flood, High or Low beam patterns (Usually preferred for OHT applications but can be retrofitted to other machine types).

ITEM	SIZE	VOLTAGE	MOUNTING CONNECTOR	PART NUMBER	NOTES	SERVICE PARTS BULB	SERVICE PARTS LENS
Suspended Flood	5x5	24	Integral DT	210-8422	Flood Pattern	209-6638	229-9969
Vertical Flood	5x5	24	Integral DT	210-8423	Flood Pattern	209-6638	229-9969
Suspended Flood	5x5	24	Integral DT	210-8424	Low Beam Pattern*	209-6638	229-9970
Vertical Flood	5x5	24	Integral DT	210-8425	Low Beam Pattern*	209-6638	229-9970
Suspended Flood	5x5	24	Integral DT	210-8426	High Beam Pattern*	209-6638	229-9971
Vertical Flood	5x5	24	Integral DT	210-8427	High Beam Pattern*	209-6638	229-9971

*Not approved for on-highway use

5 x 5 70-Watt

5x5 70-Watt (6,000 Lumens) Flood Light beam pattern (usually preferred for loader applications).

ITEM	SIZE	VOLTAGE	MOUNTING CONNECTOR	PART NUMBER	NOTES	SERVICE PARTS LENS/REFLECTOR/GAS TUBE
Suspended Flood	5x5	24	Integral DT	247-0293	Flood Pattern	213-4998
Vertical Flood	5x5	24	Integral DT	247-0294	Flood Pattern	213-4998

Batteries and Electrical Parts

HID Lighting Groups — Retrofit Group for Wheel Loaders & Wheel Tractors

PART NUMBER GROUP	POSITION	MODEL	EFFECTIVE SERVICE NUMBER
219-0604	Radiator Guard	992G	7HR1-up; ADZ1-up
		990	7HK1-up
		990 II	BCR1-up; 4FR1-up
		854G 844	AMP1-up; 1JW1-up BBN1-up; 2KZ1-up
223-2037	ROPS Forward	992G	7HR1-up; ADZ1-up
		990	7HK1-up
		990 II	BCR1-up; 4FR1-up
		854G 844	AMP1-up; 1JW1-up BBN1-up; 2KZ1-up



Sealed Beam Electrical Lamps

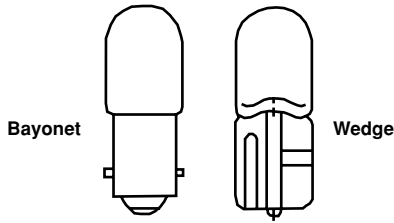
ITEM	VOLTAGE	ANSI NUMBER	WATTAGE	PART NUMBER
Dual Head Lamp	24	4579	80/60	1M-5899
Flood Lamp	6	4078	50	1M-5896
Flood Lamp	6	4219	30	1M-7361
Flood Lamp	12	4478	60	2M-4168
Flood Lamp	24	H4815	90	8T-9886
Flood Lamp	24	4578	60	1M-5898
Flood Lamp	24	4490A	50	110-3239
Flood Lamp (Halogen)	24	H4578	60	9W-1281
Flood Lamp (Screw Terminal)	12	4410	35	2P-7469
Flood Lamp (Screw Terminal)	24	4752	60	6N-7987
Fog Lamp	24	4402A	50	7G-9319
Head Lamp	12	7780	60	2M-4169
Head Lamp	24	4880	60	1M-5928
Head Lamp (Halogen)	24	H4880	60	9W-1280
Head Lamp (Screw Terminal)	24	4750	60	7N-7682
Hi/Lo Lamp	6	4031	45/35	1M-5897
Hi/Lo Lamp	12	4431	45/35	1H-7027
High Head Lamp	24	4814	90	5S-5149
High Head Lamp (Halogen)	24	H4814	90	8T-8753
Low Head Lamp	24	4813	90	5S-5150
Low Head Lamp (Halogen)	24	H4813	90	8T-8752
Spot Lamp	12	4416	30	069-2999
Spot Lamp	24	4505	50	7T-1371
Stop Lamp	24	4752R	60	7X-6220
Stop Lamp	24	4825R	50/18	6N-7982

Batteries and Electrical Parts



Miniature Electrical Lamps

ITEM	VOLTAGE	ANSI NUMBER	PART NUMBER
Miniature Electrical Lamp	6	63	9B-3117
Miniature Electrical Lamp	6	1154	8M-7119
Miniature Electrical Lamp	12	53	9M-6176
Miniature Electrical Lamp	12	53	8M-6176
Miniature Electrical Lamp	12	67	9W-2471
Miniature Electrical Lamp	12	93	1S-4168
Miniature Electrical Lamp	12	194	122-7137
Miniature Electrical Lamp	12	-	084-4375
Miniature Electrical Lamp	12	-	3C-4883
Miniature Electrical Lamp	12	464	107-1983
Miniature Electrical Lamp	12	631	7M-9957
Miniature Electrical Lamp	12	1156	5M-8034
Miniature Electrical Lamp	12	1157	7S-1800
Miniature Electrical Lamp	12	1816	8L-9801
Miniature Electrical Lamp	12	1895	5D-0284
Miniature Electrical Lamp	12	7528	084-4348
Miniature Electrical Lamp	14	194A	118-5075
Miniature Electrical Lamp	24	-	7N-9967
Miniature Electrical Lamp	24	265	7X-2058
Miniature Electrical Lamp	24	307	8J-4863
Miniature Electrical Lamp	24	356	5D-0019
Miniature Electrical Lamp	24	456	5D-1708
Miniature Electrical Lamp	24	459	9D-4185
Miniature Electrical Lamp	24	623	2D-1959
Miniature Electrical Lamp	24	624	7N-1996
Miniature Electrical Lamp	24	657	110-2079
Miniature Electrical Lamp	24	1251	3H-2691
Miniature Electrical Lamp	24	1309	9K-9140
Miniature Electrical Lamp	24	1495	9W-2111
Miniature Electrical Lamp	24	1638	8T-9749
Miniature Electrical Lamp	24	1662	034-2535
Miniature Electrical Lamp	24	1683	7H-2976
Miniature Electrical Lamp	24	1820	8D-1429
Miniature Electrical Lamp	24	1873	7N-5876
Miniature Electrical Lamp	24	2232	7N-9943
Miniature Electrical Lamp	24	2841	115-1748
Miniature Electrical Lamp	24	623R	9S-3335
Miniature Electrical Lamp	24	2661	100-3245
Miniature Electrical Lamp	24	7839B	3E-8825
Miniature Electrical Lamp	24	13498	9X-4493
Miniature Electrical Lamp	24	13499	9X-4492
Miniature Electrical Lamp	28	311	7D-8855
Miniature Electrical Lamp	28	327	3N-5719
Miniature Electrical Lamp	28	757	123-9294



LED Bulbs

Care has to be taken when selecting LED indicators as a replacement for incandescent bulbs. LEDs do not operate like incandescent bulbs and will not work with diagnostic drivers and can possibly glow when powered by electronic controls due to leakage current. LED indicators do not have over-voltage protection circuitry so care has to be taken when used with other electrical devices (i.e. solenoids).

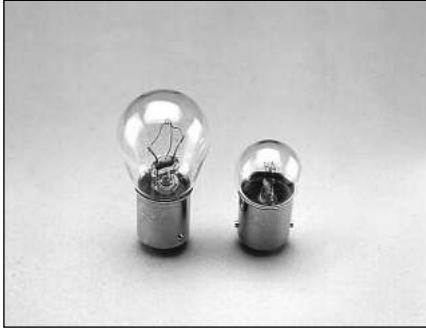
Part Number	Volts	Base Type	Base Size	Bulb Size	Color	MSCD	Polarity	Notes
149-0465	24	Wedge	W-2	T-3 1/4	Green	880	Polar	7-Cluster
158-5083	12	Bayonet	A-1	G-3 1/2	Green	2500	Bi-Polar	Single/Diffuser
153-5042	24	Bayonet	A-1	T-3 1/4	Amber	2000	Bi-Polar	7-Cluster
163-1876	24	Wedge	W-2	T-3 1/4	Red	2500	Bi-Polar	Single/Diffuser
163-1878	24	Wedge	W-2	T-3 1/4	Amber	2000	Bi-Polar	7-Cluster
163-1879	24	Wedge	W-2	T-3 1/4	Green	2000	Bi-Polar	Single/Diffuser
163-1800	24	Wedge	W-2	T-3 1/4	Blue	150	Bi-Polar	Single/Diffuser
163-1882	24	Bayonet	A-1	T-3 1/4	Red	2500	Bi-Polar	Single/Diffuser
163-1883	24	Bayonet	A-1	T-3 1/4	Amber	2000	Bi-Polar	7-Cluster
163-1884	24	Bayonet	A-1	T-3 1/4	Green	2000	Bi-Polar	Single/Diffuser
163-1885	24	Bayonet	A-1	T-3 1/4	Blue	150	Bi-Polar	Single/Diffuser
163-6508	24	Wedge	W-2	T-3 1/4	White	3000	Bi-Polar	7-cluster
163-6509	24	Bayonet	A-1	T-3 1/4	White	3000	Bi-Polar	7-Cluster
165-5674	24	Bi-Pin		T-3 1/4	White	900	Polar	Single
171-1033	24	Bayonet	B-2	G-6	Red	5000	Bi-Polar	7-Cluster
188-3447	8	Wedge	W-2	T-3 1/4	White	1560	Bi-Polar	Single

Batteries and Electrical Parts



Stop/Tail Lamps

ITEM	VOLTAGE	BODY ASSY.	STYLE
Compartment	24	101-0461	Rectangular
Compartment	24	171-5672	Rectangular
Position	24	162-5402	Rectangular
Position	24	9X-1407	Rectangular
Service Indicator	24	107-2282	Rectangular
Service Indicator	24	125-6794	Rectangular
Stop/Tail	12	9X-8196	Rectangular
Stop/Tail	12	092-2992	Rectangular
Stop/Tail	12	3C-6516	Round
Stop/Tail	24	107-4401	Rectangular
Stop/Tail	24	130-3452	Rectangular
Stop/Tail	24	130-3453	Rectangular
Stop/Tail (LED)	24	135-0426	Rectangular
Stop/Tail	24	3E-6467	Rectangular
Stop/Tail	24	9X-1404	Rectangular
Turn	12	3E-9346	Rectangular
Turn	12	9X-8242	Rectangular
Turn	24	107-4402	Rectangular
Turn	24	162-2073	Rectangular
Turn (LED)	24	199-3368	Rectangular
Turn (LED)	24	201-5464	Rectangular
Turn	24	3E-6466	Rectangular
Turn	24	7X-6066	Rectangular
Turn	24	9X-1406	Rectangular
Turn/Park	24	129-5688	Rectangular
Turn/Park (LED)	24	135-0427	Rectangular
Turn/Park	24	3E-7741	Rectangular
Payload	24	8T-9683	Round
Payload	24	8T-9684	Round
Stop/Tail (LED)	24	143-2014	Round
Stop/Tail	24	8C-6207	Round
Stop/Tail	24	7M-7147	Round
Stop/Tail	24	9G-4358	Round
Stop/Tail	24	9G-8556	Round
Turn	24	7T-7818	Round
Turn	24	9D-4073	Round
Turn	24	9G-4357	Round
Turn/Park (LED)	24	135-0428	Round



Dash Lamps

- Allow operators to read gauges at night.
- For use with miniature electrical lamps.

ITEM	VOLTAGE	WIRE LENGTH		BODY ASSY.	BULB
		(in)	(mm)		
Dash Lamp	6	36701	152 - 610	6N-8355	9B-3117
Dash Lamp	12	36701	152 - 610	6N-8355	7M-9957
Dash Lamp	24	36701	152 - 610	6N-8355	3H-2691

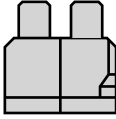
Rotating Beacon and Strobe Lights

- Wide selection of Rotating Beacon and Strobe Lights
- 12-Volt and 24-Volt versions.
- 3-Bolt and Magnetic Bases.

ITEM	VOLTAGE	MOUNTING CONNECTOR	BASE	PART NUMBER
Strobe Light	24	Pigtail DT (2)	3-Bolt	110-7563
Rotating Beacon	12	9R-7942 Plug	Magnetic	128-6985
Rotating Beacon	12	9R-7942 Plug	3-Bolt	130-7580
Strobe Light	12/24	9R-7942 Plug	Magnetic	140-3668
Rotating Beacon	12	179-5434 Plug	3-Bolt	180-3663
Rotating Beacon	12	179-5434 Plug	Magnetic	180-3664
Rotating Beacon	24	9R-7942 Plug	Magnetic	108-1029
Rotating Beacon	24	Pigtail DT (2)	3-Bolt	128-6983
Rotating Beacon	12	179-5434 Plug	Magnetic	215-6665
Rotating Beacon	12		3-Bolt	196-7341
Rotating Beacon	12	Leads, No Plug	3-Bolt	185-7015
Rotating Beacon Amber	24	Pigtail DT (2)	3-Bolt	235-3937

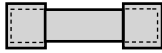
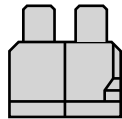
Batteries and Electrical Parts

Fuses

AMPERAGE	MAXIMUM VOLTAGE	FUSE DESC.	PART NUMBER	GRAPHIC
3A	250V	Time Delay Ferrule	9G-3782	
4A	250V	Time Delay Ferrule	9K-1896	
5A	500V	Time Delay Ferrule	5N-0095	
30A	32V	Time Delay Ferrule	6N-9353	
10A	32V	Plug Fuse	9W-1442	
15A	32V	Plug Fuse	9W-1441	
20A	32V	Plug Fuse	9W-1446	
30A	32V	Plug Fuse	8T-9636	
12A	250V	TRON Rectifier	7C-3882	 
15A	130V	TRON Rectifier	3N-2050	
15A	250V	TRON Rectifier	3N-7807	
25A	600V	TRON Rectifier	7L-2760	
50A	600V	TRON Rectifier	7L-2765	
60A	600V	TRON Rectifier	7L-6745	
70A	600V	TRON Rectifier	7L-6750	
400A	150V	TRON Rectifier	039-6987	
50A	30VDC	Stud Mounted	3C-1064	
60A	125V	Stud Mounted	031-2436	
275A	30VDC	Stud Mounted	3C-0524	
300A	250V	Stud Mounted	030-1964	
325A	30VDC	Stud Mounted	3C-1572	
400A	250V	Stud Mounted	030-1696	
450A	250V	Stud Mounted	030-1698	
500A	250V	Stud Mounted	030-1699	
500A	30VDC	Stud Mounted	3C-0516	
600A	250V	Stud Mounted	039-6577	
600A	250V	Stud Mounted	030-1697	
60A	125V	Low Voltage Limiter	090-7012	
300A	125V	Low Voltage Limiter	090-7013	
675A	32V	Low Voltage Limiter	097-4224	
0.75A	250V	Ferrule	7T-0037	
1.25A	250V	Ferrule	034-3128	
1A	250V	Ferrule	8K-4644	
1A	600V	Ferrule	3N-5612	
2A	250V	Ferrule	8D-8724	
2A	250V	Ferrule	039-8989	
3A	32V	Ferrule	8M-0454	
3A	250V	Ferrule	8D-8113	
4A	60V	Ferrule	7N-0472	
4A	32V	Ferrule	8M-0457	
5A	32V	Ferrule	5A-3837	
5A	250V	Ferrule	2S-6024	
5A	600V	Ferrule	5N-5535	

Batteries and Electrical Parts

Fuses

AMPERAGE	MAXIMUM VOLTAGE	FUSE DESC.	PART NUMBER	GRAPHIC
5A	250V	Ferrule	033-3672	
6A	250V	Ferrule	8M-0458	
6A	60V	Ferrule	3T-5802	
6A	250V	Ferrule	8D-9497	
6A	32V	Ferrule	9D-6032	
7.5A	250V	Ferrule	3K-8781	
7.5A	32V	Ferrule	8M-0455	
8A	32V	Ferrule	7D-4975	
10A	250V	Ferrule	9Y-6027	
10A	250V	Ferrule	3K-8782	
14A	32V	Ferrule	3D-4529	
15A	32V	Ferrule	8M-8948	
20A	32V	Ferrule	8M-0456	
25A	32V	Ferrule	3T-4425	
30A	32V	Ferrule	8M-8947	
5A	250VAC	General Purpose	5N-5532	
10A	250VAC	General Purpose	5N-5533	
12A	600V	LIMITRON	9Y-8419	
15A	250VAC	General Purpose	5N-5534	
60A	300VAC	SC Time-Lag	091-8556	
5A	32V	Mini	141-2759	
7.5A	32V	Mini	141-2760	
10A	32V	Mini	113-8490	
15A	32V	Mini	113-8491	
20A	32V	Mini	113-8492	
25A	32V	Mini	113-8493	
30A	32V	Mini	124-3548	
70A	600V	LIMITRON Quick Acting	190-9551	
80A	600V	LIMITRON Quick Acting	190-9558	
110A	600V	LIMITRON Quick Acting	173-5434	
125A	600V	LIMITRON Quick Acting	173-5435	
150A	600V	LIMITRON Quick Acting	190-9563	
175A	600V	LIMITRON Quick Acting	184-4645	
200A	600V	LIMITRON Quick Acting	184-4646	

Batteries and Electrical Parts



Fuse Holders and Puller

ITEM	PART NUMBER
Dashmount Fuse Holder	4K-5122
In-Line Fuse Holder	051-4069
Fuse Block	5K-2849
Fuse Holder	7N-8292
Wire-to-Wire Fuse Holder	3K-8783
Wire-to-Wire Fuse Holder	8D-8719
Fuse Puller	116-7471



Pressure Switches

For use with engine oil pressure sensing or any application requiring setting switches.

ITEM	SWITCHING POINT		CONTACTS AT 0 kPa	PORT FITTING	ELECTRICAL CONNECTOR	PART NUMBER
	(psi)	(kPa)				
Pressure Switch	5.5 ± 3	37.9 ± 21	Open	1/4 NPTF	#8 Screws	3E-2026
Pressure Switch	10.0 ± 3	68.9 ± 21	Open	1/8 NPTF	#8 Screws	107-0611
Pressure Switch	10.0 ± 3	68.9 ± 21	Closed	1/8 NPTF	#8 Screws	107-0616
Pressure Switch	10.0 ± 3	68.9 ± 21	Open	1/4 NPTF	#8 Screws	107-0612
Pressure Switch	10.0 ± 3	68.9 ± 21	Open	9/16 UNF	Sure Seal	6T-4949
Pressure Switch	18.0 ± 3	124.0 ± 21	Open and Closed	9/16 UNF	Sure Seal	6T-6652
Pressure Switch	30.0 ± 4	207.0 ± 28	Open and Closed	9/16 UNF	Sure Seal	6T-6651
Pressure Switch	40.0 ± 4	276.0 ± 28	Open and Closed	9/16 UNF	Sure Seal	6T-6653

Batteries and Electrical Parts



Bulk Electrical Cable and Wire

ITEM	GAUGE	PACKAGE* LENGTH		PART NUMBER
		(ft)	(m)	
Lighting Wire	6	50	15	5P-5675
Lighting Wire	8	50	15	5P-5689
Lighting Wire	10	100	30	5P-5622
Lighting Wire	12	100	30	5P-5621
Lighting Wire	14	100	30	5P-5624
Lighting Wire	16	100	30	5P-5623
Lighting Wire	18	100	30	5P-5677
Starter Cable	Black 00	25	7.62	159-8050
Starter Cable	Black 000	25	7.62	159-8052
Starter Cable	Red 0	25	7.62	159-8047
Starter Cable	Red 00	25	7.62	159-8049
Starter Cable	Red 000	25	7.62	159-8051
Starter Cable	Red 0000	25	7.62	159-8053
Ignition Wire	N/A	25	7.62	5P-6036
Glow Plug Wire	No. 12	25	7.62	5P-6020

* Serviced in increments of their packaged length.



Electrical Terminals

ITEM	SCREW SIZE	WIRE SIZE	PART NUMBER
Blade Terminal	Female	16-14	5P-4571 (30)
Blade Terminal	Male	16-14	4S-1988 (10)
Butt Splices		16-14	136-4877 (15)
Ring Terminal	1/4"	8	2L-8058 (10)
Ring Terminal	1/4"	12-10	2L-8067 (10)
Ring Terminal	1/4"	16-14	2L-8077 (15)
Ring Terminal	3/8"	12-10	2L-8069 (10)
Ring Terminal	3/8"	16-14	2L-8079 (15)
Ring Terminal	1/2"	12-10	2L-8071 (10)
Ring Terminal	No. 10	12-10	2L-8076 (20)
Ring Terminal	No. 10	16-14	2L-8066 (10)
Ring Terminal	No. 8	16-14	2L-8075 (20)

Batteries and Electrical Parts



Electrical Terminal Kit

- Contains 14 different types and sizes of terminals.
- Contains a multi-purpose crimping tool that performs all the steps required to install terminals.
- Eliminates the need for a soldering iron and insulating material.

KIT PART NUMBER	ITEM	QUANTITY	PART NUMBER
140-9944	Terminal Assortment		
	Ring Terminal	10	2L-8058
	Ring Terminal	10	2L-8066
	Ring Terminal	10	2L-8067
	Ring Terminal	10	2L-8069
	Ring Terminal	10	2L-8071
	Ring Terminal	20	2L-8075
	Ring Terminal	20	2L-8076
	Ring Terminal	15	2L-8077
	Ring Terminal	15	2L-8079
	Blade Terminal	10	4S-1988
	Blade Terminal	30	5P-4571
	Crimping Tool	1	9S-9150
	Butt Splice	15	136-4877



Conduits

ITEM	INSIDE DIAMETER		PACKAGE* LENGTH		PART NUMBER
	(in)	(mm)	(ft)	(m)	
Flexible Steel Conduit	0.38	10	25	7.62	5P-3399
Flexible Steel Conduit	0.75	19	10	3.05	5P-6952
Flexible Steel Conduit	1.00	25	10	3.05	5P-6951
Non-Metallic Conduit (Loom / Auto)	0.25	6	100	30.48	5P-5984
Non-Metallic Conduit (Loom / Auto)	0.38	10	50	15.24	5P-5982
Non-Metallic Conduit (Loom / Auto)	0.44	11	25	7.62	5P-5985
Non-Metallic Conduit (Loom / Auto)	0.50	13	50	15.24	5P-5988
Non-Metallic Conduit (Loom / Auto)	0.62	16	25	7.62	5P-5987
Non-Metallic Conduit (Loom / Auto)	0.75	19	25	7.62	5P-5983
Non-Metallic Conduit (Loom / Auto)	1.00	25	10	3.05	5P-5986
Vinyl Covered, Flexible Steel Conduit	0.38	10	25	7.62	5P-0694
Vinyl Covered, Flexible Steel Conduit	0.50	13	50	15.24	5P-0695
Vinyl Covered, Flexible Steel Conduit	0.75	19	10	3.05	5P-0696
Vinyl Covered, Flexible Steel Conduit	1.00	25	10	3.05	5P-1276

* Serviced in increments of their packaged length.

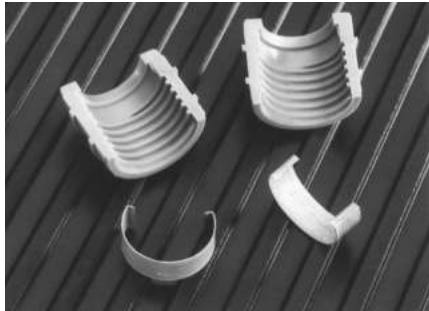
Batteries and Electrical Parts



Wire Protector

ITEM	OUTSIDE DIAMETER		PACKAGE* LENGTH		PART NUMBER
	(in)	(mm)	(ft)	(m)	
Wire Protector	0.25	6	25	7.62	5P-6039

* Serviced in increments of their packaged length.



Electrical Conduit Field Repair Fasteners

- Provide fast and easy electrical system repairs.
- Made of high-impact plastic and locked with a steel spring clip.
- Designed to separate for quick installation or removal.

ITEM	PART NUMBER
Repair Fastener	9S-5324

Batteries and Electrical Parts



Sure-Seal Electrical Connector Kit

- For use in replacing faulty sure-seal connectors or fabricating new wiring harnesses.
- Provides longer service life and superior corrosion resistance.
- Allows for fast, in-field installation.

KIT PART NUMBER	ITEM	QUANTITY	PART NUMBER
6V-3000	Sure-Seal Electrical Connector Kit		
	Crimping Tool	1	6V-3001
	Box Assembly	1	6V-3007
	Socket	100	7N-7779
	Pin	100	7N-7780
	Sealing Plug	50	9G-3695
	Housing	3	7N-7777
	Housing	3	7N-7778
	Housing	3	7N-9738
	Housing	3	7N-9737
	Housing	3	7N-7781
	Housing	3	7N-7782
	Housing	3	7N-8204
	Housing	3	7N-8205
	Housing	1	9G-3672
	Housing	1	9G-3678
	Housing	1	9G-3671
	Housing	1	9G-3677
	Housing	1	9G-3670
	Housing	1	9G-3676
	Housing	1	9G-3669
	Housing	1	9G-3675
	Housing	1	9G-3668
	Housing	1	9G-3674
	Housing	1	9G-3667
	Housing	1	9G-3673
	Insertion Tool	1	6V-3008



Deutsch (DT) Style Connector Service Kit

- Required for field repair of Deutsch (DT) style electrical connectors.

KIT PART NUMBER	ITEM	QUANTITY	PART NUMBER
175-3700	Deutsch (DT) Style Connector Service Kit		
	Wedge Removal Tool	1	147-6456
	Removal Tool	6	151-6320
	Utility Box	1	152-7997
	Seal Plug	30	8T-8737
	Connector Pin	30	9X-3401
	Connector Socket	30	9X-3402
	Connector Pin	30	126-1767
	Connector Socket	30	126-1768
	Receptacle Lock Wedge	10	3E-3365
	Receptacle Lock Wedge	10	3E-3371
	Receptacle Lock Wedge	5	3E-3377
	Receptacle Lock Wedge	5	3E-3383
	Receptacle Lock Wedge	5	3E-3389
	Receptacle Lock Wedge	5	3E-5180
	Receptacle Kit	3	102-8801
	Receptacle Kit	10	102-8802
	Receptacle Kit	5	102-8803
	Receptacle Kit	5	102-8804
	Receptacle Kit	3	102-8805
	Receptacle Kit	3	102-8806
	Connector Plug Kit	3	155-2255
	Plug Lock Wedge	5	155-2258
	Plug Lock Wedge	5	155-2259
	Connector Plug Kit	5	155-2260
	Plug Lock Wedge	10	155-2261
	Plug Lock Wedge	5	155-2262
	Plug Lock Wedge	5	155-2263
	Connector Plug Kit	3	155-2265
	Connector Plug Kit	10	155-2270
	Connector Plug Kit	5	155-2271
	Connector Plug Kit	3	155-2274
	Plug Lock Wedge	10	155-2276

Batteries and Electrical Parts



Field Soldering Iron Group

- For use in soldering electrical connections in the field.
- Designed to be lightweight and easy to use.
- Designed with a temperature regulated tip that provides better control for outdoor usage.
- Designed with an in-line fuse to help prevent damage or overload.
- For use with a 12V vehicle cigarette lighter plug or with a 4C-9024 Portable Battery Pack.

ITEM	PART NUMBER
Field Soldering Iron Group	9U-7560
Solder, 0.5 kg. (1 lb.) Spool	9U-7562



Crimping Tools

ITEM	PART NUMBER
Standard Crimping Tool	9S-9150
Heavy-Duty Crimping Tool	8S-1075
12-18 Gauge Crimping Tool	1U-5804



Voltage Tester 5P-7277

- Used to make quick checks for presence of voltage.
- Indispensable for checking out circuits, relays, bulbs, wires, and switches.
- Designed for voltage range from 12 to 36 Volts.
- Bulb lights brightly when connected to 36 Volts and gets progressively dimmer with lower voltages.
- Encased in rugged, hi-impact plastic housing which is grease and chemical resistant.

Batteries and Electrical Parts



Circuit Tester

- Provides a fast check for continuity in non-energized circuits.
- Shines brightly when connected to zero ohms and progressively dims up to about 10 ohms.
- Includes batteries and bulb.

ITEM	PART NUMBER
Circuit Tester	8T-0500



Spark Plug Firing Indicator

- Provides a simple, effective way to check spark plug voltage.
- Shows voltage intensity, spark plug misfires, faulty coils, and faulty wiring.
- Features a compact size and handy clip for pocket storage.

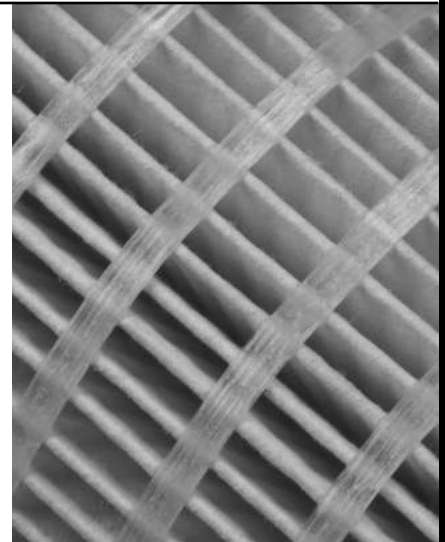
ITEM	PART NUMBER
Firing Indicators	9U-6695



Continuity Testing Light 8T-0500

- Used to test non-energized circuits; lamp comes on brightly when connected across low resistance circuit; no light appears if resistance of circuit exceeds 10 Ohms.
- Designed for rugged field use.
- Comes with light bulb and two “N” size batteries (1.5 Volts) and instruction decals.

ONE SAFE SOURCE | 2006-2007



FILTERS AND FLUIDS

Filters and Fluids – Filters



Cat Filters . . . Engineered protection for every application

- Genuine parts optimized for Cat Equipment.
- Manufactured worldwide to Caterpillar specifications for global quality assurance.
- Complete line of products and services to meet your business needs.

No One Knows Filters Like Your Cat Dealer

Offering a complete line of quality filtration options is not enough for your Cat Dealer. You can also count on the best information and advice when choosing Cat Filters for your application. By comparing your operating conditions and equipment requirements with economic considerations, your Cat Dealer will make sure you get the filtration efficiency for the job, right when you want it.



Cat Standard Efficiency Fluid Filters: Engine Oil and Fuel

- Features standard elements for normal duty filtration.
- Designed to maintain system cleanliness.
- Removes contaminants before the fuel reaches critical components.
- Available for all Cat equipment models; also a quality, economical choice for your other equipment.



Cat Advanced High Efficiency Engine Oil Filters

- Engineered for advanced protection, performance and fuel economy.
- Remove more contaminants, increasing protection of critical oil lubricated engine components.
- Best choice to meet today's fuel contamination challenges, especially in applications with dirty fuel.
- Advanced high efficiency media for improved contamination control and component protection while maintaining change intervals.



Cat Advanced High Efficiency Fuel Filters

- Engineered for maximum protection, performance and fuel economy.
- Removes more contaminants, maximizing protection of injectors, pumps and other critical engine components.
- Best choice to meet today's fuel contamination challenges, especially in applications with dirty fuel.
- Engineered for today's diesel engines with higher injection pressures and closer tolerances.
- High efficiency cellulose/synthetic blend filtration removes more than 98 percent of particles 4 microns or larger.

TECHNOLOGY FEATURES	BENEFITS	RESULTS
Self-lubricating, free-rotating seal	Prevents bunching, eliminates leaks	Prevents contamination for longer engine life
One-piece aluminum base plate	Added reinforcing to prevent ruptures due to cold starts	Protects against leaks and the introduction of contaminants for longer component life
One-piece urethane end caps	Tighter bond with filter media	Eliminates gaps, keeping contaminants out of the engine for added protection, eliminates leak paths
Spiral roving and acrylic beads	Maintains pleat stability and spacing to eliminate bunching; holds dirt in environments with vibration.	Maximum efficiency and capacity; better protection and longer life engine
Non-metallic center tube to prevent collapsing during pressure spikes and cold oil start-ups	30 percent stronger than metal	Eliminates scored bearings and damage to other critical engine components
Resin-impregnated filter media	Custom blended media	Maximizes performance and life
One-piece, heavy gauge canister	Provides structural strength and anti-rupture protection	Durability and structural integrity supports extended intervals
Full range of media options	Engineered to meet specific operating conditions, equipment requirements and economical considerations	Filtration matched to your performance needs

Filters and Fluids – Filters



Cat Fuel Water Separators

- Removes more than 98 % of debris 10 microns and larger - and eliminates virtually all free water and more than 87% emulsified water.
- Minimize the risk of plunger-to-barrel scuffing and seizure in fuel injectors, reducing failure rates.
- Extends the life of engine fuel injectors and the secondary, high efficiency fuel filter.

FEATURES	BENEFITS	RESULTS
Thicker gauge canister	Resist canister cracking and failure in extensive field testing	Longer life and increased protection
Primary fuel filter	Removes more than 98% of debris 10 microns and larger	Minimize the risk of plunger-to-barrel scuffing and seizure in fuel injectors, reducing failure rates
Water separator	Removes virtually all free water and more than 87% of emulsified water from diesel fuel	Extend the life of engine fuel injectors and the secondary, high efficiency fuel filter
Manual screw knob	Drains the collection bowl in less than a minute	Reduces maintenance and downtime
Reusable water collection bowl	Transparent for easy monitoring	Reduces maintenance costs

PART NUMBER	SEAL TYPE	APPLICATION	DIMENSIONS (mm)	NOTES*
1R-0769	Axial	C12 & smaller	108 X 263	For engines with space constraints
1R-0781	Axial	C15-3412	108 X 310	Replaces 129-0373 & 133-5673
1R-0770	Radial	C12 & smaller	108 X 263	For new machines & engines
1R-0771	Radial	C15-3412	108 X 310	For new machines & engines
173-7126	N/A	Water collection bowl	N/A	This bowl fits all of the AFSI FWS part numbers
220-8678	N/A	Bowl/Can Seal	N/A	Replaceable seal for Bowl/Can interface

*For applications requiring the use of a metal bowl as a safety requirement, use 133-5673 with the 170-0062 metal bowl.

Fuel Water Separator Retrofits

ENGINE	PRIME TIME FULL FLOW CONFIGURATION	PRIME TIME PRIME ONLY CONFIGURATION	BASIC CONFIGURATION
Small Engines C12 & smaller	Kit 206-5756	N/A	Base 195-1068 with 1R-0769 (axial seal) FWS or Base 177-9778 with 1R-0770 (radial seal) FWS
Medium Engines C15-C16 3408-3412	Kit 206-5756 The 1R-0770, included in the kit, can be replaced with the 1R-0771 for additional capacity.	N/A	Base 195-1068 with 1R-0781(axial seal) FWS or Base 177-9778 with 1R-0771 (radial seal) FWS
Large Engines 3500 series	N/A	Kit 206-5756	(2) 207-2422 groups, each includes a 200-4139 (axial seal) FWS



Cat Primetime™ Priming Pumps

- Fast. Four to six minutes to fully prime fuel filter.
- Simple. Works with the flip of a switch, eliminating time-consuming manual pumping.
- Efficient. Eliminates the harmful practice of pre-filling filters, preventing non-filtered debris from reaching the injectors.
- Effective. Removes more than 98 percent of debris 10 microns and larger and more than 87 percent of emulsified water, reducing the chance of component damage.
- Affordable. Available as a low-cost retrofit.



Cat Coolant Conditioner Filters

- Helps prevent corrosion, cavitation and erosion.
- Release a premeasured corrosion inhibitor during normal engine use.
- Provides automatic, year-round coolant conditioning.
- Use with Cat DEAC™, or other conventional coolants.

Cat Standard Efficiency Hydraulic and Transmission Filters

- Features standard elements for normal duty filtration.
- Designed to maintain system cleanliness.
- Available for all Cat equipment models; also a quality, economical choice for your other equipment.



Cat Advanced High Efficiency Hydraulic and Transmission Filters

- Special media provides advanced protection against contaminant introduction during maintenance and repair.
- Engineered for effective contamination control.
- Protects hydraulic and drive train systems against accelerated wear.



Cat Ultra High Efficiency Hydraulic and Transmission Filters

- Super-fine synthetic media removes a higher proportion of very small particles and an even higher proportion of larger particles.
- Specially engineered to aid in optimum contamination control efforts.
- Increases system efficiency, eliminate system failures and extend oil life.
- Reduces exposure of abrasives to critical components – extending component wear life.
- Use to clean up systems following repairs and rebuilds.

Filters and Fluids – Filters



Cat Standard Efficiency Radial Seal Air Filters

- Features standard elements for normal duty filtration.
- Designed for larger capacity and longer service life.
- Prevents dirt, soot, sand and other contaminants from entering your system.
- Available for all Cat equipment models.

TECHNOLOGY FEATURES	BENEFITS	RESULTS
Radial seal design	No tools required	Service times and maintenance costs minimized
All-steel adapter ring available to retrofit axial seal cleaners	Quickly bolts into position to accept the new filter design	Easily converts older machines
One-piece molded urethane end caps	Forms a tough, reliable, corrosion-proof bond to paper media	Up to 30 percent more seal contact area; more reliable seal than conventional elements
Densely pleated filter paper	Large media area provides up to 50 percent more capacity	Superior capacity without impeding airflow
Built-in pleat support and positive pleat spacing	Prevents pleat bunching	Ensures optimum filter media surface area
Heavy-duty metal inner and outer wrap	Increases structural strength and durability	Added protection and longer life
Baked-on enamel outer filter wrap	Resists corrosion	Longer component life



Cat Ultra High Efficiency Radial Seal Air Filters

- Features a unique media with a very fine fiber surface layer that improves filtration efficiency early in the life of the elements.
- Super fast efficiency rate eliminates window of opportunity for sharp abrasive particles to damage engine.
- Sustained low restriction leads to improved filter capacity, engine performance and fuel economy.
- Highly effective in today's engines with tight engine tolerances; maintain low emission and high performance requirements.
- Unique design for applications where extremely fine dust particles make up a high percentage of the contaminants in the atmosphere.
- Ideal for applications that have operating conditions with high amounts of exhaust soot, which tends to plug normal filters at low hours.

Cat Ultra High Efficiency Radial Seal Air Filters (cont.)

TECHNOLOGY FEATURES	BENEFITS	RESULTS
High initial filtration efficiency and high overall efficiency	Less dust reaches the engine	Reduced engine wear
Immediate dust cake build-up on the filter surface	Media at maximum efficiency when new; dust cake builds faster	Reduced engine wear, improved fuel economy and lower maintenance costs
Low initial and overall restriction throughout the life of the filter	Engine breathes easier; less power required to pull in air	Improved fuel economy and better engine performance and power
Super capacity	Filter lasts longer with fewer filter changes	Less chance of contamination during service
Exclusive Cat media	Super capacity, long life, maximum protection	Protect engine, reduce wear of hard sharp particles that can score cylinder



Cat Air Service Indicators

- Get maximum life from your Cat air filter.
- Minimize filter changes.
- Reduce filter costs.
- Maximize engine performance.

Comparison of Filter Changes 6000 Service Meter Units (SMU) – Clean Environment

	Number of Changes	
	Without Indicator*	With Indicator
Primary filter	24	18
Secondary filter	8	6
Total	32	24

* Using 250 SMU and 750 MU change periods for primary and secondary elements, respectively.

Filters and Fluids – Filters



Cat Pre-Cleaners

- Protect your engine's air intake system in extremely dusty conditions.
- Constructed of a clear plastic cover for constant visual checks on dirt accumulation.
- For use with both turbocharged and naturally aspirated engines.



Cat Turbine Pre-Cleaners

- Increase air filter life by as much as 700 percent; improved fuel economy, higher performance and lower maintenance costs.
- Built from nylon composite material that is durable, impact and chemical-resistant and lighter in weight than aluminum and steel.
- Ideal for punishing work conditions; works in all weather conditions.
- Expels all types of heavier-than-air debris.
- Recommended for diesel engine applications, including electronically controlled engines.

TECHNOLOGY FEATURES	BENEFITS	RESULTS
Straked, recessed vanes	Direct dust particles out toward the inner wall	Increased efficiency
Curved particle accelerator	Helps reduce turbulence and increase particle injection	Increased efficiency
Dome shape	Offers a smooth air flow transition	Improved performance
Top-suspended particle accelerator	Allows the bearings to spin more freely	Increased efficiency
Inner wall strakes	Help trap and eject particles	Increased efficiency

Efficiency Options Cross Reference

Hydraulic and Transmission Spin-On Filter Options

APPROX. SIZE	THREAD SIZE	STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY	ULTRA HIGH EFFICIENCY	FIRE RESISTANT FLUID
3 X 5	1 ³ / ₁₆ -16	119-4740		211-1026	
	1-12		077-3492		
3 X 6	2-12	4I-3948	184-3931	126-1813	
	M45 X 2		5I-8670		
3 X 9	2-12		130-3212	126-1814	
			4I-3950	126-1814	
			185-0337	126-1814	
4 X 6	1 ³ / ₈ -12	090-2900	144-6691	126-1815	121-9868
	2-16	123-8189			
	1 ¹ / ₈ -16	4T-6915			
		139-4359			
4 X 7	1 ¹ / ₈ -16		093-7521		
	1-12 UNF2B	161-4741			
4 X 8	1 ¹ / ₂ -16		3T-8642		
	³ / ₄ GAS		149-4533		
4 X 9	1 ¹ / ₄ -12		201-0875	223-7810	
	1 ³ / ₈ -12		1G-8878	102-2828	156-0214
4 X 10	1 ¹ / ₈ -16	8C-0292			
5 X 7	1 ¹ / ₂ -16		4T-6788	223-7809	
			9T-8578	144-0832	
			077-3058		
5 X 8	1 ³ / ₄ -12		9T-6636	126-1816	
	1 ¹ / ₂ -16		209-5590		
5 X 11	1 ¹ / ₂ -16	9U-6985	9U-5870	9U-6983	198-3188
		9U-6985	9U-6984	9U-6983	
5 X 12	1 ³ / ₄ -12		108-1153	126-1817	134-3014
			9T-0973	126-1817	134-3014
				225-4118	
	1 ³ / ₈ -12		6E-6408	126-1818	
5 X 14	1 ³ / ₄ -12		152-6902	207-5035	

Filters and Fluids – Filters

Hydraulic and Transmission Cartridge Filter Options

APPROX. SIZE	STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY	ULTRA HIGH EFFICIENCY	FIRE RESISTANT FLUID
1 X 4	109-7293			
2 X 3	094-1053			
2 X 4	109-7289			
2 X 8	7F-7238			
	1G-5459			
	123-8999		117-9900	
2 X 9	9U-5871			
2 X 10	8T-7479			
3 X 4	5J-8879			
	081-4169			
3 X 5	1R-0746		126-1810	
	9J-6472			
	2U-6391			
	094-4421			
	180-0850			
3 X 6	081-2634			
3 X 8	9T-9054		9T-7656	
			7R-4568	
	134-0964		4C-6860	
	185-1379		185-1378	
3 X 9	1R-0728		139-1532	4T-3130
	1R-0729			
	8H-0847			
			8T-3815	
3 X 13	1Q-1688			
3 X 17	159-2967			
4 X 6	9C-8668			
4 X 7	077-3250			
	077-2825			
	077-4375			
	032-9868			
4 X 8	123-2873			
	2C-8410			
	092-2568			
	143-2849			
	159-1427			
	159-1428			

Filters and Fluids – Filters

Hydraulic and Transmission Cartridge Filter Options (cont.)

APPROX. SIZE	STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY	ULTRA HIGH EFFICIENCY	FIRE RESISTANT FLUID
4 X 9	1R-0719	1R-0773	132-8875	4T-3131
		198-7397	139-1533	
			077-5479	
	054-1719			
	086-3940			
	078-0651			
	081-3540			
4 X 11			146-9290	
	093-5369			
4 X 16	163-4032			
4 X 16 (R)	7R-8234			
	077-3569			
4 X 26	6E-5216			
5 X 5	6J-0363			
5 X 6	5J-8877			
5 X 7 (R)	1R-0735	1R-0777	139-1537	104-6931
			138-1253	
5 X 9	1R-0741	1R-0778	132-8876	4T-3132
			139-1534	
	9G-6420			
5 X 10.5			1R-1809	
5 X 11 (R)	1R-0722	1R-0774	139-1536	4T-3134
5 X 24	109-7287		137-7249	
6 X 12	094-3229		139-1539	
			5I-4530	
6 X 16	126-2081	178-9806	126-2131	
6 X 18	094-4412		139-1540	
			4I-9513	
7 X 9	1R-0732	1R-0792	167-2009	4T-3133
7 X 9 (R)		1R-1802		
10 X 22	185-1375	192-1560		

Filters and Fluids – Filters

Air Radial Seal Filter Options

STANDARD EFFICIENCY	ULTRA HIGH EFFICIENCY
6I-2499	132-7164
6I-2501	128-2686
6I-2503	132-7165
6I-0273	122-1674
6I-2505	122-1675
6I-2507	132-7166
6I-2509	132-7167
106-3969	132-7168
123-6855	132-7169
131-8822	134-0685
8N-6309	185-8786
	156-9328*
142-1339	220-0453
142-1340	220-0454
165-1689	220-0455

*950G conical filter for severe applications

Air Axial Seal Filter Options

STANDARD EFFICIENCY	ULTRA HIGH EFFICIENCY
4W-5716	132-7170
4W-5228	132-7171
1W-3637	132-7172
9Y-7662	132-7173

Fuel Spin-On Filter Options

STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY
1R-1740	1R-0750
121-9868	1R-0751
	1R-0753
	1R-0762
1R-1712	1R-0749
1R-1715	1R-0755

Fuel Cartridge Filter Options

STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY
1R-1718	1R-0756
1R-1725	1R-0766
	1R-0790

Engine Oil Spin-On Filter Options

STANDARD EFFICIENCY	ADVANCED HIGH EFFICIENCY
1R-0739	1R-1807
1R-0716	1R-1808

Filter and Fluid Application Guide

For a comprehensive listing of filters and fluids recommended for your Cat equipment and mixed fleets, please consult the 2005 Filter and Fluid Application Guide, PEWJ0074-01.



Cat Filter Literature

MEDIA NUMBER	DESCRIPTION
BROCHURES	
PEDP9127	Keeping It Clean - Wear Index Testing: Cat H.E. Fuel Filters vs. Competition
PPDP9127	Keeping it Clean - Wear Index Testing: Cat H.E. Fuel Filters vs. Competition (Portuguese)
PSDP9127	Keeping It Clean - Wear Index Testing: Cat H.E. Fuel Filters vs. Competition (Spanish)
LEDQ2562	Keeping It Clean - Wear Index Testing: Cat H.E. Fuel Filters vs. Competition, On-Highway
LEDQ6225	The Inside Story
DATA SHEETS	
PPHP5042	Clean Out Filter (Portuguese)
PSHP5042	Clean Out Filter (Spanish)
PEHP6028	Ultra High Efficiency Air Filters
PPHP6028	Ultra High Efficiency Air Filters (Portuguese)
PSHP6028	Ultra High Efficiency Air Filters (Spanish)
PEHP7032	Radial Seal Air Filters
PPHP7032	Radial Seal Air Filters (Portuguese)
PSHP7032	Radial Seal Air Filters (Spanish)
PEHP7045	Fuel Contamination Control (3500 Engines)
PEHP7046	Fuel Contamination Control
PFHP7046	Fuel Contamination Control (French)
PEHP7077	Cat Turbine PreCleaners
PPHP8037	High Efficiency Hydraulic Filters (Portuguese)
PSHP8037	High Efficiency Hydraulic Filters (Spanish)
PEHP8043	Protect Your Cat® Injectors
PEHP8034	Radial Seal Air Filter Conversion Kit for Cat B-Series Backhoe Loaders
PEHP8033	Radial Seal Air Filter Conversion Kit for Cat Hydraulic Excavators
PEHP9013	Air Filter: Service Indicator
PPHP9013	Air Filter: Service Indicator (Portuguese)

MEDIA NUMBER	DESCRIPTION
PSHP9013	Air Filter: Service Indicator (Spanish)
PEHJ0082	Cat Fuel Water Separators and Prime Time Priming Pumps
PPHP9545	Cat Fuel Water Separators (Portuguese)
PSHP9545	Cat Fuel Water Separators (Spanish)
PEHP9551	Cat PrimeTime Priming Pumps and Cat Fuel Water Separators
PPHP9551	Cat PrimeTime Priming Pumps and Cat Fuel Water Separators (Portuguese)
PSHP9551	Cat PrimeTime Priming Pumps and Cat Fuel Water Separators (Spanish)
DISPLAY KITS	
PEWP7027	Air Filter Service Indicator Demo Kit
PEWP9778	Oil Filter Field Kit Cat 1R-0716 Cutaway
CUTTING TOOL	
PEWP9780	Oil Filter In-Store Display
PGWP9780	Oil Filter In-Store Display (German)
PPWP9780	Oil Filter In-Store Display (Portuguese)
PSWP9780	Oil Filter In-Store Display (Spanish)
POSTERS & BANNERS	
LEWQ6359	Get the Inside Story Poster
LEWQ6398	Get the Inside Story Dangler
PEPP9053	Install Confidence, Cat Filters
SALES REFERENCE MATERIALS	
PEGJ0031	NEXUS™ Filter Application Guide
PEGJ0032	NEXUS™ Filter Cross Reference Guide
PEGJ0033	NEXUS™ Filter Product Guide
PERJ0043	NEXUS™ Filter Catalogs on CD
PECP9067	One Safe Source Catalog
PECP9070	One Safe Source Catalog, for Machines Manufactured Before 1981

Filters and Fluids – Filters

MEDIA NUMBER	DESCRIPTION
VIDEOS	
PEVN1736	Air Filter Service Indicator
PSVN1736	Air Filter Service Indicator (Spanish)
PEVN2183	Radial Seal Air Filters
PSVN2183	Radial Seal Air Filters (Spanish)
PSVN2751	AFSI Filter Plant Tour (Spanish)
PEVN4537	Cat High Efficiency Filters
PEVN4925	AFSI Tour (Long Version) and High Efficiency Filters (24:30)
PEVN5037	AFSI Tour (Short Version) and High Efficiency Filters (19:15)
PIVN5037	AFSI Tour, HE Hydraulic Filters, HE Fuel Filters, Ultra HE (Air) Filters (Italian)

Filters and Fluids – Coolants



Cat ELC™

Applications:

- Preferred coolant for Cat machines and engines; used as factory-fill.
- For use in diesel and gasoline engines, including aluminum-based cooling systems.

Features:

- Contains no silicates, phosphates, nitrates or borates.
- Exceeds Cat EC-1 coolant performance requirement.
- Meets the performance requirements of ASTM D4985 and ASTM D6210 for heavy-duty low silicate antifreeze/coolants, and ASTM D3306 for automotive applications.
- Does not form silica gel or hard water scale.

Benefits:

- Improves water pump seal life.
- Requires less disposal volume.
- Does not require liquid or spin-on supplemental coolant additives (SCA's).
- Increases coolant service life from 6,000 to 12,000 service hours over conventional coolant.
- Costs from 40 to 60 percent less than conventional coolant over the life of the product.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cat ELC – 50/50 Premix	1		101-2844
	5		129-2151
	55		101-2845
	Tote		222-1534
	Bulk		156-2653
Embittered	1		238-8648
	5		238-8649
	55		238-8650
		5	205-6611
			215-4245*
		20	215-4246*
		25	205-6612
		200	215-4242*
		210	205-6613
Cat ELC – Concentrate	1		119-5150
	1		238-8647
Embittered		5	205-6615
			215-4244*
Cat ELC Extender	0.250 (1 qt)		119-5152
	1		210-0786
		1	215-4241*
		5	219-3039*

* Brazil

Filters and Fluids – Coolants



Cat DEAC™

Application:

- For use in Cat diesel and gasoline engine cooling systems, and most OEM diesel and gasoline engine cooling systems.

Features:

- Contains conventional coolant technology.
- Fully formulated; does not require initial dose of SCA's at fill-up.
- Requires addition of SCA's or coolant conditioners every 250 hours.

Benefits:

- Helps prevent corrosion and pitting in the cylinder liner and block.
- Protects against freezing, pitting and corrosion.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cat DEAC – Concentrate	1		8C-3684
	55		8C-3686
Embittered	1		238-8651
	55		238-8653
		4	9X-6586
		5	215-4247*
		20	9X-6585
			219-3040*
		200	219-3041*

* Brazil

Filters and Fluids – Coolants



Cat SCA

Application:

- For use with Cat DEAC low silicate heavy-duty diesel engine coolants, including glycol-based antifreezes.

Features:

- Helps stop rust and mineral deposits from forming in the cooling system.

Benefits:

- Protects all metals.
- Protects against cylinder liner cavitation and corrosion.
- Will not affect gaskets or hoses.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cat SCA	0.063 (½ pt)		6V-3542
	0.125 (1 pt)		8T-1589
	0.250 (1 qt)		3P-2044
	5		8C-3680
	55		5P-2907
		1	217-0616
		20	217-0617
		208	217-0618

Filters and Fluids – Coolants



Cat NGECE™

Application:

- Heavy-duty cooling system fluid designed to provide superior protection against pitting, freezing and corrosion in Caterpillar natural gas engines, and most OEM diesel, gasoline and natural gas engines.

Features:

- Meets ASTM D6210 standard for heavy-duty antifreeze/coolants and ASTM D3306 for automotive applications; also meets glassware corrosion test ASTM D1384.
- Ready to use as initial fill or for top off; premixed 50 percent with deionized water.
- Requires no initial addition of SCA's.
- Silicate additives in Cat NGECE for corrosion control also seal minor leaks by combining with oxygen in the atmosphere and creating a solid – silicon dioxide.

Benefits:

- Quick, easy servicing; no need to add water to 50/50 premix.
- Uncompromised performance and life; eliminates risks of improperly mixing coolant concentrate and water.

ITEM	SIZE (gal)	PART NUMBER
Cat NGECE	1	233-9797
	5	233-9798
	55	233-9799
	275	239-3649



Cooling System Cleaner – Standard

Applications:

- Cooling system cleaner; full effect after several weeks in the cooling system.
- Not for use in removing large amounts of oil from cooling systems.

Feature:

- Removes scale or lime deposits.

Benefit:

- Cleans cooling system while the machine works.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cooling System Cleaner – Standard	0.500 (2 qt)		6V-4511
		1.89	185-5121

Filters and Fluids – Coolants



Cooling System Cleaner – Quick Flush

Applications:

- For use as preventative maintenance or as a short-time flush at the time of coolant change.
- Not for use in removing large amounts of oil from cooling systems.

Feature:

- Removes limes, scale and solder bloom.

Benefit:

- Allows for one-step cleaning in just 90 minutes.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cooling System Cleaner – Quick Flush	0.125 (1 pt)		4C-4609
	0.250 (1 qt)		4C-4610
	1		4C-4611
	5		4C-4612
	55		4C-4613
		3.79	185-4630



Coolant Conditioner Test Kit

Application:

- Simple dip test takes just minutes to perform.

Feature:

- Does not require dilution, titration or drops to count.

Benefit:

- Includes a color density change for people with color blindness.

ITEM	NACD PART NUMBER
Coolant Conditioner Test Kit (100 Test Strips, Sample, Bottle, Pipette)	4C-9301
Refill Test Strips (1 Bottle of 50)	4C-9297



ELC™ Dilution Test Kit 223-9116

- Tests reserve alkalinity and contamination.
- Used to test inhibitor level of Cat ELC.
- Simple pass/fail system is indicated by color.
- Disposable — kit contains premeasured chemicals in sample tubes.
- Kit contains materials for 10 tests.

Filters and Fluids – Lubricants



Cat DEO™

Applications:

- Preferred engine oil for Cat machines and engines; used as factory-fill.
- For use in Cat diesel, gasoline and natural gas engines.

Features:

- Reduces piston ring groove deposits to minimize ring sticking.
- Controls soot build-up, which can lead to filter plugging.
- Exceeds API (American Petroleum Institute) test standards.

Benefits:

- Ensures optimum performance in Cat engines due to premium quality and conformance to four Cat proprietary engine tests.
- Improves fuel and oil consumption.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat DEO	10W-30	API CI-4 ECF-1	5		3E-9709
			55		3E-9708
			Bulk		155-6198
				20	3E-9844
				200	130-7055
				208	3E-9707
				1000	148-3539
				Bulk	5P-2586
	15W-40	API CI-4 ECF-1	0.250 (1 qt)		3E-9715
			(4x) 1		248-7518
			5		3E-9713
			55		3E-9712
			Bulk		155-6199
				1	123-4077
				4	3E-9902
				5	3E-9901
				18	3E-9900
				19	3E-9849
				20	3E-9848
				200	3E-9842
				205	3E-9841
				208	3E-9840
				1000	3E-9838
				Bulk	8T-9548

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat DEO	30		0.250 (1 qt)		8C-3702
			(4x) 1		248-7520
			5		8C-3700
			55		8C-3699
			Bulk		155-6201
				5	9X-6178
				20	7X-7840
				200	7X-2887
				205	7X-7839
				208	9X-6462
				1000	9X-6271
				Bulk	8C-3698
	40		0.250 (1 qt)		8C-3707
			1		8C-3706
			5		8C-3705
			55		8C-3704
			Bulk		155-6202
				18	9X-2004
				20	7X-7840
				200	9X-8528
				205	7X-7842
				208	9X-6463
				1000	9X-6272
				Bulk	8C-3703

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat DEO SYN™

Application:

- Synthetic diesel engine oil.

Features:

- Highly resistant to oxidation.
- Provides exceptional cold start operation in temperatures as low as -30° C (-22° F).

Benefits:

- Provides extended drain capability.
- Provides capability to improve fuel economy by 2-5 percent over conventional 15W-40 oils.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat DEO SYN	5W-40	API CF	(4x) 1		248-7519
			55		141-3341
			Bulk		155-6200
				5	224-8665
				20	224-8666
				208	224-8667
				Bulk	142-1417

Cat Arctic DEO SYN™

Applications:

- Synthetic engine oil for Cat and other OEM earthmoving, commercial, marine and on-highway truck diesel engines.
- Preferred engine oil for arctic climates and operation at temperature extremes.

Features:

- Blend of two Group IV synthetic base stocks for easy starting and less wear at low temperatures.
- High temperature lubricity and superior oxidation for reduced wear in high temperature operation.
- Higher solubility capability to keep soot and contaminants in suspension.

Benefits:

- Maximum productivity, long life and low operating costs.
- Extended drain capability when used with S·O·SSM Services and Cat Filters.

ITEM	SAE OIL VISCOSITY	SIZE		PART NUMBER
		(gal)	(L)	
Cat Arctic DEO SYN*	0W-30		20	228-6071
			205	228-6073
			Bulk	5P-5289

* NOTE: This oil is not available for use in all global regions.

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat NGEO™

Application:

- Natural gas engine oil for use in all Cat natural gas engines and any four-cycle, medium-to-high speed gas engine requiring a low ash level product.

Features:

- Provides excellent foam and corrosion resistance.
- Improves piston cleanliness and controls carbon deposits.

Benefits:

- Provides maximum protection against piston scuffing, scoring and piston/cylinder liner wear.
- Provides excellent valve guide face and seat protection.
- Drain recommendations
 - G3400 750 hrs
 - G3500 1000 hrs
 - G3600 5000 hrs

ITEM	SAE OIL VISCOSITY	SIZE (L)	PART NUMBER
Cat NGEO	40	19	121-0327
		200	197-6911
		205	9X-8527
		208	105-3336
		209	166-3491
		1000	159-8156

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

Cat NGE0 EL250™

Application:

- For natural gas engines and other engines requiring low ash oil.

Features:

- Increased detergent concentration and acid neutralizing capability to assure less lacquer and deposits on pistons and valves.
- Control of sludge formulation.
- Outstanding resistance to oil nitration and oxidation.

Benefits:

- Improves ring and liner service life.
- Increased soot-handling capability.
- Protection against valve guide face and seat damage, piston scuffing, scoring and piston/cylinder wear, foam and corrosion damage, and piston carbon deposits.
- Drain recommendations
 - G3400 1000 hrs
 - G3500 1250 hrs
 - G3600 6000 hrs

ITEM	SAE OIL VISCOSITY	SIZE		PART NUMBER
		(gal)	(L)	
Cat NGE0 EL250	30		20	216-9220
			208	216-9223
			Bulk	7X-2425
	40		20	216-9221
			208	216-9224
			Bulk	7X-2426

All part numbers are not available in all global locations.

Cat NGE0 EL350™

Application:

- For natural gas engines and other engines requiring low ash oil.

Features:

- Superior thermal stability.
- Superior resistance to oxidation and nitration.
- Excellent viscosity control.

Benefits:

- Capability for longer drain intervals.
- Reduces carbon and sludge formation.
- Maximum protection against foaming and corrosion resistance, piston scuffing, scoring and piston/cylinder wear, foam and corrosion damage, and piston carbon deposits.
- Drain recommendations
 - G3400 2000 hrs
 - G3500 2000 hrs
 - G3600 8000 hrs

ITEM	SAE OIL VISCOSITY	SIZE		PART NUMBER
		(gal)	(L)	
Cat NGE0 EL350	40	5		225-5082
		55		225-5083
		Bulk		272-3217
			19	275-5709
			20	225-5084
			208	225-5085

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat TDTO™

Applications:

- Preferred transmission and drive train oil for Cat equipment; used as factory-fill.
- For use with all Cat transmission and brake disc materials.

Features:

- Exceeds the Cat TO-4 industry specification and meets Allison C-4 transmission performance requirements.
- Protects against scoring and pitting of gear teeth and bearings.

Benefits:

- Increases load carrying capacity of clutches and eliminates brake chatter.
- Provides maximum friction material life in power-shift transmissions and wet brakes.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat TDTO	10W	Cat TO-4	5		8T-9568
			55		8T-9569
			Bulk		155-6212
				5	100-7019
				19	145-0995
				20	7X-7852
				25	9X-8525
				200	112-2866
				205	7X-7851
				208	103-2528
				209	123-3104
				1000	166-0393
				Bulk	3P-0659
	30	Cat TO-4	(4x) 1		248-7521
			5		8T-9572
			55		8T-9573
			Bulk		155-6213
				5	9X-6467
				18	9X-2010
				19	9X-8469
				20	7X-7855
				200	7X-2888
				205	7X-7854
				208	9X-6466
				1000	7X-7611
				Bulk	2P-9869

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat TDTO (cont.)	50	Cat TO-4	5		8T-9576
			55		8T-9577
			Bulk		155-6214
				5	9X-8443
				18	9X-2012
				19	9X-8531
				20	7X-7858
				200	9X-8530
				205	7X-7857
				208	3E-9478
				1000	7X-7612
				Bulk	5P-1228
Cat Arctic TDTO*	0W-20	Cat TO-4		20	228-6069
				205	228-6070

* Cat Arctic TDTO is not available in all global regions.



Cat TDTO-TMS™

Application:

- Transmission and drive train oil for use in all seasons.

Feature:

- Operates over a wider temperature range than standard TDTO.

Benefits:

- Improves transmission performance in cold weather.
- Provides extended drain capability.
- Compatible for use in multiple compartments.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat TDTO-TMS	Multi-Viscosity	Cat TO-4M	5		154-0195
			55		154-0194
			Bulk		154-0192
				20	154-0196
				208	154-0197
				Bulk	154-0193

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat MTO

Application:

- For use in specified Cat components and systems, such as Backhoe Loader Rear Axles, and Compactors CP563 and CS563 Rear Axles.

Features:

- Meets Ford spec M2C134 D/C.
- Enhanced shear stability in field service and extreme-pressure wear protection.
- Optimized low-temperature performance.

Benefits:

- Provides considerable improvement in wet brake control.
- Optimized wear protection of gears, pumps and hydraulic valves.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat MTO	10W-30	Ford M2C134D/C, John Deere J20A/C, Case MS1205, MS1207	5		105-3335
			55		105-3334
			Bulk		155-6218
				5	172-6894
				18	135-3189
				19	112-9183
				20	109-4395
				200	126-2700
				205	138-4271
				208	120-5286
				Bulk	105-3333

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat FDAO™

Applications:

- Preferred final drive and axle oil for Cat machines; used as factory-fill for all Cat off-highway trucks and D6R-D11R tractor final drives.
- Not to be used in compartments which contain brake or friction materials (unless specified in the Operational & Maintenance Manual; not to be used in compartments in which GL-5 gear oils are required).

Features:

- Specially formulated for the final drives and differentials of Cat off-highway trucks, D6-D11 tractors and selected machine models.
- Designed for protection of highly loaded gears and bearings.

Benefit:

- Provides greater protection against pitting and scoring of gear teeth and bearings than transmission and drive train oil.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat FDAO	60	Cat FD-1	5		184-6022
			55		184-6021
			Bulk		184-6020
				18	206-5210
				20	184-8055
				200	198-7672
				205	201-9855
				208	184-8056
				1000	221-3445
				1200	202-9753
				Bulk	184-8054

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat FDAO SYN™

Applications:

- Preferred synthetic final drive and axle oil for Cat machines.
- For off-highway trucks and track-type tractors subjected to severe operating conditions in which mineral oil-based final drive lubricants experience high rates of oxidation and shorter life.
- Not for use in compartments in which GL-5 gear oils are required; not for use in compartments that contain brake or friction materials.

Features:

- Reduces contact fatigue.
- Protects against rust and copper corrosion.
- Minimizes foaming.

Benefits:

- Provides extended life capability when S·O·S Services is used at 500 hour intervals.
- Extended gear and bearing life.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat FDAO SYN	Multi-Viscosity	Cat FD-1	5		208-2390
			55		198-7450
				18	206-5211
				208	206-5212

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat HYDO™

Applications:

- Preferred hydraulic oil for Cat machines; used as factory-fill oil.
- For use in all hydraulic systems and hydrostatic transmissions.

Features:

- Additive system contains superior metallic detergents, rust inhibitors, antiwear agents and defoamants.
- Exceeds minimum zinc additive requirement needed for lubrication of pumps, motors and valves.

Benefits:

- Disperses water in the hydraulic oils, preventing water damage to pumps, motors and valves.
- Provides maximum protection against mechanical wear, low temperature rusting and corrosive wear.
- 4000 hour drain recommendation in most models and applications when combined with S-O-S Services.

ITEM	SAE OIL VISCOSITY	SIZE		PART NUMBER
		(gal)	(L)	
Cat HYDO	10W	(4x) 1		248-7522
		5		8T-9580
		55		8T-9581
		Bulk		155-6216
			5	9X-6171
			18	9X-2014
			19	9X-8533
			20	7X-7861
			60	121-4044
			200	9X-8532
			205	7X-7860
			208	9X-6468
			1000	7X-7613
			Bulk	2P-9063
	30		18	100-7017
			20	127-5454
			200	122-6627
			208	127-5453
			Bulk	231-3801

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat GO

Applications:

- For use in the vibrator drum of soil compactors.
- For use in manual transmissions, axles, final drives and systems requiring API GL-5 oil.

Features:

- Protects against rust and corrosion.
- Protects against scoring and pitting of gear teeth and rolling element bearings.
- Includes EP “Extreme Pressure” additive.

Benefit:

- Provides excellent stability under high temperatures and superior performance under low temperature.

ITEM	SAE OIL VISCOSITY	API/OEM SPECIFICATION	SIZE		PART NUMBER
			(gal)	(L)	
Cat GO	80W-90	GL-5	5		8T-9582
			15		8C-7398
			30		8T-9583
			55		8T-9584
			Bulk		155-6220
				5	9X-6470
				20	7X-7867
				60	7X-7887
				208	9X-6469
				1000	119-5129
				1200	8C-9927
				Bulk	2P-9863
	85W-140	GL-5	5		9X-6185
				4	7X-7618
				18	133-9643
				19	9X-8535
				20	7X-7617
				50	3E-8326
				200	205-4312
				205	7X-7616
				208	161-1246
				209	133-9644
				1000	7X-7615
				Bulk	7X-7614

All part numbers are not available in all global locations.



Cat Synthetic GO

Applications:

- Synthetic gear oil for specified Cat direct drive transmissions, differentials, final drives, and sealed and lubricated track joints.
- Recommended for all systems permitting the use of GL-5 multi-purpose type gear oil.

Features:

- Good foam resistance.
- Compatibility with non-silicone seals and gaskets.
- Excellent chemical and thermal stability.

Benefits:

- Uninterrupted performance under broad temperature variations.
- Excellent protection against wearing and scoring caused by high speed and heavy gear loads.
- Superior protection against rusting, staining and corrosion.

ITEM	SAE OIL VISCOSITY	SIZE		PART NUMBER
		(gal)	(L)	
Cat Synthetic GO	75W-140	5		242-3466
		55		242-3467
			Bulk	8C-3400
Cat Arctic GO	75W-90	5		8C-3688
		55		8C-3747
		Bulk		155-6222
			Bulk	5P-7040

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants



Cat Backhoe Loader Brake Oil Additive

Application:

- For the rear axle housing of Cat backhoe loaders; do not use in any other axle, brake or hydraulic system.

Benefit:

- Reduces noise and chatter experienced by some Cat backhoe loaders.

ITEM	SIZE		PART NUMBER
	(gal)	(L)	
Cat Backhoe Loader Brake Oil Additive	0.250 (1 qt)		197-0017
		Bulk	9X-2037
Cat Hydraulic Oil Additive	0.250 (1 qt)		1U-9891
		Bulk	9X-2037

All part numbers are not available in all global locations.

Lubricant Application Guide

Notice:

Use the “Oil Viscosities” and “Oil Type and Classification” columns when determining the recommended oil for a machine compartment.

Read ALL footnotes pertaining to the compartment or system in question. The footnotes are a key part of this guide.

Notes:

- Refer to SEBU6250 or the appropriate Operations & Maintenance Manual for complete application information.
- Only use the oil type and classification that is recommended for the various machine compartments.
- Some machine compartments allow the use of more than one oil type. For the best results, do not mix oil types.
- Different oil brands may use different additive packages to meet the various machine compartment performance classification/specification recommendations. For best results, do not mix oil brands.
- Supplemental heat is recommended when below the minimum recommended ambient temperature.
- Oil availability will vary by region, including quality, type, and classification.

COMPARTMENT OR SYSTEM	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Final Drive (Differential Gearboxes) Including Oval Track-Type Tractors, D5M, D6M and 561M, Track Type Hydraulic Excavators, Motor Grader Tandem Drives Except for the following machines (not all inclusive): Off-Highway Trucks, Mini Hydraulic Excavators, Small Wheel Loaders, Medium Wheel Loaders, Large Wheel Loaders, Articulated Trucks, Steel Tracked Track-Type Tractors with Elevated Final Drives (except the D5M and D6M), Wheel Tractor Scrapers	Cat Arctic TDTO	SAE 0W-20	-40	0	-40	32
	Cat TDTO	SAE 10W	-30	0	-22	32
	Cat TDTO	SAE 30	-25	25	-13	77
	Cat TDTO	SAE 50	-15	50	5	122
	Cat TDTO-TMS		-30	25	-22	77
Hoist (Ejector), Steering and Brake System for E Series II Articulated Trucks, 700 Series Articulated Trucks Hoist, Torque Converter, and Brake System for Off-Highway Trucks Except for: 793C Torque Converter ⁽¹⁾ 797 Torque Converter ⁽¹⁾	Cat Arctic TDTO	SAE 0W-20	-40	40	-40	104
	Cat TDTO	SAE 10W	-20	50	-4	122
Hoist, Torque Converter, and Brake System for AD45, AE40 Underground Articulated Trucks Hoist, Steering and Brake System for AD55 Underground Articulated Trucks	Cat Arctic TDTO	SAE 0W-20	-40	40	-40	104
	Cat TDTO	SAE 10W	-20	50	-4	122
	Cat TDTO	SAE 30	-15	50	5	122
Differential, Front Wheels and Final Drives for Off-Highway Trucks	Cat FDAO	SAE 60 ⁽²⁾	⁽²⁾	50	⁽²⁾	122
Differentials and Final Drives for E Series II Articulated Trucks, 700 Series Articulated Trucks	Cat Arctic TDTO	SAE 0W-20	-40	-10	-40	14
	Cat TDTO	SAE 50 ⁽⁴⁾	-15	40	5	104
Output Transfer Gear for E Series II Articulated Trucks, 700 Series Articulated Trucks	Cat Arctic TDTO	SAE 0W-20	-40	-10	-40	14
	Cat TDTO	SAE 30	-20	50	-4	122
Differentials and Final Drives for AD45, AD55 and AE40 Underground Articulated Trucks	Cat TDTO	SAE 50 ⁽⁵⁾	-10	32	14	90
Non-Driven Scraper Wheels	Cat TDTO	SAE 50 ⁽⁴⁾	⁽⁴⁾	32	⁽⁴⁾	90

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

COMPARTMENT OR SYSTEM (cont.)	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Direct Drive Transmissions for Pavement Profilers, Differentials and Final Drives for Wheel Tractor-Scrapers, Auger and Elevator Speed Reducers, Wheel Type Excavators, Mini Hydraulic Excavators, certain Backhoe Loaders, Pavement Profilers, certain Articulated Trucks (except for E Series II Articulated Trucks, and AD45, AE40 and AD55 Underground Articulated Trucks)	Cat Synthetic GO ⁽⁶⁾	SAE 75W-140	-30	45	-22	113
	Cat GO ⁽⁶⁾	SAE 80W-90	-20	40	-4	104
	Cat GO ⁽⁶⁾	SAE 85W-140	-10	50	14	122

⁽¹⁾ The 793C and 797 Off-Highway Truck torque converters have a common sump with the transmission. By default, the 793C and 797 torque converters will use the same fluid recommendations as the transmission.

⁽²⁾ Cat FDAO SAE 60 is preferred in most applications, particularly continuous operation. [If the ambient temperature is below -10° C (14° F), warm up the oil prior to operation. The oil must be maintained to a temperature above -10° C (14° F) during operation. If the ambient temperature is below -10° C (14° F), perform the procedures in the OMM, "Differential Warm-up and Break-in" prior to operation. If the ambient temperature is below -25° C (-13° F), consult your Caterpillar dealer for instructions. Failure to warm up the oil prior to operation will cause damage to the machine.]

⁽³⁾ Do NOT use when the typical daily maximum ambient temperature is above -10° C (14° F).

⁽⁴⁾ Cat TDTO SAE 50 is preferred in most applications, particularly in continuous operation. [If the ambient temperature is below -15° C (5° F), warm up the oil prior to operation. The oil must be maintained to a temperature above -15° C (5° F) during operation. If the ambient temperature is -15° C (5° F) or lower, perform the procedures in the OMM, "Differential Warm-up and Break-in" prior to operation. If the ambient temperature is below -25° C (-13° F), consult your Caterpillar dealer for instructions. Failure to warm up the oil prior to operation will cause damage to the machine.]

⁽⁵⁾ If the ambient temperature is below -15° C (5° F), warm up the oil prior to operation. The oil must be maintained to a temperature above -15° C (5° F) during operation. If the ambient temperature is -15° C (5° F) or lower perform the procedures in the OMM, "Differential Warm-up and Break-in" prior to operation. Failure to warm up the oil prior to operation will cause damage to the machine.

⁽⁶⁾ Certain Wheel Type Excavators require the addition of Caterpillar Limited Slip (LS) additive. Refer to the machine's Operation and Maintenance Manual.

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

COMPARTMENT OR SYSTEM	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Engine Crankcase for all 3500 Series and smaller diesel engines and Splitter Box (Pump Drive Gearbox) for TTL	Cat Arctic DEO SYN	SAE 0W-30	-40	30	-40	86
	DEO SYN	SAE 5W-40	-30	50	-22	122
	Cat DEO	SAE 10W-30 ⁽⁸⁾	-18	40	0	104
	Cat DEO	SAE 15W-40	-9.5	50	15	122
Power Shift, Manual Transmissions, and Winch Gear Case (including Track-Type Tractors) Except for: Off-Highway Trucks and Articulated Trucks	Cat Arctic TDTO	SAE 0W-20	-40	10	-40	50
	Cat TDTO	SAE 10W	-20	10	-4	50
	Cat TDTO	SAE 30 ⁽¹⁾	0	35	32	95
	Cat TDTO	SAE 50 ^{(1) (2)}	10	50	50	122
	Cat TDTO-TMS ⁽¹⁾		-20	43	-4	110
Power Shift Transmissions in Off-Highway Trucks and Articulated Trucks Except for: 768C, 769C, 771C, 768D, 769D, 771D and 797 Off-Highway Trucks and Except for 700 Series and D400E II Articulated Trucks	Cat Arctic TDTO	SAE 0W-20	-40	10	-40	50
	Cat TDTO	SAE 10W	-20	10	-4	50
	Cat TDTO	SAE 30	0	50	32	122
	Cat TDTO-TMS		-10	50	14	122
Power Shift Transmission in 797 Off-Highway Truck	Cat TDTO	SAE 30	⁽³⁾	50	⁽³⁾	122
Power Shift Transmission in 700 Series and D400E II Articulated Trucks and the following Off-Highway Trucks: 768C, 769C, 771C, 768D, 769D and 771D	Cat Arctic TDTO	SAE 0W-20	-40	22	-40	72
	Cat TDTO	SAE 10W	-20	22	-4	72
	Cat TDTO	SAE 30	10	50	50	122
	Cat TDTO-TMS		10	50	50	122
Hydrostatic Transmission Except for: Challenger C35, C45 and C55 ⁽⁴⁾ Pneumatic Compactors PS-150B, PS-200B, PS360B and 360C ⁽⁵⁾	Cat Arctic TDTO	SAE 0W-20	-40	40	-40	104
	Cat Arctic DEO SYN	SAE 0W-30	-40	40	-40	104
	Cat DEO SYN	SAE 5W-40	-30	40	-22	104
	Cat HYDO Cat TDTO	SAE 10W	-20	40	-4	104
	Cat DEO	SAE 10W-30	-20	40	-4	104
	Cat DEO	SAE 15W-40	-15	50	5	122
	Cat MTO		-25	40	-13	104
	Cat TDTO-TMS		-20	50	-4	122
Hydraulic Systems, Hydraulic Excavator Swing Motor and Travel Motor Systems, Hydraulic Hammers ⁽⁶⁾, Off-Highway Truck Steering Systems ⁽⁷⁾, Except for the following machines: E Series II Articulated Trucks, 700 Series Articulated Trucks, Challenger Tractors ⁽⁴⁾ , Pneumatic Compactors PS-150B, PS-200B, PS360B and PS360C ⁽⁵⁾	Cat Arctic TDTO	SAE 0W-20	-40	40	-40	104
	Cat Arctic DEO SYN	SAE 0W-30	-40	40	-40	104
	Cat DEO SYN	SAE 5W-40	-30	40	-22	104
	Cat HYDO Cat TDTO	SAE 10W	-20	40	-4	104
	Cat TDTO	SAE 30	10	50	50	122
	Cat DEO	SAE 10W-30	-20	40	-4	104
	Cat DEO	SAE 15W-40	-15	50	5	122
	Cat MTO		-25	40	-13	104
	Cat TDTO-TMS		-20	50	-4	122
	Cat BIO HYDO (HEES)		-40	-43	-40	110
	Cat HYDO	SAE 30	10	50	50	122

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

COMPARTMENT OR SYSTEM (cont.)	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Equalizer Bar End, Pin Joint, Bogie Cartridge Pins, Track Pins, and Motor Grader Circle Drives	Cat Synthetic GO	SAE 75W-140	-30	45	-22	113
	Cat GO	SAE 80W-90	-20	40	-4	104
	Cat GO	SAE 85W-140	-10	50	14	122
Track Roller Frame Recoil Spring and Pivot Shaft Bearings	Cat Arctic TDTO	SAE 0W-20	-40	0	-40	32
	Cat TDTO	SAE 10W	-30	0	-22	32
	Cat TDTO	SAE 30	-20	25	-4	77
	Cat TDTO	SAE 50	0	50	32	122
	Cat TDTO-TMS		-25	25	-13	77
Track Idlers and Track Rollers, Wheel Tractor-Scrapers Auger Lower Bearings and Elevator Lower Rollers	Cat DEO	SAE 30	-20	25	-4	77
	Cat DEO	SAE 40	-10	40	14	104
	Cat DEO SYN	SAE 5W-40	-35	40	-31	104

⁽¹⁾ Except for the hydraulic drive winch gear case. Use SAE 30 viscosity grade for 0° C (32° F) to 43° C (110° F) or TMS for -20° C (-4° F) to 50° C (122° F).

⁽²⁾ Do not use SAE 50 viscosity grade oil in ICM controlled transmissions. Do not use SAE 50 viscosity grade oil for the hydraulic drive winch case.

⁽³⁾ SAE 30 viscosity grade TDTO oil is required for all ambient temperatures in the Transmission/Torque Converter compartment of the 797 Off-Highway Truck.

The 797 Transmission will not shift beyond first gear until the oil warms to greater than 40° C (104° F).

⁽⁴⁾ Challenger Tractor hydraulic systems share a common sump with the farm implements that they hook up to. Use Cat MTO.

⁽⁵⁾ Some of the PS-150B, PS-200B and PS-360B pneumatic compactors hydrostatic drive/hydraulic systems require TDTO-TMS (Transmission Multi-Season).

Refer to the machine Operation & Maintenance Manual for hydrostatic transmission oil requirements. The PS-150C and PS-360C hydrostatic drive/hydraulic systems require TDTO-TMS.

⁽⁶⁾ In cases where hammer utilization is above 10 percent, higher viscosity oil is recommended. Cat TDTO-TMS or Cat DEO 15W-40 are recommended for high severity applications and/or for high ambient temperature operation. Refer to the Operation and Maintenance Manual for the Hammer for further information. SAE 0W- and SAE 5W- viscosity grade oil is not acceptable for use in Hydraulic Hammers.

⁽⁷⁾ Off-Highway (OHT) Steering Systems only, do not use this table section for other OHT compartments.

⁽⁸⁾ SAE 10W-30 is the preferred viscosity grade for the 3116, 3126, C7, C-9 and C9 diesel engines when the ambient temperature is above -18° C (0° F) and below 40° C (104° F).

NOTICE: Cat FDAO (SAE 60) is recommended for maximum component life for the final drive assemblies.							
COMPARTMENT OR SYSTEM	APPLICATION	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Final Drives for: Large Track-Type Tractors, Pipelayers, and Track Skidders (Steel Tracked Machines with Elevated Final Drives except for the D5M, D6M and 561M)	Moderate or Intermittent Usage	Cat FDAO ⁽¹⁾	SAE 60	-7	50	19	122
		Cat TDTO ⁽¹⁾	SAE 50	-15	32	5	90
		Cat TDTO	SAE 30	-25	15	-13	59
		Cat TDTO-TMS		-35	15	-31	59
	Severe or Continuous Usage (Multiple Shifts/Day)	Cat FDAO ⁽¹⁾	SAE 60	-25 ⁽²⁾	50	-13 ⁽²⁾	122
		Cat TDTO	SAE 50	-33 ⁽²⁾	14	-27 ⁽²⁾	58
		Cat TDTO	SAE 30	-40 ⁽²⁾	0	-40 ⁽²⁾	32
		Cat TDTO-TMS		-40 ⁽²⁾	0	-40 ⁽²⁾	32

⁽¹⁾ Cat FDAO is the preferred oil type to maximize gear and bearing life. Do not use FDAO in compartments containing clutches and brakes. TDTO, TDTO-TMS must be used in any compartment containing friction material.

⁽²⁾ WARM-UP required. Exercise the final drives for several minutes with the engine at partial throttle in order to warm up the oil prior to production operation.

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

COMPARTMENT OR SYSTEM	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Drive Axles for: Small (910-928) and Medium (938-980) Wheel Loaders and Dozers (814, 824), IT 12-IT62 Machines, Medium Compactors (815-826), Wheel Log skidders (515-545) and Wheel Feller Bunchers (533, 543)	Cat Arctic TDTO	SAE 0W-20	-40	0	-40	32
	Cat TDTO	SAE 10W	-25	15	-13	59
	Cat TDTO	SAE 30	-20	43	-4	110
	Cat TDTO	SAE 50 ⁽¹⁾	10	50	50	122
	Cat TDTO-TMS		-30	43	-22	110
Drive Axles for: Large Wheel Loaders (988-992) and Dozers (834-854), and Large Compactors (836)	Cat Arctic TDTO	SAE 0W-20	-40	-10	-40	14
	Cat TDTO	SAE 10W	-25	0	-13	32
	Cat TDTO	SAE 30	-20	20	-4	68
	Cat TDTO	SAE 50	-10	50	14	122
	Cat TDTO-TMS		-25	22	-13	72
Drive Axles for: 994 Wheel Loaders	Cat TDTO	SAE 10W	-25	0	-13	32
	Cat TDTO	SAE 30	-20	20	-4	68
	Cat TDTO	SAE 50	-10	43	14	110
	Cat TDTO-TMS		-25	22	-13	72
Drive Axles for: Load Haul Dumps (R2900 ⁽²⁾ , R1300, R1600, R1700G)	Cat TDTO	SAE 30	-20	20	-4	68
	Cat TDTO	SAE 50	-10	43	14	110
	Cat TDTO-TMS		-25	22	-13	72

⁽¹⁾ Cannot be used in wheel loaders or tractors with axle oil cooling except 966G and 972G.

⁽²⁾ Use SAE 50 if equipped with axle oil cooling.

All part numbers are not available in all global locations.

Filters and Fluids – Lubricants

COMPARTMENT OR SYSTEM	OIL TYPE	OIL VISCOSITIES	°C MIN	°C MAX	°F MIN	°F MAX
Rear Axle of the Backhoe Loader ⁽¹⁾	Cat MTO		-25	40	-13	104
Implement Steering, Hydraulic Systems and Steering Control Mechanisms for Challenger Tractors	Cat MTO		-25	40	-13	104
Vibratory Compactor Drum Bearings	Cat Synthetic GO	SAE 75W-140	-30	45	-22	113
	Cat GO	SAE 80W-90	-20	20	-4	68
	Cat GO	SAE 85W-140	-5	50	23	122
	4C-6767 Synthetic Oil ⁽²⁾		-20	50	-4	122
Starting Engine	Cat Arctic DEO SYN	SAE 0W-30	-40	40	-40	104
	Cat DEO SYN	5W-40	-30	40	-22	104
Starting Engine Transmission	Cat Arctic TDTO	SAE 0W-20	-40	10	-40	50
	Cat Arctic DEO SYN	SAE 0W-30	-40	10	-40	50
	Cat TDTO, Cat HYDO	SAE 10W	-30	20	-22	68
	Cat MTO		-30	20	-22	68
	Cat TDTO	SAE 30	-10	25	14	77
	Cat HYDO	SAE 30	-10	25	14	77
Variable Pitch Fan	Cat DEO SYN	5W-40 ⁽³⁾	-40	50	-40	122
	Cat TDTO	SAE 30 ⁽⁴⁾	-15	25	5	77
	Cat TDTO	SAE 50 ⁽⁴⁾	-10	50	14	122

⁽¹⁾ Except All Wheel Steer (AWS). See the OMM for AWS requirements.

⁽²⁾ 4C-6767 Synthetic Oil is a premium PAO (polyalphaolefin) synthetic gear and bearing lubricant with no viscosity improvers. This lubricant has an ISO Viscosity Grade of 220, and a minimum viscosity index of 150. All Asphalt Compactors require synthetic gear and bearing lubricant. All 500 Series Soil Compactors with the new pod style drum, and any earlier 500 Series without oil pockets in the old style drum, also require synthetic gear oil.

⁽³⁾ First choice oil is Cat DEO SYN 5W-40. Full synthetic oils are recommended. Synthetic oils may provide longer service life for the fan. Synthetic oils allow for increased service intervals over non-synthetic oils.

⁽⁴⁾ Second choice oil is Cat TDTO. Cat TDTO is a non-synthetic.

All part numbers are not available in all global locations.

Filters and Fluids – Greases



Advanced 3Moly Grease

Applications:

- For use in a wide range of operating temperatures: -21° C to 149° C (-5° F to 300° F).
- For use with heavily loaded bearings and joints requiring an extreme pressure grease.

Feature:

- Contains 3 percent molybdenum disulfide.

Benefit:

- Excellent load-carrying capacity for applications without temperature or moisture extremes.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
Advanced 3Moly Grease	Advanced 3Moly NLGI Grade 2 (3% Moly)	14 oz (cartridge)	397 g (cartridge)	5P-0960
		15.9 oz (cartridge) (Australian)	450 g (cartridge) (Australian)	129-1952
		35 (metal pail)	16 (metal pail)	129-1919
		35 (plastic pail)	16 (plastic pail)	7X-7699
		120 (keg)	54 (keg)	9X-6489
		400 (drum)	181 (drum)	7X-7701
		3500 (tote)	1588 (tote)	129-1926



Multipurpose Grease

Application:

- For use in grease fittings and lubrication points in low load, low speed applications.

Feature:

- Contains no molybdenum disulfide.

Benefit:

- Exceptional general purpose and automotive grease.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
Multipurpose Grease	Multipurpose Grease NLGI Grade 2	14 oz (cartridge)	397 g (cartridge)	1P-0808
		15.9 oz (cartridge) (Australian)	450 g (cartridge) (Australian)	129-1950
		35 (metal pail)	16 (metal pail)	129-1919
		35 (plastic pail)	16 (plastic pail)	7X-7664
		120 (keg)	54 (keg)	9X-6488
		400 (drum)	181 (drum)	7X-7665
		3500 (tote)	1588 (tote)	129-1921

Filters and Fluids – Greases

White Assembly Grease

Application:

- For use in general assembly and other light-duty applications.

Features:

- Added tackifiers, making it ideal for holding gears, bearings, gaskets and other parts during assembly.
- Contains no molybdenum disulfide.

Benefit:

- Exceptional general purpose grease.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
White Assembly Grease	NLGI Grade 2	13 oz (aerosol)		129-1968
		14 oz (cartridge)	397 g (cartridge)	129-1966
		35 (plastic pail)	16 (plastic pail)	129-1969



Desert Gold Grease

Applications:

- For use in central lube systems on large mining vehicles.
- For use in heavily loaded joints where temperatures can be as high as 232° C (450° F).

Features:

- Extra tacky to stick to open gears and bearings.
- Contains 5 percent molybdenum disulfide for extra high loads.

Benefits:

- Very water resistant.
- Longer lasting than regular molybdenum disulfide containing greases.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
Desert Gold Grease	NLGI Grade 2	14 oz (cartridge)	397 g (cartridge)	129-1938
		15.9 oz (cartridge) (Australian)	450 g (cartridge) (Australian)	129-1937
		35 (metal pail)	16 (metal pail)	129-1942
		35 (plastic pail)	16 (plastic pail)	129-1941
		120 (keg)	54 (keg)	129-1943
		400 (drum)	181 (drum)	129-1944
		3500 (tote)	1588 (tote)	129-1946



Arctic Platinum Grease

Applications:

- For use in central lube systems on large mining vehicles.
- For use in heavily loaded joints where temperatures can be as low as -57°C (-70°F).

Features:

- Provides an extra tacky hold to stick to open gears and bearings.
- Contains 5 percent molybdenum disulfide for extra high loads.

Benefits:

- Exceptional water resistance.
- Exceptional resistance to breakdown from mechanical working.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
Arctic Platinum Grease	NLGI Grade 0	35 (plastic pail)	16 (plastic pail)	129-8708
		120 (keg)	54 (keg)	129-8709
		400 (drum)	181 (drum)	129-8710

Filters and Fluids – Greases



Ultra 5Moly Grease

Applications:

- Large mining shovels, excavators, drag lines, loaders, track-type tractors, mining trucks, conveyor belts and any other equipment that operates in moderate to extremely cold temperatures.
- Recommended for all high load, high impact and wet applications where the ambient temperatures are between -35° C (-31° F) and 40° C (104° F) for Ultra 5Moly #1 and between -30° C (-22° F) and 50° C (122° F) for Ultra 5Moly #2.

Features:

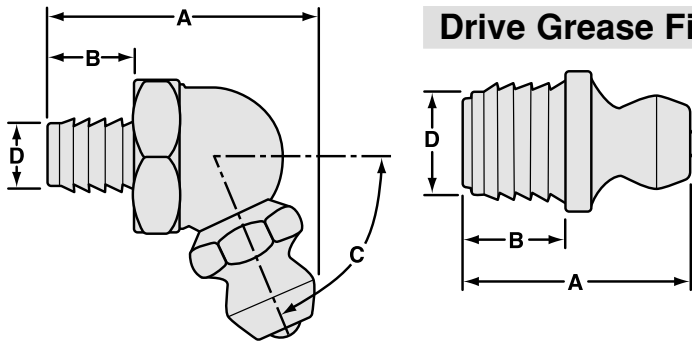
- Provides excellent pumpability and dispersing properties in ambient temperatures.
- Environmentally friendly, with no additives such as lead, antimony, zinc, barium chlorine, and no sulfur or phosphorous.
- Exceptional mechanical stability, and very high resistance to water washout, oxidation and corrosion.

Benefits:

- Less Auto-Lube grease is required to refill the joint because it stays in the joint longer.
- Lower wear rates due to lower frictional heat for maximum component life and minimum downtime.

ITEM	NLGI Grade	SIZE		PART NUMBER
		(lb)	(kg)	
Ultra 5Moly Grease	NLGI Grade 1	14 oz (cartridge)	397 g (cartridge)	161-9203
		15.9 oz (cartridge) (Australian)	450 g (cartridge) (Australian)	197-9227
		35 (metal pail)	16 (metal pail)	266-8562
		35 (plastic pail)	16 (plastic pail)	183-3432
		120 (keg)	54 (keg)	161-0970
		400 (drum)	181 (drum)	161-0971
		3500 (tote)	1588 (tote)	160-8028
	NLGI Grade 2	14 oz (cartridge)	397 g (cartridge)	183-3424
		15.9 oz (cartridge) (Australian)	450 g (cartridge) (Australian)	183-3425
		35 (metal pail)	16 (metal pail)	266-8563
		35 (plastic pail)	16 (plastic pail)	183-3426
		120 (keg)	54 (keg)	183-3427
		400 (drum)	181 (drum)	183-3428
		3500 (tote)	1588 (tote)	183-3429

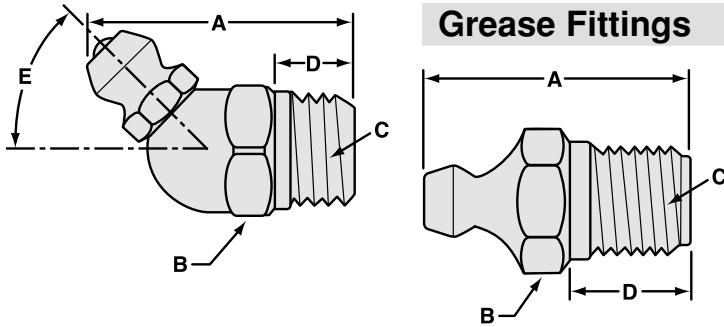
Filters and Fluids – Grease Fittings



Drive Grease Fittings

PART NUMBER	A OVERALL LENGTH		B LENGTH TO SHOULDER		C ANGLE	D DRILL SIZE	
	inch	mm	inch	mm		inch	mm
066-4309	0.47	11.90	0.25	6.35	str	1/4	6.350
7S-9868	0.52	13.21	0.23	5.84	str	3/16	4.750
8B-7121	0.56	14.28	0.25	6.35	str	1/4	6.350
1K-6841	0.56	14.29	0.23	5.95	str	5/16	7.938
9B-2515	0.59	15.08	0.22	5.55	str	3/8	9.525
1K-6852	0.62	15.87	0.25	6.35	str	3/16	4.750
3K-9755	0.70	17.78	0.22	5.58	65	5/16	7.938
6K-1861	0.77	19.55	0.31	7.87	65	1/4	6.350

Filters and Fluids – Grease Fittings



Grease Fittings

PART NUMBER	A OVERALL LENGTH		B HEX SIZE		C THREAD SIZE	D LENGTH TO SHOULDER		E ANGLE
	inch	mm	inch	mm		inch	mm	
9H-3771	0.47	11.90	$\frac{9}{32}$	7.14	$\frac{1}{4}$ - 28	0.12	3.17	str
027-1287	0.53	13.46	$\frac{5}{16}$	7.87	$\frac{1}{4}$ - 28	0.19	4.82	str
191-4462	0.59	15.00	$\frac{7}{16}$	11.11	M10 x 1.5 Taper Thread	0.22	5.50	str
9X-2089	0.63	15.90	$\frac{25}{64}$	9.00	M8 x 1 Taper Thread	0.25	6.40	str
5W-2817	0.63	16.00	$\frac{7}{16}$	11.11	M10 x 1 Taper Thread	0.22	5.50	str
118-2732	0.63	16.00	$\frac{23}{64}$	9.00	M8 x 1 Taper Thread			str
3B-8489	0.67	17.07	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.29	7.34	str
2D-5898	0.68	17.27	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.28	7.12	str
5B-0935	0.69	17.46	$\frac{5}{16}$	7.93	$\frac{1}{4}$ - 28	0.34	8.73	str
3H-0122	0.87	22.22	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.39	9.92	str
3B-8490	0.91	23.02	$\frac{9}{16}$	14.29	$\frac{1}{4}$ - 18	0.23	5.95	str
2F-4614	0.97	24.61	$\frac{5}{16}$	7.87	$\frac{1}{4}$ - 28	0.62	15.87	str
6H-9049	1.00	25.40	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.52	13.09	str
5P-9982	1.00	25.40	$\frac{1}{2}$	12.70	$\frac{1}{8}$ - 27	0.31	8.00	str
3H-0041	1.06	26.98	$\frac{7}{16}$	11.11	$\frac{1}{4}$ - 18			str
5P-9968	1.10	28.00	$\frac{5}{16}$	7.94	$\frac{1}{4}$ - 28	0.76	19.30	str
3J-7283	1.19	30.26	$\frac{7}{16}$	11.17	$\frac{1}{8}$ - 27	0.56	14.22	str
8D-0538	1.25	31.75	$\frac{5}{16}$	7.87	$\frac{1}{4}$ - 28	1.28	32.51	str
2D-4867	1.25	31.75	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.78	19.81	str
5B-0651	1.79	45.45	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	1.27	32.33	str
4B-5006	2.09	53.18	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	1.25	31.75	str
3B-8491	2.62	66.47	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	2.17	55.17	str
3B-8686	0.05	1.24	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.28	7.14	30
4H-3947	1.23	31.17	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.39	9.92	30
5D-4412	0.81	20.57	$\frac{3}{8}$	9.65	$\frac{1}{4}$ - 28	0.21	5.33	45
9M-5614	0.88	22.35			$\frac{1}{8}$ - 27	0.30	7.62	45
3B-8485	0.89	22.61	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.29	7.34	45
5B-0925	0.92	23.30	$\frac{3}{8}$	9.52	$\frac{1}{4}$ - 28	0.30	7.60	45
5P-8334	0.75	19.10	$\frac{3}{8}$	9.52	$\frac{1}{4}$ - 28	0.26	6.50	65

Filters and Fluids – Grease Fittings

Grease Fittings (cont.)

PART NUMBER	A OVERALL LENGTH		B HEX SIZE		C THREAD SIZE	D LENGTH TO SHOULDER		E ANGLE
	inch	mm	inch	mm		inch	mm	
030-3296	0.78	19.81	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27			65
3B-8486	0.85	21.60	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.29	7.34	65
3B-8487	0.98	25.00	$\frac{9}{16}$	14.29	$\frac{1}{4}$ - 18	0.34	8.73	65
4B-8440	2.76	70.00	$\frac{3}{8}$	9.52	$\frac{1}{8}$ - 27			68
5B-5150	0.75	19.05	$\frac{3}{8}$	9.52	$\frac{1}{4}$ - 28	0.20	5.08	90
201-9104	0.75	19.50	$\frac{25}{64}$	10.00	M8 x 1 Taper Thread	0.21	5.40	90
3B-8488	0.84	21.43	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.29	7.34	90
3H-0121	0.97	24.60	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	0.39	9.92	90
5B-9916	1.81	45.97	$\frac{7}{16}$	11.11	$\frac{1}{8}$ - 27	1.25	31.75	90

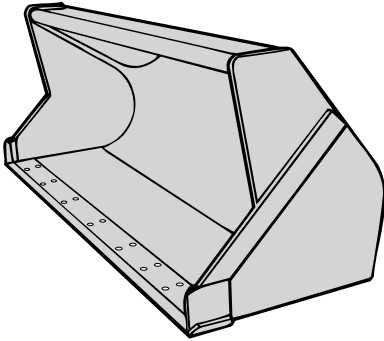
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GROUND ENGAGING TOOLS | BACKHOE LOADERS

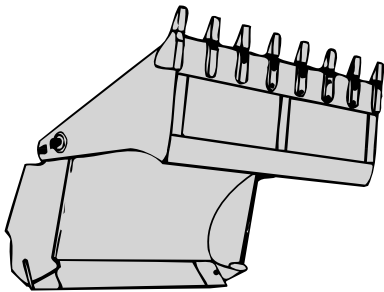
Ground Engaging Tools – Backhoe Loader Buckets

Front Buckets



General Purpose Bucket

- For use in handling bank and stockpile materials.



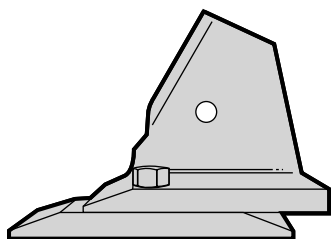
Multi-Purpose Bucket

- Provides more dump clearance and grabbing capabilities due to its movable clam.
- For use in general loading.

MODEL *	BASE EDGE		BASE EDGE	BUCKET CORNER	
	in	mm		LH	RH
416/416B/416C/416C IT	88.0	2240	9R-0316		
416D/420/420D/426	89.0	2262	9R-4672	9R-4674	9R-4674
426B/426C/426C IT	89.0	2262	9R-4672	9R-5205	9R-5206
428/428B/428C IT	94.0	2388	9R-5313	9R-4674	9R-4674
430D/436B/436C/436C IT	94.3	2395	9R-5313	9R-5205	9R-5206
446/446B/446D	94.8	2408	9R-4101	9R-5748	9R-5747
	94.8	2408	6Q-2193	6Q-2196	6Q-2197
	95.0	2413	9R-4672		

*J225 Tip Size for Machine Models 446, 446B and 446D.
J200 for all other Bucket Types and Machine Models.

Ground Engaging Tools – Backhoe Loader Edges and Adapters



Front Bucket Bolt-On Edges

When penetration is not a problem, use bolt-on cutting edges.

Bolt-on cutting edges:

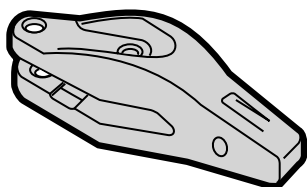
- Increase base edge life up to five times over an unprotected base edge.
- Are quick and easy to replace.
- Increase bucket capacity.
- Provide smooth floor maintenance capability.
- Are made of DH-2™ steel alloy and are hardened to 430-520 Brinell.

MODEL	BASE EDGE WIDTH		BASE EDGE**	BUCKET CORNER		BOLT-ON EDGE	BOLT	NUT
	in	mm		LH	RH			
416/416B/416C/416C IT	88.0	2240	9R-0316					
416D/420/420D/426	89.0	2262	9R-4672	9R-4674	9R-4674	9W-8215 (2)	3F-5108 (8)	4K-0367 (8)
426B/426C/426C IT	89.0	2262	9R-4672***	9R-5205	9R-5206	9W-8215 (2)	3F-5108 (8)	8E-0367 (8)
428/428B/428C IT	94.0	2388	9R-5313	9R-4674	9R-4674	118-7110 (2)	3F-5108 (8)	8E-0367 (8)
430D/436B/436C/436C IT	94.3	2395	9R-5313	9R-5205	9R-5206	118-7110 (2)	3F-5108 (8)	8E-0367 (8)
446/446B/446D	94.8	2408	9R-4101	9R-5748	9R-5747	9U-9665 (2)	3F-5188 (12)	4K-0367 (12)
	94.8	2408	6Q-2193	6Q-2196	6Q-2197	9U-9665 (2)	3F-5188 (12)	4K-0367 (12)
	95.0	2413	9R-4672			9W-8215 (2)	3F-5108 (8)	4K-0367 (8)

** Eight teeth for all bucket types and machine models except for 9R-0316, 9R-4101 and 6Q-2193 base edges that have no teeth.

*** This base edge does not include teeth when used on 9R-5988 bucket. The base edge is drilled for bolt-on unitooth tips.

Number in parentheses () after the part number indicates the quantity required.



Front Bucket Bolt-On Adapters

- Provide excellent impact resistance.
- Provide excellent penetration ability.
- For use with larger backhoe loaders that work in abrasive conditions.

MODEL	BASE EDGE WIDTH		BASE EDGE**	BUCKET CORNER		BOLT-ON ADAPTER	BOLT	NUT
	in	mm		LH	RH			
416/416B/416C/416C IT	88.0	2240	9R-0316					
416D/420/420D/426	89.0	2262	9R-4672	9R-4674	9R-4674	8E-2184 (8)	4F-3656 (16)	4K-0367 (16)
426B/426C/426C IT	89.0	2262	9R-4672***	9R-5205	9R-5206	8E-2184 (8)	4F-3656 (16)	8E-0367 (16)
428/428B/428C IT	94.0	2388	9R-5313	9R-4674	9R-4674	8E-2184 (8)	4F-3656 (16)	8E-0367 (16)
430D/436B/436C/436C IT	94.3	2395	9R-5313	9R-5205	9R-5206	8E-2184 (8)	4F-3656 (16)	8E-0367 (16)
446/446B/446D	94.8	2408	9R-4101	9R-5748	9R-5747			
	94.8	2408	6Q-2193	6Q-2196	6Q-2197			
	95.0	2413	9R-4672			8E-2184 (8)	4F-3656 (16)	4K-0367 (16)

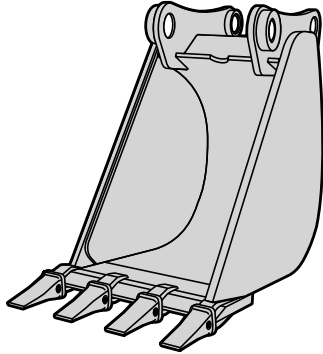
** Eight teeth for all bucket types and machine models except for 9R-0316, 9R-4101 and 6Q-2193 base edges that have no teeth.

*** This base edge does not include teeth when used on 9R-5988 bucket. The base edge is drilled for bolt-on unitooth tips.

Number in parentheses () after the part number indicates the quantity required.

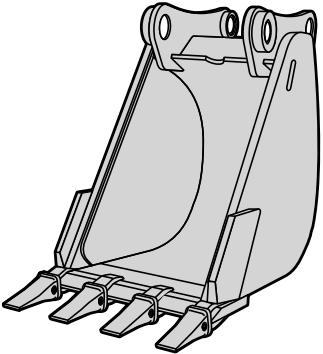
Ground Engaging Tools – Backhoe Loader Buckets

Rear Buckets



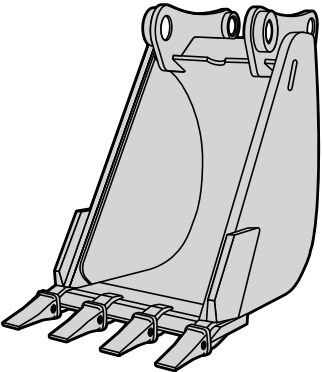
Standard Duty Bucket

- For use in handling bank and stockpile materials.



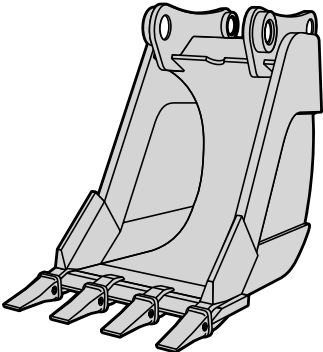
Heavy Duty Bucket

- Provides longer life in abrasive materials due to replaceable corners, a thicker base edge, and bottom wear strips.



High Capacity Bucket

- Provides more capacity and a longer tip radius.
- Contains the same construction as the heavy duty bucket.
- For use in abrasive materials that are easily penetrated.



Extreme Service Bucket

- Contains heavy duty side plates, base edges, and corner adapters in addition to sidebar protectors and bottom wear strips.
- For use in prying out rock and concrete.

Ground Engaging Tools – Backhoe Loader Base Edge and Corners

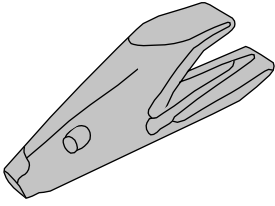
Rear Bucket – Base Edge and Corners*

MODEL	BASE EDGE WIDTH		BASE EDGE	BUCKET CORNER		WELD-ON ADAPTER	WELD-ON DOUBLE STRAP ADAPTER	BOLT-ON ADAPTER	BOLT	NUT
	in	mm		LH	RH					
416/416B/416C/416C IT 420/426/426B/426C 426C IT/428/428B 428C IT/436B/436C IT 446/446B/446D	12	305	100-6002	9R-8987	9R-8988			8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
	12	305	134-5877	134-5884	134-5885		119-3204/119-3205 (3)	8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
	12	305	136-6886	136-7150	136-7150		119-3204/119-3205 (3)	8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
	16	406	134-5878	134-5884	134-5885		119-3204 (3)			
	18	457	136-7046	136-7051	136-7049	6Y-3224 (3)	119-3204/119-3205 (4 or 5)	8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
			136-6887	136-6885	136-6885	6Y-3224 (3)	119-3204/119-3205 (4 or 5)	8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
			9R-8983*	9R-8987	9R-8988	6Y-3224 (3)		8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
			9R-9459	9R-9456	9R-9454	6Y-3224 (3)	119-3204/119-3205 (4 or 5)	8E-2184 (3)	4F-3656 (6)	4K-0367 (6)
	24	610	134-5880	134-5884	134-5885		119-3204 (5)			
			136-7047	136-7051	136-7049	6Y-3224 (4)	119-3204/119-3205 (4 or 5)	8E-2184 (4 or 5)	4F-3656 (8 or 10)	4K-0367 (8 or 10)
			136-6888	136-6885	136-6885	6Y-3224 (4)	119-3204/119-3205 (4 or 5)	8E-2184 (4 or 5)	4F-3656 (8 or 10)	4K-0367 (8 or 10)
			9R-9241	9R-9819	9R-9820	6Y-3224 (4)	119-3204/119-3205 (4 or 5)	8E-2184 (4 or 5)	4F-3656 (8 or 10)	4K-0367 (8 or 10)
			9R-9458	9R-9456	9R-9454		119-3204/119-3205 (4 or 5)	8E-2184 (4 or 5)	4F-3656 (8 or 10)	4K-0367 (8 or 10)
			9R-8984*	9R-8987	9R-8988	6Y-3224 (4)		8E-2184 (4 or 5)	4F-3656 (8 or 10)	4K-0367 (8 or 10)
	30	762	9R-8985*	9R-8987	9R-8988	6Y-3224 (5)		8E-2184 (5 or 6)	4F-3656 (10 or 12)	4K-0367 (10 or 12)
			9R-9833	9R-9819	9R-9820	6Y-3224 (5)	119-3204/119-3205 (5)	8E-2184 (5 or 6)	4F-3656 (10 or 12)	4K-0367 (10 or 12)
			136-6889	136-6885	136-6885	6Y-3224 (5)	119-3204/119-3205 (5)	8E-2184 (5 or 6)	4F-3656 (10 or 12)	4K-0367 (10 or 12)
			9R-9457	9R-9456	9R-9454	6Y-3224 (5)	119-3204/119-3205 (5)	8E-2184 (5 or 6)	4F-3656 (10 or 12)	4K-0367 (10 or 12)
	36	914	136-6890	136-6885	136-6885	6Y-3224 (6)	119-3204/119-3205 (6)	8E-2184 (6)	4F-3656 (12)	4K-0367 (12)
			9R-8986*	9R-8987	9R-8988	6Y-3224 (6)		8E-2184 (6)	4F-3656 (12)	4K-0367 (12)
			9R-9455	9R-9456	9R-9454	6Y-3224 (6)				

* Bucket does not include teeth. The base edge is drilled for Bolt-On Unitooth tips.
J225 for 446, 446B, and 446D.
J200 for all other machine models.

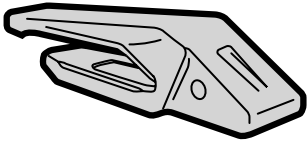
Ground Engaging Tools – Backhoe Loader Adapters

Rear Bucket Adapters



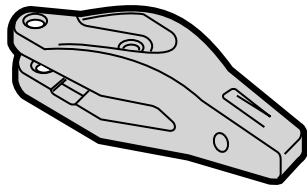
Weld-On Double Strap Adapters

- Provides good retention in high-impact conditions.
- Protects the base edge well.
- For use in general loading applications where adapter retention is important.



Bolt-On Adapters

- Provides excellent impact resistance.
- Provides excellent penetration ability.
- For use with larger backhoe loaders that work in abrasive conditions.



Ground Engaging Tools – Backhoe Loader Adapters

MODEL	WIDTH		BASE EDGE	BUCKET CORNER		WELD-ON ADAPTER	WELD-ON DOUBLE STRAP ADAPTER
	in	mm		LH	RH		
416D/420D/430D	12.0	305	174-3951				168-1204/195-9204 (3)
			154-5254	134-5884	134-5885		168-1204/195-9204 (3)
			154-5268				168-1204/195-9204 (3)
			219-9494				201-1235 (3)
			219-9493				201-1234 (3)
			219-9496				201-1234 (4)
	16.0	406	134-5878	134-5884	134-5885		195-9204(3)
			219-9482				201-1234 (3)
	18.0	457	136-7046				168-1204/195-9204 (4)
			134-5879	134-5884	134-5885		168-1204/195-9204 (4)
			136-6887				168-1204/195-9204 (4)
			219-9487				201-1234 (4)
			219-9483				201-1234 (4)
			219-9491				201-1234 (4)
	24.0	610	136-7047				168-1204/195-9204 (5)
			134-5880	134-5884	134-5885		168-1204/195-9204 (5)
			136-6888				168-1204/195-9204 (5)
			219-9488				201-1234 (5)
			219-9484				201-1234 (5)
			219-9492				201-1234 (8)
	30.0	762	172-8270				195-9204 (10)
			134-5881	134-5884	134-5885		168-1204/195-9204 (5)
			136-6889				168-1204/195-9204 (5)
			219-9489				201-1235 (5)
			219-9485				201-1234 (5)
			219-9495				201-1234 (10)
	36.0	914	134-5882	134-5884	134-5885		168-1204/195-9204 (6)
			136-6890				168-1204/195-9204 (6)
			219-9490				201-1235 (6)
			219-9486				201-1234 (6)

Base Edge Part Numbers that start with 174-XXXX, 154-XXXX, 136-XXXX, 134-XXXX, 172-XXXX use DRS200.

Base Edge Part Numbers that start with 219-XXXX use DRS230.

Ground Engaging Tools – Backhoe Loader Tips

Tips

Cat backhoe loader bucket tips are side pinned for excellent tip retention and quick, easy tip changing. The pin hole is located through the tip sides which are the areas of least wear.



Long Tip

- The best choice for most applications.



Short Tip

- Provides more strength.
- Contains less wear material.



Utility Tip

- For use in general purpose excavator and loader bucket applications.



Wide Tip

- Contains less wear material.
- Provides less penetration.
- Provides a cleaner floor and less spillage.



Penetration Tip

- Provides better penetration.
- Contains less wear material.



Bolt-On Unitooth

- Improves penetration where breakage is not a problem.
- Tip and adapter are one integrated piece for easy installation and lower initial costs.
- For use in nonabrasive materials.



Sharp Corner Tip / Sharp Center Tip

- Provides the best penetration.
- Contains the least wear material.

Ground Engaging Tools – Backhoe Loader Tips

Tips



Twin Sharp Tip

- For use for severe digging in rock and frost.



Heavy Duty Long Tip

- Contains more wear material than Abrasion Tip.
- Provides greater strength than Long Tip.
- Provides better penetration due to a streamlined-profile.



Heavy Duty Abrasion Tip

- Contains the greatest amount of wear material.
- Provides good strength.
- Provides good penetration.

Tips – Diagonal Retention System



DRS200 and DRS230

The new system for all rear Backhoe Loader buckets except for the 446 model, provides good retention that is not affected by surface wear and easier installation since no clearance is needed between tips.

- Proprietary (RH Drive).
- 20-30% more wear material vs. J200.
- Easy access for pin installation & removal (40°).

Ground Engaging Tools – Backhoe Loader Tips

Tips

Front Bucket Tips

	J200	J225
Heavy Duty Abrasion		6Y-6223
Heavy Duty Long		8E-4222
Long	1U-3202	6Y-3222
Penetration	1U-3209	6Y-8229
Short		6Y-6221
Utility	7T-8202	
Unitooth Center Tip	8J-6207	
Unitooth Center Tip – Bolt	5J-4771	
Unitooth Corner Tip (lh)	1U-1868	
Unitooth Corner Tip (rh)	1U-1869	
Unitooth Corner Tip – Bolt	6F-0196	
Standard Pin	8E-6208	6Y-3228
Standard Retainer	8E-6209	8E-6259
Heavy Duty Pin		132-4762
Heavy Duty Retainer		149-5733

Rear Bucket Tips

	J200	J225	DRS200	DRS230
Chisel			195-7202	208-5232
Heavy Duty Abrasion		6Y-6223		
Heavy Duty Long		8E-4222		
Impact			195-7205	
Long	1U-3202	6Y-3222	195-7206	208-5236
Penetration	1U-3209	6Y-8229		208-5235
Sharp			195-7209	208-5239
Sharp Center	9W-8209	6Y-7229		
Sharp Center	9W-8208	6Y-7228		
Short		6Y-6221		
Twin Sharp	135-8208		195-7207	208-5237
Utility	7T-8202			
Wide	109-9200	186-3010	195-7210	208-5240
Standard Pin	8E-6208	6Y-3228		201-1238
Standard Retainer	8E-6209	8E-6259		201-1239
Heavy Duty Pin		132-4762		
Heavy Duty Retainer		149-5733		
Flex Pin			195-7200	

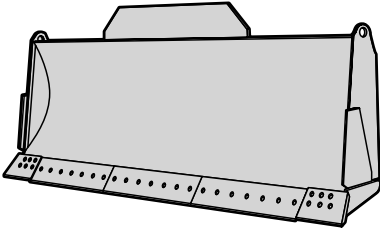
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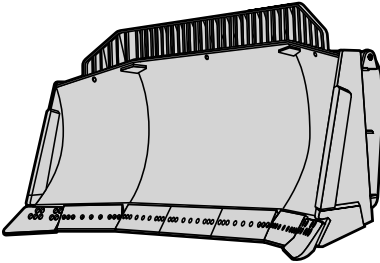
Ground Engaging Tools – Bulldozer Blades

Bulldozer Cutting Edges



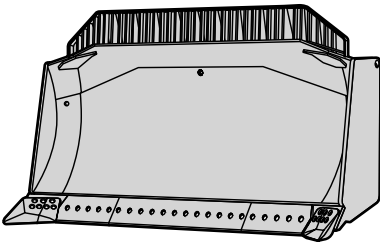
Straight Blade (S)

- A good general purpose blade for most dozing applications. Available for most machines.



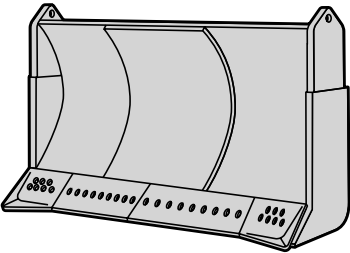
Universal Blade (U)

- A straight blade with large "wings" to carry large loads more efficiently over long distances. Available only for larger models.



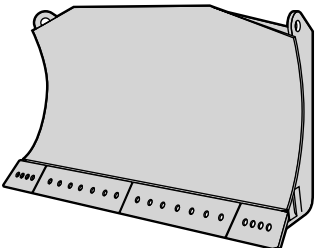
Semi-U Blade (SU)

- A straight blade with small "wings" to provide better load carrying characteristics for mid-sized and large machines.



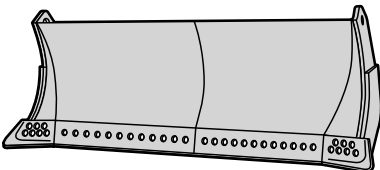
Cushion Blade (C)

- A relatively narrow blade, primarily for pushing scrapers.



Power Angle and Tilt Blade (P)

- A very versatile blade for smaller machines.



Angle Blade (A)

- An economical, light to medium duty blade designed for use on D8 and smaller machines where the ability to side-cast is desired.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
3S	6EH,15W,86U	Straight	0.62	16	Center Edge	4T-6230 (2)	3F-5108 (6)	4K-0367 (6)	
	31M,40V	Straight	0.62	16	Center Edge	4T-6231 (2)	3F-5108 (7)	4K-0367 (7)	
3P	8SU,1GP,2JP,9RH	Power Angle & Tilt	0.62	16	Center Edge	4T-6230 (2)	3F-5108 (6)	4K-0367 (6)	
	96X,5WH,8JP	Power Angle & Tilt	0.62	16	Center Edge	4T-6232 (2)	3F-5108 (8)	4K-0367 (8)	
	8HP,8KP	Power Angle & Tilt	0.62	16	Center Edge	6Y-5841 (2)	3F-5108 (6)	4K-0367 (6)	
	8XP	Power Angle & Tilt	0.62	16	Center Edge	141-0413 (2)	3F-5108 (8)	4K-0367 (8)	
Super LGP	5LH		0.62	16	Center Edge	4T-6230 (2)	3F-5108 (6)	4K-0367 (6)	
			0.62	16	Center Edge	4T-6231	3F-5108 (7)	4K-0367 (7)	
Narrow PLGP			0.62	16	Center Edge	157-7338 (2)	3F-5108 (7)	4K-0367 (7)	
			0.62	16	Center Edge				
4A	12D,78D,05F1-2850	Angle	0.62	16	Center Edge	4T-2977	4F-3654 (18)	4K-0367 (18)	
	05F,97E,24F,65F	Angle	0.62	16	Center Edge	4T-2979	4F-3654 (13)	4K-0367 (13)	
	10D,79D,06F1-11299	Angle	0.62	16	Center Edge	4T-2981	4F-3654 (23)	4K-0367 (23)	
	52E,96E,26F,06F11300-UP,95G,33R	Angle	0.62	16	Center Edge	4T-2974	4F-3654 (5)	4K-0367 (5)	
			0.62	16	End Edge	4T-2973 (2)	4F-3654 (6)	4K-0367 (6)	
	6AC, 2GC	Angle	0.62	16	Center Edge	4T-8940 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
4S	2A,25F,67F	Straight	0.62	16	Center Edge	4T-2980	4F-3654 (15)	4K-0367 (15)	
	2TC,3CH,3DC	Straight	0.62	16	Center Edge	4T-3720 (2)	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	4A,40D	Straight	0.62	16	Center Edge	4T-2977	4F-3654 (18)	4K-0367 (18)	
			0.75	19	Center Edge	4T-3021	4F-3654 (18)	4K-0367 (18)	
	27F,67E,94G	Straight	0.62	16	Left End/Right End	4T-2972	3F-5108 (4)	4K-0367 (4)	
			0.75	19	Center Edge	4T-2983	3F-5108 (3)	4K-0367 (3)	
4S-LGP			0.62	16	Left End/Right End	4T-3028	3F-5108 (4)	4K-0367 (4)	
			0.62	16	Center Edge	4T-3027	3F-5108 (3)	4K-0367 (3)	
	93C	Straight	0.62	16	Left End/Right End	8A-8581	4F-3654 (7)	4K-0367 (7)	
			0.62	16	Center Edge	8A-8580	4F-3654 (7)	4K-0367 (7)	
	4HC	Straight	0.62	16	Center Edge	4T-8940 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
	84E,19J,45J	Straight	0.77	19	Center Edge	4T-3028 (2)	4F-3654 (4)	4K-0367 (4)	
4P			0.62	16	Center Edge	4T-3029	4F-3654 (7)	4K-0367 (7)	
			0.62	16	Center Edge	4T-2972 (2)	4F-3654 (4)	4K-0367 (4)	
			0.62	16	Center Edge	4T-2982	4F-3654 (7)	4K-0367 (7)	
	2YH	Power Angle & Tilt	0.62	16	Center Edge	4T-6230 (2)	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	4AC,9ZB,5NH,7EH	Power Angle & Tilt	0.62	16	Center Edge	3G-9306 (2)	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	6CH	Power Angle & Tilt	0.62	16	Center Edge	6Y-5841 (2)	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
4P-LGP	8LP	Power Angle & Tilt	0.62	16	Center Edge	140-2187 (2)	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	9SH	Power Angle & Tilt	0.62	16	Center Edge	104-9634 (2)	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	4GH,8ZH,9YH	Power Angle & Tilt	0.62	16	Center Edge	4T-6232 (2)	3F-5108 (8)	4K-0367 (8)	5P-8247 (8)
	5EC,5RH,7CH	Power Angle & Tilt	0.62	16	Center Edge	4T-8940 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)

* Edges are 11" (280 mm) wide.

Number in parentheses () after the part number indicates the quantity required.

** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in) (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
4P-LGP (cont.)	6DH,9TH,8MP	Power Angle & Tilt	0.62 16	Center Edge	6Y-5842 (2)	3F-5108 (8)	4K-0367 (8)	5P-8247 (8)
	8YP	Power Angle & Tilt	0.62 16	Center Edge	141-2238 (2)	3F-5108 (8)	4K-0367 (8)	5P-8247 (8)
	6XH	Power Angle & Tilt	0.62 16	Center Edge	8E-9377 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
5A	91H,98H,42K	Angle	0.77 19	Center Edge	4T-6659 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			0.62 16	Center Edge	4T-2978	3F-5108 (24)	4K-0367 (24)	
			0.75 19	Center Edge	4T-3030 (2)	3F-5108 (12)	4K-0367 (12)	
5S	93H1-3846	Angle	0.62 16	Center Edge	4T-2978	3F-5108 (24)	4K-0367 (24)	
			0.75 19	Center Edge	4T-3030 (2)	3F-5108 (12)	4K-0367 (12)	
			0.62 16	Center Edge	4T-2974	4F-3654 (5)	4K-0367 (5)	
5P	52E,96E,26F,06F,1300-UP,95G,33R	Angle	0.62 16	End Edge	4T-2973 (2)	4F-3654 (6)	4K-0367 (6)	
			0.62 16	Center Edge	4T-8940 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			0.75 19	Center Edge	3G-6062 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
5S-LGP	10J,12J,92H,97H	Straight	0.75 19	Left End /Right End	4T-3026	3F-5108 (4)	4K-0367 (4)	5P-8247 (4)
			0.75 19	Center Edge	4T-3025	3F-5108 (7)	4K-0367 (7)	5P-8247 (7)
			0.75 19	Center Edge	4T-3024	3F-5108 (28)	4K-0367 (28)	5P-8247 (28)
5S Pet.	19R,16K	Straight	0.62 16	Left End /Right End	4T-2972	3F-5108 (4)	4K-0367 (4)	5P-8247 (4)
			0.75 19	Center Edge	4T-2983	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
			0.75 19	Left End/Right End	4T-3028	3F-5108 (4)	4K-0367 (4)	5P-8247 (4)
5SU	7BH	Semi-U	0.75 19	Center Edge	4T-3027	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
			0.75 19	Center Edge	1U-2211 (2)	5J-4773 (9)	2J-3506 (9)	5P-8248 (9)
			0.75 19	Center Edge	4T-0731 (2)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
5P	2AH,2MH,7AH	Power Angle & Tilt	0.75 19	Left End Edge/Right End	9U-8057	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
			0.75 19	Center Edge	4T-6659	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			0.75 19	Center Edge	3G-4282 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
5P-LPG	4GP,6JP	Power Angle & Tilt	0.62 16	Center Edge	8E-9377 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			0.75 19	Center Edge	4T-6659 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			0.62 16	Center Edge	3G-9306 (2)	5J-4771 (6)	2J-3506 (6)	5P-8248 (6)
6A	6MH,9WH	Power Angle & Tilt	0.62 16	Center Edge	14D-0983 (2)	5J-4771 (6)	2J-3506 (6)	5P-8248 (6)
			0.62 16	Center Edge	4T-2315 (2)	5J-4773 (10)	2J-3506 (10)	5P-8248 (10)
			0.62 16	Center Edge	4T-8940 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
5P-LPG	1YH,2SH	Power Angle & Tilt	0.62 16	Center Edge	6Y-5842 (2)	3F-5108 (8)	4K-0367 (8)	5P-8247 (8)
			0.62 16	Center Edge	142-4914 (2)	3F-5108 (8)	4K-0367 (8)	5P-8247 (8)
			0.75 19	Center Edge	4T-3008	3F-5108 (11)	4K-0367 (11)	
6A	16C5001-UP,37D,81D,16E,03F,04F,40H	Angle	0.62 16	End Edge	4T-3020 (2)	3F-5108 (9)	4K-0367 (9)	
			0.75 19	Center Edge	4T-2978	3F-5108 (24)	4K-0367 (24)	
			0.75 19	Center Edge	4T-3030 (2)	3F-5108 (12)	4K-0367 (12)	
5P-LPG	4FP,BHY	Power Angle & Tilt	0.62 16	Center Edge	4T-3009 (2)	4F-7827 (10)	2J-3506 (10)	5P-8248 (10)
			0.62 16	Center Edge	4T-6262 (3)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			1.00 25	Center Edge	7T-9977 (3)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.
 * Edges are 11" (280 mm) wide.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
6A (cont.)	1BH0570-UP	Angle	0.75	19	Center Edge	4T-2952 (4)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
			1.00	25	Center Edge	4T-2985 (4)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
	1XP,3GP,1ZP,1YP,3PP,4BP,8TP	Angle	0.75	19	Center Edge	4T-2952 (4)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
			1.00	25	Center Edge	4T-2985 (4)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
6A Custom Wide	6HP	Angle	0.75	19	Center Edge	109-9093 (4)	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
6S	1DH1-599,2HH,3JH,4BH	Straight	0.75	19	Left End/Right End	4T-3010	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
			1.00	25	Center Edge	4T-6659	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
			1.00	25	Left End/Right End	7T-9978	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
			1.00	25	Center Edge	7T-9976**	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
	1DH600-Up,1RP,3EP,CLH,BHM	Straight	1.00	25	Center Edge	4T-2985 (3)	5J-4773 (5)	2J-3506 (5)	5P-8248 (5)
	2G,3G,15E,36D,38D,39H,80D,85C	Straight	0.75	19	Center Edge	4T-3023	3F-5108 (22)	4K-0367 (22)	5P-8247 (22)
	15C1-5000	Straight	0.75	19	Center Edge	4T-3021	3F-5108 (18)	4K-0367 (18)	5P-8247 (18)
	17H,46G,55G,63S,95E	Straight	0.75	19	Left End /Right End	4T-3010	4F-7827 (4)	2J-3506 (4)	5P-8248 (4)
	21H,41H	Straight	0.75	19	Center Edge	4T-3013	4F-7827 (7)	2J-3506 (7)	5P-8248 (7)
			0.75	19	Left End/Right End	4T-3010	4F-7827 (4)	2J-3506 (4)	5P-8248 (4)
6S-LPG	16C1-5000	Straight	0.62	16	Center Edge	4T-2976	4F-7827 (11)	2J-3506 (11)	5P-8248 (11)
			0.62	16	Center Edge	4T-2977	3F-5108 (22)	4K-0367 (22)	
	09A,01C,06C	Straight	1.00	25	Center Edge	4T-6659(3)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
	1AH,2LH,3FH,1SP,3HP,BHG	Straight	1.00	25	Center Edge	7T-9976 (3)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
	1AH,2LH,3FH,1SP,3HP,BHG	Straight	1.00	25	Center Edge	9W-1878 (8)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
	1CH,2NH,4PH,8AH,8BH	Semi-U	0.75	19	Center Edge	6Y-3840 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
	1CH,2NH,4PH,1TP,3FP,1WP,3RP	Semi-U	1.00	25	Center Edge	6Y-3840 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
	8AH,8BH	Semi-U	1.00	25	Center Edge	106-0956 (2)	5J-4473 (9)	2J-3506 (9)	5P-8248 (9)
	8AH,8BH(Custom Wide)	Semi-U (Wide XL)	0.75	19	Center Edge	4T-6659	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	2SP,6GP,ECA,SGD	Semi-U	0.75	19	Center Edge	9U-8057 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
6SU	1TP,3FP,1WP,3RP,4AP,8SP,BHM	Semi-U	0.75	19	Center Edge	9W-1878 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			1.00	25	Center Edge	6Y-3840 (2)	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			0.75	19	Center Edge	106-0956 (2)	5J-4773 (9)	2J-3506 (9)	5P-8248 (9)
			1.00	25	Center Edge	229-6599 (2)	5J-4773 (9)	2J-3506 (9)	5P-8248 (9)
6SU Custom Wide	1WP,9BP	Semi-U			Center Edge				
6PXL	B6X,G6M,G6N	Power Angle & Tilt	0.75	19	Center Edge	3G-4282 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
6P-LGP	4MP,B6L,G6G,4TP,4WP	Power Angle & Tilt	0.75	19	Center Edge	4T-2315 (2)	5J-4773 (10)	2J-3506 (10)	5P-8248 (10)
	4TP,4WP	Power Angle & Tilt	0.75	19	Center Edge	127-3050 (2)	5J-4773 (10)	2J-3506 (10)	5P-8248 (10)
	G6M	Power Angle & Tilt	0.75	19	Center Edge	3G-4282 (2)	5J-4773 (7)	2J-3506 (7)	5P-8248 (7)
6P-LGP Foldable	F6W,F6Y	Power Angle & Tilt	0.75	19	Center Edge	177-4550 (2)	5J-4773 (9)	2J-3508 (9)	5P-8248 (9)

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Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in) (mm)		EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
7S	2E,5A,17C1-5000,17E,34D,83D,84C	Straight	0.75	19	Center Edge	4T-2954	5J-4771 (23)	2J-3506 (23)	
			1.00	25	Center Edge	4T-2864	5J-4771 (23)	2J-3506 (23)	
	6KB,8ZB,4XC,8NH,J8L,CDL	Straight	0.75	19	Center Edge	4T-5318 (3)	6F-0196 (6)	2J-3505 (6)	5P-8248 (6)
			1.00	25	Center Edge	7T-6678*	6F-0196 (6)	2J-3505 (6)	5P-8248 (6)
			1.38	35	Center Edge	107-3363 (3)	6F-0196 (6)	2J-3505 (6)	5P-8249 (6)
	23F,31F,59F,14H	Straight	0.75	19	Center Edge	4T-2946	5J-4773 (7)	2J-3506 (7)	
					Left End/Right End	4T-2945 (2)	5J-4773 (5)	2J-3506 (5)	
			1.00	25	Left End/Right End	4T-2991	5J-4773 (5)	2J-3506 (5)	
	49K,53J,60K,64K,57G	Straight			Center Edge	4T-2990	5J-4773 (7)	2J-3506 (7)	
			0.75	19	Center Edge	4T-2921	5J-4772 (7)	2J-3505 (7)	5P-8248 (7)
				Left End/Right End	4T-2922 (2)	5J-4772 (5)	2J-3505 (5)	5P-8248 (5)	
1.00			25	Left End/Right End	4T-2992	6F-0196 (5)	2J-3505 (5)	5P-8249 (5)	
				Center Edge	4T-2993	6F-0196 (7)	2J-3505 (7)	5P-8249 (7)	
				Left End/Right End	9W-9794	5J-4772 (5)	2J-3505 (5)	5P-8249 (5)	
				Center Edge	9W-9795*	5J-4772 (7)	2J-3505 (7)	5P-8249 (7)	
7S-LGP	6JB,3GH,4FG,4XH,5GH	Straight	0.75	19	Center Edge	4T-3901 (3)	6F-0196 (7)	2J-3505 (7)	
			1.38	35	Center Edge	135-9778 (3)*	6F-0196 (7)	2J-3505 (7)	
	2RP,8RH,5SP,9KP,J4L,CDN	Straight	0.75	19	Center Edge	128-5883 (3)	6F-0196 (7)	2J-3505 (7)	
			1.00	25	Center Edge	4T-7110	5J-4772 (9)	2J-3505 (9)	
			1.38	35	Center Edge	145-7846 (3)	6F-0196 (7)	2J-3505 (7)	
	3GH,4FG,6JB,4XH,56H	Straight	1.00	25	Left End/Right End	7T-6592*	5J-4772 (5)	2J-3505 (5)	
			5SB,7AC,9JB,8MH,J1L,CDL	Universal	1.00	25	Left End/Right End	7T-6592	6F-0196 (4)
	42G	Universal				Center Edge	7T-6591 (2)*	6F-0196 (6)	2J-3505 (6)
			0.75	19	Center Edge	4T-2955	5J-4773 (9)	2J-3506 (9)	
			1.00	25	Left End/Right End	4T-2952 (2)	5J-4773 (5)	2J-3506 (5)	
7U	85D,61K,94R	Universal			Left End/Right End	4T-2985	5J-4773 (5)	2J-3506 (5)	
					Center Edge	4T-2890	5J-4773 (9)	2J-3506 (9)	
			0.75	19	Center Edge	4T-2917	5J-4772 (9)	2J-3505 (9)	5P-8249 (9)
			Left End/Right End	4T-2916 (2)	5J-4772 (5)	2J-3505 (5)	5P-8249 (5)		
	1.00	25	Center Edge	4T-3421	5J-4772 (9)	2J-3505 (9)	5P-8249 (9)		
			Left End/Right End	4T-3420 (2)	5J-4772 (5)	2J-3505 (5)	5P-8249 (5)		
			Center Edge	9W-9793*	5J-4772 (9)	2J-3505 (9)	5P-8249 (9)		
			Left End/Right End	9W-9792* (2)	5J-4772 (5)	2J-3505 (5)	5P-8249 (5)		
	2FC,2JH,4DB,1JP,8LH,CDT,J6L,BHT	Semi-U	1.00	25	Left End/Right End	7T-6936	6F-0196 (4)	2J-3505 (4)	
				Center Edge	7T-6678*	6F-0196 (6)	2J-3505 (6)		
7SU			1.38	35	Left End/Right End	107-3362	6F-0196 (4)	2J-3505 (4)	
					Center Edge	107-3363	6F-0196 (6)	2J-3505 (6)	

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.
 * Edges are 11" (280 mm) wide.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
75U (cont.)	4DB,2FC,2JH,1JP,8LH,CDT,J6L,BHT	Semi-U	0.75	19	Center Edge	4T-5318	6F-0196 (6)	2J-3505 (6)	
					Left End/Right End	1U-1192 (2)	6F-0196 (6)	2J-3505 (6)	
7A	3CC,4EB,4ZC	Angle	0.75	19	Center Edge	4T-3901 (3)	6F-0196 (7)	2J-3505 (7)	5P-8248 (8)
			1.00	25	Center Edge	7T-6589 (3)*	6F-0196 (7)	2J-3505 (7)	5P-8249 (7)
			1.38	35	Center Edge	135-9778*	6F-0196 (7)	2J-3505 (7)	5P-8248 (8)
	6A,17C5001-Up,35D,84D,6E,18E	Angle	0.75	19	Center Edge	4T-2949 (2)	5J-4771 (15)	2J-3506 (15)	
			1.00	25	Center Edge	4T-2863 (3)	5J-4771 (15)	2J-3506 (15)	5P-8248 (15)
			0.75	19	Center Edge	4T-2948 (3)	5J-4771 (7)	2J-3506 (7)	5P-8248 (7)
8U	1JH,2WP,6AH,9CH,9WP,CXB,A5G,DZB	Universal	1.00	25	Center Edge	4T-2989 (3)	5J-4771 (7)	2J-3506 (7)	5P-8248 (7)
			1.00	25	Center Edge	9W-9796 (3)*	5J-4771 (7)	2J-3506 (7)	5P-8248 (7)
			1.12	28	Center Edge	9W-5232 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Left End/Right End	4T-6378 (2)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			1.38	35	Left End/Right End	7T-9127	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-6092 (2)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			1.77	45	Left End/Right End	112-2473	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	112-2475 (2)**	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			1.00	25	Center Edge	4T-3422 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
					Left End/Right End	4T-3417 (2)	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
			1.38	35	Left End/Right End	1U-4929	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	1U-4931 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	Left End/Right End	6Y-6359*	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	6Y-6360 (2)*	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	6Y1-1395	Universal	1.62	41	Left End Edge/Right End	7T-4346/45*	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	7T-4347 (2)*	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.77	45	Left End/Right End	107-3480	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
			1.77	45	Center Edge	107-3483 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	Center Edge	4T-9590	4J-9058 (14)	2J-3507 (14)	
					Left End/Right End	4T-9587 (2)	4J-9058 (5)	2J-3507 (5)	
			1.38	35	Left End/Right End	9W-4398	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-4397	4J-9058 (14)	2J-3507 (14)	5P-8250 (14)
			1.77	45	Left End/Right End	9W-3927	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-3926*	4J-9058 (14)	2J-3507 (14)	5P-8250 (14)
			1.00	25	Center Edge	4T-3419	1J-6762 (12)	2J-3506 (12)	
					Left End/Right End	4T-2861 (2)	1J-6762 (9)	2J-3506 (9)	
			1.00	25	Center Edge	4T-6513	5J-2409 (10)	2J-3505 (10)	
					Left End/Right End	4T-6512 (2)	5J-2409 (6)	2J-3505 (6)	
			1.38	35	Left End/Right End	6Y-6762	5J-2409 (6)	2J-3505 (6)	
					Center Edge	6Y-6765	5J-2409 (10)	2J-3505 (10)	

* Edges are 11" (280 mm) wide.

Number in parentheses () after the part number indicates the quantity required.

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Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
8U (cont.)	20F,45K,48K	Universal	1.57	40	Center Edge	7T-4355**	4J-9058 (10)	2J-3507 (10)	
					Left End/Right End	7T-4354 (2)**	4J-9058 (6)	2J-3507 (6)	
			1.77	45	Left End/Right End	107-3475	5J-2409 (6)	2J-3505 (6)	
					Center Edge	107-3478	5J-2409 (10)	2J-3505 (10)	
	29J,30E,73E	Universal	1.77	45	Left End/Right End	107-3474	5J-2409 (6)	2J-3505 (6)	5P-8249 (6)
					Center Edge	107-3478	5J-2409 (10)	2J-3505 (10)	5P-8249 (10)
			1.00	25	Center Edge	4T-2986	4J-9058 (5)	2J-3507 (5)	
					Left End/Right End	4T-2987 (2)	4J-9058 (6)	2J-3507 (6)	
			1.38	35	Left End/Right End	9W-8656	4J-9058 (5)	2J-3507 (5)	
					Center Edge	9W-8655 (2)	4J-9058 (6)	2J-3507 (6)	
8SU	1KH,2PP,2TP,3MP,3WH,1HP,6LH,9BH,9PH,2NP 05A,9TP,BHW,B8S,DZA	Semi-U	1.57	40	Left End/Right End	7T-4349/50**	4J-9208 (5)	2J-3507 (5)	
					Center Edge	7T-4352 (2)*	4J-9208 (6)	2J-3507 (6)	
			1.77	45	Left End/Right End	107-3481	4J-9058 (6)	2J-3507 (6)	
					Center Edge	107-3473 (2)	4J-9058 (5)	2J-3507 (5)	
			1.12	28	Center Edge	4T-6381	4J-9058 (9)	2J-3507 (9)	5P-8250 (9)
					Left End/Right End	6Y-5540 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
			1.38	35	Center Edge	7T-9126	4J-9058 (9)	2J-3507 (9)	5P-8250 (9)
					Left End/Right End	7T-9125 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
			1.77	45	Center Edge	112-2472	4J-9058 (9)	2J-3507 (9)	5P-8250 (9)
					Left End/Right End	112-2471 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
4Y1-1939	3E,8A,12C,18C,32D,44C,1192,86D	Semi-U	0.75	19	Center Edge	4T-2944 (2)	1J-6762 (13)	2J-3506 (13)	5P-8248 (13)
			1.00	25	Center Edge	4T-2860 (2)	1J-6762 (13)	2J-3506 (13)	5P-8248 (13)
			1.12	28	Left End/Right End	4T-3417	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	4T-3423 (2)	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
			1.38	35	Left End/Right End	1U-4929	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	1U-4930 (2)	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Left End/Right End	6Y-6359**	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	6Y-6358 (2)**	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
			1.57	40	Left End/Right End	7T-4346/45**	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	7T-5235**	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
4Y1940-Up		Semi-U	1.77	45	Left End/Right End	107-3482	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	107-3480 (2)	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
			1.12	28	Center Edge	4T-9586	4J-9058 (11)	2J-3507 (11)	5P-8250 (11)
					Left End/Right End	6Y-5540 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
			1.38	35	Left End/Right End	9W-4398	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-4396	4J-9058 (11)	2J-3507 (11)	5P-8250 (11)
			1.77	45	Left End/Right End	9W-3927	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-3925	4J-9058 (11)	2J-3507 (11)	5P-8250 (11)

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Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
8SU (cont.)	14J,44K,47K,69E,80V,95S	Semi-U	1.00	25	Center Edge	4T-3418 (2)	5J-2409 (10)	2J-3505 (10)	
			1.38	35	Center Edge	6Y-6763 (2)	5J-2409 (10)	2J-3505 (10)	5P-8249 (10)
			1.57	40	Center Edge	6Y-5777 (2)**	5J-2409 (10)	2J-3505 (10)	5P-8249 (10)
			1.77	45	Center Edge	107-3476 (2)	5J-2409 (10)	2J-3505 (10)	5P-8249 (10)
			1.00	25	Center Edge	4T-6531 (2)	5J-2409 (10)	2J-3505 (10)	
	29E,78C,94E	Semi-U	1.38	35	Center Edge	6Y-6764 (2)	5J-2409 (14)	2J-3505 (14)	5P-8249 (14)
			1.57	40	Center Edge	6Y-5776 (2)*	5J-2409 (14)	2J-3505 (14)	5P-8249 (14)
			1.77	45	Center Edge	107-3477 (2)	5J-2409 (14)	2J-3505 (14)	5P-8249 (14)
			1.00	25	Center Edge	4T-2862 (2)	1J-6762 (14)	2J-3506 (14)	5P-8248 (14)
			1.12	28	Center Edge	4Z-9058	4J-9058 (13)	2J-3507 (13)	5P-8250 (13)
8SU LGP	44C1193-Up,73D KMB,LAA,DZC	Semi-U	1.12	28	Center Edge	6Y-5540 (2)	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
			1.12	28	Left End/Right End	7T-6591*	5J-4772 (9)	2J-3505 (9)	5P-8249 (9)
			1.38	35	Center Edge	135-6537	6F-0196 (7)	2J-3505 (7)	5P-8249 (7)
			1.77	45	Center Edge	112-2474 (3)	4F-4042 (8)	2J-3507 (8)	5P-8250 (8)
			1.00	25	Left End/Right End	4T-2987	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
	5Y,27B,41Z	Angle	1.38	35	Center Edge	4T-2988 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	Left End Edge/Right End	9W-8657	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	9W-8655 (2)*	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
					Left End/Right End	1U-4932	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	1U-4933 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
8A	11H,2XP,6NH,9AH,4ZP	Angle	1.57	40	Left End/Right End	7T-4352	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	7T-4353 (2)**	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.77	45	Left End/Right End	107-3481	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	107-3479 (2)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			0.75	19	Center Edge	4T-2943 (2)	1J-6762 (16)	2J-3506 (16)	
	07A,18C,33D,99D,87D,07E,22E,72D	Angle	1.00	25	Center Edge	4T-2888 (2)	1J-6762 (16)	2J-3506 (16)	
			1.38	35	Center Edge	9W-8657 (2)	1J-6762 (16)	2J-3506 (16)	
			1.00	25	Center Edge	4T-6532 (4)	5J-2409 (6)	2J-3505 (6)	
			1.38	35	Center Edge	6Y-6761 (4)	5J-2409 (6)	2J-3505 (6)	
			1.57	40	Center Edge	107-3474 (4)**	5J-2409 (6)	2J-3505 (6)	
28E1-11125	28E11126-UP,93E,14F,77C	Angle	1.00	25	Center Edge	4T-2994 (3)	4J-9058 (8)	2J-3507 (8)	
			1.38	35	Center Edge	9W-8658 (3)	4J-9058 (8)	2J-3507 (8)	
			1.57	40	Center Edge	107-3484 (3)**	4J-9058 (8)	2J-3507 (8)	
					Left End/Right End	7T-4351 (3)**	4J-9058 (8)	2J-3507 (8)	
			1.12	28	Center Edge	135-9373 (3)	4F-4042 (8)	2J-3507 (8)	5P-8250 (8)
	BHR,9ZP,DZD,D1E,D1F	Angle	1.38	35	Center Edge	136-9628 (3)	4F-4042 (8)	2J-3507 (8)	5P-8250 (8)
			1.77	45	Center Edge	135-9629 (3)	4F-4042 (8)	2J-3507 (8)	5P-8250 (8)

Number in parentheses () after the part number indicates the quantity required.
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 * Edges are 11" (280 mm) wide.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
8C	71F,77G	Cushion	1.00	25	Center Edge	4T-2867 (1)	5J-2409 (13)	2J-3505 (13)	
8R	43K	Rip Dozer	1.00	25	Center Edge	4T-3418 (2)	5J-2409 (10)	2J-3505 (10)	
9U	11LH, 1MP, 2ZH, 7PH, 9MP, CMH, CMN CMS, CMW, CMZ	Universal	1.12	28	Center Edge	6Y-5538	4J-9208 (15)	2J-3507 (15)	5P-8250 (15)
					End	6Y-5540 (2)	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
			1.38	35	Left End/Right End	7T-9125	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	7T-5701	4J-9058 (15)	2J-3507 (15)	5P-8250 (15)
			1.77	45	Left End/Right End	112-2471	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-7044**	4J-9058 (15)	2J-3507 (15)	5P-8250 (15)
	14C, 19K, 78X	Universal	1.12	28	Center Edge	4T-6378 (3)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					End Edge	4T-6378 (3)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Intermediate Edge	4T-6379 (2)	4J-9058 (4)	2J-3507 (4)	5P-8250 (4)
			1.38	35	Right / Left End Edge	9W-6092	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Intermediate Edge	9W-9197	4J-9058 (4)	2J-3507 (4)	5P-8250 (4)
					Center Edge	9W-6092	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			1.57	40	Left End/Right End	7T-4341*	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Left Intermediate	7T-4336*	4J-9058 (4)	2J-3507 (4)	5P-8250 (4)
					Center Edge	7T-4341*	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Right Intermediate	7T-4337*	4J-9058 (4)	2J-3507 (4)	5P-8250 (4)
			1.62	41	Right/Left End Edge	7J-2959	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Intermediate Edge	7J-2979	4J-9208 (4)	2J-3507 (4)	5P-8250 (4)
					Center Edge	7J-2959	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
19Y1-1474, 78S	Universal	Universal	1.12	28	Left End/Right End	4T-6382	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	4T-6381	4J-9208 (9)	2J-3507 (9)	5P-8250 (9)
			1.38	35	Left End/Right End	9W-4503	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	7T-9126 (2)	4J-9208 (9)	2J-3507 (9)	5P-8250 (9)
			1.38	35	Left End/Right End	6Y-0315*	1J-4948 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	6Y-0313 (2)**	1J-4948 (9)	2J-3507 (9)	5P-8250 (9)
					Right End Edge	6Y-0314*	1J-4948 (6)	2J-3507 (6)	5P-8250 (6)
			1.62	41	Left End/Right End	9W-4506	1J-4948 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	9W-4507 (2)	1J-4948 (9)	2J-3507 (9)	5P-8250 (9)
			1.77	45	Left End Edge/Right End	6Y-0481/80*	1J-4948 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	6Y-0479 (2)**	1J-4948 (9)	2J-3507 (9)	5P-8250 (9)
			1.38	35	Left End/Right End	7T-9781	6V-8360 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-0775 (3)	6V-8360 (5)	2J-3507 (5)	5P-8250 (5)
			1.77	45	Left End/Right End	9W-3929	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					Center Edge	9W-3931 (3)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			1.12	28	Center Edge	4T-6453 (1)	4J-9058 (13)	2J-3507 (13)	5P-8250 (13)
					End Edge	4T-6457 (2)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
9U (cont.)	55C	Universal	1.62	41	Left End/Right End	7J-2964	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	7J-2963	4J-9058 (13)	2J-3507 (13)	5P-8250 (13)
9SU	1LP,1MH,2LP,5BH,7NH,22P,2B,9LH,9RP CLC,CLN,CLY,CMA	Semi-U	1.10	28	Center Edge	6Y-5539 (1)	4J-9208 (12)	2J-3507 (12)	5P-8250 (12)
					End	6Y-5540 (2)	4J-9208 (5)	2J-3507 (5)	5P-8250 (5)
			1.38	35	Left End/Right End	7T-9125	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	7T-5702	4J-9058 (12)	2J-3507 (12)	5P-8250 (12)
			1.77	45	Left End/Right End	112-2471	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
					Center Edge	9W-7043	4J-9058 (12)	2J-3507 (12)	5P-8250 (12)
			1.12	28	Center Edge	4T-6386 (3)	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	Center Edge	9W-4500 (3)	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.57	40	Center Edge	7T-4342 (3)*	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.62	41	Center Edge	7J-2980 (3)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	Center Edge	4T-6386	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
					End Edge	4T-6385 (2)	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
	18Y1-1875,42S,52Y	Semi-U	1.38	35	Left End/Right End	9W-4502	1J-4948 (8)	2J-3507 (8)	5P-8250 (8)
					Center Edge	9W-4500	1J-4948 (7)	2J-3507 (7)	5P-8250 (7)
					Left End Edge	6Y-0311*	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
					Center Edge	6Y-0310**	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
					Right End Edge	6Y-0312*	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
			1.62	41	Left End/Right End	9W-4508	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
					Center Edge	7J-2980	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.77	45	Left End Edge	6Y-0477*	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
					Center Edge	6Y-0476**	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
					Right End Edge	6Y-0478*	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
			1.12	28	Center Edge	4T-6459 (1)	8J-2928 (9)	2J-3507 (9)	5P-8250 (9)
			1.62	41	End Edge	4T-6456 (2)	8J-2928 (6)	2J-3507 (6)	5P-8250 (6)
	21E1-831,25E,06A	Semi-U			Center Edge	7J-2961 (1)	4J-9208 (9)	2J-3507 (9)	5P-8250 (9)
					End Edge	7J-2960 (2)	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
			1.38	35	Left End/Right End	7T-9779	6V-8360 (5)	3K-9770 (5)	4K-0684 (5)
					Center Edge	7T-9782 (2)	6V-8360 (6)	3K-9770 (6)	4K-0684 (6)
			1.77	45	Left End/Right End	9W-3930	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					Center Edge	9W-3928 (2)	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
			1.12	28	Center Edge	4T-6448	4J-9208 (10)	2J-3507 (10)	5P-8250 (10)
			1.62	41	Center Edge	7J-2962 (2)	4J-9208 (10)	2J-3507 (10)	5P-8250 (10)
			1.12	28	Center Edge	4T-6378 (4)	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
					Center Edge	4T-6377 (3)	4J-9058 (4)	2J-3507 (4)	5P-8250 (4)
					Center Edge	4T-6379 (2)	4F-4042 (4)	2J-3507 (4)	5P-8250 (4)
9U SXS	20H	Universal			Center Edge				

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.
 * Edges are 11" (280 mm) wide.

Ground Engaging Tools – Bulldozer Blades

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
9A	55C	Angle	1.12	28	Center Edge	4T-6388 (1)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
					End Edge	4T-6387 (2)	8J-2928 (9)	2J-3507 (9)	5P-8250 (9)
			1.62	41	Center Edge	7J-2966 (1)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
					End Edge	7J-2965 (2)	8J-2928 (9)	2J-3507 (9)	5P-8250 (9)
9C	70F,45G,20Y	Cushion	1.12	28	Center Edge	4T-6450(1)	8J-2928 (15)	2J-3507 (15)	5P-8250 (15)
					End Edge	4T-6388 (2)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
9R	39K	Rip Dozer	1.12	28	Center Edge	4T-6386 (3)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.62	41	Center Edge	7J-2980 (3)	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
10U	80W	Universal	1.38	35	Left End/Right End	1U-4457 (2)	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
					Center Edge	1U-4458 (3)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.57	40	Left End/Right End	4T-0084 (2)	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
					Center Edge	4T-0083 (3)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.77	45	Left End/Right End	6Y-0019 (2)	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
					Center Edge	6Y-0018 (3)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			2.00	50	Left End/Right End	4T-0608 (2)	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
					Center Edge	4T-0609 (3)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			2.36	60	Left End/Right End	6Y-0022 (2)	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
					Center Edge	6Y-0023 (3)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
10SU	79W	Semi-U	1.38	35	Center Edge	9W-6615 (3)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			1.77	45	End	9W-6608 (2)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					Center Edge	9W-6658 (3)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			2.36	60	End	9W-6657 (2)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					Center Edge	8E-2087 (3)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					End	8E-2086 (2)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			2.36	60	Center Edge (ARM)	223-8149 (3)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					End Edge (ARM)	195-9170 (1)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					End Edge (ARM)	201-1230 (1)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			1.38	35	Center Edge	1U-4459 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					End	1U-4455 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.57	40	Center Edge	4T-0081 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					End	4T-0082 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.77	45	Left End/Right End	6Y-0017 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	6Y-0016 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			2.00	50	Center Edge	4T-0607 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
	1RH, 7RH, 4KP, 6FP, BHF, BHA	Semi-U	2.36	60	Left End/Right End	4T-0604 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	6Y-0021 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.38	35	Center Edge	9W-6609 (2)	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
					End	9W-6608 (2)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.

Ground Engaging Tools – Bulldozer Blades

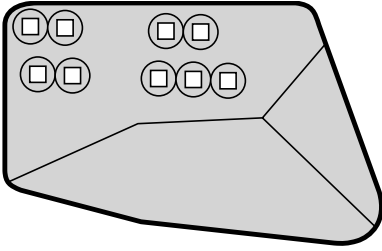
MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
10SU (cont.)	1RH,7RH,4KP,6EP,BHJ,BHA	Semi-U	1.77	45	Center Edge	9W-6656 (2)	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
					End	9W-6657 (2)	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			2.36	60	Center Edge (ARM)	195-9171 (2)	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
					End	195-9170	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
					End	201-1230	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
		Semi-U	2.36	60	Center Edge	8E-2085 (2)**	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
					End Edge	8E-2086 (2)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
			2.95	75	Center Edge	135-9580 (2)**	5P-8823 (6)	3K-9770 (6)	4K-0684 (6)
					End Edge	135-9579 (2)**	5P-8823 (5)	3K-9770 (5)	4K-0684 (5)
		Cushion	1.38	35	Right/Left End Edge	9J-3751	8J-2928 (10)	2J-3507 (10)	5P-8250 (10)
10C	83W								
11U	4CB,5TB,9MH,9ZH,4YP,8RP	Universal	1.77	45	Right/Left End Edge	9W-2425	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Right/Left Center Edge	9W-2424	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.77	45	Center Edge	9W-2426	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	138-6483 (2)#	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	138-6484	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	138-6485	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			2.36	60	Center Edge	138-6486	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Right/Left End Edge	9W-4494	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Right/Left Center Edge	9W-4493	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	9W-4495	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
11SU	1AP,4BB,4KB,9NH,4XP,8PP	Semi-U	2.36	60	Center Edge (ARM)	195-9173 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge (ARM)	195-9174 (1)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			3.00	75	Center Edge (ARM)	195-9175 (1)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge (ARM)	201-1231 (1)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	195-7187 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	135-9577 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			1.77	45	Center Edge	135-9578**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Left End/Right End	9W-2425	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	9W-2426 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Left End/Right End	9W-4494	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
11 Carrydozer	5JP,BHZ	General Duty	2.36	60	Center Edge	9W-4495 (2)	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Center Edge	135-9578 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
			3.00	75	Center Edge	135-9577 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					End Edge	135-9577 (2)**	5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
					Reversible Edge	238-3171 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)
					One-Way Edge	229-7052 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)
		Extended Wear Life	2.36	60	Reversible Edge	238-3177 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)
					One-Way Edge	267-8654 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)
		Extended Wear Life (ARM)	2.36	60	Reversible Edge	268-8751 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)
					One-Way Edge	268-8750 (5)	5P-8361 (8)	3K-9770 (8)	4K-0684 (8)

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.
 # 195-5118 — Same as 136-6153/4 with one sharp edge.

* Edges are 11" (280 mm) wide.

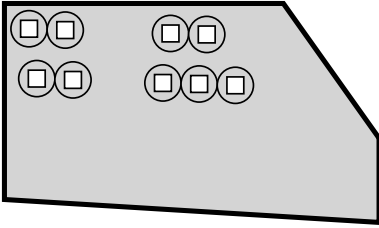
Ground Engaging Tools – Bulldozer End Bits

Bulldozer End Bits



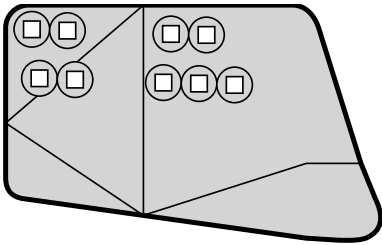
General Duty End Bits

- Provides a thicker wear area than the cutting edge.
- Made from DH-2 steel in the D3 through D6 sizes.
- Made from DH-3™ steel in the D7 through D11 sizes.
- For use in most dozing applications.



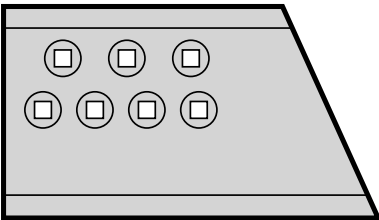
Utility End Bits

- Provides good corner protection in high impact, high abrasion materials.
- Made from through-hardened DH-2 steel.
- For use in applications where face wear is a problem.



Extended Wear Life End Bits

- Provides an excellent cutting edge to end bit wear ratio in abrasive conditions.
- Provides a maximum depth of cut relative to the cutting edge.
- Provides a thicker wear area than the cutting edge.
- Made from DH-2 steel in the D4 through D6 sizes.
- Made from DH-3 steel in the D7 through D11 sizes.



Finish Dozing End Bits

- Provides a depth of cut equal to the cutting edge.
- Protects the blade corner in low impact, low abrasion materials.
- Made from through-hardened DH-2 steel.
- For use in finish and semi-finish dozing.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS		GENERAL END BITS		UTILITY END BITS		EXTENDED WEAR LIFE END BITS		FINISH DOZING END BITS		BOLTS	NUTS	WASHERS
			(in)	(mm)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)			
D3	5WH,6EH,85J 96X,8XP,8HP 8KP,2JP,9RH 1GP,8JP	Power Angle & Tilt	0.62	16							4T-6229	4T-6229	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
	15W,31M,40V 86U,5LH	Straight	0.62	16							4T-6229	4T-6229	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
	2A,4A,19J 25F,27F,40D 45J,67E,67F 84E,93C,94G	Straight	0.75	19	9F-7074	9F-7073					4T-3052	4T-3051	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	2TC,3CH,3DC 4HC	Straight	0.88	22	3G-8322	3G-8321			4T-5408	4T-5407	4T-3052	4T-3051	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
D4	2YH,4AC,4GH 6CH,6DH,8ZH 9YH	Power Angle & Tilt	0.62	16							8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	5EC,5NH,5RH 6XH,9ZB,7CH 7EH	Power Angle & Tilt	0.62	16							6Y-5840**	6Y-5839**	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
	2YH,4AC,4GH 6CH,6DH,8ZH 9SH,9TH,9YH 8MP,8YP,8LP	Power Angle & Tilt	0.88	22					4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	5NH,7CH,5EC, 5RH,9ZB	Power Angle & Tilt	0.88	22							4T-6229	4T-6229	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
D5	2AH,2MH,7AH 6JP,4GP HGP,W5C	Power Angle & Tilt	0.88	22							6Y-5840	6Y-5839	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
	2BH,4FH,4AH 6MH,9WH,8GP 7BH	Straight	0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
		Power Angle & Tilt	0.88	22							8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
		Semi-U	0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)

** Angled.

* Heavy Duty Mining end bit.

Number in parentheses () after the part number indicates the quantity required.
Hot cupped end bits.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (in) (mm)		GENERAL END BITS (lh) (rh)		UTILITY END BITS (lh) (rh)		EXTENDED WEAR LIFE END BITS (lh) (rh)		FINISH DOZING END BITS (lh) (rh)		BOLTS	NUTS	WASHERS
D5 (cont.)	10J,12J,16K	Straight	0.75	19	9F-7074	9F-7073					4T-3052	4T-3051	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	10J,12J,16K 19R,90H,92H 97H	Straight	0.88	22	3G-8322	3G-8321					4T-3052	4T-3051	3F-5108 (6)	4K-0367 (6)	5P-8247 (6)
	91H,96H,42K 11J,13J,98H	Angle	0.75	19	9F-7076	9F-7075					4T-3050	4T-3049	3F-5108 (6)	4K-0367 (6)	
	93H1-3846		0.88	22	3G-8296	3G-8295					4T-3050	4T-3049	3F-5108 (6)	4K-0367 (6)	
	93H-3847-Up 6RH		0.75	19	4J-8262	4J-8261					4T-3042	4T-3041	4F-7827 (6)	2J-3506 (6)	
			0.88	22	3G-8298	3G-8297					4T-3042	4T-3041	4F-7827 (6)	2J-3506 (6)	
			1.00	25	8E-9900	8E-9901					4T-3042	4T-3041	4F-7827 (6)	2J-3506 (6)	
	3AH,2FH,2TH	Angle	0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9379**	8E-9378**	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	1YH,2SH,8HY	Power Angle & Tilt	0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	1ZH,3KH	Straight	0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
D5 LGP	8NP,8ZP 6PH,9XH	Power Angle & Tilt									6Y-5840**	6Y-5839**	3F-5108 (3)	4K-0367 (3)	5P-8247 (3)
	1BH570-Up 3PP,4BP,1XP 3GP,1ZP,6HP,1YP	Angle	1.18 1.38	30 35	6Y-4410	6Y-4411	122-8617	122-8618	9W-1876	9W-1875	9W-8875	9W-8874	5J-4773 (6) 5J-4773 (6)	2J-3506 (6) 2J-3506 (6)	5P-8248 (6) 5P-8248 (6)
	01C,02G,03G	Straight	0.88	22	9F-7074	9F-7073					4T-3052	4T-3051	3F-5108 (6)	4K-0367 (6)	
	6C,9A,800		0.88	22	3G-8322	3G-8321							4F-0391 (3)	4K-0367 (3)	
	15C1-5000,15E														
	02G,16C1-5000														
	36D,03G,38D														
	39H,85C														
	1CH,2NH,4PH 8BH,8AH	Semi-U	1.18 1.38	30 35	6Y-4410	6Y-4411	122-8617	122-8618	9W-1876	9W-1875	9W-8875	9W-8874	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	2SP,6GP ECA,S6D	Semi-U							4T-5408	4T-5407	8E-9378	8E-9379	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	1TP,3FP,1WP 3RP,4AP,8SP 9BP,BHM	Semi-U	1.18	30	6Y-4410	6Y-4411	122-8617	122-8618	9W-1875	9W-1876	9W-8875	9W-8874	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	1DH1-599,1AH 2HH,3JH,4BH	Straight							4T-4454	4T-4455	4T-4436	4T-4435	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	1DH600-Up 1RP,3EP CLH,BHN	Straight	1.18	30	6Y-4410	6Y-4411	122-8617	122-8618	9W-1876	9W-1875	9W-8875	9W-8874	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
	3EH,4DH,4LH 1BH1-569	Angle							4T-4454	4T-4455	4T-4436	4T-4435	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)

** Angled.

* Heavy Duty Mining end bit.

Number in parentheses () after the part number indicates the quantity required.

Hot cupped end bits.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (in) (mm)		GENERAL END BITS (lh) (rh)		UTILITY END BITS (lh) (rh)		EXTENDED WEAR LIFE END BITS (lh) (rh)		FINISH DOZING END BITS (lh) (rh)		BOLTS	NUTS	WASHERS
D6 (cont.)	3F,4F,8E 9E,15C5001-Up 16C5001-Up 16E,37D,39D 40H,81D,82D	Angle	0.88	22	3G-8296	3G-8295					4T-3050	4T-3049	3F-5108 (6)	4K-0367 (6)	
			0.88	22	9F-7076	9F-7075							3F-5108 (6)	4K-0367 (6)	
	17H,21H,46G 55G,63S,95E	Straight	0.88	22	5J-1420	5J-1419					4T-3046	4T-3045	4F-7827 (6)	2J-3506 (6)	
			0.88	22	3G-8320	3G-8319							4F-7827 (6)	2J-3506 (6)	
			1.00	25	9W-9014	9W-9015							4F-7827 (6)	2J-3506 (6)	
D6 LGP	18H,44E,47G 54U,58G	Angle	0.75	19	4J-8262	4J-8261					4T-3042	4T-3041	4F-7827 (6)	2J-3506 (6)	
			0.88	22	3G-8298	3G-8297					4T-3042	4T-3041	4F-7827 (6)	2J-3506 (6)	
			1.00	25	8E-9900	8E-9901							4F-7827 (6)	2J-3506 (6)	
	1AH,2LH,3FH 1SP,3HP,BHN 4MP,4TP,4WP B6L, G6G, G6M	Straight							4T-4454	4T-4455	4T-4436	4T-4435	5J-4773 (6)	2J-3506 (6)	5P-8248 (6)
			0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378**	8E-9379**	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
D6, D6XL	F6W,F6Y 3WP,3XP,B6X G6M,G6N	Power Angle & Tilt	0.75	19			177-4552	177-4551					5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
			0.88	22	140-6788#	140-6787#			4T-5408	4T-5407	8E-9378**	8E-9379**	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
			1.18	30	6Y-4410	6Y-4411	122-8617	122-8618	9W-1875	9W-1876	9W-8875	9W-8874	5J-4773 (4)	2J-3506 (4)	5P-8248 (4)
	2E,5A 17C1-5000,17E 34D,83D,84C	Straight	1.38	35							4T-6672	4T-6671	5J-4771 (7)	2J-3506 (7)	
			1.38	35	9W-6198	9W-6199					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
D7	4EB,13H 22F,30F,72F 13F,30C,4ZC	Angle	0.88	22	3G-8294	3G-8293					4T-6506	4T-6505	5J-2409 (7)	2J-3505 (7)	5P-8249 (7)
			1.00	25	3G-8316	3G-8315					4T-6506	4T-6505	5J-2409 (7)	2J-3505 (7)	5P-8249 (7)
			1.12	28	4J-8844	4J-8843							5J-2409 (7)	2J-3505 (7)	5P-8249 (7)
	5SB,42G,61K 85D,94R,8MH 7AC,9JB	Universal	1.38	35	9W-6198	9W-6199	105-0574	105-0575					5J-2409 (7)	2J-3505 (7)	5P-8249 (7)
			1.75	45			105-0576	105-0577					5J-2409 (7)	2J-3505 (7)	5P-8249 (7)
			0.88	22	3G-8294	3G-8293					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
D7	6A,6E 17C5001-Up,18E 35D,84D	Angle	1.00	25	3G-8316	3G-8315	105-0574	105-0575					6F-0196 (7)	2J-3505 (7)	
			1.38	35			105-0576	105-0577					6F-0196 (7)	2J-3505 (7)	
			1.75	45									5J-4771 (4)	2J-3506 (4)	
			0.88	22	3J-2466	3J-2465							1J-6761 (3)	2J-3506 (3)	
			1.12	28	3J-2466	3J-2465					4T-6668	4T-6667			

Number in parentheses () after the part number indicates the quantity required.

* Heavy Duty Mining end bit.

** Angled.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (in)	THICKNESS (mm)	GENERAL END BITS (lh)	GENERAL END BITS (rh)	UTILITY END BITS (lh)	UTILITY END BITS (rh)	EXTENDED WEAR LIFE END BITS (lh)	EXTENDED WEAR LIFE END BITS (rh)	FINISH DOZING END BITS (lh)	FINISH DOZING END BITS (rh)	BOLTS	NUTS	WASHERS
D7 (cont.)	6KB,14H,8ZB 23F,31F,49K 53J,59F,60K 64K,4XC,8ZB 8NH,CDC J8L,576	Straight	0.88	22	3G-8294	3G-8293					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
			1.00	25	3G-8316	3G-8315					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
			1.12	28	4J-8844	4J-8843					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
			1.37	35			105-0574	105-0575					6F-0196 (7)	2J-3505 (7)	
			1.38	35	9W-6198	9W-6199							6F-0196 (7)	2J-3505 (7)	
D7 LGP	42G,61K,85D 5SB,8MH,CDL J1L,9J,8,7AC,94R 6JB,2RP,8RH 5SP,9KP,CDN J4L	Universal	1.75	45			105-0576	105-0577					6F-0196 (7)	2J-3505 (7)	
			1.75	45			105-0576	105-0577					6F-0196 (7)	2J-3505 (7)	5P-8249 (7)
			1.12	28	4J-8844	4J-8843					4T-6506	4T-6505	6F-0196 (7)	2J-3505 (7)	
			1.38	35	9W-6198	9W-6199							6F-0196 (7)	2J-3505 (7)	
D8	1HH,2XP,6NH 9AH,4ZF,DZD BHR,9ZP 1JH,6AH,2WP 9CH,9WP,CXB A5G,DZB	Angle	1.57	40	8E-4194	8E-4193			8E-4538	8E-4537	6Y-4278	6Y-4277	4F-4042 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50			100-3140	100-3139					4F-4042 (7)	2J-3507 (7)	5P-8250 (7)
			2.36	60			136-8756	136-8757							
			1.57	40	8E-4194	8E-4193			8E-4538	8E-4537	6Y-4278	6Y-4277	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50			100-3140	100-3139					4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
	1KH,2PP,3MP 2TP,9BH,2NP 1HP,6LH,9PH 3WH,05A,9TP KMB,LAA,BHW B85,DZA	Semi-U	2.36	60			136-8756	136-8757							
			1.58	40	8E-4194	8E-4193			8E-4538	8E-4537	6Y-4278	6Y-4277	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50			100-3140	100-3139					4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			2.36	60			136-8756	136-8757							
	07A,18C,33D 72D,87D,99D 07E,22E	Angle	1.00	25							4T-6672	4T-6671	1J-6761 (7)	2J-3506 (7)	
			1.00	25	3J-2465	3J-2466					4T-6668	4T-6667	1J-6761 (7)	2J-3506 (7)	
			1.12	28	4J-8844	4J-8843					4T-6506	4T-6505	5J-2409 (7)	2J-3505 (7)	
			1.12	28	3G-8316	3G-8315							5J-2409 (7)	2J-3505 (7)	
			1.57	40	3G-8286	3G-8285							5J-2409 (7)	2J-3505 (7)	
	28E11125,93E 14F,77C	Angle	1.12	28	9J-1478	9J-1477			7T-4091	7T-4090	4T-6240	4T-6239	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.18	30	3G-8318	3G-8317							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.57	40	3G-8288	3G-8287							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	9W-8654	9W-8653							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)

Number in parentheses () after the part number indicates the quantity required. ** Heavy Duty Mining end bit. ** Angled.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (in) (mm)		GENERAL END BITS (lh) (rh)		UTILITY END BITS (lh) (rh)		EXTENDED WEAR LIFE END BITS (lh) (rh)		FINISH DOZING END BITS (lh) (rh)		BOLTS	NUTS	WASHERS
D8 (cont.)	4Y1-1939	Semi-U	1.12	28	9J-1478	9J-1477			7T-4090	7T-4091	4T-8090	4T-8089	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.18	30	3G-8318	3G-8317					4T-8090	4T-8089	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8288	3G-8287							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	9W-8654	9W-8653							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	4Y1940-Up	Semi-U	1.12	28	4J-8724	4J-8723	100-3136	100-3135	8E-4540	8E-4539			4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	3G-8292	3G-8291			8E-4540	8E-4539			4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8284	3G-8283							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	8E-4196	8E-4197							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	5Y,27B,41Z	Angle	2.36	60			100-3138	100-3137					4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	9J-1478	9J-1477			7T-4090	7T-4091	4T-8090	4T-8089	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.18	30	3G-8318	3G-8317							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8288	3G-8287							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
	6Y1-1395 30V,34W,65X 69V	Universal	1.97	50	9W-8654	9W-8653							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	9J-1478	9J-1477					4T-6240	4T-6239			
			1.58	40	3G-8288	3G-8287			7T-4090	7T-4091	4T-6240	4T-6239	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	9W-8654	9W-8653					4T-8090	4T-8089	4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
	6Y1396-Up 8ZM,42Z	Universal	1.38	35	3G-8292	3G-8291			8E-4540	8E-4539			4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8284	3G-8283							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.75	45			100-3136	100-3135					4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	8E-4196	8E-4197							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	11C,74D,88D 24E	Universal	2.36	60			100-3138	100-3137					4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	3J-2466	3J-2465					4T-6667	4T-6668	1J-6762 (7)	2J-3506 (7)	
			1.12	28					7T-4090	7T-4091			1J-6762 (7)	2J-3506 (7)	
			1.12	28	4J-8850	4J-8849							5J-2409 (7)	2J-3505 (7)	
	14J,29E,44K 47K,69E,78C 94E	Semi-U	1.12	28	3G-8300	3G-8299							5J-2409 (7)	2J-3505 (7)	
			1.58	40	3G-8278	3G-8277							5J-2409 (7)	2J-3505 (7)	
			1.12	28	4J-8844	4J-8843					4T-6506	4T-6505	5J-2409 (7)	2J-3505 (7)	
			1.12	28	3G-8316	3G-8315							5J-2409 (7)	2J-3505 (7)	
	29V,30W,60V 68V	Semi-U	1.58	40	3G-8286	3G-8285							5J-2409 (7)	2J-3505 (7)	
			1.12	28	9J-1480	9J-1479			7T-4088	7T-4089			4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	3G-8302	3G-8301							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8280	3G-8279							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
	71F,77G	Cushioned	1.97	50	9W-8652	9W-8651							4J-9058 (7)	2J-3507 (7)	5P-8250 (7)
			1.12	28	4J-8844	4J-8843					4T-6506	4T-6505	5J-2409 (7)	2J-3505 (7)	
			1.12	28	3G-8316	3G-8315							5J-2409 (7)	2J-3505 (7)	
			1.57	40	3G-8286	3G-8285							5J-2409 (7)	2J-3505 (7)	
	43K	Rip Dozer									4T-6669	4T-6670	5J-2409 (7)	2J-3505 (7)	
			1.57	40							7J-2976	7J-2975	5J-2409 (7)	2J-3505 (7)	

* Heavy Duty Mining end bit.

** Angled.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (mm)		GENERAL END BITS (lh) (rh)		UTILITY END BITS (lh) (rh)		EXTENDED WEAR LIFE END BITS (lh) (rh)		FINISH DOZING END BITS (lh) (rh)		BOLTS	NUTS	WASHERS
			(in)	(mm)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)			
D9	1LH,1MP,2ZH 7PH,CMS,CMW CMZ,9MP	Universal	1.75	45	8E-4196	8E-4197	100-3136	100-3135	8E-4540	8E-4539	6Y-4278	6Y-4277	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50									4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50									4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			2.36	60									4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	1MH,5BH,2BP 2ZP,1LP,2LP 7NH,9LH,9RP CLC,CLN,CLY CMA,CMN	Semi-U	1.75	45	8E-4196	8E-4197	100-3136	100-3135	8E-4540	8E-4539	6Y-4278	6Y-4277	4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50									4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
			2.36	60									4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
	5A,18K,21E 25E,53C,61U 73R,89D	Semi-U	1.25	32	5J-1280	5J-1279			7T-4092	7T-4093			8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	3G-8290	3G-8289							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8282	3G-8281							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	9W-9194	9W-9193							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
	14C,19K,20H 55C,78X,CMH	Universal	1.25	32	4J-8724	4J-8723			7T-4094	7T-4095			8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	3G-8292	3G-8291							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.58	40	3G-8284	3G-8283							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.97	50	8E-4196	8E-4197							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
	18Y,42S,52Y	Semi-U	1.58	40	1U-1546	1U-1545			8E-4542	8E-4541	3G-7764	3G-7763	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			1.75	45			100-3132	100-3131					5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			2.16	55	8E-4198	8E-4199							5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			2.36	60			100-3134	100-3133					5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
	19Y,78S	Universal	2.38	60	7T-4688	7T-4689							5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			1.58	40	1U-1546	1U-1545			8E-4542	8E-4541	3G-7764	3G-7763	5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			1.75	45			100-3132	100-3131					5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			2.16	55	8E-4198	8E-4199							5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
	52C,90D 11E,26E	Angle	2.36	60	7T-4688	7T-4689	100-3134	100-3133					5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			1.25	32	4J-8724	4J-8723							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.38	35	3G-8291	3G-8292							8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
			1.57	40	3G-8283	3G-8284							4J-9208 (7)	2J-3507 (7)	5P-8250 (7)
D10	20Y	Cushioned											4J-9058 (5)		
		Cushioned									4T-6389	4T-6389			
	39K	R									4T-6392	4T-6391	8J-2928 (7)	2J-3507 (7)	5P-8250 (7)
		Universal	1.75	45	8E-4198	8E-4199	100-3132	100-3131	8E-4542	8E-4541			5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
	1RH,1SH,4LP 6FP,BHF,BHP	Universal	2.36	60			100-3134	100-3133					5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
			1.75	45	8E-4198	8E-4199	100-3132	100-3131	8E-4542	8E-4541			5P-8823 (7)	3K-9770 (7)	4K-0684 (7)
	1RH,4KP,6EP 7RH,BHJ,BHA	Semi-U													
			4.72	120	107-3516*	107-3515*							5P-8823 (9)	3K-9770 (9)	4K-0684 (9)

Number in parentheses () after the part number indicates the quantity required. ** Angled.

Ground Engaging Tools – Bulldozer End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS (in) (mm)	GENERAL END BITS (lh) (rh)	UTILITY END BITS (lh) (rh)	EXTENDED WEAR LIFE END BITS (lh) (rh)	FINISH DOZING END BITS (lh) (rh)	BOLTS	NUTS	WASHERS
D10 (cont.)	1SH,4LP,6EP 7WH,BHF,BHP	Universal	4.72 120	113-0338* 113-0338*				5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
	79W,80W	Semi-U	2.36 60 2.95 75	8E-4544 8E-4543	8E-9786 8E-9748 8E-9748 8E-9749	8E-4546 8E-4545		5P-8361 (9)	3K-9770 (9)	4K-0684 (9)
		Universal	2.36 60 2.95 75	8E-4544 8E-4543	8E-9786 8E-9748 8E-9748 8E-9749	8E-4546 8E-4545		5P-8361 (9)	3K-9770 (9)	4K-0684 (9)
	83W	Cushioned					4T-6538 4T-6358	5P-8361 (9)	3K-9770 (9)	4K-0684 (9)
D11	4BB,4KB,9NH 19P,8PP,1AP	Semi-U	2.36 60 2.95 75	8E-4544 8E-4543 8E-4544 8E-4543	8E-9786 8E-9748 8E-9748 8E-9749	8E-4546 8E-4545		2J-3507 (6) 5P-8823 (9)	3K-9770 (9)	5P-8250 (6) 4K-0684 (9)
			4.72 120	107-3522* 107-3521*				5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
	4CB,5TB,9MH 9ZH,4YP,8DP	Universal	2.36 60 2.95 75	8E-4544 8E-4543 8E-4544 8E-4543	8E-9786 8E-9748 8E-9748 8E-9749	8E-4546 8E-4545		5P-8823 (9)	3K-9770 (9)	4K-0684 (9)
	8RP		4.72 120	109-9047* 109-9047*				5P-8823 (9)	3K-9770 (9)	4K-0684 (9)

** Angled.

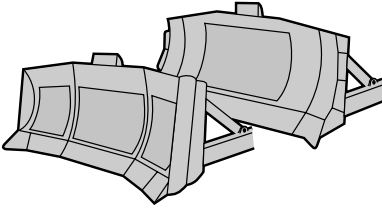
* Heavy Duty Mining end bit.

Number in parentheses () after the part number indicates the quantity required.

MODEL	SERIAL NUMBER	EDGE THICKNESS (in) (mm)	PENETRATION END BITS (lh) (rh)	STANDARD END BITS (lh) (rh)	EXTENDED WEAR LIFE (EWL) END BITS (lh) (rh)	SHORT END BITS (lh) (rh)	EWL – SHORT END BITS (lh) (rh)	ARM – EWL END BITS (lh) (rh)	ARM – PENETRATION END BITS (lh) (rh)	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
11 Carrydozer	5JP,BHZ	2.36 60	273-7224 273-7223	273-7226 273-7225		273-7229 273-7228				5P-8361 (9)	3K-9770 (9)	4K-0684 (9)
	3 75				273-7231 273-7230		273-7233 273-7232	273-7235 273-7234	223-8128 223-8127	5P-8361 (9)	3K-9770 (9)	4K-0684 (9)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer Wear Bars and Plates



Bulldozer Wear Bars

- Offers additional wear resistance and strength to the dozer blade in high wear/high impact applications.
- Made of DH-2 through-hardened alloy steel.
- For use over the blade liner or wear plate on a dozer blade.

ITEM	LENGTH		PART NUMBER
	(ft)	(m)	
Wear Bar	8	2.438	107-3386
Wear Bar	9	2.743	107-3387
Wear Bar	11	3.353	107-3388
Wear Bar	12	3.658	107-3389
Wear Bar	13	3.962	107-3390
Wear Bar	15	4.572	107-3391

Bulldozer Plates

Reinforcing Wear Plates:

- Provides extended blade life in highly abrasive or extreme impact conditions.
- Provides a repair or resurface option for worn or damaged moldboards.
- Are formed to fit the curve of the blade so that they are easily installed.

Pusher Plates:

- Are made of heat treated steel.
- Are formed to fit the curve of the blade so that they are easily installed.
- For use on bulldozer blades that are used to push loading scrapers.

Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT		PLATE WIDTH		PLATE THICKNESS		REINFORCING WEAR PLATE
				(in)	(mm)	(in)	(mm)	(in)	(mm)	
D3	85U8376-Up	Power Angle & Tilt	Wear Plates					0.31	8	3J-3117
			Wear Plates					0.31	8	3J-3116 (2)
			Wear Plates					0.31	8	1J-3108 (5)
D3 LGP	85U1-8375	Power Angle & Tilt	Wear Plates					0.31	8	3J-3114 (3)
			Wear Plates					0.31	8	3J-3114 (2)
			Wear Plates					0.31	8	3J-3116 (2)
D4	2A,25F,67F 5F,12D,24F,65F,78D,97E 6YH,8LP,7EH,6DH,9TH,9ZB,4GH 9SH,4AC,5NH	Straight Angle Power Angle & Tilt	Wear Plates					0.31	8	3J-3116 (4)
			Wear Plates					0.31	8	
			Wear Plates					0.31	8	
D5	67E 9WH 2AH,4GP,6JP 2BH 10J,12J,19R,92H,97H 11J,13J,93H,98H 42K,91H,96H 90H	Angle Straight Power Angle Power Angle & Tilt Straight Straight Angle Angle Straight	Wear Plates	37.0	940	27.6	702	0.31	8	3J-3115
			Wear Plates	51.3	1302	21.5	546	0.31	8	3J-3117
			Wear Plates							3J-3740 (4)
D6	ICH,2NH,3TH,4JH,4PH 1RP,3EP 1DH,2HH,30H,50H 3FP,1TP,8SP,4AP,1CH,2NH,1WP,3RP,9BP 2SP,ECA,S6D,JCE,S6S	Semi-U Straight Straight Semi-U Semi-U	Wear Plates	31.0	787	33.6	854	0.38	10	2J-8526 (4)
			Wear Plates					0.31	8	3J-3142 (3)
			Wear Plates					0.38	10	2J-8526 (4)
D6 LGP	3WP,3XP,B6X,G6N 54U,44E,18H,476 01C,06C,15C,37D,16C5001-Up,39D 81D,82D,08E,09E,16E,03F,04F,40H 09A,16C-5000,85C,80D,15E,02G,03G,39H 95E 1AH,2LH,3FH,1SP,3HP,55H 4MP,B6L 21H	Power Angle & Tilt Angle Angle Straight Straight Power Angle & Tilt Semi-U	Wear Plates	24.0	610	24.0	610	0.38	10	1J-3106 (5)
			Wear Plates					0.38	10	
			Wear Plates					0.38	10	1J-3108 (5)
D7	6A,17C,5001-Up,35D,84D,6E,18E 13F,22F,30F,72F,13H,4EB,3CC	Angle	Wear Plates					0.31	8	3J-3141 (3)
			Wear Plates					0.31	8	
			Wear Plates					0.31	8	

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT		PLATE WIDTH		PLATE THICKNESS		REINFORCING WEAR PLATE
				(in)	(mm)	(in)	(mm)	(in)	(mm)	
D7 (cont.)	23F,31F,59F,14H,58J,49K,60K 64K,05A,1701-5000,84C,34O,83D 02E,6KB,8NH,8ZB,4XC	Straight	Wear Plates	42.4	1077	42.4	1076	0.31	8	3J-3142 (3)
			Pusher Plate	41.5	1054	41.5	1054	0.63	16	4J-3699
	85D,42G,61K,94R,5SB,8MH,9JB,7AC	Universal	Wear Plates	42.4	1077	42.4	1076	0.31	8	3J-3142 (4)
			Pusher Plate	41.5	1054	41.5	1054	0.63	16	4J-3699
	4DB,1JP,8L11,CDT All CDT	Semi-U	Push Plate					0.63	16	4J-3699
		Semi-U	Wear Plates					0.31	8	3J-3142 (4)
		Semi-U	Right End Wear Plate					0.5	12	4Z-9148
			Center Wear Plate					0.5	12	4Z-9151
			Left End Wear Plate					0.5	12	4Z-9150
D7 LGP	6JB,2RP,BRH,3GH,4XH,5GH,5SP,9K9	Straight	Wear Plates					0.5	12	2J-8523 (5)
D8	1JH,6AH,2WP,A5G,DZB,9CH,6AH	Universal	Left End Wear Plate					0.63	16	6Y-7246
			Center Wear Plate					0.63	16	6Y-7244
	1KH,2PP,2TP,3MP,DZA,B8S,2NP 9BH,9PH,1HP,6LH	Semi-U	Right End Wear Plate					0.63	16	6Y-7245
			Left End Wear Plate					0.63	16	9W-2760
			Left End Wear Plate					0.63	16	9W-2760
			Left Center Wear Plate					0.63	16	9W-2759
			Center Wear Plate					0.63	16	9W-2756
			Center Wear Plate					0.63	16	9W-1771
			Right Center Wear Plate					0.63	16	9W-2758
			Right End Wear Plate					0.63	16	9W-2757
	1LH,2ZH 4Y1-1939	Angle Semi-U	Right End Pusher Plate					0.63	16	9W-2757
			Pusher Plate					0.63	16	9W-2756
	1LH,2ZH 4Y1-1939	Angle Semi-U	Wear Plates					0.40	10	2J-8526 (5)
			Wear Plates					0.50	13	1U-4417 (5)
	4Y1940-Up,74M,402,9TB,26B	Semi-U	Pusher Plate					0.63	16	6J-9248
			Left Center Wear Plate					0.63	16	9T-0252
			Left Center Wear Plate					0.63	16	9T-0250
			Center Wear Plate					0.63	16	4T-9592
			Right End Wear Plate					0.63	16	9T-0249
	6Y1-1395,4SZ,82M 6Y1396-Up	Universal Universal	Right Center Pusher Plate					0.63	16	9T-0251
			Wear Plates					0.50	13	1U-4417 (6)
			Left End Wear Plate					0.63	16	9T-0254
			Left Center Wear Plate					0.63	16	9T-0256
			Right Center Wear Plate					0.63	16	9T-0255
			Right End Wear Plate					0.63	16	9T-0253
			Center Pusher Plate					0.63	16	4T-9592

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT (in)	PLATE HEIGHT (mm)	PLATE WIDTH (in)	PLATE WIDTH (mm)	PLATE THICKNESS (in)	PLATE THICKNESS (mm)	REINFORCING WEAR PLATE
D8 (cont.)	20F, 45K, 48K 29V, 30W, 68V, 60V	Universal Semi-U	Wear Plates					0.50	13	6J-9286 (4)
			Wear Plates					0.47	12	9J-1659 (5)
	30E, 73E, 29J	Universal	Pusher Plate					0.63	16	9J-6870
			Wear Plates					0.47	12	4J-4205 (4)
			Pusher Plate					0.79	20	4J-4129
	30V, 65X, 69V, 34W	Universal	Left End Wear Plate					0.47	12	9J-7540
			Right End Wear Plate					0.47	12	9J-7539
			Wear Plates					0.47	12	9J-1659 (4)
			Pusher Plate					0.63	16	9J-6870
	43K	Rip Dozer	Wear Plates					0.63	16	6J-9285
			Pusher Plate					0.63	16	9J-6870
	60V, 68V, 29V, 30W	Semi-U	Wear Plates					0.47	12	9J-1659
			Wear Plates					0.50	13	6J-9286 (4)
	69E, 80V, 95S, 14J, 44K, 47K 78C, 29E, 94E	Semi-U	Wear Plates					0.47	12	4J-4205 (4)
			Push Plate					0.79	20	4J-4129
	71F, 77G	Cushioned Angle	Push Plate					0.63	16	2J-9418
			Wear Plates					0.4	10	2J-8526 (5)
D9	1LH, 2ZH, 7PH, 1MP, 9MP, CMS, CMZ, T9H 27B, 9AH, 6NH	Universal	Left End Wear Plate					0.63	16	217-7157
			Center Wear Plate					0.63	16	217-7156
			Right End Wear Plate					0.63	16	217-7155
			Left End Wear Plate					0.63	16	218-3887
	1MH, 5BH, CLY, CMA, 7NH, 1LP, 2LP, 2ZP, T9J	Semi-U	Left Center Wear Plate					0.63	16	9T-0252
			Center Wear Plate					0.63	16	7T-5803
			Center Wear Plate					0.63	16	218-3888
			Right Center Wear Plate					0.63	16	9T-0251
			Right End Wear Plate					0.63	16	218-3885
			Right End Wear Plate					0.63	16	218-3885
	All	Universal	Pusher Plate					0.63	16	7T-5803
			Wear Plates					0.50	13	6J-9269 (4)
			Center Wear Plate					0.63	16	6J-9248
			Wear Plates					0.50	13	6J-9249 (4)
			Wear Plates					0.50	13	3J-3380 (5)
			Left End Wear Plate					0.63	16	9W-1261
	18Y1876-Up	Semi-U	Left Center Wear Plate					0.63	16	9W-1260
			Center Wear Plate					0.63	16	9W-0810
			Right Center Wear Plate					0.63	16	9W-1259
			Right End Wear Plate					0.63	16	9W-1258

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT (in) (mm)	PLATE WIDTH (in) (mm)	PLATE THICKNESS (in) (mm)	REINFORCING WEAR PLATE
D9 (cont.)	19Y1-1474,78S1-1474	Universal	Left End Wear Plate			0.63	4T-3735
			Left Center Wear Plate			0.63	4T-3737
			Center Wear Plate			0.63	1U-0902
			Right Center Wear Plate			0.63	4T-3736
			Right End Wear Plate			0.63	4T-3734
			Left End Wear Plate			0.63	9W-0808
	19Y1475-Up	Universal	Left Center Wear Plate			0.63	9W-0811
			Center Wear Plate			0.63	9W-0810
			Right Center Wear Plate			0.63	9W-0809
			Right End Wear Plate			0.63	9W-0812
			Left End Wear Plate			0.63	4T-3731
			Right Center Wear Plate			0.63	4T-3732
	52Y	Semi-U	Left Center Pusher Plate			0.63	4T-3733
			Center Pusher Plate			0.63	1U-0902
			Wear Plates			0.47	2J-8525 (4)
			Wear Plates			0.47	6J-9269 (4)
			Wear Plates			0.47	6J-9249 (4)
			Push Plate			0.63	6J-9248
	9RP,CLC	Semi-U	Right End Wear Plate			0.55	218-3885
			Center Wear Plate			0.55	218-3888
			Left End Wear Plate			0.55	218-3887
			Push Plate			0.47	1U-0903
			Push Plate			0.63	1U-0902
			Wear Plates			0.47	2J-8523 (4)
	53C,89D,21E,25E,06A	Semi-U	Push Plate			0.79	2J-8524
			Right End Wear Plate			0.63	4T-3730
			Right Center Wear Plate			0.63	4T-3732
			Center Wear Plate			0.63	1U-0902
			Left Center Wear Plate			0.63	4T-3733
			Left End Wear Plate			0.63	4T-3731
	All Push-Plates	Semi-U	Push Plate			0.63	4J-3868
			Push Plate			0.79	9J-4567
			Push Plate			0.79	4T-9534
			Push Plate			0.63	7T-5803
			All			0.47	3J-3380 (5)
			Sides			0.47	6J-9249 (4)
	70F,45G,20Y1-533,20Y543	Cushioned	Center			0.63	6J-9248
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
	18Y1-1875,52Y1-1875,425	Semi-U	Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
	CMH,CMN	Angle	Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
	52C,90D,11E,26E 63E,39K	Rip Dozer	Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	
			Push Plate			0.63	

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT (in) (mm)		PLATE WIDTH (in) (mm)		PLATE THICKNESS (in) (mm)		REINFORCING WEAR PLATE
D10	1SH,7WH	Universal	Left End Wear Plate					0.63	16	9W-7265
			Left Center Wear Plate					0.63	16	9W-7264
			Center Wear Plate					0.63	16	9W-2409
			Center Wear Plate					0.63	16	6Y-1080
			Right Center Wear Plate					0.63	16	9W-7262
	1SH,7WH 79W1-536	Universal Semi-U	Right End Wear Plate					0.63	16	9W-7263
			Wear Plates	78.9	2005	28	710	0.50	13	3G-6344 (8)
			Pusher Plate	66.1	1679	60	1524	0.63	16	3G-6343
	79W537-Up	Semi-U	Left End Wear Plate					0.63	16	4T-3723
			Left Center Wear Plate					0.63	16	4T-3724
			Right Center Wear Plate	61.8	1570	42.3	1074	0.63	16	4T-3725
			Right End Wear Plate	56.3	1430	20.6	524	0.63	16	4T-3722
			Center Pusher Plate	75.0	1905	78.7	2000	0.63	1	1U-3697
	80W1-467 80W468-Up	Universal Universal	Wear Plates	78.9	2005	28.0	710	0.50	13	3G-6344 (9)
			Left End Wear Plate					0.63	16	4T-3727
			Left Center Wear Plate					0.63	16	4T-3728
			Center Wear Plate					0.63	16	1U-3697
			Right Center Wear Plate					0.63	16	4T-3729
	83W 4LP,6FP,BHF,BHP	Cushion Universal	Right End Wear Plate					0.63	16	4T-3726
			Pusher Plate	36.3	922	74.8	1900	0.80	20	9J-4567
			Right End Wear Plate					0.55	14	218-3939
			Center Wear Plate					0.55	14	218-3941
			Left End Wear Plate					0.55	14	218-3940
	1RH,7RH,4KP,6EP,BHA,BHJ	Semi-U	Right End Wear Plate					0.55	14	218-3922
			Right Center Wear Plate					0.63	16	9W-7260
			Center Wear Plate					0.63	16	9W-2409
			Left Center Wear Plate					0.63	16	9W-7261
			Left End Wear Plate					0.55	14	218-3923
			Right End Wear Plate					0.55	14	218-3922
			Center Wear Plate					0.55	14	218-3924
			Left End Wear Plate					0.55	14	218-3923
			Push Plate					0.63	16	9W-2409
			Left End Wear Plate					0.63	16	4T-8144
			Left End Wear Plate					0.63	16	4T-8144
			Left Center Wear Plate					0.63	16	4T-8146
D11	4BB,4KB,9NH,1AP	Semi-U								

Number in parentheses () after the part number indicates the quantity required.

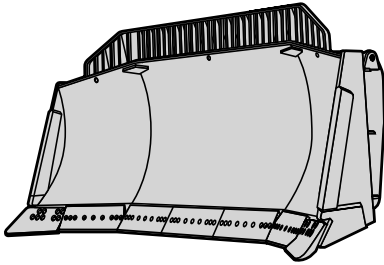
Ground Engaging Tools – Bulldozer Wear Plates

MODEL	SERIAL NUMBER	BLADE MODEL	ITEM	PLATE HEIGHT		PLATE WIDTH		PLATE THICKNESS		REINFORCING WEAR PLATE
				(in)	(mm)	(in)	(mm)	(in)	(mm)	
D11 (cont.)	4BB,4KB,9NH,1AP	Semi-U	Center Wear Plate	78.5	1994	80.7	2050	0.63	16	4T-5308
			Center Wear Plate					0.63	16	6Y-1100
			Right Center Wear Plate	70.2	1783	48.0	1220	0.63	16	4T-8145
			Right End Wear Plate					0.63	16	4T-8143
			Pusher Plate					0.63	16	4T-5308
			Right End Wear Plate					0.55	14	136-3984
	8PP	Semi-U	Center Wear Plate					0.55	14	136-3986
			Left End Wear Plate					0.55	14	139-3985
			Left End Wear Plate					0.63	16	4T-7630
			Left End Wear Plate					0.63	16	4T-7630
			Left Center Wear Plate					0.63	16	4T-7631
			Center Wear Plate	78.5	1994	80.7	2050	0.63	16	4T-5308
	4CB,5TB,4CB-Up to 00787	Universal	Center Wear Plate					0.63	16	6Y-1319
			Right Center Wear Plate	70.2	1783	27.3	693	0.63	16	4T-7632
			Right End Wear Plate					0.63	16	4T-7629
			Right End Wear Plate					0.63	16	122-2320
			Center Wear Plate					0.63	16	122-2322
			Left End Wear Plate					0.63	16	122-2321
	8RP	Universal	Right End Wear Plate					0.55	14	126-8341
			Center Wear Plate					0.55	14	126-8343
			Left End Wear Plate					0.55	14	126-8342

Number in parentheses () after the part number indicates the quantity required.

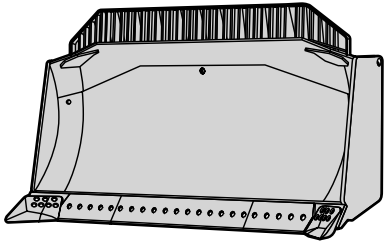
Ground Engaging Tools – Compactor Blades

Compactor Cutting Edges



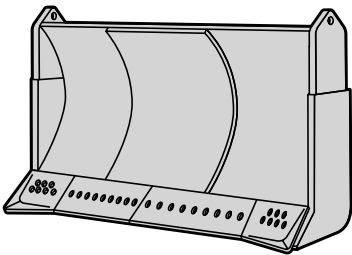
Universal Blade

- A straight blade with large “wings” to carry large loads more efficiently over long distances. Available only for larger models.



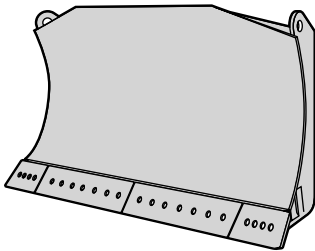
Semi-U Blade

- A straight blade with small “wings” to provide better load carrying characteristics for mid-sized and large machines.



Cushion Blade

- A relatively narrow blade, primarily for pushing scrapers.



Power Angle and Tilt Blade

- A very versatile blade for smaller machines.

Ground Engaging Tools – Compactor Cutting Edges

Compactor Cutting Edges

Caterpillar compactor cutting edges are made of through-hardened alloy steel for excellent abrasion resistance and strength, and all Caterpillar compactor cutting edges are guaranteed against breakage. Caterpillar compactor cutting edges are available in various thicknesses to match your machine size and application, and they are available in shorter lengths for ease of storage, handling, installation, and maintenance.

Caterpillar compactor cutting edges are made of DH-2 steel.

- DH-2 steel provides increased hardness and toughness for excellent wear and impact resistance.

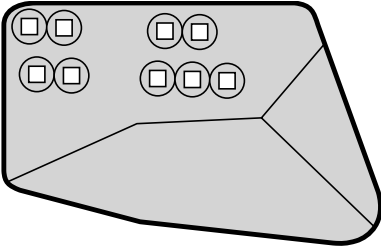
Ground Engaging Tools – Compactor Cutting Edges

MODEL	SERIAL NUMBER	BLADE MODEL	EDGE THICKNESS (in)	EDGE THICKNESS (mm)	EDGE TYPE	EDGE PART NUMBER	BOLTS PER EDGE	NUTS PER EDGE	WASHERS PER EDGE
814	36S,16Z,3YP		0.75	19	Right/Left End Edges	4T-2923	5J-2409	2J-3505	5P-8249
					Center Edge	4T-2922	5J-2409	2J-3505	5P-8249
	56D,23K		0.75	19	Right/Left End Edges	4T-2922	6F-019	2J-3505	
			1.00	25	Center Edge	4T-2993	6F-0196	2J-3505	
815	24K1-1044,59E1-341		0.75	19	Left/Right End Edges	4T-2922	6F-0196	2J-3505	
					Left/Right End Edges	4T-3020	3F-5108	4K-0567	
	24K1045-UP,59E342-UP		0.75	19	Center Edge	4T-3008	3F-5108	4K-0567	
					Center Edge	4T-3004	4F-7827	2J-3506	
816	41S,15Z,3ZP		0.75	19	Center Edge	4T-3012	5J-4773	2J-3506	
					Left/Right End Edges	4T-2923	5J-2409	2J-3505	
	51K		0.75	19	Center Edge	4T-2922	5J-2409	2J-3505	
			1.00	25	Left/Right End Edges	4T-6532	6F-0196	2J-3505	
824	2HP		1.00	25	Center Edge	4T-6531	6F-0196	2J-3505	
					Left End Edge	122-9227 (2)	6F-0196	2J-3505	
	35G	Straight	1.00	25	Right/Center End Edges	4T-3420	6F-0196	2J-3505	
					Center Edge	4T-6514 (2)	5J-2409	2J-3505	
825	35G,64G,93G	Straight	2.36	60	Left/Right End Edges	107-3524+	5J-2409	2J-3505	
					Center Edge	109-9014 (2)+	5J-2409	2J-3505	
	88H		1.13	29	Center Edge	4T-6448 (2)	4J-9058	2J-3507	
					Center Edge	4T-6532	6F-0196	2J-3505	
826	4JP		1.00	25	Center Edge	4T-6238	4F-4042	2J-3507	
					Center Edge	4T-6515 (2)	5J-2409	2J-3505	
	89X		1.00	25	Center Edge	4T-6515 (2)	5J-2409	2J-3505	
					Center Edge	4T-8798	6F-0196	2J-3505	
834	97X,90K,2GP	Universal	1.00	25	Left/Right End Edges	4T-8797 (2)	6F-0196	2J-3505	
					Center Edge	4T-2889 (2)	6F-0196	2J-3505	
	64G	Cushion	1.00	25	Center Edge	4T-6532	6F-0196	2J-3505	
					Left/Right Edges	4T-6531	6F-0196	2J-3505	
834G	93G,93GB		2.36	60	Center Edge	123-3756+	5J-2409	2J-3505	
					Left End Edge	123-3754(2)+	5J-2409	2J-3505	
	27K,14B,36G,96G		1.00	25	Center Edge	123-3755+	5J-2409	2J-3505	
					Right End Edge	4T-6515(2)	5J-2409	2J-3505	
835	27K,36G,96G		1.00	25	Center Edge				

Number in parentheses () after the part number indicates the quantity required.
 ** Extended Wear Life edge. Edge is wider and contains offset bolt holes. Use only Extended Wear Life end bits.
 * Edges are 11" (280 mm) wide.
 + G930 Heavy Duty Mining Edge.

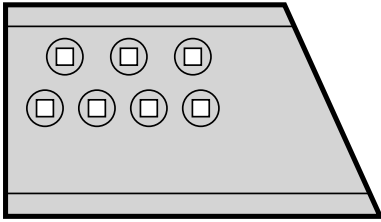
Ground Engaging Tools – Compactor End Bits

Compactor End Bits



General Duty End Bits

- Provides a thicker wear area than the cutting edge.
- Made from DH-2 or DH-3 steel, depending on the application.
- For use in most dozing applications.



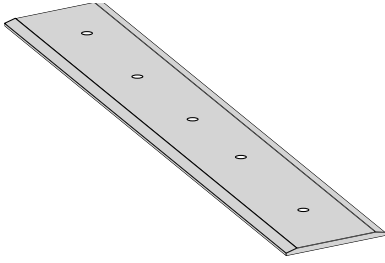
Finish Dozing End Bits

- Provides a depth of cut equal to the cutting edge.
- Protects the blade corner in low impact, low abrasion materials.
- Made from through-hardened DH-2 steel.
- For use in finish and semi-finish dozing.

Ground Engaging Tools – Compactor End Bits

MODEL	SERIAL NUMBER	BLADE MODEL	THICKNESS		GENERAL DUTY END BITS		FINISH DOZING END BITS		BOLTS	NUTS	WASHERS
			(in)	(mm)	(lh)	(rh)	(lh)	(rh)			
814	36S,41S,3ZP		1.12	28			4T-6242	4T-6241	5J-2409	2J-3505	5P-8249
	56D,51K,23K		0.88	22	3G-8294	3G-9283	4T-6506	4T-6505	6F-0196	2J-3505	
			1.12	28	4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
815	24K1-1044		0.75	19	3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
	24K1045-UP		0.88	22	9F-7076	9F-7075	4T-3050	4T-3049	3F-5108	4K-0367	
	59E1-341		0.88	22	3G-8296	3G-8295	4T-3050	4T-3049	3F-5108	4K-0367	
815S	59E342-UP	Straight	0.75	19	4J-8262	4J-8261	4T-3042	4T-3041	4F-7827	2J-3506	
	39S		0.88	22	3G-8298	3G-8297	4T-3042	4T-3041	4F-7827	2J-3506	
	39S,95E		0.88	22	3G-8296	3G-8295	4T-3050	4T-3049	3F-5108	4K-0367	
816	36S,41S,3ZP,3YP	Straight	0.88	22	3G-8298	3G-8297	4T-3042	4T-3041	4F-7827	2J-3506	
	56D,51K,23K		1.12	28	5J-1420	5J-1419	4T-3046	4T-3045	5J-4773	2J-3506	
			0.88	22	3G-8294	3G-8293	4T-6242	4T-6241	5J-2409	2J-3505	5P-8249
824	2HP,35G,64G,93G		0.88	22	3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
			1.12	28	4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
			2.36	60	109-9025*	109-9024*			6F-0196	2J-3505	
824S	88H	Straight	1.38	35	3G-8290	3G-8289			4J-9208	2J-3507	
			1.58	40	3G-8282	3G-8281			4J-9208	2J-3507	
			2.36	60	109-9025*	109-9024*			5J-2406	2J-3505	
825	4JP,93G		1.12	28	3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
	89X		1.12	28	3G-8288	3G-8287	4T-6240	4T-6239	4F-4042	2J-3505	
			1.18	30	9J-1478	9J-1477	4T-6240	4T-6239	4F-4042	2J-3505	
826	27K,14B,36G		0.88	22	3G-8318	3G-8317	4T-6240	4T-6239	4F-4042	2J-3505	
	97X,90K,2GP,93G		1.12	28	3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
	27K,14B,36G		1.12	28	3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
834G	64G,93G,96G		0.88	22	4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
			1.12	28	3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
			1.12	28	3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
835	27K,14B,36G		2.36	60	124-7285*	124-7284*			6F-0196	2J-3505	
	27K,14B,36G,64G,		0.88	22	3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
	93G,96G		1.12	28	4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
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					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
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					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
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					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
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					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	
					4J-8844	4J-8843	4T-6506	4T-6505	6F-0196	2J-3505	
					3G-8316	3G-8315	4T-6506	4T-6505	6F-0196	2J-3505	
					124-7285*	124-7284*			6F-0196	2J-3505	
					3G-8294	3G-8293	4T-6506	4T-6505	6F-0196	2J-3505	</

Ground Engaging Tools – Compactor Plates/Tips



Compactor Sole Plates

MODEL	SERIAL NUMBER	BLADE MODEL	SOLE PLATE	BOLTS PER PLATE	NUTS PER PLATE
814	23K,56D	Straight	4T-3019 (2)	5J-4773 (5)	2J-3506 (5)
814	36S,3YP	Straight	4T-3018 (2)	5J-4773 (4)	2J-3506 (4)
824	2HP	Cushion	4T-8799 (3)	5J-4772 (5)	2J-3505 (5)
824	35G1-222	Straight	7T-3491 (3)	5J-4773 (7)	2J-3506 (7)
824	35G223-Up	Straight	7T-3492 (3)	5J-4773 (7)	2J-3506 (7)
834	14B	Universal	4T-8799 (2)	6F-0196 (7)	2J-3505 (7)
834	36G,96G	Straight	4T-6650 (2)	5J-4772 (8)	2J-3505 (8)
834	36G,96G	Straight	4T-6651 (1)	5J-4772 (9)	2J-3505 (9)
834	64G	Cushion	4T-6645 (2)	5J-4772 (6)	2J-3505 (6)



Landfill Compactor Tip/Blades

Landfill Compactor Traction Tips:

- Forged for maximum strength and equipped with ARM for critical wear areas.
- For use in applications where maximum traction is required, such as frozen or difficult to penetrate materials.

Landfill Compactor Weld-On Plus Tips:

- Provide superior compaction densities, excellent traction, and excellent side hill stability.
- Provides less plugging and lower replacement costs because fewer teeth are required in its widely spaced distribution pattern.
- Lasts longer than chopper blades in high wear conditions.

ARM Chopper Blades:

- Provides good traction and aggressive chopping action in all types of trash.
- Manufactured from heat-treated, DH-2 steel.
- For use in sanitary landfill applications.

MODEL	WHEEL DIAMETER (in)	TRACTION TIP		WELD-ON PLUS TIPS	ARM CHOPPER BLADE	ARM CHOPPER BLADE SUPPORT	
		(lh)	(rh)				
816B,816C		107-3487 (20)	107-3488 (40)	232-0160 (20)	6Y-6766 (20)	2V-6400 (10)	2V-6401 (10)
816B,816C		107-3487 (20)	107-3488 (40)	232-0160 (20)	6Y-6766 (20)	2V-6400 (10)	2V-6401 (10)
826B,826C	40	107-3487 (20)	107-3488 (44)	232-0160 (25)	6Y-4321 (24)	2V-6400 (12)	2V-6401 (12)
826B,826C	48	107-3487 (20)	107-3488 (45)	232-0160 (25)	6Y-4321 (24)	2V-6400 (12)	2V-6401 (12)
826B,826C	40	107-3487 (44)	107-3488 (44)	232-0160 (25)	6Y-4321 (24)	2V-6400 (12)	2V-6401 (12)
826B,826C	48	107-3487 (45)	107-3488 (45)	232-0160 (25)	6Y-4321 (24)	2V-6400 (12)	2V-6401 (12)
836				232-0160 (35)	107-3374 (28)	2V-6400 (14)	2V-6401 (14)
836G				232-0160 (35)	107-3374 (28)	2V-6400 (14)	2V-6401 (14)

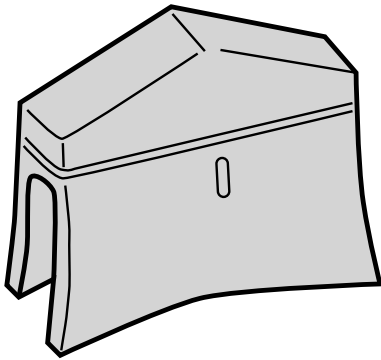
Ground Engaging Tools – Compactor Feet

Landfill Compactor Wheel Assemblies

MODEL	RIM THICKNESS		WELD-ON PLUS TIP	NARROW WELD-ON PLUS TIP	ARM CHOPPER BLADE	
	(in)	(mm)			(lh front and rh rear)	(rh front and lh rear)
816	0.625	16	2Q-1498 (4)		4E-3523 (2)	4E-3524 (2)
826	1.000	25	128-8113 (4)	2Z-9142 (4)*	128-8116 (2)	128-8117 (2)
836	1.000	25	129-2405 (4)		111-8237 (2)	111-8238 (2)
836G	1.000	25	143-5952		189-1584	189-1585
836G	1.000	25	165-4970**			

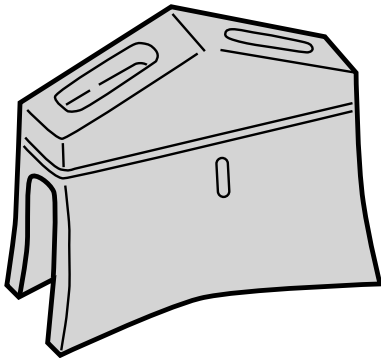
* Applicable for a narrow wheel width (40"). Only available for machine orders.

** Includes wheel extension.



Weld-On Soil Compactor Feet

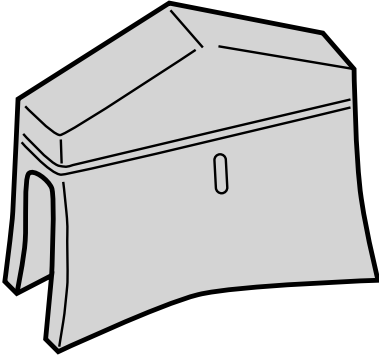
MODEL	BLADE SERIAL NUMBER	TAMPING FOOT	ROCK TAMPING FOOT	BASE
815	91P		4V-3851	7K-6908
815B	17Z	2V-7053		7K-6908
825C	86X	2V-6628	4V-0668	7K-7071



Bolt-On Soil Compactor Feet

MODEL	BLADE SERIAL NUMBER	TAMPING FOOT	BASE	BOLTS	NUTS	WASHERS
815	91P	8K-9189	7K-6908	0S-0484 (2)	6B-6684 (2)	5P-8245 (4)
825C	86X	8K-9171	7K-7071	0T-0856 (2)	6B-6682 (2)	5H-1504 (4)
835	44N333-UP	8K-9171	7K-7071	0T-0856 (2)	6B-6682 (2)	5H-1504 (4)

Ground Engaging Tools – Compactor Feet/Cleaner Bars



Pin-On Soil Compactor Feet

MODEL	BLADE SERIAL NUMBER	TAMPING FOOT	ROCK TAMPING FOOT	SHEEPSFOOT	BASE	PIN	SPRING ASSEMBLY	SNAP RING
824B	36H	7K-2939	7K-2939		9S-1645	7K-9535	9S-1644	5S-1522
824B,C,G	36H,85X,45N			3S-3992		7K-9937	9S-1644	5S-1522
825B	43N	7K-2939			9S-1645	7K-9535	9S-1644	5S-1522
825C,G	86X,6RN			3S-3992		7K-9937	9S-1644	5S-1522
834	43E	7K-2939		3S-3992	9S-1645	7K-9535	9S-1644	5S-1522
835	44N1-332	7K-2939		3S-3992	9S-1645	7K-9535	9S-1644	5S-1522

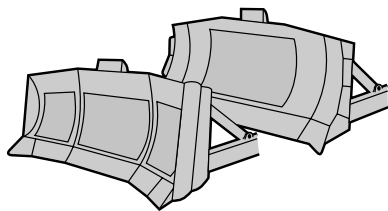
Compactor Cleaner Bars

MODEL	BLADE SERIAL NUMBER	TAMPING FOOT CLEANER BAR	ROCK TAMPING FOOT CLEANER BAR	SHEEPSFOOT CLEANER BAR	LANDFILL CLEANER BAR
815	91P	4S-7928			
815B,F	17Z,1GN	106-204,141-7407, 3G-8250*			
816B,F	15Z, 5FN				7I-3968
824B	36H	3S-3228	3S-3228	4S-7928	
825B	36H,43N	3S-3228**	3S-3228	4S-7928	
825C,825G	86X,6RN	3S-3228**	3G-8250*		
826B	58U				7I-3968
826C	87X				7I-3968
826G	7LH				7I-3968
834	43E	4S-7928	4S-7928	3S-3228	
835	44N	4S-7928	4S-7928	3S-3228	
836					7I-3968

* Replaceable Tip — use 8E-6258 Pin and 8E-6259 Retainer.

** Optional one-way cleaner bar available: front wheel — 9V-5074; rear wheel — 9V-5073.

Ground Engaging Tools – Compactor Wear Plates



Compactor Reinforcing Wear Plates

- Provides extended blade life in highly abrasive or extreme impact conditions.
- Provides a repair or resurface option for worn or damaged moldboards.
- Formed to fit the curve of the blade so they are easily installed.

MODEL	SERIAL NUMBER	ITEM	PLATE THICKNESS (in) (mm)		REINFORCING WEAR PLATE
816	41S,51K	Wear Plate	0.31	8	3J-3141
824	88H	Wear Plate	0.47	12	6J-0164 (2)
		Wear Plate	0.47	12	2J-8523 (4)
824C	2HP,64G	Wear Plate	0.79	20	5J-2663
		Pusher Plate	0.79	20	4J-5622
		Wear Plate	0.79	20	4J-5622
824F	93G	Wear Plate	0.31	8	3J-3141
824G		Wear Plate	0.79	20	5J-2663
825	89X,93G	Wear Plate	0.31	8	3J-3141
826	97X,90K	Wear Plate	0.31	8	3J-3141
834C	64G	Pusher Plate	0.79	20	4J-5622
		Wear Plate	0.79	20	4J-5622
	96G	Wear Plate	0.31	8	3J-3142
835	27K	Wear Plate	0.31	8	3J-3141

Ground Engaging Tools – Compactor Wear Plates

ONE SAFE SOURCE | 2006-2007

GROUND ENGAGING TOOLS | COMPACT CONSTRUCTION EQUIPMENT



Ground Engaging Tools – Compact Wheel Loader

Compact Wheel Loader Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BUCKET GROUP		BUCKET ASSEMBLY	RATED CAPACITY		BASE EDGE	BUCKET CORNERS		REAR WEAR PLATE
		(in)	(mm)	BOLT-ON TEETH	BOLT-ON EDGE		(Cubic yard)	(Cubic meter)		(lh)	(rh)	
902	General Purpose	70	1770	150-8368	150-8369	138-8941	0.8	0.2	138-8938	9R-5205	9R-5206	152-1096
	Multi-Purpose	70	1770	150-8370	150-8371	138-8912	0.8	0.2	138-8938	9R-5205	9R-5206	
	Light Materials	74	1880		152-2005	149-9261	1.3	0.3	138-8932	9R-5205	9R-5206	151-5131
	Stone Sieve	70	1770	152-2008	152-2009	148-6412	0.8	0.2	160-5334	9R-5205	9R-5206	
	High Dump	70	1770	152-5214	152-1998	150-1917	0.8	0.2	138-8938	9R-5205	9R-5206	
	Material Handling Grapple	74	1880		186-0152	184-3268			138-8932			151-5131
906	General Purpose	74	1880	150-8385	150-8386	138-8931	1.0	0.25	138-8932	9R-5205	9R-5206	151-5131
	Multi-Purpose	74	1880	150-8387	150-8388	138-8914	0.9	0.23	138-8932	9R-5205	9R-5206	
	Light Materials	76	1940		152-2006	147-3152	1.6	0.41	152-1051	9R-5205	9R-5206	152-1097
	Stone Sieve	74	1880	152-2010	152-2011	148-5385	0.9	0.23	160-5335	9R-5205	9R-5206	
	High Dump	74	1880	152-5215	152-1999	141-4990	0.9	0.23	138-8932	9R-5205	9R-5206	
	Side Dump	74	1880	152-2001	152-2002	141-7263	0.9	0.23	138-8932	9R-5205	9R-5206	
	Material Handling Grapple	74	1880		186-0152	184-3268			138-8932			151-5131
908	General Purpose	81	2060	150-8389	150-8390	138-8905	1.3	0.33	138-8937	9R-5205	9R-5206	152-1098
	Multi-Purpose	81	2060	150-8391	150-8392	138-8916	1.2	0.31	147-1040	9R-5205	9R-5206	
	Light Materials	81	2060		152-2007	147-3153	2.0	0.51	138-8937	9R-5205	9R-5206	152-1098
	Stone Sieve	81	2060	152-2012	152-2013	148-5386	1.2	0.31	138-8937	9R-5205	9R-5206	
	High Dump	81	2060	152-5216	152-2000	141-4992	1.2	0.31	138-8937	9R-5205	9R-5206	
	Side Dump	81	2060	152-2003	152-2004	141-7265	1.2	0.31	138-8937	9R-5205	9R-5206	
	Material Handling Grapple	81	2060		186-0154	186-0153			138-8937			152-1098

Ground Engaging Tools – Compact Wheel Loader

Compact Wheel Loader Tips & Edges



Bolt-On Unitooth

- Improves penetration where breakage is not a problem.
- Tip and adapter are one integrated piece for easy installation and lower initial costs.
- For use in nonabrasive materials.

MODEL	UNITEETH	BOLTS	NUTS
902, 906, 908	132-4720(7)	159-2953 (14)	8T-4778 (14)

Bolt-on Edges

MODEL	EDGES	BOLTS	NUTS
902	132-4723	159-2953 (13)	8T-4778 (13)
906	132-4724	159-2953 (13)	8T-4778 (13)
908	132-4725	159-2953 (13)	8T-4778 (13)

Ground Engaging Tools – Mini-Hex

Mini Excavators Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BUCKET GROUP	BUCKET ASSEMBLY	RATED CAPACITY		BASE EDGE	NUMBER OF TEETH	BOLT-ON UNITEETH	BOLTS	NUTS	SIDE CUTTERS	
		(in)	(mm)			(Cubic yard)	(Cubic meter)						(lh)	(rh)
302.5	Digging	10	255	176-7283*	179-6704*	0.046	0.035	153-7873	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	135-9376	135-9377
303.5		10	255	153-7848	153-7849	0.046	0.035	153-7873	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	135-9376	135-9377
	Digging	12	305	153-7851	153-7852	0.053	0.041	153-7874	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	135-9376	135-9377
	Digging	16	405	153-7854	153-7855	0.070	0.054	153-7875	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	135-9376	135-9377
	Digging	18	460	190-7390	190-7392	0.085	0.065	190-7394	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	135-9376	135-9377
	Digging	20	510	153-7857	153-7858	0.095	0.073	153-7876	4	135-9390 (4)	159-8839 (8)	8T-4778 (8)	135-9376	135-9377
	Digging	24	610	153-7860	153-7861	0.120	0.092	153-7877	4	135-9390 (4)	159-8839 (8)	8T-4778 (8)	135-9376	135-9377
	Ditch Cleaning	32	815		153-7863	0.105	0.080	153-7878 (N/S)						
	Ditch Cleaning	40	1015		153-7865	0.133	0.102	153-7879 (N/S)						
	Ditch Cleaning	47	1195		153-7867	0.152	0.116	153-7880 (N/S)						
301.5	Digging	9	230	147-1014	147-1015	0.023	0.018	147-1033 (N/S)	3	135-9380** (3)	8T-4183 (6)	8T-4244 (6)	135-9378	135-9379
301.6	Digging	12	305	147-1018	147-1017	0.029	0.018	147-1034 (N/S)	3	135-9380** (3)	8T-4183 (6)	8T-4244 (6)	135-9378	135-9379
301.8	Digging	16	405	147-1020	147-1021	0.043	0.033	147-1035 (N/S)	3	135-9380** (3)	8T-4183 (6)	8T-4244 (6)	135-9378	135-9379
	Digging	18	460	190-7387	190-7388	0.052	0.040	190-7389 (N/S)	3	135-9380** (3)	8T-4183 (6)	8T-4244 (6)	135-9378	135-9379
	Digging	20	510	147-1023	147-1024	0.059	0.045	147-1036 (N/S)	4	135-9380** (4)	8T-4183 (8)	8T-4244 (8)	135-9378	135-9379
	Digging	24	610	147-1026	147-1027	0.073	0.056	147-1037 (N/S)	4	135-9380** (4)	8T-4183 (8)	8T-4244 (8)	135-9378	135-9379
	Ditch Cleaning	32	815		147-1029	0.057	0.044	147-1038 (N/S)						
	Ditch Cleaning	40	1015		147-1031	0.073	0.056	147-1039 (N/S)						
304.5	Digging	12	305	188-4369*	180-3627*	0.076	0.058	180-3638 (N/S)	3	135-8203 (3)	4F-3656 (6)	4K-0367 (6)	180-3639	180-3640
		12	305	180-3622	180-3627	0.076	0.058	180-3638 (N/S)	3	135-8203 (3)	4F-3656 (6)	4K-0367 (6)	180-3639	180-3640
	Digging	16	405	180-3623	180-3628	0.099	0.076	180-3647 (N/S)	4	135-8203 (4)	4F-3656 (8)	4K-0367 (8)	180-3639	180-3640
	Digging	20	510	180-3624	180-3629	0.136	0.104	180-3648 (N/S)	4	135-8203 (4)	4F-3656 (8)	4K-0367 (8)	180-3639	180-3640
	Digging	24	610	180-3625	180-3630	0.174	0.133	180-3649 (N/S)	4	135-8203 (4)	4F-3656 (8)	4K-0367 (8)	180-3639	180-3640
	Digging	28	710	180-3626	180-3631	0.212	0.162	180-3650 (N/S)	4	135-8203 (4)	4F-3656 (8)	4K-0367 (8)	180-3639	180-3640
	Ditch Cleaning	40	1015		180-1355	0.182	0.139	180-1365 (N/S)						
	Ditch Cleaning	51	1295		180-1356	0.241	0.184	180-1366 (N/S)						
	Ditch Cleaning	63	1600		180-1357	0.299	0.229	180-1367 (N/S)						
303.5	Digging	12	305	171-2759	171-2760	0.065	0.049	174-2141 (N/S)	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	174-2133	174-2134
	Digging	16	405	171-2761	171-2762	0.085	0.065	174-2152 (N/S)	3	135-9390 (3)	159-8839 (6)	8T-4778 (6)	174-2133	174-2134
	Digging	20	510	171-2763	171-2764	0.116	0.089	174-2154 (N/S)	4	135-9390 (4)	159-8839 (8)	8T-4778 (8)	174-2133	174-2134
	Digging	24	610	171-2767	171-2768	0.148	0.113	174-2154 (N/S)	4	135-9390 (4)	159-8839 (8)	8T-4778 (8)	174-2133	174-2134
	Ditch Cleaning	26	660	171-2769	171-2770	0.165	0.126	174-2155 (N/S)	4	135-9390 (4)	159-8839 (8)	8T-4778 (8)	174-2133	174-2134
	Ditch Cleaning	40	1015		174-2460	0.145	0.111	153-7879 (N/S)						
	Ditch Cleaning	47	1195		174-2461	0.177	0.135	153-7880 (N/S)						
	Ditch Cleaning	55	1395		174-1811	0.208	0.159	173-9770 (N/S)						

* Includes 2 bucket mounting pins, 2 hydraulic fittings, and 4 retaining rings.

** Service replacement for 135-9380 factory tooth is 138-6410. Use 160-0018 flat head screw.
(N/S) – Non serviceable

Ground Engaging Tools – Skid Steer Loaders

Skid Steer Loaders/Work Tools



SIZE		TOOTHBAR	BUCKET ASSEMBLY (GP)	BUCKET ARRANGEMENT (MP)	FASTENERS			
(in)	(mm)				BOLTS	NUTS	LOCKWASHERS	WASHERS
60	1525	136-8734	165-6152	154-5004	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
66	1675	136-8735	165-6153	154-5008	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
72	1830	136-8736	165-6154	154-5010	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
78	1980	217-4878	199-7721	199-8321	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)

(GP) – General Purpose

(MP) – Multi-Purpose



SIZE		TOOTHBAR	BUCKET ASSEMBLY (GP)	BUCKET ARRANGEMENT (MP)	CUTTING EDGE	FASTENERS			
(in)	(mm)					BOLTS	NUTS	LOCKWASHERS	WASHERS
60	1525	159-0330	165-6152	154-5004	135-9394	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
66	1675	159-0340	165-6153	154-5008	135-9395	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
72	1830	159-0350	165-6154	154-5010	135-9396	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)
78	1980	195-9160	199-7721	199-8321	135-9397	8S-9093 (2)	2J-3507 (2)	3B-4516 (2)	5P-8250 (2)

(GP) – General Purpose

(MP) – Multi-Purpose

Ground Engaging Tools – Skid Steer Loaders

Skid Steer Loaders/Work Tools

BUCKET	EDGE TYPE	SIZE (in) (mm)		BUCKET ASSEMBLY	BUCKET ARRANGEMENT	TOOTH	BASE EDGE	CUTTING EDGE	CUTTING EDGE THICKNESS (in) (mm)		BOLT	NUT	SCREW	LOCKNUT
General Purpose	Base Edge	60	1525	165-6152			149-5435		0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	60	1525	165-6152	152-0224			135-9394	0.63	16.0			159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	60	1525	165-6152	152-0223	132-4720		174-7966	0.63	16.0	4F-3654 (8)	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	60	1525	165-6152	152-0223	132-4720		174-7972	0.75	19.0	4F-3654 (8)	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Base Edge	66	1675	165-6153			149-5436							
	Bolt-on Edge	66	1675	165-6153	152-0226			135-9395	0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Teeth	66	1675	165-6153	152-0225	132-4720		174-7967	0.63	16.0	4F-3654 (8)	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	66	1675	165-6153	152-0225	132-4720		174-7973	0.75	19.0	4F-3654 (8)	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Base Edge	72	1830	165-6154			149-5437							
	Bolt-on Edge	72	1830	165-6154	152-0229			135-9396	0.63	16.0			159-2953 (11)	8T-4778 (11)
Dirt	Bolt-on Teeth	72	1830	165-6154	152-0228	132-4720		174-7968	0.63	16.0	4F-3654 (11)	4K-0367 (11)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	72	1830	165-6155	152-0228	132-4720		174-7974	0.75	19.0	4F-3654 (11)	4K-0367 (11)	159-2953 (2)	8T-4778 (2)
	Base Edge	54	1370	165-6155			149-5434							
	Bolt-on Edge	54	1370	165-6155	152-0230			135-9393	0.50	12.7			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	54	1370	165-6155	152-0230			174-7965	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	54	1370	165-6155	152-0230			174-7971	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
	Base Edge	60	1525	165-6156			149-5435							
	Bolt-on Edge	60	1525	165-6156	152-0231			135-9394	0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	60	1525	165-6156	152-0231			174-7966	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	60	1525	165-6156	152-0231			174-7972	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
Utility	Base Edge	66	1675	165-6157			149-5436							
	Bolt-on Edge	66	1675	165-6157	152-0232			135-9395	0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	66	1675	165-6157	152-0232			174-7967	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	66	1675	165-6157	152-0232			174-7973	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
	Base Edge	60	1525	165-8835			149-5435							
	Bolt-on Edge	60	1525	165-8835	165-8836			135-9394	0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	60	1525	165-8835	165-8836			174-7966	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	60	1525	165-8835	165-8836			174-7972	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
	Base Edge	66	1675	165-8746			149-5436							
	Bolt-on Edge	66	1675	165-8746	165-8747			135-9395	0.63	16.0			159-2953 (8)	8T-4778 (8)
Light Material	Bolt-on Edge	66	1675	165-8746	165-8747			174-7967	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	66	1675	165-8746	165-8747			174-7973	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
	Base Edge	72	1830	165-8747			149-5437							
	Bolt-on Edge	72	1830	165-8747	165-8778			135-9396	0.63	16.0			159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	72	1830	165-8747	165-8778			174-7968	0.63	16.0	4F-3654 (6)	4K-0367 (6)		
	Bolt-on Edge	72	1830	165-8747	165-8778			174-7974	0.75	19.0	4F-3654 (6)	4K-0367 (6)		
	Base Edge	72	1830	164-7414			149-5437							
	Bolt-on Edge	72	1830	164-7414	164-7412			135-9396	0.63	16.0			159-2953 (11)	8T-4778 (11)
	Bolt-on Edge	72	1830	164-7414	164-7412			174-7968	0.63	16.0	4F-3654 (11)	4K-0367 (11)		
	Bolt-on Edge	72	1830	164-7414	164-7412			174-7974	0.75	19.0	4F-3654 (11)	4K-0367 (11)		
	Base Edge	78	1980	164-7415			167-7433 ‡							
	Bolt-on Edge	78	1980	164-7415	164-7413			135-9397	0.63	16.0			159-2953 (11)	8T-4778 (11)
	Bolt-on Edge	78	1980	164-7415	164-7413			174-7969	0.63	16.0	4F-3654 (11)	4K-0367 (11)		
	Bolt-on Edge	78	1980	164-7415	164-7413			174-7975	0.75	19.0	4F-3654 (11)	4K-0367 (11)		

‡ Discontinued, replaced by 199-7722

Ground Engaging Tools – Skid Steer Loaders

Skid Steer Loaders/Work Tools

BUCKET	EDGE TYPE	SIZE (in)	BUCKET ASSEMBLY	BUCKET ARRANGEMENT	BULL-DOZER ASSEMBLY	CLAM ASSEMBLY	TOOTH	BASE EDGE	CUTTING EDGE	CUTTING EDGE THICKNESS (in)	BOLT	NUT	SCREW	LOCKNUT
Multi-Purpose	Base Edge	60	154-5004		159-5345 †A			154-5037						
	Base Edge	60	154-5004	154-5045		149-4232		149-5435						
	Bolt-on Edge	60	154-5004	154-5045					135-9394	0.63	16		159-2953 (8)	8T-4778 (8)
	Bolt-on Teeth	60	154-5004	154-5045			132-4720		174-7966	0.63	16	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	60	154-5004	154-5045			132-4720		174-7972	0.73	19	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Base Edge	66	154-5008		159-5346 †B			154-5059						
	Base Edge	66	154-5008	154-5047		154-5053		149-5436						
	Bolt-on Edge	66	154-5008	154-5048					135-9395	0.63	16		159-2953 (8)	8T-4778 (8)
	Bolt-on Teeth	66	154-5008	154-5048			132-4720		174-7967	0.63	16	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	66	154-5008	154-5048			132-4720		174-7973	0.75	19	4K-0367 (8)	159-2953 (2)	8T-4778 (2)
	Base Edge	72	154-5010		154-5080			154-5077						
	Base Edge	72	154-5010	154-5049		154-5070		149-5437						
	Bolt-on Edge	72	154-5010	154-5050					135-9394	0.63	16		159-2953 (11)	8T-4778 (11)
	Bolt-on Teeth	72	154-5010	154-5050			132-4720		174-7968	0.63	16	4K-0367 (11)	159-2953 (2)	8T-4778 (2)
	Bolt-on Teeth	72	154-5010	154-5050			132-4720		174-7974	0.73	19	4K-0367 (11)	159-2953 (2)	8T-4778 (2)
Industrial	Base Edge	60	1525	157-7223				149-5435						
Grapple	Bolt-on Edge	60	1525	157-7223					135-9394	0.63	16		159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	60	1525	157-7223					174-7966	0.63	16	4K-0367 (8)		
	Bolt-on Edge	60	1525	157-7223					174-7972	0.75	19	4K-0367 (8)		
	Base Edge	66	1675	157-7224				149-5436						
	Bolt-on Edge	66	1675	157-7227					135-9395	0.63	16		159-2953 (8)	8T-4778 (8)
	Bolt-on Edge	66	1675	157-7224					174-7967	0.63	16	4K-0367 (8)		
	Bolt-on Edge	66	1675	157-7227					174-7973	0.75	19	4K-0367 (8)		
	Base Edge	72	1830	157-7225				149-5437						
	Bolt-on Edge	72	1830	157-7225					135-9396	0.63	16		159-2953 (11)	8T-4778 (11)
	Bolt-on Edge	72	1830	157-7225					174-7968			4K-0367 (11)		
	Bolt-on Edge	72	1830	157-7225					174-7974			4K-0367 (11)		
	Bolt-on Edge	72	1830	157-7225										

† Discontinued, replaced by:

A – 149-3477

B – 154-5063

Ground Engaging Tools – Skid Steer Loaders

BUCKET TYPE	EDGE TYPE	SIZE (mm)		BLADE GP	BLADE ARRANGEMENT	BLADE ASSEMBLY	CUTTING EDGE	CUTTING EDGE LENGTH (in) (mm)		BOLT	NUT	SCREW	LOCKNUT	WASHER	END PLATE
		(in)	(mm)					(in)	(mm)						
Angle Dozer	Cutting Edge	72.0	1830		177-1989		135-9396	74.5	1893			159-2953 (6)	8T-4778 (6)		
	Non-metallic Cutting Edge	72.0	1830		177-1989		165-8477			8T-4140 (6)			8T-4778 (6)	165-7095 (6)	
	Cutting Edge	81.5	2070		177-1990		149-5740 ‡A	84.0	2134			159-2953 (6)	8T-4778 (6)		
	Non-metallic Cutting Edge	81.5	2070		177-1990		165-8478			8T-4140 (6)			8T-4778 (6)	165-7095 (6)	
	Cutting Edge	90.5	2300	186-5671	208-3331 ‡ (N/S)	166-1686 ‡B	143-3088	64.1	1630	3F-5108 (17)	4K-0367 (17)			5P-8247 (17)	159-0372 (2)
	Cutting Edge	90.5	2300	186-5671	183-1769 ‡ (N/S)	166-1686 ‡B	143-3088	64.1	1630	3F-5108 (17)	4K-0367 (17)			5P-8247 (17)	159-0372 (2)
	Cutting Edge	90.5	2300	186-5671	169-7646	166-1686 B	143-3088	64.1	1630	3F-5108 (17)	4K-0367 (17)			5P-8247 (17)	159-0372 (2)
	Cutting Edge	90.5	2300	186-5671	208-3297 ‡ (N/S)	166-1686 ‡B	143-3088	64.1	1630	3F-5108 (17)	4K-0367 (17)			5P-8247 (17)	159-0372 (2)
	Cutting Edge	94.4	2400	208-2038	208-3277 ‡ (N/S)	166-1687 ‡C	143-3089	68.0	1730	3F-5108 (17)	4K-0367 (17)			5P-8247 (17)	195-7193 (2)

‡ Discontinued, replaced by:

A – 195-5124

B – 235-3852

C – 235-3856

(N/S) – Non serviceable

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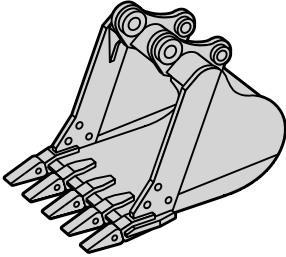


GROUND ENGAGING TOOLS | EXCAVATORS

Ground Engaging Tools – Excavator Buckets

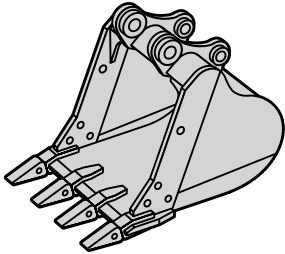
300-Family, B-Series Excavator Buckets

Caterpillar 300-Family, B-Series excavator buckets have high-strength base edges that are through-hardened for long wear life and breakage resistance.



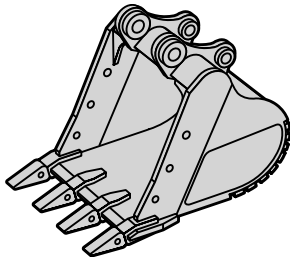
General Purpose Bucket

- Provides greater capacity.
- Decreases load time and reduces bucket weight due to lighter structures.
- For use in low impact, moderately abrasive soils.



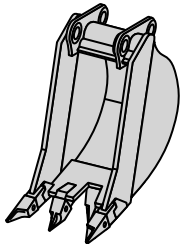
Heavy Duty Bucket

- Provides greater wear and dent protection due to thicker wear plates.
- For use in abrasive or hard to penetrate soils.



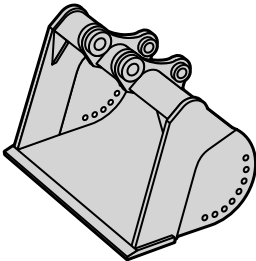
Heavy Duty Rock Bucket

- Provides enhanced wear and dent protection due to thicker bottom wear plates and larger lower wear plates.
- For use in fragmented rock, frozen ground, caliche, and highly abrasive materials.



Rock Ripping Bucket

- Allows for ripping-type digging action due to a stepped tooth design.
- For use where aggressive penetration is needed and where blasting is a problem.



Ditch Cleaning Bucket

- Allows wet material to empty due to drainage holes.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY.①	THICKNESS (in)	THICKNESS (mm)	TRANSVERSE WEAR STRIP FRONT	TRANSVERSE WEAR STRIP REAR	NUMBER OF TEETH	ADAPTERS (lh)	ADAPTERS (ctr)	TIP SIZE
A Linkage											
General Purpose	36	914	229-7568	1.41	36			5		8E-9490 (5)	J300
	36	914	7Y-6664	1.26	32			5		7Y-0254 (5)	J250
	45	1143	7Y-6601	N/A	N/A						
B Linkage											
General Purpose	24	610	240-9602	1.37	35	209-5740 (1)	209-5741 (5)	3	220-9086	220-9084 (1)	K80
	30	775	104-2097	1.57	40	133-2301	100-5357 (3)	4	61-6356	61-6354 (2)	J350
	30	762	240-9603	1.37	35	198-8737 (1)	199-6291 (5)	4	220-9086	220-9084 (2)	K80
	36	925	127-8633	1.57	40	133-2302	108-6951 (3)	5	61-6356	61-6354 (3)	J350
	36	914	240-9604	1.37	35	199-6281 (1)	199-6292 (5)	5	220-9086	220-9084 (3)	K80
	36	914	245-8862	1.37	35	199-6281 (1)	199-6292 (5)				K80
	42	1075	61-5193	1.57	40	133-2303	108-6952 (3)	5	61-6356	61-6354 (3)	J350
	42	1067	240-9605	1.37	35	199-6278 (1)	199-6294 (5)	5	220-9086	220-9084 (3)	K80
	48	1225	129-5714	1.57	40	133-2304	136-2026 (3)	6	61-6356	61-6354 (4)	J350
	48	1219	240-9606	1.37	35	199-6279 (1)	199-6295 (5)	6	220-9086	220-9084 (4)	K80
	54	1377	129-5719	1.57	40	153-7959	153-7960 (3)	7	61-6356	61-6354 (5)	J350
	54	1372	240-9607	1.37	35	204-6637 (1)	204-6638 (5)	6	220-9086	220-9084 (4)	K80
	24	625	104-2096	1.57	40	162-2946	149-5219 (4)	3	61-6356	61-6354	J350
	24	610	227-8740	1.57	40	231-5996 (1)	241-6317 (4)	3	220-9096	220-9094 (1)	K90
	25	635	208-7528	1.57	40	208-8771 (1)	208-8770 (3)	3	168-1356	61-6354	J350
	27	610	104-2096	1.57	40	127-8624	128-0700 (3)	3	61-6356	61-6354	J350
	30	775	104-2097	1.57	40	127-8626	127-6942 (3)	4	61-6356	61-6354 (2)	J350
Heavy Duty	30	762	228-6951	1.57	40	231-5997 (1)	231-5956 (4)	4	220-9096	220-9094 (2)	K90
	36	925	127-8633	1.57	40	127-5088	127-2281 (3)	5	61-6356	61-6354 (3)	J350
	36	914	228-6952	1.57	40	231-5998 (1)	231-5957 (4)	5	220-9096	220-9094 (3)	K90
	42	1075	137-9526	1.57	40	127-5089	123-3212 (3)	5	61-6356	61-6354 (3)	J350
	42	1067	228-6953	1.57	40	231-5999 (1)	231-5958 (4)	5	220-9096	220-9094 (3)	K90
	48	1225	129-5714	1.57	40	127-2287	127-2288 (3)	6	61-6356	61-6354 (4)	J350
	48	1219	225-6813	1.57	40	231-6000 (1)	231-5959 (4)	6	220-9096	220-9094 (4)	K90
	54	1375	129-5719	1.57	40	127-2294	127-2295 (3)	7	61-6356	61-6354 (5)	J350
	54	1372	235-2498	1.57	40	231-6001 (1)	231-5960 (4)	6	220-9096	220-9094 (4)	K90
	60	1525	127-2304	1.57	40	193-4923	127-2303 (3)	7	61-6356	61-6354 (5)	J350
Heavy Duty Rock	24	610	227-8740	1.57	40	231-5996 (1)	231-8064 (4)	3	220-9096	220-9094 (1)	K90
	25	635	208-7528	1.57	40	217-9220	231-8065 (3)	3	168-1356	61-6354	J350
						217-9219 (4)	217-9742 (3)				

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)	
B Linkage (cont.)												
Heavy Duty Rock (cont.)	30	775	104-2097	1.57	40	148-8849	134-1910 (4) 134-1911 (4)	4	6I-6356	6I-6354 (2)	6I-6355	J350
	30	762	228-6951	1.57	40	231-5997 (1)	231-8066 (4) 231-8067 (3)	4	220-9096	220-9094 (2)	220-9095	K90
	36	925	127-8633	1.57	40	148-8850	134-1914 (4) 134-1915 (4)	5	6I-6356	6I-6354 (3)	6I-6355	J350
	36	914	228-6952	1.57	40	231-5998 (1)	231-8068 (4) 231-8069 (3)	5	220-9096	220-9094 (3)	220-9095	K90
	42	1075	137-9526	1.57	40	148-8851	134-1917 (4) 134-1918 (4)	5	6I-6356	6I-6354 (3)	6I-6355	J350
	42	1067	228-6953	1.57	40	231-5999 (1)	231-8070 (4) 231-8071 (3)	5	220-9096	220-9094 (3)	220-9095	K90
Heavy Duty Power	36	914	228-6952	1.57	40	198-2928 (1)	198-2929 (5)	5	220-9096	220-9094 (3)	220-9095	K90
	42	1067	228-6953	1.57	40	197-2767 (1)	198-5212 (5)	5	220-9096	220-9094 (3)	220-9095	K90
Ditch Cleaning	48	1219	225-6813	1.57	40	198-8730 (1)	198-2768 (5)	6	220-9096	220-9094 (4)	220-9095	K90
	56	1420	135-8636	1.57	40							
	68	1720	135-8637	1.57	40							
	60	1524	227-8203	N/A	N/A							
	72	1829	232-2923	N/A	N/A							
C Linkage												
General Purpose	30	775	105-2761	1.57	40	133-2243	100-4346 (4)	3	6I-6406	6I-6404	6I-6405	J400
	30	762	228-6951	1.57	40	198-8737 (1)	199-6291 (5)	4	220-9096	220-9094 (2)	220-9095	K90
	36	925	132-8418	1.57	40	133-2244	113-7682 (4)	5	6I-6356	6I-6354 (3)	6I-6355	J350
	36	914	228-6952	1.57	40	199-6281 (1)	199-6292 (5)	5	220-9096	220-9094 (3)	220-9095	K90
	42	1075	6I-5193	1.57	40	133-2245	111-6072 (4)	5	6I-6356	6I-6354 (3)	6I-6355	J350
	42	1067	228-6953	1.57	40	199-6278 (1)	199-6294 (5)	5	220-9096	220-9094 (3)	220-9095	K90
	48	1255	129-5714			133-2246	112-9696 (4)	5	6I-6356	6I-6354 (3)	6I-6355	J350
	48	1219	225-6813	1.57	40	199-6279 (1)	199-6295 (5)	6	220-9096	220-9094 (4)	220-9095	K90
	54	1375	129-5719			133-2248	112-9701 (4)	6	6I-6356	6I-6354 (4)	6I-6355	J350
	54	1372	235-2498	1.57	40	204-6637 (1)	204-6638 (5)	6	220-9096	220-9094 (4)	220-9095	K90
Heavy Duty	30	775	105-2761	1.57	40	127-5710	127-5711 (4)	3	6I-6406	6I-6404	6I-6405	J400
	30	762	241-6725	1.75	44.45	241-6300 (1)	231-6317 (4)	3	220-9106	220-9104	220-9105	K100
	36	925	127-2282	1.57	40	127-5088	127-2281 (4)	4	6I-6406	6I-6404 (2)	6I-6405	J400
	36	914	241-6726	1.75	44.45	241-6301 (1)	231-5957 (4)	4	220-9106	220-9104 (2)	220-9105	K100
	42	1075	126-3718	1.57	40	127-5089	123-3212 (4)	5	6I-6406	6I-6404 (3)	6I-6405	J400

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE
				(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)	
C Linkage (cont.)												
Heavy Duty (cont.)	42	1067	241-6727	1.75	44.45	241-6302 (1)	231-5958 (4)	5	220-9106	220-9104 (3)	220-9105	K100
	48	1219	127-2289	1.57	40	127-2287	127-2288 (4)	5	61-6406	61-6404 (3)	61-6405	J400
	48	1219	241-6728	1.75	44.45	241-6303 (1)	231-5959 (4)	5	220-9106	220-9104 (3)	220-9105	K100
	54	1375	127-2296	1.57	40	127-2294	127-2295 (4)	6	61-6406	61-6404 (4)	61-6405	J400
	54	1372	241-6729	1.75	44.45	241-6304 (1)	231-5960 (4)	6	220-9106	220-9104 (4)	220-9105	K100
	60	1520	127-2304	1.57	40	127-2302	127-2303 (4)	7	61-6406	61-6404 (5)	61-6405	J400
	60	1524	241-6730	1.75	44.45	241-6305 (1)	241-6307 (4)	7	220-9106	220-9104 (5)	220-9105	K100
	66	1680	127-2316	1.57	40	127-2314	127-2315 (4)	7	61-6406	61-6404 (5)	61-6405	J400
	66	1676	242-1794	1.75	44.45	241-6306 (1)	241-6308 (4)	7	220-9106	220-9104 (5)	220-9105	K100
	42	1067	241-6727	1.75	44.45	198-2767 (1)	198-5212 (5)	5	220-9106	220-9104 (3)	220-9105	K100
Heavy Duty Power	48	1219	241-6728	1.75	44.45	198-8730 (1)	198-2768 (5)	5	220-9106	220-9104 (3)	220-9105	K100
	54	1372	241-6729	1.75	44.45	199-6282 (1)	199-6293 (5)	6	220-9106	220-9104 (4)	220-9105	K100
	30	775	105-2761	1.57	40	162-6893	162-6894 (4)	3	61-6406	61-6404	61-6405	J400
	30	762	241-6725	1.75	44.45	241-6300 (1)	162-6895 (4)	3	220-9106	220-9104	220-9105	K100
	36	925	127-2282	1.57	40	134-1913	150-4535 (4)	4	61-6406	61-6404 (2)	61-6405	J400
	36	914	241-6726	1.75	44.45	241-6301 (1)	134-1915 (4)	4	220-9106	220-9104 (2)	220-9105	K100
	42	1075	126-3718	1.57	40	150-4595	231-8068 (4)	5	61-6406	61-6404 (3)	61-6405	J400
	42	1067	241-6727	1.75	44.45	241-6302 (1)	231-8069 (3)	5	220-9106	220-9104 (3)	220-9105	K100
	48	1255	127-2289	1.57	40	150-4601	134-1917 (4)	5	61-6406	61-6404 (3)	61-6405	J400
	48	1219	241-6728	1.75	44.45	241-6303 (1)	134-1918 (4)	5	220-9106	220-9104 (3)	220-9105	K100
	66	1680	135-3165	1.50	38		241-6309 (4)					
Ditch Cleaning	72	1830	135-3167	1.26	32		241-6310 (3)					
	72	1829	232-2923	N/A	N/A							
D Linkage												
General Purpose	30	775	105-2532	1.97	50	118-8713	118-8714 (4)	3	159-0466	159-0464	159-0465	J460
	30	762	105-2532	1.97	50	197-8289 (1)	197-8293 (5)	3	159-0466	159-0464	159-0465	J460
	30	762	241-6725	1.75	44.45	204-9686 (1)	223-5840 (6)	3	220-9106	220-9104 (1)	220-9105	K100

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE	
	(in)	(mm)		(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)		
General Purpose (cont.)	D Linkage (cont.)												
	36	925	105-2533	1.97	50	115-0034	115-0035 (4)	3	159-0466	159-0464	159-0465	J460	
	36	914	105-2533	1.97	50	175-4515 (1)	175-4518 (5)	3	159-0466	159-0464	159-0465	J460	
	36	914	241-6726	1.75	44.45	246-2181 (1)	246-2183 (6)	4	220-9106	220-9104 (4)	220-9105	K100	
	42	1075	104-5747	1.75	44	133-2261	117-8961 (4)	5	61-6406	61-6404 (3)	61-6405	J400	
	42	1067	128-2954	1.97	50	197-8291 (1)	197-8294 (5)	4	159-0466	159-0464 (2)	159-0465	J460	
	42	1067	241-6727	1.75	44.45	204-9687 (1)	223-5841 (6)	5	220-9106	220-9104 (3)	220-9105	K100	
	48	1225	104-5748	1.75	44	133-2262	117-8965 (4)	5	61-6406	61-6404 (3)	61-6405	J400	
	48	1219	123-3220	1.97	50	169-2845 (1)	175-4526 (5)	5	159-0466	159-0464 (3)	159-0465	J460	
	48	1219	241-6728	1.75	44.45	205-2188 (1)	198-2768 (6)	5	220-9106	220-9104 (3)	220-9105	K100	
	55	1400	133-2321	1.75	44	133-2263	117-8974 (4)	5	61-6406	61-6404 (3)	61-6405	J400	
	55	1397	117-8975	1.97	50	175-4537 (1)	175-4538 (5)	5	159-0466	159-0464 (3)	159-0465	J460	
	55	1397	241-6729	1.75	44.45	205-2189 (1)	224-2134 (6)	6	220-9106	220-9104 (4)	220-9105	K100	
	60	1525	61-5224	1.75	44	133-2264	133-8530 (4)	6	61-6406	61-6404 (4)	61-6405	J400	
	60	1524	128-5366	1.97	50	169-2848 (1)	169-2847 (5)	6	159-0466	159-0464 (4)	159-0465	J460	
	60	1524	241-6730	1.75	44.45	205-2190 (1)	224-2135 (6)	7	220-9106	220-9104 (5)	220-9105	K100	
	Heavy Duty	26	660	210-6117	1.97	50	210-6125	210-6126 (5)	3	159-0466	159-0464	159-0465	J460
		30	762	105-2532	1.97	50	128-2942	128-2945 (3)	3	159-0466	159-0464	159-0465	J460
30		762	258-4571	2.36	60	256-3026 (1)	258-6446 (6)	3	232-0116	232-0114 (1)	232-0115	K110	
							258-6454 (1)						
30		775	105-2532	1.97	50	128-2942	128-2545 (3)	3	159-0466	159-0464	159-0465	J460	
36		925	105-2533	1.97	50	128-2947	128-2949 (3)	3	159-0466	159-0464	159-0465	J460	
36		914	258-4572	2.36	60	256-3027 (1)	258-6447 (6)	4	232-0116	232-0114 (2)	232-0115	K110	
							258-6455 (1)						
42		1075	128-2954	1.97	50	128-2951	128-2952 (3)	4	159-0466	159-0464 (2)	159-0465	J460	
42		1067	258-4573	2.36	60	256-3028 (1)	258-6448 (6)	4	232-0116	232-0114 (2)	232-0115	K110	
							258-6456 (1)						
48		1225	123-3220	1.97	50	128-2677	123-3219 (3)	5	159-0466	159-0464 (3)	159-0465	J460	
48		1219	258-4574	2.36	60	253-0982 (1)	258-6449 (6)	5	232-0116	232-0114 (3)	232-0115	K110	
							258-6457 (1)						
55		1400	117-8975	1.97	50	117-8973	128-5353 (3)	5	159-0466	159-0464 (3)	159-0465	J460	
55		1397	258-4575	2.36	60	253-0812 (1)	258-6450 (6)	5	232-0116	232-0114 (3)	232-0115	K110	
							258-6458 (1)						
60		1525	128-5366	1.97	50	128-5364	128-5365 (3)	6	159-0466	159-0464 (4)	159-0465	J400	
60	1524	258-4576	2.36	60	256-3029 (1)	258-6451 (6)	6	232-0116	232-0114 (4)	232-0115	K110		
						258-6459 (1)							

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY. ①	THICKNESS (in)	THICKNESS (mm)	TRANSVERSE WEAR STRIP FRONT	TRANSVERSE WEAR STRIP REAR	NUMBER OF TEETH	ADAPTERS (lh)	ADAPTERS (ctr)	ADAPTERS (rh)	TIP SIZE
D Linkage (cont.)												
Heavy Duty (cont.)	66	1680	128-5379	1.97	50	128-5377	128-5378 (3)	6	159-0466	159-0464 (4)	159-0465	J460
	66	1676	258-4577	2.36	60	256-3030 (1)	258-6452 (6) 258-6460 (1)	7	232-0116	232-0114 (5)	232-0115	K110
	72	1830	128-5389	1.97	50	128-5387	128-5388 (3)	7	159-0466	159-0464 (5)	159-0465	J460
	72	1829	258-4578	2.36	60	256-3031 (1)	258-6453 (6) 258-8027 (1)	7	232-0116	232-0114 (5)	232-0115	K110
	30	762	105-2532	1.97	50	N/S	222-8851 (5) 222-8850 (2)	3	159-0466	159-0464	159-0465	J460
Heavy Duty Rock	30	762	105-2532	1.97	50	N/S	147-6643 (5)	3	159-0466	159-0464	159-0465	J460
	30	762	258-4571	2.36	60	256-3026 (1)	256-3041 (4) 258-8028 (6)	3	232-0116	232-0114 (1)	232-0115	K110
	36	914	258-4572	2.36	60	256-3027 (1)	256-3042 (4) 258-8029 (6)	4	232-0116	232-0114 (2)	232-0115	K110
	42	1075	128-2954	1.97	50	134-1922	134-1923 (5) 134-1924 (3)	4	159-0466	159-0464 (2)	159-0465	J460
	42	1067	258-4573	2.36	60	256-3028 (1)	256-3043 (4) 258-8030 (6)	4	232-0116	232-0114 (2)	232-0115	K110
	48	1225	123-3220	1.97	50	134-5030	134-5031 (5) 134-5032 (3)	5	159-0466	159-0464 (3)	159-0465	J460
	48	1219	123-3220	1.97	50	148-6510	134-5031 (5) 134-5032 (3)	5	159-0466	159-0464 (3)	159-0465	J460
	48	1219	258-4574	2.36	60	253-0982 (1)	256-3044 (4) 258-8031 (6)	5	232-0116	232-0114 (3)	232-0115	K110
	55	1400	117-8975	1.97	50	134-5033	134-5034 (5) 134-5035 (3)	5	159-0466	159-0464 (3)	159-0465	J460
	55	1397	117-8975	1.97	50	148-6511 (1)	134-5034 (5) 134-5035 (2)	5	159-0466	159-0464 (3)	159-0465	J460
Heavy Duty Power	55	1397	258-4575	2.36	60	253-0812 (1)	256-3045 (4) 258-8032 (6)	5	232-0116	232-0114 (3)	232-0115	K110
	36	914	199-7664	1.97	50	199-7668 (1)	199-7670 (5)	3	159-0466	159-0464 (1)	159-0465	J460
	36	914	258-4572	2.36	60	256-3027 (1)	256-3049 (5)	4	232-0116	232-0114 (2)	232-0115	K110
	48	1219	198-8625	1.97	50	199-6272 (1)	199-6297 (5)	5	159-0466	159-0464 (3)	159-0465	J460
	48	1219	258-4574	2.36	60	253-0982 (1)	253-0983 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	54	1372	198-8626	1.97	50	199-6273 (1)	199-6298 (5)	5	159-0466	159-0464 (3)	159-0465	J460
	54	1372	258-4575	2.36	60	253-0812 (1)	253-0813 (5)	5	232-0116	232-0114 (3)	232-0115	K110

(N/S) – Non serviceable

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)	
D Linkage (cont.)												
Heavy Duty Power (cont.)	60	1524	198-8627	1.97	50	199-6274 (1)	199-6299 (5)	6	159-0466	(4) 159-0464	159-0465	J460
	60	1524	258-4576	2.36	60	256-3029 (1)	256-3051 (5)	6	232-0116	(4) 232-0114	232-0115	K110
	35	900	61-5663*	1.97	50	7Y-9121		5	107-3465	107-3464	107-3465	J460
	66	1680	135-3163	1.77	45							
	70	1800	135-3164	1.77	45							
	72	1829	232-2924	N/A	N/A							
S Linkage												
General Purpose	24	610	104-2096	1.57	40	133-2298	100-6479 (3)	3	61-6356	61-6354	61-6355	J350
	24	610	227-8740	1.57	40	209-5740 (1)	209-5741 (5)	3	220-9096	220-9094 (1)	220-9095	K90
	30	775	105-2761	1.75	44	133-2243	100-4346 (4)	3	61-6406	61-6404	61-6405	J400
	30	762	228-6951	1.57	40	198-8737 (1)	199-6291 (5)	4	220-9096	220-9094 (2)	220-9095	K90
	36	925	132-8418	1.57	40	133-2244	113-7682 (4)	5	61-6356	61-6354 (3)	61-6355	J350
	36	914	228-6952	1.57	40	199-6281 (1)	199-6292 (5)	5	220-9096	220-9094 (3)	220-9095	K90
	42	1075	61-5193	1.57	40	133-2245	111-6072 (4)	5	61-6356	61-6354 (3)	61-6355	J350
	42	1067	228-6953	1.57	40	199-6278 (1)	199-6294 (5)	5	220-9096	220-9094 (3)	220-9095	K90
	48	1225	129-5714	1.57	40	133-2246		6	61-6356	61-6354 (4)	61-6355	J350
	48	1219	225-6813	1.57	40	199-6279 (1)	199-6295 (5)	6	220-9096	220-9094 (4)	220-9095	K90
	54	1375	129-5719	1.57	40	133-2248		7	61-6356	61-6354 (5)	61-6355	J350
	54	1372	235-2498	1.57	40	204-6637 (1)	204-6638 (5)	6	220-9096	220-9094 (4)	220-9095	K90
Heavy Duty	24	610	104-2096	1.57	40	127-8624	127-0700 (3)	3	61-6356	61-6354	61-6355	J350
	24	610	241-6724	1.75	44.45	241-6316 (1)	231-6317 (4)	3	220-9106	220-9104	220-9105	K100
	30	775	105-2761	1.75	44	127-5710	127-5711 (4)	3	61-6406	61-6404	61-6405	J400
	30	762	241-6725	1.75	44.45	241-6300 (1)	231-5956 (4)	3	220-9106	220-9104	220-9105	K100
	36	925	127-2282	1.75	44	127-5088	127-2281 (4)	4	61-6406	61-6404 (2)	61-6405	J400
	36	914	241-6726	1.75	44.45	241-6301 (1)	231-5957 (4)	4	220-9106	220-9104 (3)	220-9105	K100
	42	1075	126-3718	1.75	44	127-5089	123-3212 (4)	5	61-6406	61-6404 (3)	61-6405	J400
	42	1067	239-7504	1.75	44.45	241-6302 (1)	231-5958 (4)	5	220-9106	220-9104 (3)	220-9105	K100
	48	1225	127-2289	1.75	44	127-2287		5	61-6406	61-6404 (3)	61-6405	J400
	48	1219	239-7505	1.75	44.45	241-6303 (1)	231-5959 (4)	5	220-9106	220-9104 (3)	220-9105	K100
	54	1375	127-2296	1.75	44	127-2294		6	61-6406	61-6404 (4)	61-6405	J400
	54	1372	241-6729	1.75	44.45	241-6304 (1)	231-5960 (4)	6	220-9106	220-9104 (4)	220-9105	K100
Heavy Duty Power	60	1525	127-2304	1.75	44	127-2302		7	61-6406	61-6404 (5)	61-6405	J400
	60	1524	241-6730	1.75	44.45	241-6305 (1)	241-6307 (4)	7	220-9106	220-9104 (5)	220-9105	K100
	42	1067	241-6727	1.75	44.45	198-2767 (1)	198-5212 (5)	5	220-9106	220-9104 (3)	220-9105	K100
	48	1219	241-6728	1.75	44.45	198-8730 (1)	198-2768 (5)	5	220-9106	220-9104 (3)	220-9105	K100

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY. ①	THICKNESS (in)	THICKNESS (mm)	TRANSVERSE WEAR STRIP FRONT	TRANSVERSE WEAR STRIP REAR	NUMBER OF TEETH	ADAPTERS (lh)	ADAPTERS (ctr)	TIP SIZE
S Linkage (cont.)											
Heavy Duty Power (cont.)	54	1372	241-6729	1.75	44.45	199-6282 (1)	199-6293 (5)	6	220-9106	220-9104 (4)	220-9105 K100
Heavy Duty Rock	30	762	241-6725	1.75	44.45	241-6300 (1)	231-8066 (4) 231-8067 (3)	3	220-9106	220-9104	220-9105 K100
	36	925	127-2282	1.75	44	134-1913	134-1914 (4) 134-1915 (4)	4	61-6406	61-6404 (2)	61-6405 J400
	36	914	241-6726	1.75	44.45	241-6301 (1)	231-8068 (4) 231-8069 (3)	4	220-9106	220-9104 (2)	220-9105 K100
	42	1075	126-3718	1.75	44	134-1916	134-1917 (4) 134-1918 (4)	5	61-6406	61-6404 (3)	61-6405 J400
	42	1067	241-6727	1.75	44.45	241-6302 (1)	231-8070 (4) 231-8071 (3)	5	220-9106	220-9104 (3)	220-9105 K100
Ditch Cleaning	48	1225	127-2289	1.75	44	134-1929	134-1930 (4) 134-1931 (4)	5	61-6406	61-6404 (3)	61-6405 J400
	60	1524	227-8203	N/A	N/A						
	62	1575	135-8634	1.25	32						
	72	1830	135-8635	1.26	32						
	72	1829	232-2923	N/A	N/A						
E Linkage											
Heavy Duty	66	1676	137-4110	1.97	50	136-6294	128-5378 (4)	6	159-0466	159-0464 (4)	159-0465 J460
	66	1676	241-6723	2.36	60	256-3030	256-3052 (5)	7	232-0116	232-0114 (5)	232-0115 K110
	72	1829	137-4111	1.97	50	136-6299	128-5388 (4)	7	159-0466	159-0464 (5)	159-0465 J460
	72	1829	244-3889	2.36	60	256-3031	256-3053 (5)	7	232-0116	232-0114 (5)	232-0115 K110
F Linkage											
General Purpose	30	762	148-7038	1.97	50	150-5520 (1)	154-7210 (4)	3	159-0466	159-0464	159-0465 J460
	36	920	137-4105	1.97	50	145-8085	145-8086 (4)	3	159-0466	159-0464	159-0465 J460
	42	1067	137-4106	1.97	50	145-8088	145-8089 (4)	4	159-0466	159-0464 (2)	159-0465 J460
	48	1230	146-0233	1.75	44	146-0231	146-0232 (4)	5	61-6406	61-6404 (3)	61-6405 J400
	48	1230	137-4107	1.97	50	145-8091	145-8092 (4)	5	159-0466	159-0464 (3)	159-0465 J460
	54	1372	137-4108	1.97	50	145-8112	145-8113 (4)	5	159-0466	159-0464 (3)	159-0465 J460
	62	1575	145-8108	1.97	50	145-8099	145-8100 (4)	6	159-0466	159-0464 (4)	159-0465 J460
	66	1676	241-6723	2.36	60	256-3030 (1)	258-8968 (5)	7	232-0116	232-0114 (5)	232-0115 K110
	68	1727	145-8109	1.97	50	145-8105	145-8106 (4)	7	159-0466	159-0464 (5)	159-0465 J460
	72	1829	244-3889	2.36	60	253-4289 (1)	253-4290 (5)	7	232-0116	232-0114 (5)	232-0115 K110

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)	
Heavy Duty	36	920	137-4105	1.97	50	136-6269	128-2949 (4)	3	159-0466	159-0464	159-0465	J460
	36	914	244-3895	2.36	60	256-3027 (1)	256-3049 (5)	4	232-0116	232-0114 (2)	232-0115	K110
	42	1067	137-4106	1.97	50	136-6274	128-2953 (4)	4	159-0466	159-0464 (2)	159-0465	J460
	48	1230	137-4107	1.97	50	136-6279	123-3219 (4)	5	159-0466	159-0464 (3)	159-0465	J460
	48	1219	241-6720	2.36	60	253-0982 (1)	253-0983 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	54	1372	137-4108	1.97	50	136-6284	128-5353 (4)	5	159-0466	159-0464 (3)	159-0465	J460
	54	1372	241-6721	2.36	60	253-0812 (1)	253-0813 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	60	1524	137-4109	1.97	50	136-6289	128-5365 (4)	6	159-0466	159-0464 (4)	159-0465	J460
	60	1524	258-4574	2.36	60	256-3029 (1)	256-3051 (5)	6	232-0116	232-0114 (4)	232-0115	K110
	66	1676	241-6723	2.36	60	256-3030 (1)	256-3052 (5)	7	232-0116	232-0114 (5)	232-0115	K110
	72	1829	137-4111	1.97	50	136-6299	128-5388 (4)	7	159-0466	159-0464 (5)	159-0465	J460
	72	1829	244-3889	2.36	60	256-3031 (1)	256-3053 (6)	7	232-0116	232-0114 (5)	232-0115	K110
	30	762	241-6717	2.36	60	256-3026 (1)	256-3032 (5)	3	232-0116	232-0114 (2)	232-0115	K110
	36	914	159-0897	1.97	50	159-0893 (1)	158-0896 (5)	4	159-0466	159-0464 (2)	159-0465	J460
	42	1067	137-4106	1.97	50	138-7545	134-1923 (5)	4	159-0466	159-0464 (2)	159-0465	J460
	48	1230	137-4107	1.97	50	138-7546	134-5031 (5)	5	159-0466	159-0464 (3)	159-0464	J460
Heavy Duty Rock	48	1219	241-6720	2.36	60	253-0982 (1)	256-3036 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	54	1400	137-4108	1.97	50	138-8182	134-5034 (5)	5	159-0466	159-0464 (3)	159-0465	J460
	60	1524	137-4109	1.97	50	163-6043 (1)	163-6044 (5)	6	159-0466	159-0464 (4)	159-0465	J460
	66	1676	137-4110	1.97	50	163-6047 (1)	163-6045 (2)	6	159-0466	159-0464 (4)	159-0465	J460
	72	1829	137-7411	1.97	50	163-6051 (1)	163-6048 (5)	6	159-0466	159-0464 (4)	159-0465	J460
	36	914	199-7665	2.36	60	199-7671 (1)	163-6053 (2)	7	159-0466	159-0464 (5)	159-0465	J460
	48	1219	198-8628	2.36	60	199-6275 (1)	199-6049 (2)	3	159-0466	159-0464 (5)	159-0465	J460
	54	1372	198-8629	2.36	60	199-6276 (1)	199-6052 (5)	4	159-0466	159-0464 (5)	159-0465	J460
	60	1524	198-8630	2.36	60	199-6277 (1)	199-6053 (2)	7	159-0466	159-0464 (5)	159-0465	J460
	36	914	199-7665	2.36	60	199-7671 (1)	163-6053 (2)	3	159-0466	159-0464 (5)	159-0465	J460
	48	1219	198-8628	2.36	60	199-6275 (1)	199-6049 (2)	4	159-0466	159-0464 (5)	159-0465	J460
	54	1372	198-8629	2.36	60	199-6276 (1)	199-6052 (5)	4	159-0466	159-0464 (5)	159-0465	J460
	60	1524	198-8630	2.36	60	199-6277 (1)	199-6053 (2)	7	159-0466	159-0464 (5)	159-0465	J460
	36	914	199-7665	2.36	60	199-7671 (1)	199-6049 (2)	3	159-0466	159-0464 (5)	159-0465	J460
	48	1219	198-8628	2.36	60	199-6275 (1)	199-6049 (2)	4	159-0466	159-0464 (5)	159-0465	J460
	54	1372	198-8629	2.36	60	199-6276 (1)	199-6049 (2)	4	159-0466	159-0464 (5)	159-0465	J460
60	1524	198-8630	2.36	60	199-6277 (1)	199-6049 (2)	7	159-0466	159-0464 (5)	159-0465	J460	

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY. ①	THICKNESS (in)	THICKNESS (mm)	TRANSVERSE WEAR STRIP FRONT	TRANSVERSE WEAR STRIP REAR	NUMBER OF TEETH	ADAPTERS (lh)	ADAPTERS (ctr)	ADAPTERS (rh)	TIP SIZE
G Linkage												
Heavy Duty	67	1710	138-4728	2.36	60	138-4726	138-4727 (4)	6	6I-6556	6I-6554 (4)	6I-6555	J550
	75	1900	138-2395	2.36	60	138-2392	138-2393 (4)	6	6I-6556	6I-6554 (4)	6I-6555	J550
	75	1900	138-2395	2.36	60	143-5421	143-5422 (2)	6	6I-6556	6I-6554 (4)	6I-6555	J550
GV Linkage												
General Purpose	75	1905	180-8267	2.36	60	180-8275 (1)	180-8276 (6)	6	6I-6556	6I-6554 (4)	6I-6555	J550
Heavy Duty Rock	75	1905	180-8267	2.36	60	180-8275 (1)	175-4561 (6) 175-4562 (2)	6	6I-6556	6I-6554 (4)	6I-6555	J550
TB Linkage												
General Purpose	30	762	241-6717	2.36	60	256-3026 (1)	258-8962 (5) 256-7955 (1)	3	232-0116	232-0114 (1)	232-0115	K110
	36	914	244-3895	2.36	60	256-3027 (1)	258-8963 (5) 256-7956 (1)	4	232-0116	232-0114 (2)	232-0115	K110
	42	1067	241-6719	2.36	60	256-3028 (1)	258-8964 (5) 259-2242 (1)	4	232-0116	232-0114 (2)	232-0115	K110
	48	1219	241-6720	2.36	60	253-0982 (1)	258-8965 (5) 258-8969 (1)	5	232-0116	232-0114 (3)	232-0115	K110
	54	1372	241-6721	2.36	60	253-0812 (1)	258-8966 (5) 258-8970 (1)	5	232-0116	232-0114 (3)	232-0115	K110
	60	1524	241-6722	2.36	60	256-3029 (1)	258-8967 (5) 258-8971 (1)	6	232-0116	232-0114 (4)	232-0115	K110
	66	1676	241-6723	2.36	60	256-3030 (1)	258-8968 (5) 258-8972 (1)	7	232-0116	232-0114 (5)	232-0115	K110
	72	1829	244-3889	2.36	60	253-4289 (1)	253-4290 (5) 256-3031 (1)	7	232-0116	232-0114 (5)	232-0115	K110
	36	914	244-3895	2.36	60	256-3027 (1)	256-3049 (5)	4	232-0116	232-0114 (2)	232-0115	K110
	42	1067	241-6719	2.36	60	256-3028 (1)	256-3050 (5)	4	232-0116	232-0114 (2)	232-0115	K110
Heavy Duty	48	1219	241-6720	2.36	60	253-0982 (1)	253-0983 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	54	1372	241-6721	2.36	60	253-0812 (1)	253-0813 (5)	5	232-0116	232-0114 (3)	232-0115	K110
	60	1524	241-6722	2.36	60	256-3029 (1)	256-3051 (5)	6	232-0116	232-0114 (4)	232-0115	K110
	66	1676	241-6723	2.36	60	256-3030 (1)	256-3052 (5)	7	232-0116	232-0114 (5)	232-0115	K110
	72	1829	244-3889	2.36	60	256-3031 (1)	256-3053 (5)	7	232-0116	232-0114 (5)	232-0115	K110
	30	762	241-6717	2.36	60	256-3026 (1)	256-3032 (5) 256-3041 (2)	3	232-0116	232-0114 (1)	232-0115	K110

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in) (mm)	BASE EDGE ASSY. ①	THICKNESS (in) (mm)	TRANSVERSE WEAR STRIP FRONT REAR	NUMBER OF TEETH	ADAPTERS (lh) (ctr) (rh)	TIP SIZE
TB Linkage (cont.)							
Heavy Duty Rock (cont.)	36	244-3895	2.36 60	256-3027 (1) 256-3033 (5)	4	232-0116 232-0114 (2)	232-0115 K110
	42	241-6719	2.36 60	256-3028 (1) 256-3042 (2)	4	232-0116 232-0114 (3)	232-0115 K110
	48	241-6720	2.36 60	253-0982 (1) 256-3043 (2)	5	232-0116 232-0114 (3)	232-0115 K110
	54	241-6721	2.36 60	253-0812 (1) 256-3037 (5)	5	232-0116 232-0114 (3)	232-0115 K110
	60	241-6722	2.36 60	256-3045 (2) 256-3038 (5)	6	232-0116 232-0114 (4)	232-0115 K110
	66	241-6723	2.36 60	256-3046 (2) 256-3039 (5)	7	232-0116 232-0114 (5)	232-0115 K110
Heavy Duty Power	72	244-3889	2.36 60	256-3047 (2) 256-3040 (5)	7	232-0116 232-0114 (5)	232-0115 K110
	48	253-9075	2.75 70	253-0982 (1) 253-0983 (5)	4	232-0132 232-0130 (2)	232-0131 K130
	54	253-9076	2.75 70	253-0812 (1) 253-0813 (5)	4	232-0132 232-0130 (2)	232-0131 K130
	60	253-9077	2.75 70	256-3029 (1) 256-3051 (5)	5	232-0132 232-0130 (2)	232-0131 K130
HB Linkage							
General Purpose	42	206-9133	2.75 70	206-9136 (1) 206-9140 (5)	3	159-0606 61-6604 (1)	159-0605 J600
	54	206-9134	2.75 70	206-9137 (1) 206-9141 (5)	4	159-0606 61-6604 (2)	159-0605 J600
	66	206-9135	2.75 70	206-9138 (1) 206-9142 (5)	4	159-0606 61-6604 (2)	159-0605 J600
	78	205-6045	2.75 70	206-9139 (1) 206-9143 (5)	5	159-0606 61-6604 (2)	159-0605 J600
Heavy Duty Rock	42	206-9133	2.75 70	206-9136 (1) 209-5686 (4)	3	159-0606 61-6604 (1)	159-0605 J600
	54	206-9134	2.75 70	206-9137 (1) 209-5687 (3)	4	159-0606 61-6604 (2)	159-0605 J600
	66	206-9135	2.75 70	206-9138 (1) 209-5681 (4)	4	159-0606 61-6604 (2)	159-0605 J600
	78	205-6045	2.75 70	206-9139 (1) 209-5682 (3)	5	159-0606 61-6604 (2)	159-0605 J600
JB Linkage							
General Purpose	89	228-7864	3.54 90	211-2769 211-2770 (4)	6	222-7700 (6)	J700
	94	228-7865	3.54 90	204-9023 213-0077 (4)	6	222-7700 (6)	J700

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH (in)	BUCKET WIDTH (mm)	BASE EDGE ASSY. ①	THICKNESS (in)	THICKNESS (mm)	TRANSVERSE WEAR STRIP FRONT	TRANSVERSE WEAR STRIP REAR	NUMBER OF TEETH	ADAPTERS (lh)	ADAPTERS (ctr)	ADAPTERS (rh)	TIP SIZE
JB Linkage (cont.)												
Heavy Duty Rock	89	2261	228-7864	3.54	90	211-2769	211-2770 (3)	6		222-7700 (6)		J700
	89	2261	226-2408	3.94	100	211-2769	211-2771 (3)	5		61-8804 (5)		J800
Spade Rock	89	2261	245-3869	3.54	90	211-2769	211-2770 (3)	5		222-7700 (5)		J700
	89	2261	227-4040	3.94	100	211-2769	211-2771 (3)	5		61-8804 (5)		J800
SC Linkage												
Heavy Duty	60	1524	127-2304	N/A	N/A	127-2302	127-2303 (4)	7	61-6406	61-6404 (5)	61-6405	J400
	66	1676	127-2316	N/A	N/A	127-2314	127-2315 (4)	7	61-6406	61-6404 (5)	61-6405	J400
Heavy Duty Rock	36	914	241-6726	1.75	44.45	241-6301	231-8068 (4)	4	220-9106	220-9104 (2)	220-9105	K100
	42	1067	241-6727	1.75	44.45	241-6302	231-8069 (3)	5	220-9106	220-9104 (3)	220-9105	K100
WB Linkage												
General Purpose	89	2261	174-5099	2.75	70	N/A	223-4139 (7)	5	61-6606	61-6604 (3)	61-6605	J600
Heavy Duty	79	2007	174-8631	2.75	70	N/A	223-4144 (7)	4	61-6606	61-6604 (2)	61-6605	J600
Spade Rock	79	2007	230-5255	4.72	120		223-4148 (7)	4		61-8604 (4)		J600
VB Linkage												
General Purpose	40	1016	223-2375	2.36	60	223-3920	227-9874 (5)	3	61-6556	61-6554	61-6555	J550
	60	1524	183-4096	2.36	60	169-2848	224-0002	5	61-6556	61-6554 (3)	61-6555	J550
Heavy Duty	75	1905	180-8267	2.36	60	180-8275	223-9812	6	61-6556	61-6554 (4)	61-6555	J550
	48	1219	183-4098	2.36	60	169-2845	180-8276 (6)	4	61-6556	61-6554	61-6555	J550
	66	1676	183-4097	2.36	60	169-2848	223-7816	5	61-6556	61-6554 (3)	61-6555	J550
	75	1905	180-8267	2.36	60	180-8275	169-2847 (5)	6	61-6556	61-6554 (4)	61-6555	J550
Heavy Duty Rock	40	1016	223-2375	2.36	60	223-3920	223-9812	3	61-6556	61-6554	61-6555	J550
	60	1524	183-4096	2.36	60	169-2848	175-4560 (6)	5	61-6556	61-6554 (3)	61-6555	J550

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

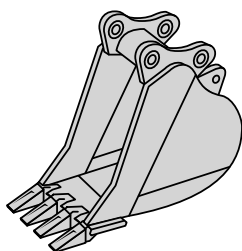
BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		TRANSVERSE WEAR STRIP		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)	FRONT	REAR		(lh)	(ctr)	(rh)	
VB Linkage (cont.)												
Heavy Duty Rock (cont.)	75	1905	180-8267	2.36	60	180-8275	175-4561 (6) 175-4562	6	6I-6556	6I-6554 (4)	6I-6555	J550
UB Linkage												
General Purpose	48	1219	253-9075	2.75	70	253-0982 (1)	253-0983 (5)	4	232-0132	232-0130 (2)	232-0131	K130
Heavy Duty	75	1905	265-3376	2.75	70	265-3406 (1)	265-3407 (5)	6	232-0132	232-0130 (2)	232-0131	K130
Heavy Duty Rock – Spade	75	1905	265-3400	2.75	70	265-3406 (1)	265-3410 (5) 265-3411 (2)	6		232-0130 (6)		K130
V Linkage												
General Purpose	36	920	175-4574	2.36	60	175-4575	175-4518 (6)	3	6I-6556	6I-6554	6I-6555	J550
	48	1230	183-4098	2.36	60	169-2845	175-4526 (6)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	54	1400	175-4534	2.36	60	175-4537	175-4538 (6)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	60	1545	183-4096	2.36	60	169-2848	169-2847 (6)	5	6I-6556	6I-6554 (3)	6I-6555	J550
	66	1690	183-4097	2.36	60	169-6234	175-4547 (6)	5	6I-6556	6I-6554(3)	6I-6555	J550
	75	1905	180-8267	2.36	60	180-8275	180-8276 (6)	6	6I-6556	6I-6554 (4)	6I-6555	J550
Heavy Duty	36	920	175-4514	2.36	60	175-4515	175-4519 (7)	3	6I-6556	6I-6554	6I-6555	J550
	48	1230	183-4098	2.36	60	169-2845	169-2844 (7)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	54	1400	175-4534	2.36	60	175-4537	175-4539 (7)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	60	1545	183-4096	2.36	60	169-2848	175-4543 (7)	5	6I-6556	6I-6554 (3)	6I-6555	J550
	66	1690	183-4097	2.36	60	169-6234	165-6236 (7)	5	6I-6556	6I-6554 (3)	6I-6555	J550
	75	1905	180-8267	2.36	60	180-8275	175-4560 (7)	6	6I-6556	6I-6554 (4)	6I-6555	J550
Heavy Duty Rock	36	920	175-4514	2.36	60	175-4515	175-4520 (6) 175-4521 (2)	3	6I-6556	6I-6554	6I-6555	J550
	48	1230	183-4098	2.36	60	169-2845	175-4527 (6) 175-4528 (2)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	54	1400	175-4534	2.36	60	175-4537	175-4540 (6) 175-4541 (2)	4	6I-6556	6I-6554 (2)	6I-6555	J550
	60	1545	183-4096	2.36	60	169-2848	175-4544 (6) 175-4545 (2)	5	6I-6556	6I-6554 (3)	6I-6555	J550
	66	1690	183-4097	2.36	60	169-6234	175-4548 (6) 175-4549 (2)	5	6I-6556	6I-6554 (3)	6I-6555	J550
	75	1905	180-8267	2.36	60	180-8275	175-4561 (6) 175-4562 (2)	6	6I-6556	6I-6554 (4)	6I-6555	J550
W Linkage												
Excavation	89	2250	174-5099	2.76	70	174-5102 (7)		5	6I-6606	6I-6604 (3)	6I-6605	J600
Extreme Excavation	79	2000	174-8631	2.76	70	174-8641 (7)		4	6I-6606	6I-6604 (2)	6I-6605	J600
Spade Rock	79	2000	174-8636	2.76	70	174-8644 (7)		4	6I-8606 (2)		6I-8605 (2)	J600

① Consists of base edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

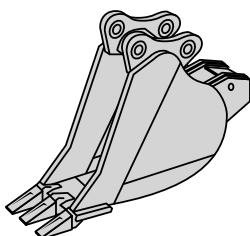
300-Family, A-Series; E-Family; and 200-Family Excavator Buckets

Caterpillar 300-Family, A-Series; E-Family; and 200-Family excavator buckets have high-strength base edges that are through-hardened for long wear life and breakage resistance.



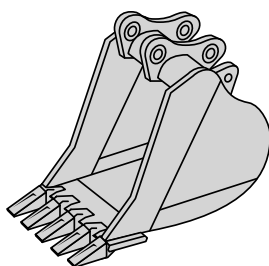
Trenching Bucket

- For use in trenching materials such as packed ground and tough clay.



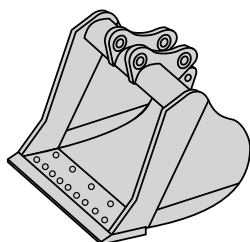
Extreme Service Trenching Bucket

- For use in tough trenching of materials such as sandstone, limestone, and caliche.



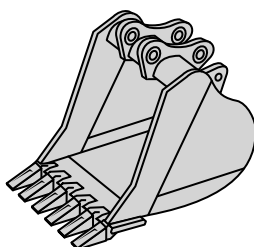
Excavation Bucket

- For use in excavation of packed ground and tough dry clay where a wide bucket is needed.



Light Excavation (Utility) Bucket

- For use in loose material and rehandling.

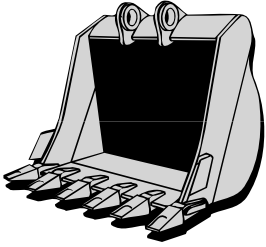


Extreme Service Excavation Bucket

- For use in tough excavation of materials such as sandstone, limestone, and caliche where up to 50% of the content is decomposed or fragmented.

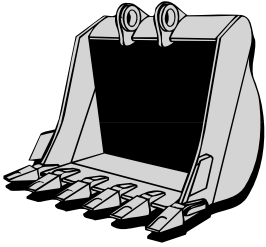
Ground Engaging Tools – Excavator Buckets

300-Family, A-Series; E-Family; and 200-Family Excavator Buckets



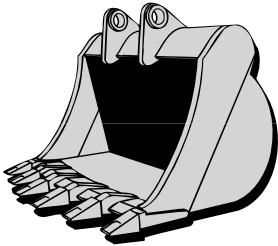
Mass Excavation Bucket

- For use in volume loading of materials such as packed ground and tough dry clay.



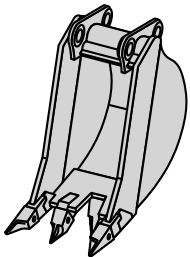
Extreme Service Mass Excavation Bucket

- For use in tough mass excavation of materials such as sandstone, limestone, and caliche.



Rock Mass Excavation Bucket

- For use in heavy duty mass excavation of materials such as shot rock.



Rock Ripping Bucket

- Allows for ripping-type digging action due to a stepped tooth design.
- For use where aggressive penetration is needed and where blasting is a problem.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY.①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
B Linkage										
Trenching	35	890	7Y-9133	1.42	36	5		8E-9490		J300
	39	1000	7Y-9111	1.42	36	5		8E-9490		J300
Extreme Service Trenching	24	625	104-2096	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
	30	775	104-2097	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
	42	1075	6I-5193	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
Excavation	44	1120				5		8E-9490		J300
	47	1200	4I-4014	1.42	36	6		8E-9490		J300
	49	1260	165-0834	1.42	36	6		8E-9490		J300
	54	1370	165-0865	1.42	36	6		8E-9490		J300
	54	1370	7I-6707	1.42	36	6		8E-9490		J300
	54	1370	129-5719	1.57	40	6		8E-9490		J300
Extreme Service Excavation	43	1092	9C-8019			5	6I-6356	6I-6354 (3)	6I-6355	J350
	44	1115	6I-5187			5	6I-6356	6I-6354 (3)	6I-6355	J350
C Linkage										
Trenching	31	800	6I-5208	1.57	40	4	6I-6356	6I-6354 (2)	6I-6355	J350
	36	925	132-8418	1.57	40	5	6I-6356	6I-6354	6I-6355	J350
	42	1075	6I-5193	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
	48	1225	104-3436	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
	48	1225	129-5714	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
	54	1375	6I-5248	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
Extreme Service Trenching	30	775	105-2761	1.75	44	3	6I-6406	6I-6404	6I-6405	J400
	32	823	6I-5205	1.75	44	3	6I-6406	6I-6404	6I-6405	J400
	37	948	6I-5281	1.75	44	4	6I-6406	6I-6404 (2)	6I-6405	J350
	42	1075	126-3718	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
Excavation	53	1355	6I-5198	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
	54	1370	6I-5248	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
Light Excavation (Utility)	68	1730	135-3167	1.26	32					
Extreme Service Excavation	47	1200	127-2289	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
Mass Excavation	57	1440	113-5930	1.57	40	7	6I-6356	6I-6354 (5)	6I-6355	J350
	59	1500	127-2304	1.75	44	7	6I-6356	6I-6354 (5)	6I-6355	J350
Extreme Service Mass Excavation	54	1378	6I-5201	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
D Linkage										
Trenching	42	1075	104-5747	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
	48	1255	104-5748	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
	54	1375	117-8975	1.97	50	5	159-0466	159-0464 (3)	159-0465	J400
Extreme Service Trenching	30	775	105-2532	1.97	50	3	159-0466	159-0464	159-0465	J460
	36	915	105-2533	1.97	50	3	159-0466	159-0464	159-0465	J460
Excavation	56	1430	133-2321	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
	59	1500	6I-5223	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
Light Excavation (Utility)	71	1800	135-3164	1.77	45					
Extreme Service Excavation	48	1300	123-3220	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460
	55	1400	117-8975	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460
Mass Excavation	60	1520	6I-5224	1.75	44	6	6I-6406	6I-6404 (4)	6I-6405	J400

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
E Linkage										
Excavation	63	1600	6I-5240	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460
	63	1600	109-8486	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
	68	1735	137-4110	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
Extreme Service Excavation	59	1504	6I-5246	2.36	60	4	6I-6556	6I-6554 (2)	6I-6555	J550
Mass Excavation	68	1735	6I-5241	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
Extreme Service Mass Excavation	64	1634	6I-5247	2.36	60	4	6I-6556	6I-6554 (2)	6I-6555	J550
F Linkage										
Trenching	48	1225	123-4101	2.36	60	4	6I-6556	6I-6554 (2)	6I-655	J550
	54	1375	105-3580	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460
	60	1525	122-9463	2.36	60	5	6I-6556	6I-6554 (3)	6I-6555	J550
Extreme Service Trenching	36	925	137-4105	1.97	50	3	159-0466	159-0464	159-0465	J460
	42	1075	105-3622	2.36	60	3	6I-6556	6I-6554	6I-6555	J550
	48	1225	123-4101	2.36	60	4	6I-6556	6I-6554 (2)	6I-6555	J550
	60	1525	122-9463	2.36	60	5	6I-6556	6I-6554 (3)	6I-6555	J550
Excavation	63	1590	109-8486	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
	68	1735	137-4110	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
G Linkage										
Mass Excavation	75	1895	138-2395	2.36	60	6	6I-6556	6I-6554 (4)	6I-6555	J550
V-Type Excavation	74	1880	109-8492	2.36	60	4	105-6269 (2)		105-6270 (2)	J550
H Linkage										
Trenching	54	1380	107-9890	2.36	60	4	6I-6556	6I-6554 (2)	6I-6555	J550
	60	1560	100-5714	2.36	60	5	6I-6556	6I-6554 (3)	6I-6555	J550
	78	1990	108-7065	2.36	60	6	6I-6556	6I-6554 (4)	6I-6555	J550
Extreme Service Trenching	42	1075	100-6197	2.36	60	3	6I-6606	6I-6604	6I-6605	J600
	48	1225	100-6196	2.36	60	3	6I-6606	6I-6604	6I-6605	J600
Excavation	71	1800	6I-5249	2.36	60	5	6I-6556	6I-6554 (3)	6I-6555	J550
	78	1990	108-1065	2.36	60	6	6I-6556	6I-6554 (4)	6I-6555	J550
J Linkage										
Trenching	60	1535	135-3715	3.15	80	5	113-9606	113-9604 (3)	113-9605	J600
Excavation	87	2210	107-9840	2.76	70	5	6I-6606	6I-6604 (3)	6I-6605	J600
Mass Excavation	82	2105	133-8868	3.15	80	6	113-9606	113-9604 (4)	113-9605	J600
	94	2390	119-3173	3.15	80	7	113-9606	113-9604 (5)	113-9605	J600
V-Type Excavation	81	2080	107-9842	2.76	70	6	6I-8606 (3)		6I-8605 (3)	J600
V-Type Mass Excavation	88	2260	126-9029	3.15	80	6	132-4706 (3)		132-4705 (3)	J700
S Linkage										
Trenching	36	925	127-2282	1.75	44	4	6I-6406	6I-6404 (2)	6I-6405	J400
	42	1075	126-3718	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
	48	1225	127-2289	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
Extreme Service Trenching	30	775	105-2761	1.75	44	3	6I-6406	6I-6404	6I-6405	J400
Excavation	57	1440	127-2296	1.75	44	6	6I-6406	6I-6404 (4)	6I-6405	J350
307										
General Purpose	13	330	231-2988	0.87	22	3		(3)6Y-3224		J225
	18	457	158-3958	0.87	22	3		(3)153-1552		J225
	20	508	110-9979 ① (N/S)	0.87	22	3		6Y-3224		J225

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

(N/S) – Non serviceable

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
307 (cont.)										
General Purpose (cont.)	24	610	110-9983 ① (N/S)	0.87	22	4		6Y-3224		J225
	24	634	153-1558	0.87	22	4		153-1552 (4)		J225
	28	711	111-0038 ① (N/S)	0.87	22	4		6Y-3224		J225
	30	762	153-1583	0.87	22	5		153-1552 (5)		J225
	31	787	106-6858 ① (N/S)	0.87	22	4		6Y-3224		J225
	36	914	153-1585	0.87	22	6		153-1552 (6)		J225
Heavy Duty Rock	24	610	241-0283	1.25	32	4		119-3253 (4)		J250
	30	762	241-0282	1.25	32	5		119-3253 (5)		J250
311, 312										
General Purpose	18	457	226-1311	1.25	32	3		119-3253 (3)		J250
	24	610	229-7650	1.25	32	4		119-3253 (4)		J250
	24	610	086-0811 ①	1.26	32	3		119-3253		J250
	28	711	086-0812 ①	1.26	32	4		119-3253		J250
	30	762	193-4786	1.25	32	4		119-3253 (4)		J250
	30	762	229-7653	1.25	32	5		119-3253 (5)		J250
	35	889	086-0809 ①	1.26	32	5		119-3253		J250
	36	914	085-9510 ①	1.26	32	5		119-3253		J250
	36	914	190-3332	1.25	32	5		119-3253 (5)		J250
	36	914	229-7656	1.25	32	6		119-3253 (6)		J250
	39	991	086-0813 ①	1.26	32	5		119-3253		J250
	42	1067	229-7659	1.25	32	7		119-3253 (7)		J250
	43	1092	086-0814 ①	1.26	32	5		119-3253		J250
	48	1219	229-7662	1.25	32	7		119-3253 (7)		J250
Heavy Duty Rock	24	610	229-7683	1.42	36	3		8E-9490 (3)		J300
	30	762	229-7690	1.42	36	4		8E-9490 (4)		J300
	36	914	229-7568	1.42	36	5		8E-9490 (5)		J300
	42	1067	229-7628	1.42	36	5		8E-9490 (5)		J300
315										
General Purpose	24	610	177-8300	1.42	36	3		8E-9490 (3)		J300
	24	610	115-2891	1.42	36	3		8E-9490		J300
	24	610	239-2810	1.42	36	3	220-9086	220-9084	220-9085	K80
	30	762	115-2901	1.42	36	4		8E-9490		J300
	30	762	177-8306	1.42	36	4		8E-9490 (4)		J300
	30	762	239-2774	1.42	36	4	220-9086	220-9084 (2)	220-9085	K80
	36	914	115-2767	1.42	36	5		8E-9490		J300
	36	914	177-8312	1.42	36	5		8E-9490 (5)		J300
	36	914	239-2619	1.42	36	5	220-9086	220-9084 (3)	220-9085	K80
	42	1067	117-5377	1.42	36	6		8E-9490		J300
	42	1067	177-8318	1.42	36	5		8E-9490 (5)		J300
	42	1067	239-2764	1.42	36	5	220-9086	220-9084 (3)	220-9085	K80
	48	1219	117-5386	1.42	36	6		8E-9490		J300
	48	1219	177-8324	1.42	36	6		8E-9490 (6)		J300
	48	1219	239-2784	1.42	36	6	220-9086	220-9084 (4)	220-9085	K80

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

(N/S) – Non serviceable

Ground Engaging Tools – Excavator Buckets

BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
	(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
315 (cont.)										
Heavy Duty Rock	24	610	177-8210	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
	24	610	239-2819	1.57	40	3	220-9096	220-9094	220-9095	K90
	30	762	177-8223	1.57	40	4	6I-6356	6I-6354 (2)	6I-6355	J350
	30	762	239-2818	1.57	40	4	220-9096	220-9094 (2)	220-9095	K90
	36	914	177-8236	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
	36	914	239-2716	1.57	40	5	220-9096	220-9094 (3)	220-9095	K90
	42	1067	177-8197	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
	42	1067	239-2792	1.57	40	5	220-9096	220-9094 (3)	220-9095	K90
	48	1219	177-8249	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
	48	1219	239-2801	1.57	40	6	220-9096	220-9094 (4)	220-9095	K90
318										
Heavy Duty	24	610	239-2676	1.57	40	3	220-9096	220-9094	220-9095	K90
	24	610	104-2096	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
	30	762	104-2097	1.57	40	4	6I-6356	6I-6354 (2)	6I-6355	J350
	30	762	239-2634	1.57	40	4	220-9096	220-9094 (2)	220-9095	K90
	36	914	127-8633	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
	36	914	239-2545	1.57	40	5	220-9096	220-9094 (3)	220-9095	K90
	42	1067	137-9526	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
	42	1067	239-2642	1.57	40	5	220-9096	220-9094 (3)	220-9095	K90
	48	1219	188-2217	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
	48	1219	239-2650	1.57	40	6	220-9096	220-9094 (4)	220-9095	K90

① Consists of base edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ^①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
		(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
205, 206, 211, 212, 213, 214	Ditch Cleaning	79	2000	5W-7957 ^②	0.98	25					
		91	2300	8U-2639 ^②	0.79	20					
		94	2400	5W-7958 ^②	0.98	25					
	Ejector	11	280	5W-7960	1.57	40	2		3G-0169		J250
		15	380	5W-7961	1.57	40	2		3G-0169		J250
	Rock								9J-8929		J300
									1U-1254		J250
		20	510	5W-7935	1.57	40	3		3G-0169		J250
		24	610	5W-7937	1.57	40	3		3G-0169		J250
		24	610	5W-7938	1.75	44	3		1U-1350		J250
		28	710	5W-7939	1.57	40	4		3G-0169		J250
		28	710	5W-7940	1.75	44	4		1U-1350		J350
		32	810	5W-7941	1.57	40	4		3G-0169		J250
		32	810	5W-7942	1.75	44	4		1U-1350		J350
		36	910	5W-7943	1.57	40	5		3G-0169		J250
		36	910	5W-7944	1.75	44	5		1U-1350		J350
		40	1010	5W-7945	1.57	40	5		3G-0169		J250
		40	1010	5W-7946	1.75	44	5		1U-1350		J350
213B, 214B	General Purpose	44	1110	5W-7947	1.57	40	5		3G-0169		J225
		44	1110	5W-7948	1.75	44	5		1U-1350		J350
		48	1210	5W-7950	1.57	40	5		3G-0169		J250
		48	1210	5W-7949	1.75	44	5		1U-1350		J350
		52	1310	5W-7951	1.57	40	6		3G-0169		J250
		56	1410	5W-7952	1.57	40	6		3G-0169		J250
									9J-8929		J300
		30	760	8U-0955							
		40	1010	8U-0957 ^②							
									1U-1350		J350
215D, 219D	Rock										
	Trenching	24	610	9C-7381	1.26	32	3	7T-3306	9W-1304	7T-3305	J300
		30	760	9C-4307	1.26	32	4	7T-3306	9W-1304 (2)	7T-3305	J300
	Extreme Service Trenching Excavation	42	1070	9C-8019	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
		42	1070	100-4139	1.42	36	5		8E-9490 (5)	7T-3305	J300
		48	1210	9C-7287	1.26	32	6	7T-3306	9W-1304 (4)	7T-3305	J300
		54	1370	9C-7315	1.26	32	6	7T-3306	9W-1304 (4)	7T-3305	J300

① Consists of base edge and adapters.

② Base Edge only.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
		(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
224	Ditch Cleaning	79	2000	5W-7957 ②	0.98	25					
		94	2400	5W-7959 ②	0.98	25					
	Rock	30	760	5W-7929 ②	1.75	44	3		1U-1350		J350
		34	860	5W-7930 ②	1.75	44					
		40	1010	5W-7931 ②	1.75	44	4		1U-1350		J350
		48	1210	5W-7933 ②	1.75	44					
		52	1310	5W-7934 ②	1.75	44					
		24	610	5W-7938 ②	1.75	44	3		9J-8929		J300
		28	710	5W-7940 ②	1.75	44	3		9J-8929		J300
		32	810	5W-7942 ②	1.75	44	4		9J-8929		J300
		36	910	5W-7944 ②	1.75	44	4		9J-8929		J300
225D, 229	Trenching	40	1010	5W-7946 ②	1.75	44	4		9J-8929		J300
		44	1110	5W-7948 ②	1.75	44	5		9J-8929		J300
		48	1210	5W-7949 ②	1.75	44	5		9J-8929		J300
		56	1410	5W-7953 ②	1.75	44	6		9J-8929		J350
		24	610	104-2096	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
		30	760	104-2097	1.57	40	4	6I-6356	6I-6354 (2)	6I-6355	J350
	Excavation	36	915	132-8418	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
		42	1070	6I-5193	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
		48	1220	104-3436	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
		54	1370	6I-5248	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
231D	Excavation	60	1525	108-3569	1.57	40	7	6I-6356	6I-6354 (5)	6I-6355	J350
		47	1194	109-8554	1.57	40	5	6I-6406	6I-6404 (3)	6I-6405	J400
		53	1346	7Y-7567	1.57	40	5	6I-6406	6I-6404 (3)	6I-6405	J400
		55	1397	9C-2930	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
		56	1410	109-8555	1.75	44	5	6I-6406	6I-6404 (3)	6I-6405	J400
		61	1549	108-3569	1.97	50	7	6I-6356	6I-6354 (5)	6I-6355	J350
	Light Material	93	2350	4V-5751	2.36	60	6	8E-4466 (3)		8E-4465 (3)	J460
		82	2080	6W-3658	1.26	32	6		1U-1304		J300
		84	2135	6W-1362	2.36	60	6	8E-4466 (3)		8E-4465 (3)	J460
		30	760	105-2532	1.97	50	3	159-0466	159-0464	159-0465	J460
235 Front Shovel	Trenching	36	910	9C-4310	1.97	50	4	159-0466	159-0464 (2)	159-0465	J460
		42	1070	9C-4311	1.97	50	4	159-0466	159-0464 (2)	159-0465	J460
		48	1220	105-3569	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460

① Consists of base edge and adapters.

② Base Edge only.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ^①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
		(in)	(mm)		(in)	(mm)		(In)	(ctr)	(rh)	
235 (cont.)	Excavation	54	1370	9C-3890	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460
		66	1675	9C-3954	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
		71	1800	9U-4423	1.97	50	6	159-0466	159-0464 (4)	159-0465	J460
	Light Excavation (Utility)	69	1750	9C-5770 ^②	1.57	40					
245	Extreme Service Excavation	34	861	9C-8653	1.97	50	3	159-0466	159-0464	159-0465	J460
	Rock	51	1300	5V-5081	2.50	64	4		3G-9494 (2)		J550
	Trenching	42	1080	8R-0343	1.57	40	4	6I-6556	6I-6554 (2)	6I-6555	J550
	Excavation	48	1230	8R-0783	1.57	40	4	6I-6556	6I-6554 (2)	6I-6555	J550
		54	1385	8R-0794	1.57	40	5	6I-6556	6I-6554 (3)	6I-6555	J550
		68	1740	8R-0981**	1.57	40	5	6I-6556	6I-6554 (3)	6I-6555	J550
		75	1900		1.57	40	6	6I-6556	6I-6554 (4)	6I-6555	J550
		81	2057	8R-0992	1.57	40	6	6I-6556	6I-6554 (4)	6I-6555	J550
		93	2350	104-7490	2.76	70	6	3G-9496 (3)		3G-9495 (3)	J460
	Light Material	82	2080	9V-5067	1.77	45	6		1U-1354		J350
245 Mass Excavation Hoe	Rock	84	2135	103-4715	2.76	70	6	6I-2606 (3)		6I-8605 (3)	J550
									6Y-3224		J225
									119-3253		J250
E110B, E120B	Trenching	24	625	9C-7381	1.26	32	3	7T-3306	9W-1304	7T-3305	J300
	Excavation	30	775	9C-4307	1.26	32	4	7T-3306	9W-1304 (2)	7T-3305	J300
		42	1075	100-4149	1.42	36	5		8E-9490 (5)	7T-3305	J300
		48	1225	9C-7287	1.26	32	6	7T-3306	9W-1304 (4)	7T-3305	J300
E240, E240B, EL240B	Extreme Service Excavation	54	1375	9C-7315	1.26	32	6	7T-3306	9W-1304 (4)	7T-3305	J300
		42	1075	9C-8019	1.57	40	5	6I-6356	6I-6354 (3)	6I-6355	J350
		30	775	105-2761	1.75	44	3	6I-6406	6I-6404	6I-6405	J400
		36	925	6I-5280	1.57	40	5	6I-6356	6I-6354	6I-6355	J350
	Trenching	42	1075	6I-5193	1.57	40	5	6I-6356	6I-6354	6I-6355	J350
		48	1227	104-3436	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
		54	1377	9C-2930	1.57	40	6	6I-6356	6I-6354 (4)	6I-6355	J350
		66	1675	8R-2662 ^②	1.26	32					
	Light Excavation (Utility)	60	1525	108-3569	1.57	40	7	6I-6356	6I-6354 (5)	6I-6355	J350
	Extreme Service Excavation	24	610	104-2096	1.57	40	3	6I-6356	6I-6354	6I-6355	J350
E300	Trenching	36	925	105-2533	1.97	50	3	159-0466	159-0464	159-0465	J460
	Excavation	42	1075	104-5747	1.97	50	5	159-0466	159-0464	159-0465	J460
		51	1300	9C-4312	1.97	50	5	159-0466	159-0464 (3)	159-0465	J460

① Consists of base edge and adapters.

② Base Edge only.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Buckets

MODEL	BUCKET TYPE	BUCKET WIDTH		BASE EDGE ASSY. ^①	THICKNESS		NUMBER OF TEETH	ADAPTERS			TIP SIZE
		(in)	(mm)		(in)	(mm)		(lh)	(ctr)	(rh)	
E300B, EL300B	Trenching	30	760	4E-8636	1.75	44	3	6I-6406	6I-6404	6I-6405	J460
	Extreme Service Trenching	33	835	105-2532	1.97	50	3	159-0466	159-0464	159-0465	J460
		42	1070	9C-3763	1.97	50	4	159-0466	159-0464 (2)	159-0465	J460

① Consists of base edge and adapters.

② Base Edge only.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Excavator Tips – J Series

Tips

Cat excavator bucket tips are side pinned for excellent tip retention and quick, easy tip changing. The pin hole is located through the tip sides which are the areas of least wear.



Penetration Long Life Tip

- Increases wear life.
- Enhances penetration due to self-sharpening tip.
- Includes ARM strips.



Long Tip

- General duty in low-abrasion applications.



Short Tip

- Provides more strength.
- Use to prevent breakage.



Utility Tip (J200 only)

- For use in lighter duty applications.



Wide Tip

- Provides less penetration.
- Provides a cleaner floor and less spillage.



Penetration Tip

- Provides better penetration.
- Contains less wear material.

Ground Engaging Tools – Excavator Tips – J Series



Penetration Plus Tip

- Provides a good combination of strength and wear life.
- For use where penetration and increased wear life are desired.
- For use in most jobs.



Sharp Corner Tip/Sharp Center Tip

- Provides the best penetration.
- Contains the least wear material.



Twin Sharp Tip

- For use for severe digging in rock and frost.
- Use in combination with sharp tips.



Long Sharp Tip

- Provides more wear material than standard sharp tip.
- For use when penetration is the primary concern.



Heavy Duty Long Life Tip

- Contains ARM which is positioned to increase wear life and penetration.
- Not for use in extreme impact applications.



Heavy Duty Long Tip

- Provides more wear material and greater strength than long tip.
- Has a streamlined-profile for better penetration.



Heavy Duty Abrasion Tip

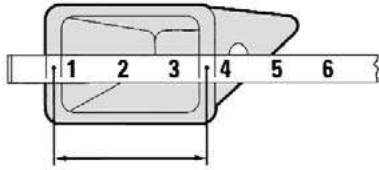
- Contains greater wear material.
- Not for use in high impact applications.



Light Duty Long Tip

- For use in low impact with low to medium abrasiveness.
- Self-sharpening design and symmetrical shape.

Ground Engaging Tools – Excavator Tips – J Series



J Family Identification

To identify the tip or adapter family, place a tape measure across the back of the tip at the midpoint of the side walls. For example:

3.0" (76.20 mm) measurement = J300 Family

3.5" (88.90 mm) measurement = J350 Family

5.5" (139.70 mm) measurement = J550 Family

In addition, the second and third to last locations in the part number often times refer to the J size.

Example: 9W-8551 = J550 Family

Tip Chart

	J200	J225	J250	J300	J350	J400	J450/J460	J550	J600	J700	J800
Long	1U-3202	6Y-3222	1U-3252	1U-3302	1U-3352	7T-3402	9W-8452	9W-8552	6I-6602	4T-4702	6I-8802
Short		6Y-6221	1U-3251	1U-3301	1U-3351	7T-3401	9W-8451	9W-8551	6I-6601		
Utility	195-9209										
Light Duty Long	195-9209		168-1253	168-1301	168-1351	168-1401	168-1451				
Wide	109-9200	186-3010	208-5254	107-3300	107-3350	107-3400	107-3450	107-3550			
Penetration	1U-3209	6Y-8229	9J-4259	9J-4309	9J-4359	6Y-7409	9W-8459	9W-8559	7I-7609	4T-4709	117-6809
Penetration Long Life				125-8309	119-9359	124-7409	116-7459	113-0559	119-9609		
Penetration Plus				183-5300	168-1359	168-1409	159-0459	159-0559	159-0607	171-1709	
Sharp Corner	9W-8208	6Y-7228	9W-8258	9W-8308	9W-2358	6Y-5408	6I-8458	6I-8558	107-8608		
Sharp Center	9W-8209	6Y-7229	9W-8259	9W-8309	9W-2359	6Y-5409	7T-8459	9W-6559	107-8609		
Twin Sharp	135-8208	135-8228	135-8258	135-9308	135-9357	135-9408	138-6458	138-6558	135-9608		
Long Sharp				168-1300	168-1350	159-0400	159-0450	159-0550	159-0600	136-8700	
Heavy Duty Long		8E-4222	9N-4252	9N-4302	9N-4352	8E-4402	9N-4452	9N-4552	7Y-0602	9U-9702	
Heavy Duty Long Life			135-8252	125-8302	135-9352	116-7402	101-9054	101-9055	107-8602	107-2001	117-6802
Heavy Duty Abrasion		6Y-6223	9N-4253	9N-4303	9N-4353	7T-3403	9N-4453	6Y-2553	6I-6603	9U-9703	6I-8803
Heavy Duty Penetration				135-9300	144-1358	135-9400	138-6451	138-6552	135-9600	135-9700	135-9800
Standard Pin	8E-6208										
Standard Retainer	8E-6209										
Heavy Duty Pin		132-4762	132-4763	132-4766	114-0358	116-7408	114-0468*	107-3378	113-9608	113-4708	134-1808
Heavy Duty Retainer Assembly		149-5733	149-5733	149-5733	114-0359	116-7409	107-3469*	107-8559	113-9609	113-4709	134-1809

*Some older models have a 0.75" (19 mm) pin diameter, instead of the current 0.875" (22 mm) pin diameter. For those older models which have the 0.75" (19 mm) pin diameter, use a 6Y-2527 pin and a 8E-6359 retainer.

Ground Engaging Tools – Excavator Tips – K Series™

K Series™ Tips

Cat K Series excavator bucket tips use a new vertical retention system that allows quick and easy tip changes. Providing a new locking interface at every tip change to improve retention reliability. Lower profile improves penetration and wear life.



General Duty Tip

- General excavation and loading in moderate impact/abrasion.
- Moderate penetration.
- Symmetric, top and bottom self-sharpening cavities.



Extra Duty Tip

- General excavation and loading w/more wear material.
- Moderate impact, moderate penetration.
- Top self-sharpening cavity.



Penetration Tip

- For harder-to-penetrate, moderate impact, lower abrasion.
- Very good penetration.
- Top rib, bottom cavity to stay sharp.



Penetration Plus Tip

- High impact trenching, excavation and loading.
- Good penetration, stays sharp.
- Symmetric, ribbed top and bottom.



Spike Tip

- For maximum penetration, especially in cohesive material.
- Stays sharp for enhanced wear life.
- Top and bottom rib design.



Double Spike Tip

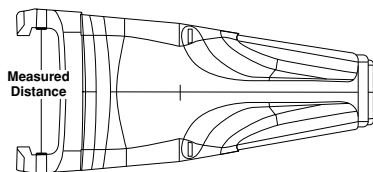
- For harder-to-penetrate, fracturable materials.
- Very good penetration, stays sharp.
- Use in corner positions with Spike Centers.
- Length matches spike.



Wide Tip

- For easy-to-penetrate trenching applications.
- Low impact.
- Smooth floor trenches.

Ground Engaging Tools – Excavator Tips – K Series™



K Family Identification

To identify tip or adapter family simply measure the distance between the “ears” of the tip in millimeters and round to the nearest 5 mm.

Ex: 3.15" (80 mm) = K80

3.44" (87.4 mm) = K90

3.78" (96.1 mm) = K100

Tip Chart

	K80	K90	K100	K110	K130	K150	K170
General Duty	220-9089	220-9099	220-9109	220-9119	220-9139	229-7159	232-0179
Extra Duty	220-9081	220-9091	220-9101	220-9111	220-9131	229-7151	232-0171
Penetration	220-9082	220-9092	220-9102	220-9112	220-9132	229-7152	232-0172
Penetration Plus	220-9083	220-9093	220-9103	220-9113	220-9133	229-7153	232-0173
Spike	220-9087	220-9097	220-9107	220-9117	220-9137	229-7157	232-0177
Double Spike	220-9088	220-9098	220-9108	220-9118	220-9138	229-7158	232-0178
Wide	222-1080	222-1090	223-8100	223-8110	223-8130	195-5151	223-8170
Retainer	220-9090	220-9090	220-9090	220-9110	220-9130	233-7150	232-0170

Ground Engaging Tools – Excavator Tips – K Series™

Cat K Series™ Base Edge Assemblies for Upgrades/Conversions

BASE EDGE ASSY.	THICKNESS (mm)	BEVEL ANGLE (Degrees)	ADAPTERS			TIP SIZE
			(lh)	(ctr)	(rh)	
232-0022	36	22.5		220-9084 (1)		K80
232-0023	36	22.5		220-9084 (2)		K80
232-0024	36	22.5		220-9084 (3)		K80
232-0025	36	22.5		220-9084 (3)		K80
232-0026	36	22.5		220-9084 (4)		K80
253-0132	36	22.5		220-9084 (2)		K80
252-1213	36	22.5	220-9086	220-9084 (2)	220-9085	K80
251-8663	36	22.5	220-9086	220-9084 (2)	220-9085	K80
251-8666	36	22.5	220-9086	220-9084 (2)	220-9085	K80
251-8671	36	22.5	220-9086	220-9084 (3)	220-9085	K80
232-0027	40	22.5		220-9094 (1)		K90
232-0028	40	22.5		220-9094 (2)		K90
232-0029	40	22.5		220-9094 (3)		K90
232-0030	40	22.5		220-9094 (3)		K90
232-0031	40	22.5		220-9094 (4)		K90
232-0032	40	22.5		220-9094 (5)		K90
238-3199	40	22.5		220-9094 (3)		K90
232-0033	45	22.5		220-9104 (1)		K100
232-0034	45	22.5		220-9104 (2)		K100
232-0035	45	22.5		220-9104 (3)		K100
232-0036	45	22.5		220-9104 (4)		K100
232-0037	45	22.5		220-9104 (5)		K100
232-0038	45	22.5		220-9104 (5)		K100
232-0039	45	22.5		220-9104 (3)		K100
250-9679	45	22.5	220-9106	220-9104 (2)	220-9105	K100
250-9681	45	22.5	220-9106	220-9104 (3)	220-9105	K100
250-9682	45	22.5	220-9106	220-9104 (3)	220-9105	K100
253-0103	60	22.5		232-0114 (1)		K110
253-0104	60	22.5		232-0114 (1)		K110
253-0105	60	22.5		232-0114 (2)		K110
253-0106	60	22.5		232-0114 (3)		K110
257-1771	60	22.5		232-0114 (3)		K110
253-0107	60	22.5		232-0114 (3)		K110
253-0108	60	22.5		232-0114 (3)		K110
253-0109	60	22.5		232-0114 (4)		K110
253-0110	60	22.5		232-0114 (4)		K110
253-0111	60	22.5		232-0114 (4)		K110
253-0112	60	22.5		232-0114 (3)		K110
253-0113	60	22.5		232-0114 (4)		K110
253-0114	60	22.5		232-0114 (4)		K110
253-0115	60	22.5		232-0114 (4)		K110
253-0116	60	22.5		232-0114 (5)		K110

Ground Engaging Tools – Excavator Tips – K Series™

Cat K Series™ Base Edge Assemblies for Upgrades/Conversions (continued)

BASE EDGE ASSY.	THICKNESS (mm)	BEVEL ANGLE (Degrees)	ADAPTERS			TIP SIZE
			(lh)	(ctr)	(rh)	
253-0117	60	22.5		232-0114 (5)		K110
253-0126	70	22.5		232-0130 (1)		K130
253-0127	70	22.5		232-0130 (2)		K130
253-0128	70	22.5		232-0130 (3)		K130
257-1752	70	22.5		232-0130 (3)		K130
257-1753	70	22.5		232-0130 (4)		K130
257-1755	70	22.5		232-0130 (4)		K130
264-2027	80	22.5		195-9154 (3)		K150
264-2035	80	22.5		195-9154 (2)		K150
264-2031	80	22.5		195-9154 (4)		K150
264-2043	80	22.5		195-9154 (4)		K150
264-2039	80	22.5		195-9154 (3)		K150
264-2033	80	22.5		195-9154 (5)		K150
264-2029	80	22.5		195-9154 (3)		K150
264-2037	80	22.5		195-9154 (2)		K150
264-2041	80	22.5		195-9154 (3)		K150
264-2045	80	22.5		195-9154 (4)		K150
264-2051	90	35		232-2170 (4)		K170
264-2047	90	35		232-2170 (3)		K170
264-2049	90	35		232-2170 (3)		K170

Ground Engaging Tools – Excavator Sidecutters

Sidecutters

- Increases bucket width and capacity.
- Protects bucket sides.
- Improves sidebar penetration.



Blade Type 1 Sidecutter

- For use in most conditions.



One Piece Sidecutter

- For use in most soil conditions.
- Widens bite width.
- Provides good protection to bucket sides.



Heavy Duty Sidecutter

- For use in tough digging conditions.
- Contains more wear material and covers more of the sidebar for enhanced protection.



Combination Blade Sidecutter

- For use in light to moderate conditions.



Tooth Type Sidecutter

- For use in tough conditions.
- Uses the same tips as the cutting edge.



Strike-Off Sidecutter

- For use in all conditions.
- Does not add width to bucket.

Ground Engaging Tools – Excavator Sidecutters

Sidecutters

TYPE	PART NUMBER (lh) (rh)		BOLT	NUT	WASHER	TIP	PIN	RETAINER
Old B Linkage, 315								
One Piece	096-4747	096-4748	8T-0664 (8)	7X-0851 (8)				
New B Linkage, C Linkage, D Linkage, S Linkage								
One Piece	7Y-0358	7Y-0357	6I-6371 (6)	2J-3507 (6)				
Strike-Off	174-8044	174-8043		2J-3507 (6)				
— Bolt	1J-6762 (4)	6I-6371 (4)						
Blade Type 1	8J-9614	8J-9615	6I-6371	2J-3507				
Heavy Duty	232-2148	232-2147	1D-4635 (8)	2J-3507 (8)	3K-5234 (8)			
Combination	8J-9614	8J-9615						
— Blade		4T-2886 (2)						
— Bolt	1J-6762 (8)	6I-6371 (6)						
— Nut	2J-3506 (8)	2J-3507 (6)						
Tooth	8J-4952	8J-4951	4F-4042 (6)	2J-3507 (6)		1U-3352 (2)		
E Linkage								
Strike-Off		8J-5188 (2)	1D-4637 (4)	2J-3507 (4)	5P-8250 (1)			
Blade Type 1	8J-9826	8J-9825	8H-5772 (1)	2J-3507 (1)	5P-8250 (1)			
Heavy Duty	256-8691	256-8690	1D-4637 (10)	2J-3507 (10)	3K-5234 (12)			
Combination	8J-9826	8J-9825			5P-8250 (1)			
— Blade		4T-6664 (2)						
— Bolt		8H-5772						
— Nut		2J-3507						
Tooth	8J-4948	8J-4947	8H-5772 (1)	2J-3507 (1)	5P-8250 (1)	9W-8552 (2)		
F Linkage, G Linkage								
Strike-Off	8J-5188	8J-5188	7Y-1136 (1)	2J-3507 (1)	3K-5234 (1)			
Blade Type 1	8J-9826	8J-9825	7Y-1136 (1)	2J-3507 (1)	3K-5234 (1)			
Heavy Duty	256-8691	256-8690	1D-4637 (10)	2J-3507 (10)	3K-5234 (10)			
Combination	8J-9826	8J-9825			3K-5234 (1)			
— Blade		4T-6664 (2)						
— Bolt	4J-9208	7Y-1136						
— Nut		2J-3507						
Tooth	8J-4948	8J-4947	7Y-1136 (1)	2J-3507 (1)	3K-5234 (1)	9W-8552 (2)	6Y-8558 (2)	8E-5559 (2)
H Linkage, J Linkage, HB Linkage, JB Linkage								
Strike-Off		8J-5188 (2)	1D-4637 (4)	2J-3507 (4)	5P-8250 (1)			
Blade Type 1	8J-9826	8J-9825	8H-5772 (1)	2J-3507 (1)	5P-8250 (1)			
Heavy Duty	238-3170	238-3169	9X-8896 (12)	2J-3507 (12)	3K-5234 (12)			
Combination	8J-9826	8J-9825			5P-8250 (1)	9W-8552 (2)		
— Blade		4T-6664 (2)						
— Bolt		8H-5772						
— Nut		2J-3507						
Tooth	8J-4948	8J-4947	8H-5772 (1)	2J-3507 (1)	5P-8250 (1)	9W-8552 (2)		

Ground Engaging Tools – Excavator Sidecutters

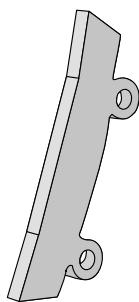
Sidecutters

TYPE	PART NUMBER (lh) (rh)		BOLT	NUT	WASHER	TIP	PIN	RETAINER
V Linkage, VB Linkage								
Heavy Duty	256-8691	256-8690	1D-4637 (10)	2J-3507 (10)	3K-5234 (10)			
Heavy Duty	256-8691	256-8690	1D-4637 (10)	2J-3507 (10)	3K-5234 (1)			
215								
Blade Type 1	9J-1856	9J-1855	4F-7827 (6)	2J-3506 (6)				
Strike-Off	9J-1858	9J-1857	4F-7827 (6)	2J-3506 (6)				
Combination	9J-1856	9J-1855	4F-3656 (8)	1D-4720 (8)				
— Blade	4T-2964	9J-0371						
— Bolt	4F-7827 (6)	4F-7827 (6)						
— Nut	1D-4720 (6)	2J-3506 (6)						
Tooth	9J-1876	9J-1875	4F-3672 (6)	2J-3506 (6)		1U-3302 (2)	107-3308 (2)	8E-6259 (2)
225								
Blade Type 1	8J-9614	8J-9615	4F-4042 (6)	2J-3507 (6)				
Strike-Off	174-8044	174-8043	1J-5607 (4)	2J-3507 (4)				
Combination	8J-9614	8J-9615	1J-6762 (8)	2J-3506 (8)				
— Blade		4T-2886 (2)						
— Bolt	4F-4042 (6)	1J-6762 (8)						
— Nut	2J-3507 (6)	2J-3506 (8)						
Tooth	8J-5186	8J-5185	4F-4042 (6)	2J-3507 (6)		1U-3352 (2)	8E-6258 (2)	8E-6259 (2)
235								
Blade Type 1	8J-9614	8J-9615	4F-4042 (6)	2J-3507 (6)				
Strike-Off	174-8044	174-8043	1J-5607 (4)	2J-3507 (4)				
Combination	8J-9614	8J-9615	1J-6762 (8)	2J-3506 (8)				
— Blade		4T-2886 (2)						
— Bolt	4F-4042 (6)	1J-6762 (8)						
— Nut	2J-3507 (6)	2J-3506 (8)						
Tooth	8J-5186	8J-5185	4F-4042 (6)	2J-3507 (6)		9W-8452 (2)	8E-0468 (2)	8E-8469 (2)
245								
Blade Type 1	8J-9826	8J-9825	4J-9208 (1)	2J-3507 (1)	5P-8250 (1)			
Strike-Off	8J-5188	8J-5188	1J-5607 (4)	2J-3507 (4)				
Combination	8J-9826	8J-9825	4J-9208 (1)	2J-3507 (1)	5P-8250 (1)			
— Blade		4T-6664 (2)						
— Bolt		4J-9208						
— Nut		2J-3507						
Tooth	8J-4948	8J-4947	4J-9208 (1)	2J-3507 (1)	5P-8250 (1)	9W-8552 (2)	6Y-8558 (2)	8E-5559 (2)
E70B								
One Piece	153-1646	153-1647	096-7074	093-7676				
E110B								
One Piece	7Y-0203	7Y-0204	096-7074	093-7676				
E120B								
One Piece	7Y-0203	7Y-0204	096-7074	093-7676				
E140B								
One Piece	7Y-0203	7Y-0204	096-7074	093-7676				

Ground Engaging Tools – Excavator Sidecutters

Sidecutters

TYPE	PART NUMBER (lh) (rh)		BOLT	NUT	WASHER	TIP	PIN	RETAINER
E200B								
Blade Type 1	9J-1856	9J-1855	4F-7827 (6)	2J-3506 (6)				
Strike-Off	9J-1858	9J-1857	4F-7827 (6)	2J-3506 (6)				
Combination	9J-1856	9J-1855	4F-3656 (8)	1D-4720 (8)				
— Blade	4T-2964	9J-0371						
— Bolt	4F-7827 (6)	4F-7827 (6)						
— Nut	1D-4720 (6)	2J-3506 (6)						
Tooth	9J-1876	9J-1875	4F-3672 (6)	2J-3506 (6)		1U-3302 (2)	107-3308 (2)	8E-6259 (2)
E240B								
Blade Type 1	8J-9614	8J-9615	4F-4042 (6)	2J-3507 (6)				
Strike-Off	174-8044	174-8043	1J-5607 (4)	2J-3507 (4)				
Combination	8J-9614	8J-9615	1J-6762 (8)	2J-3506 (8)				
— Blade		4T-2886 (2)						
— Bolt	4F-4042 (6)	1J-6762 (8)						
— Nut	2J-3507 (6)	2J-3506 (8)						
Tooth	8J-5186	8J-5185	4F-4042 (6)	2J-3507 (6)		1U-3352 (2)	8E-6258 (2)	8E-6259 (2)
E300B								
Blade Type 1	8J-9614	8J-9615	4F-4042 (6)	2J-3507 (6)				
Strike-Off	174-8044	174-8043	1J-5607 (4)	2J-3507 (4)				
Combination	8J-9614	8J-9615	1J-6762 (8)	2J-3506 (8)				
— Blade		4T-2886 (2)						
— Bolt	4F-4042 (6)	1J-6762 (8)						
— Nut	2J-3507 (6)	2J-3506 (8)						
Tooth	8J-5186	8J-5185	4F-4042 (6)	2J-3507 (6)		9W-8452 (2)	8E-0468 (2)	8E-8469 (2)



- Use in rock conditions.
- Protects bucket sidebar.

Hex Sidebar Protectors

BUCKET FAMILY	ONE PIECE	TWO PIECE	PIN	RETAINER
B, S, C, D		112-2489	112-2490	149-5733
E, F, G, V (Early)	112-2494		132-0998	149-5733
E, F, G, V, (New), VB		166-2877	132-0998	149-5733
W	125-0800		8E-4708	4T-4707
J, JB		112-2492	132-1008	149-5733
350, 375 (Early)	1U-0740		133-0738	107-8559
330B, 325B, 322B, 320B	8J-4143		9J-8441	8E-8559

Ground Engaging Tools – Excavator Sidecutters

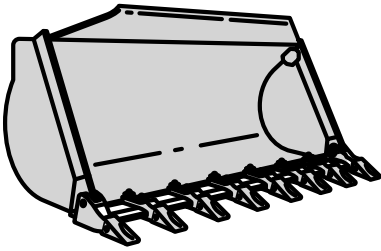
ONE SAFE SOURCE | 2006-2007

GROUND ENGAGING TOOLS | LOADERS



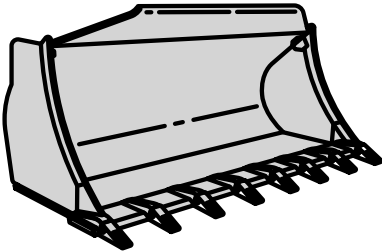
Ground Engaging Tools – Loader Buckets

Loader Buckets



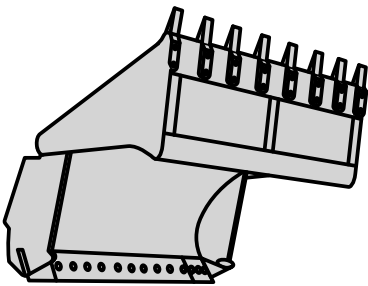
General Purpose Excavating Bucket

- Uses shell type construction and can be equipped with a corner guard system.
- For use in excavating materials that require breakout force as well as stockpiling material.



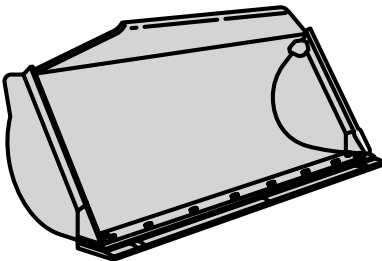
General Purpose Penetration Bucket

- Provides maximum penetration due to flush-mounted teeth, a sharp base edge, and sharply curved side bars.
- For use in applications where a smooth level cut is needed.



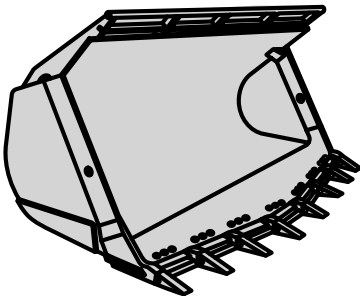
Multi-Purpose Bucket

- Provides more dump clearance and grabbing capabilities due to its movable clam.
- For use in general loading.



Material Handling Bucket

- Designed with a flat bottom and weld-on wear strips.
- Available with bolt-on adapters, adapters and segments, or bolt-on cutting edges.

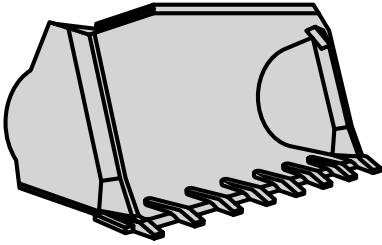


Rock Bucket

- Available with straight or spade edges.
- Straight edges provide a higher breakout force and an increased dump clearance.
- Spade edges provide better penetration.
- Available with teeth, without teeth, with teeth and bolt-on segments, or with bolt-on cutting edges.
- For use in mining or quarry applications.

Ground Engaging Tools – Loader Buckets

Loader Buckets



Utility Bucket

- For use in handling materials of varying shapes — such as boxes, crates, bundles, drums, and loose stockpiled material.
- For use with Integrated Toolcarriers.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (in) (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in) (mm)	BUCKET CORNER/SIDE BAR (lh) (rh)		ONE BOLT BUCKET CORNER (lh) (rh)		TWO BOLT BUCKET CORNER (lh) (rh)		NUMBER OF TEETH	TIP SIZE
910, 914G	82.6	2098	Straight	5G-2809			0.75	19		5G-2806	5G-2807			7	J200
	85.1	2162	Straight	5G-6133	5G-3085		0.75	19		5G-2806	5G-2807			7	J200
	89.5	2273	Straight	5G-8763			0.75	19		5G-2806	5G-2807			7	J200
	94.0	2388	Straight	5G-8342			0.75	19		5G-2806	5G-2807			8	J200
	96.0	2438	Straight		5G-8912	5G-8911	0.75	19	5G-5769	5G-5770				8	J200
	96.61	2454	Straight		128-1489		0.75	19	128-1487	128-1488				8	J200
916, 924F, 926, 928	93.6	2377	Straight	9V-6572	5V-4670		0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	96.0	2438	Straight			9V-9755	0.98	25	4V-8286	4V-8285				8	J250
	99.37	2524	Straight	4E-0659			0.98	25				6I-8310	6I-8311	8	J250
	102.13	2594	Straight		4E-2483		0.98	25							
920, 930	95.3	2421	Straight	6W-2984			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	96.0	2438	Straight		1V-3916	1V-5171	0.98	25	4V-8286	4V-8285				9	J250
	99.37	2524	Straight	4E-0659			0.98	25				6I-8310	6I-8311	8	J250
928F, 928G, 924G	93.31	2370	Straight	9V-6572			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	99.7	2532	Straight	4E-0659			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
931, 935	102.0	2591	Straight		4E-2483	4E-2482	0.98	25	4V-8286	4V-8285				8	J250
	72.2	1834	Straight		5G-2808		0.98	25		5G-2806	5G-2807			8	J200
	74.72	1898	Straight		6S-6501		0.75	19.05		6S-3238	6S-3237			8	J200
	81.69	2075	Straight		5G-2809		0.75	19.05		5G-2807	5G-2806			8	J200
	85.1	2162	Straight	5G-6133	5G-3085		0.98	25		5G-2806	5G-2807			7	J200
	92.4	2347	Straight		5G-3477		0.98	25		5G-2806	5G-2807			7	J200
931, 933, 935	94.72	2406	Straight		6S-7291		0.75	19.05		6S-3238	6S-3237			8	J200
	77.5	1969	Straight	8Y-4738	5G-8467		0.98	25		5G-2806	5G-2807			8	J225
	104.2	2647	Straight	6W-2985	8V-1825		0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	107.5	2731	Straight		9V-9072	9V-9521	0.98	25						8	J250
936F	109.2	2774	Straight			106-3192	0.98	25						8	J250
	95.87	2435	Straight	110-4781			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	105.9	2690	Straight	105-2345			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	107.2	2723	Straight	110-4712			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
939	109.2	2774	Straight			106-3192	0.98	25						8	J250
	85.0	2159	Straight	8Y-8763			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	79.8	2027	Straight	6W-2977			0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	82.0	2083	Straight		9K-8471	1V-0074***	0.98	25	4V-8286	4V-8285				8	J250
941, 951	93.6	2377	Straight	9V-6572	5V-4670		0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	82.1	2086	Straight	9V-6571	4V-8335		0.98	25		4V-1545	4V-1544	6I-8310	6I-8311	8	J350

* Consists of edge and adapters.

*** Consists of edge and six adapters.

Note: Universal base edge allows use of teeth and segments or bolt-on edges.

** Does not accept segments.

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDEBAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
	(in)	(mm)					(in)	(mm)	(rh)	(lh)	(rh)	(lh)	(rh)	(lh)		
943 (cont.)	85.0	2156	Straight		9V-5110	9V-5111	0.98	25	4V-8286	4V-8285					8	J250
	87.0	2210	Straight	9V-6570	4V-8850		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	88.8	2256	Straight	6W-2976	8V-7453		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	90.0	2285	Straight		1V-9077	9V-5116	0.98	25	4V-8286	4V-8285					8	J250
944, 950	95.2	2419	Straight	6W-2986			0.98	25			5V-7395	5V-7396	8E-5302	8E-5303	8	J300
	96.0	2438	Straight		1V-3916	9K-8665	0.98	25	8K-6456	8K-6455					9	J300
	103.3	2624	Straight	6W-2987			0.98	25			5V-7395	5V-7396	8E-5302	8E-5303	8	J300
	105.8	2687	Straight		1V-3915	9K-8664	0.98	25	4V-8668	4V-8667					8	J300
950	104.2	2647	Straight	6W-2985	8V-1825		0.98	25			5V-7395	5V-7396	8E-5302	8E-5303	8	J300
950 B.E.F,	107.7	2736	Straight	9V-6573	5V-4696		1.26	32			5V-1783	5V-1784	8E-5301	8E-5300	8	J300
960 B.E.F	107.72	2736	Straight	9V-6573	5V-4696		1.26	32					8E-5303	8E-5302	8	K80
	108.0	2744	Straight		6W-4598	6W-4599	0.98	25							8	J300
	108.0	2744	Straight		5V-7410		0.98	25			5V-1783	5V-1784	8E-5301	8E-5300	8	J300
	111.0	2819	Spade	6W-2973	9C-0967	6W-9879**	1.38	35	6W-3468	6W-3468					8	J350
950G, 962G	115.5	2934	Straight	141-4847			1.26	32			5V-1783	5V-1784	8E-5301	8E-5300	8	J300
950G II	115.51	2934	Straight	141-4847			1.26	32					8E-5303	8E-5302	8	K80
	117.0	2973	Spade		142-9406	141-8824	1.38	35	6W-3468	6W-3468					8	J350
	117.5	2984	Spade		141-8823		1.38	35	6W-3468	6W-3468						
	119.49	3035	Straight	9V-6575			1.57	40					8E-5311	8E-5310	8	K90
953, 953C	87.0	2210	Straight	9V-6570	4V-8850		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	87.01	2210	Straight	9V-6570			0.98	25					8E-5303	8E-5302	8	K80
	90.0	2285	Straight		1V-9077	9V-5116	0.98	25	4V-8286	4V-8285					8	J250
	93.58	2377	Straight	9V-6572	5V-4670		0.98	25					8E-5303	8E-5302	8	K80
955	93.6	2377	Straight	9V-6572	5V-4670		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	96.0	2438	Straight		1V-3916	9V-5117	0.98	25	4V-8286	4V-8285					8	J250
	88.5	2248	Straight		9K-8461		0.98	25	8K-7526	8K-7525					8	J300
	88.50	2248	Straight		5V-7437		0.98	25			8K-6456	8K-6456			8	J300
960F	89.3	2268	Straight	6W-2978			1.26	32			5V-1784	5V-1783	8E-5301	8E-5300	8	J300
	90.0	2286	Straight		1V-9077		0.98	25	4V-8668	4V-8667					8	J300
	96.0	2438	Straight		5V-7263		1.26	32			5V-1784	5V-1783	8E-5301	8E-5300	8	J300
	107.7	2736	Straight	9V-6573	5V-4696		0.98	25			5V-1783	5V-1784	8E-5301	8E-5300	8	J300
963	108.0	2743	Straight		5V-7410		0.98	25			5V-1783	5V-1784	8E-5301	8E-5300	8	J300
	119.4	3032	Straight	9V-6575	7V-1490		1.57	40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	119.49	3035	Straight	9V-6575			1.57	40					8E-5311	8E-5310	8	K90
	89.6	2276	Straight	6W-2979	4V-4958		1.26	32			5V-1784	5V-1783	8E-5301	8E-5300	8	J300
	92.3	2345	Straight		9V-5340	9V-5341	1.26	32	4V-8668	4V-8667					8	J300

** Does not accept segments.
Note: Universal base edge allows use of teeth and segments or bolt-on edges.

* Consists of edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (in) (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in) (mm)	BUCKET CORNER/SIDE BAR (lh) (rh)		ONE BOLT BUCKET CORNER (lh) (rh)		TWO BOLT BUCKET CORNER (lh) (rh)		NUMBER OF TEETH	TIP SIZE
963 (cont.)	97.4	2474	Straight	6W-2980	4V-3174		1.26 32			5V-1784	5V-1783	8E-5301	8E-5300	8	J300
	98.35	2498	Straight			256-4723	0.00							8	K90
	98.7	2507	Straight	8Y-6263			1.26 32			5V-2772	5V-2773	8E-5320	8E-5321	8	J350
	100.5	2553	Straight		9V-5328	9V-5327	1.26 32	4V-8668	4V-8667					8	J300
	101.69	2583	Straight		219-3171		1.57 40							8	J350
	119.49	3035	Straight	9V-6575			1.57 40					8E-5311	8E-5310	8	K90
966C	111.81	2840	Straight	6W-2989			1.26 32					8E-5311	8E-5310	8	K90
	112.0	2840	Straight	6W-2989			1.26 32			5V-2773	5V-2772	8E-5321	8E-5320	8	J300
	112.8	2864	Straight	6W-2990			1.26 32			5V-2773	5V-2772	8E-5321	8E-5320	8	J300
	112.76	2864	Straight	6W-2990			1.26 32					8E-5311	8E-5310	8	K90
	115.0	2921	Straight		1V-3917	2V-3583	1.26 32	1V-8664	1V-8664					7	J350
	115.0	2921	Straight		7V-6844		1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
966D,E,F	119.4	3032	Straight	9V-6575	7V-1490		1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	119.7	3040	Straight		7V-0912	6W-5520	1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	121.5	3086	Spade	6W-2993	9V-0170	9V-0176	1.57 40	8K-7526	8K-7525					8	J350
	121.5	3086	Spade	6W-2993		2Q-2924	1.77 45	8K-7526	8K-7525					8	J350
	119.37	3032	Straight		7V-1490		1.57 40					8E-5311	8E-5310	8	K90
	119.69	3040	Straight		7V-0912		1.57 40					8E-5311	8E-5310	8	K90
966G II	124.0	3150	Straight	9V-6575	7V-1490		1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	124.02	3150	Straight	9V-6575	7V-1490		1.57 40					8E-5311	8E-5310	8	K90
	128.0	3252	Spade	148-6915		148-6914	1.57 40							8	J350
	130.0	3306	Spade		154-1604		1.57 40								
	130.35	3311	Straight	71-3015			1.57 40					8E-5311	8E-5310	8	K90
	130.4	3311	Straight	71-3015			1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
970	115.5	2934	Straight	71-3631			1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	115.51	2934	Straight	71-3631			1.57 40					8E-5311	8E-5310	8	K90
	119.37	3032	Straight	9V-6575	7V-1490		1.57 40					8E-5311	8E-5310	8	K90
	119.4	3032	Straight	9V-6575	7V-1490		1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	125.98	3200	Straight	71-3015			1.57 40					8E-5311	8E-5310	8	K90
	126.0	3200	Straight	71-3015			1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
973	102.44	2602			5V-0600		1.57 40					8E-5311	8E-5310	8	J350
	102.44	2602			5V-0600		1.57 40			4V-7175	4V-7174	8E-5311	8E-5310	8	K90
	102.76	2610		6W-2982			1.57 40					8E-5311	8E-5310	8	K90
	102.8	2610	Straight	6W-2982			1.57 40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	105.9	2690	Straight		9V-5287	9V-5288	1.57 40	6W-2454	6W-2453			8E-5310	8E-5311	8	J350
	106.5	2705	Spade	6W-2994			1.77 45	8K-7526	8K-7525					7	J350

* Consists of edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

** Does not accept segments.

Note: Universal base edge allows use of teeth and segments or bolt-on edges.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDEBAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
	106.5	2705					1.57	40	8K-7526	8K-7525						
973 (cont.)	106.69	2710		5G-7304	9V-0171	9V-0178	1.57	40					8E-5311	8E-5310	8	J350
	106.7	2710	Straight	5G-7304	5G-7303		1.57	40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	112.05	2846			4V-9714		1.57	40					8E-5311	8E-5310	8	K90
	112.09	2847		6W-2981			1.57	40					8E-5311	8E-5310	8	K90
	112.1	2847	Straight	6W-2981			1.57	40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	115.5	2934	Straight		9V-5283	9V-5284	1.57	40	6W-2454	6W-2453					8	J350
	119.37	3032		9V-6575			1.57	40					8E-5311	8E-5310	8	K90
	130.51	3315			7V-4188		1.77	45					7V-4181	7V-4110	8	K100
	130.51	3315			9V-6574		1.77	45					7V-4181	7V-4110	8	K100
	96.0	2438	Straight	6W-2983			1.57	40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
977	98.0	2489	Straight		9K-8472	1V-9018***	1.26	32	1V-8664	1V-8664					8	J350
	112.8	2864	Straight		7V-0898		1.57	40			4V-7174	4V-7175	8E-5310	8E-5311	8	J350
	128.8	3270	Straight	6W-2991			1.77	45			7V-4180	7V-4181	6I-8250	6I-8249	8	J350
	129.0	3277	Spade		8V-9580	8V-9586	1.77	45	2V-6299	2V-6299					8	J350
	130.8	3322	Straight		7V-0909		1.77	45	7V-9270	7V-9271					8	J350
	130.8	3322	Straight	9V-6574	7V-4188		1.77	45			7V-4180	7V-4181	6I-8250	6I-8249	8	J350
	129.4	3286	Straight		2V-6118		1.77	45	2V-6299	2V-6299					8	J350
	132.5	3366	Spade		8V-9581	9V-0233	1.77	45	3V-7197	3V-7198					8	J350
	132.5	3366	Spade	9V-3561		4E-6807	1.77	45	3V-7197	3V-7198					8	J350
	132.5	3366	Spade	9V-3561			1.77	45	7K-9310	7K-9309						
980F, 980G	132.7	3371	Spade	9V-3561		4E-6806	1.77	45	2V-4315	2V-4314					8	J460
	134.0	3404	Straight	111-9770			1.77	45					6I-8250	6I-8249	8	J400
	134.02	3404	Straight	111-9770			1.77	45					6I-8250	6I-8249	8	K100
	137.48	3492				130-4606	1.77	45							8	J400
	137.48	3492	Straight			261-8713	1.77	45							8	K100
	137.48	3492	Spade			261-8714	1.77	45							8	K100
	137.48	3492	Spade			261-8715	1.77	45							8	K100
	137.48	3492	Spade			134-1747	2.00	50.8							8	J460
	137.48	3492	Spade			260-1385	2.00	50.8							8	K110
	137.5	3493	Spade	113-9942		126-6539	1.77	45	145-6977	145-6977					8	J400
983	137.5	3493	Spade		123-1396	126-6540	1.77	45	145-6977	145-6977					8	J400
	140.47	3568	Straight			135-7114	2.00	50.8							8	J460
	129.0	3277	Spade		8V-9591	137-6263	1.97	50	3V-3311	3V-3310					8	J460
	140.2	3561	Straight	4E-6085			1.77	45			7V-4180	7V-4181	6I-8250	6I-8249	8	J460
988, 988B																

* Consists of edge and adapters.
 *** Consists of edge and six adapters.
 Note: Universal base edge allows use of teeth and segments or bolt-on edges.
 ** Does not accept segments.
 Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDE BAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
988, 988B (cont.)	143.5	3645	Straight		3V-0187		1.77	45	4E-5873	4E-5873						
	143.5	3645	Spade		8V-9585	116-7206**	2.00	51	145-6984	145-6984					8	J460/K110
	143.5	3645	Spade			256-2934	2.00	50.8	145-6984	145-6984					8	K110
	143.5	3645	Straight			256-2931	2.00	50.8							8	K110
	143.5	3645	Spade	8R-4649		116-7201	2.00	51	145-6984	145-6984					8	J460/K110
	143.5	3645	Straight	9C-2932		2Q-1640	1.98	50	7K-9310	7K-9309					8	J460
	143.5	3645	Straight		9V-0232	4E-0056	2.00	51	7K-9310	7K-9309					8	J460/K110
	148.5	3772	Straight		2Q-3133	2Q-3132	2.00	51	2Q-3137	2Q-3137					8	J460/K110
	145.5	3696	Straight	9U-3748			1.37	35			7V-4180	7V-4181	6I-8250	6I-8249	8	J460
	148.5	3772	Spade			132-3116	2.00	51	145-6984	145-6984					8	J460/K110
988F	148.5	3772	Spade			133-0820	2.00	51	145-6984	145-6984					8	J460/K110
	148.5	3772	Spade		9U-4713		1.97	50	4E-6474	4E-6474					8	J460
	148.5	3772	Spade	4E-7616		2Q-7060	2.00	51	145-6987	145-6987					8	J460/K110
	148.5	3772	Spade			133-0818	2.00	51	4E-8106	4E-8106					8	J550/K110
	148.5	3772	Spade			144-0106	2.00	51	144-0514	144-0514					8	J550/K110
	148.5	3772	Straight	4E-8112		116-7204	2.00	51	145-6981	145-6981					8	J460/K110
	148.5	3772	Straight	4E-8112		4E-8111	2.00	51	4E-8106	4E-8106					8	J460/K110
	148.50	3772	Spade	132-3117			2.00	50.8	145-6984	145-6984					8	J450
	148.50	3772	Straight			2Q-3132	2.00	50.8			6W-9413	6W-9412			8	J460
	148.50	3772	Spade	256-2938			2.00	50.8							8	K130
	148.50	3772	Straight		2Q-3133		2.00	50.8			6W-9413	6W-9412			8	J450
	148.50	3772	Spade	4E-7616			2.00	50.8	145-6987	145-6987					8	J550
	152.05	3862	Spade			2Q-7019	2.50	63.5	145-6988	145-6988					7	J550
	152.05	3862	Spade	2Q-7018			2.50	63.5	145-6988	145-6988					8	J550
	156.69	3980	Spade	2Q-4344			2.00	50.8	145-6986	145-6986					8	J450

* Consists of edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

** Does not accept segments.

Note: Universal base edge allows use of teeth and segments or bolt-on edges.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDEBAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
	(in)	(mm)					(in)	(mm)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)		
988F (cont.)	156.69	3980	Spade			2Q-4342	2.00	50.8			7V-4180	7V-4181	6I-8250	6I-8249	8	J460
	148.5	3696	Straight	183-5190			1.97	50							8	J460/
	149.6	3800	Straight			156-1040	2.00	51							8	K110
	149.6	3800	Spade			136-6175	2.00	51							8	J460/
	149.61	3800	Spade			246-2743	2.00	50.8							8	K110
	152.0	3862	Spade	2Q-7018		2Q-7019	2.50	64	193-8221	193-8221					7	J550/
	153.5	3900	Spade			195-0410	2.00	51	178-3702	178-3702					8	K130
	154.57	3926	Spade			186-3282	2.50	63.5	193-0341	193-0341					6	J460/
	154.57	3926	Spade			253-9582	2.50	63.5							7	K110
	156.06	3964	Spade	149-5915			2.00	50.8							8	J460/
988H	156.7	3980	Spade			156-6391	2.00	51	178-3702	178-3702					8	K110
	145.47	3695	Straight	257-3667			1.97	50					6I-8250	6I-8249	8	K110
	149.61	3800	Straight			257-3649	2.00	50.8	257-3663	257-3663					8	K110
	150.00	3810	Spade			246-2766	2.00	50.8	239-0258	239-0258					8	K110
	152.05	3862	Spade			246-2768	2.50	63.5	257-3657	257-3657					7	K130
	154.57	3926	Spade			257-3695	2.50	63.5	257-3696	257-3696					7	K130
	154.57	3926	Spade			253-9582	2.50	63.5							7	K130
	156.69	3980	Spade			246-2746	2.00	50.8	234-6225	234-6225					8	K110
	156.69	3980	Spade			246-2764	2.00	50.8	214-6367	214-6367					8	K110
	175.20	4450	Spade			2Q-7059	2.50	63.5							8	J550/
990	175.20	4450	Spade			255-3759	2.50	63.5	145-6990	145-6990					8	K130
	175.5	4458	Spade	4E-9915		112-2119	2.50	64	145-6990	145-9660					8	J550/
	175.5	4458	Spade		151-5980		2.50	64	145-6989	145-6989						K130
	175.5	4458	Spade		101-9188	112-2118	2.50	64	145-6990	145-6990					8	J550/
	175.5	4458	Spade				2.50	64								K130

* Consists of edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

** Does not accept segments.

Note: Universal base edge allows use of teeth and segments or bolt-on edges.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS		BUCKET CORNER/SIDEBAR		ONE BOLT BUCKET CORNER		TWO BOLT BUCKET CORNER		NUMBER OF TEETH	TIP SIZE
	(in)	(mm)					(in)	(mm)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)		
990 (cont.)	175.5	4458	Straight	101-9186		112-2120	2.50	64	145-6990	145-6990					8	J550/ K130
	175.5	4458	Straight		101-9186		2.50	64	145-6989	145-6989						
	175.5	4458	Straight		111-9049	111-9048	2.50	64	145-6992	145-6992					8	J550/ K130
	180.08	4574	Spade			195-5088	2.50	63.5	202-2265	202-2265					7	J550/ K130
	180.08	4574	Spade			255-3765	2.76	70	255-3801	255-3801					7	K150
	180.08	4574	Spade			251-7776	2.76	70							7	K150
992, 992B 992C	181.50	4610	Spade		145-0795		3.00	76.2								
	181.50	4610	Spade			2Q-4246	2.50	63.5							8	J550/ K130
	181.50	4610	Spade				2.50	63.5								
	181.50	4610	Spade	2Q-4247			2.50	63.5								
	181.50	4610	Spade			255-3756	2.50	63.5							8	K130
	168.8	4288	Straight		9V-0009		2.24	57	3V-3894	3V-3893					8	J550
992C,D	181.0	4597	Spade		9V-4370	9V-4371	2.50	64	3V-3240	3V-3239					8	J550/ K130
	180.98	4597	Spade			257-8857	2.50	63.5							8	K130
	181.0	4597	Straight		3V-3890		2.50	64	3V-3894	3V-3893					8	J550/ K130
	187.0	4750	Spade	4E-6462		112-2122	2.50	64	145-6995	145-6995					8	J550/ K130
	187.0	4750	Spade		9V-0005	9V-0014	2.50	64	9V-6132	9V-6132					8	J550/ K130
	187.0	4750	Spade	4E-6462		4E-6464	2.50	64	145-6995	145-6995					8	J550/ K130
	187.0	4750	Spade		9V-0006	9V-0013	2.50	64	4E-6386	4E-6386					8	J550/ K130
	187.0	4750	Straight		9V-0007	9V-0010	2.50	64	5V-5403	5V-5403					8	J550/ K130
	187.0	4750	Spade	9V-3566		112-2121	2.50	64	145-6995	145-6995					8	J550/ K130
	187.01	4750	Spade			257-8870	2.76	70							8	K150
	187.01	4750	Spade			109-9094	2.76	70							8	J600/ K150

* Consists of edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

** Does not accept segments.
Note: Universal base edge allows use of teeth and segments or bolt-on edges.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDEBAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
	(in)	(mm)					(in)	(mm)	(lh)	(rh)	(lh)	(rh)	(lh)	(rh)		
992C,D (cont.)	187.01	4750	Spade			107-8570	2.76	70	9U-3837	9U-3837					8	J600/ K150
	187.01	4750	Spade			257-8859	2.50	63.5							8	K130
	187.01	4750	Straight		142-1416		2.50	63.5								BOCE
	189.92	4824	Spade			134-8333	3.00	76.2							8	J700/ K170
	190.55	4840	Spade			208-5326	2.76	70							8	J600/ K150
992D	190.55	4840	Spade			250-7577	2.76	70							8	K150
	187.0	4750	Spade	4E-6462		2Q-0318	2.50	64	4E-6387	4E-6387					8	J700/ K130
	187.0	4750	Straight	9U-3486		112-2123	2.50	64	145-6997	145-6997					8	J550/ K130
	189.9	4823	Spade			142-5790	2.50	64	112-8996	112-8996					8	J600/ K130
	189.9	4823	Spade			132-7091	2.50	64	112-8996	112-8996					8	J550/ K130
992G	189.9	4823	Spade			153-5621	2.76	70	112-9005	112-9005					8	J700/ K150
	189.92	4824	Spade			218-3418	3.00	76.2							8	J700/ K170
	189.92	4824	Spade	146-8966		146-8955	3.00	76.2							8	J700/ K170
	189.92	4824	Spade			247-7241	3.00	76.2							8	K170
	189.92	4824	Spade	112-9033		112-9032	2.76	70							8	J600/ K150
994	189.92	4824	Spade		170-1748		2.76	70								BOCE
	189.92	4824	Spade			138-4386	2.76	70							8	J600/ K150
	189.92	4824	Spade			235-1090	2.76	70	262-7486	262-7486					8	K150
	189.92	4824	Spade			247-7232	2.76	70	262-7486	262-7486					8	K170
	190.55	4840	Spade			247-7247	2.76	70							8	K150
994	190.6	4841	Spade			107-6763**	2.76	70	134-5906	134-5906					8	J600/ K150
	222.0	5640	Spade	101-5868		101-5857	4.00	102	101-9374	101-9373					8	J800

** Does not accept segments.
Note: Universal base edge allows use of teeth and segments or bolt-on edges.

* Consists of edge and adapters.
Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Buckets

MODEL	BUCKET WIDTH (mm)		EDGE TYPE	UNIVERSAL BASE EDGE	BASE** EDGE	BASE* EDGE ASSY.	EDGE THICKNESS (in)		BUCKET CORNER/SIDEBAR (lh)		ONE BOLT BUCKET CORNER (lh)		TWO BOLT BUCKET CORNER (lh)		NUMBER OF TEETH	TIP SIZE
994 (cont.)	222.0	5640	Spade	110-2339		110-2340	4.00	102	101-9374	101-9373					8	J800
	222.0	5640	Spade	121-2105		121-2104	4.00	102	121-2367	121-2364					8	J800
	222.0	5640	Spade	8X-0809		8X-0808	3.00	76	8X-0816	8X-0813					9	J700
	245.0	6220	Spade	101-5865		101-5856	4.00	102	101-9374	101-9373					9	J800
	245.0	6220	Spade	121-6660		121-6659	4.00	102	121-2367	121-2364					9	J800
IT12	245.0	6220	Straight	101-6776		71-5848	3.98	101	101-6777	101-6777					9	J800
	222.0	5640	Straight	102-9914		102-9915	4.00	102	101-6777	101-6777					8	J800
	85.1	2162	Straight	5G-6133	5G-3085		0.75	19			5G-2806	5G-2807			7	J200
	89.13	2264	Penetration		5G-5764	5G-5763	0.75	19	5G-5769	5G-5770					8	J200
	91.65	2328	Straight	5G-8783			0.75	19.05					5G-2807	5G-2806	7	J200
IT14G	94.0	2388	Straight	5G-8342	5G-8526		0.75	19					5G-5770	5G-5769	8	J200
	96.0	2438	Straight			5G-8912	0.75	19	5G-5769	5G-5770					8	J200
	96.61	2454	Penetration		128-1489		0.75	19							8	J200
	93.6	2377	Straight	9V-6572	5V-4670		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	96.0	2438	Straight			9V-9755	0.98	25	4V-8286	4V-8285					8	J250
IT24F, IT28F	99.7	2532	Straight	4E-0659			0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	102.0	2591	Straight		4E-2483	4E-2482	0.98	25	4V-8286	4V-8285					8	J250
IT38G	104.2	2647	Straight	6W-2985	8V-1825		0.98	25			4V-1545	4V-1544	6I-8310	6I-8311	8	J250
	105.55	2681	Straight	105-2345			0.98	25			4V-1545	4V-1544	6I-8311	6I-8310	8	J250
IT62G II	113.62	2886	Straight	141-4847			1.26	32								

* Consists of edge and adapters.

Number in parentheses () after the part number indicates the quantity required.

** Does not accept segments.

Note: Universal base edge allows use of teeth and segments or bolt-on edges.

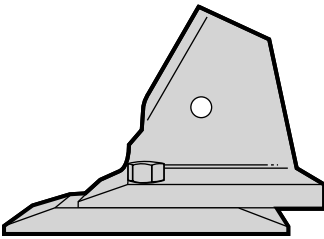
Ground Engaging Tools – Loader Edges

Bolt-On Edges

When penetration is not a problem, use bolt-on cutting edges.

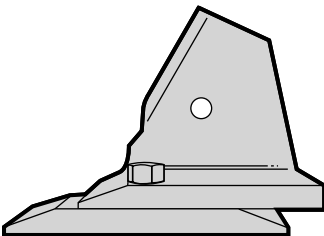
Bolt-on cutting edges:

- Increases base edge life up to five times over an unprotected base edge.
- Are quick and easy to replace.
- Increases bucket capacity.
- Provides smooth floor maintenance capability.
- Are made of DH-2 steel alloy and are hardened to 430-520 Brinell.



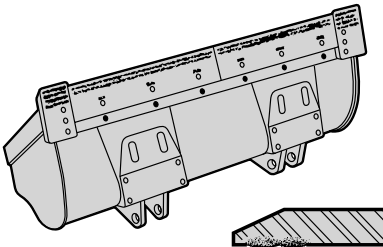
Standard Bolt-On Edges

- Reversible for a second wear life.



Heavy Duty Bolt-On Edges

- Provides at least 50% more wear material than standard bolt-on edges.
- Reversible for a second wear life.



ARM Bolt-On Edges

- Provides three to five times the wear life of standard bolt-on edges.
- For use in low to moderate impact applications where wear rates are high — such as in abrasive materials.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH (mm)		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS				EDGE THICKNESS (mm)		BOLT	NUT
	(in)				(left end)	(left center)	(center)	(right center)	(right end)	(in)		
910, 914G	82.6	2098	CGS	Straight End	4T-2914		4T-8796		4T-2914	0.75	4F-7827 (7)	2J-3506 (7)
	85.1	2162	CGS	Straight End	4T-2914		4T-2913		4T-2914	0.75	4F-7827 (7)	2J-3506 (7)
	89.5	2273	CGS	Straight End	4T-2914		9W-8694		4T-2914	0.75	4F-7827 (7)	2J-3506 (7)
	94.0	2388	CGS	Straight End	4T-2914		9W-8620		4T-2914	0.75	4F-7827 (8)	2J-3506 (8)
	93.6	2378	CGS	Straight End	4T-8091		1U-0295 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
916, 924F, 926				Angled End	1U-1896		1U-0295 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	9W-3486		9W-3487	9W-3482	0.98	1J-5607 (10)	2J-3507 (10)
	99.37	2524	CGS	Straight End	4T-8091		8E-4567 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		8E-4567 (1)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3482	135-6729		135-6728	9W-3481	0.98	1J-5607 (10)	2J-3507 (10)
920, 930	95.3	2421	CGS	Straight End	4T-8091		1U-0607 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		1U-0607 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	9W-3483		9W-3483	9W-3482	0.98	1J-5607 (10)	2J-3507 (10)
	99.37	2524	CGS	Straight End	4T-8091		8E-4567 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		8E-4567 (1)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
928	93.6	2377	CGS	Straight End	9W-3482	135-6729		135-6728	9W-3481	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	4T-8091		1U-0295 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				ARM	1U-1896		1U-0295 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	9W-3486		9W-3487	9W-3482	0.98	1J-5607 (10)	2J-3507 (10)
	99.7	2532	CGS	Straight End	4T-8091		8E-4567 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
928F, 928G, 924G				Angled End	1U-1896		8E-4567 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	135-6728		135-6729	9W-3482	0.98	1J-5607 (10)	2J-3507 (10)
	77.5	1969	CGS	Straight End	9W-9944		9W-9943		9W-9944	0.75	4F-7827 (8)	2J-3506 (8)
	92.4	2347	CGS	Straight End	4T-2914		4T-2915		4T-2914	0.75	4F-7827 (7)	2J-3506 (7)
	72.2	1834	CGS	Straight End	4T-2910		4T-2911		4T-2910	0.75	4F-7827 (8)	2J-3506 (8)
931, 933, 935 STD, 936, 936E, 936F				Straight End	4T-8091		1U-0292 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		1U-0292 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	9W-3484		9W-3485	9W-3482	0.98	1J-5607 (10)	2J-3507 (10)
	74.72	1898	GP	Straight End			4T-2919 (2)			0.75	4F-7827 (6)	2J-3506 (6)
	81.69	2075		Straight End	4T-2914		4T-8796		4T-2914	0.75	4F-7827 (8)	2J-3506 (8)
938F, 938G				Heavy Duty		195-7132		195-7131		0.75	4F-7827 (7)	2J-3506 (7)
	84.65	2150	GP	Straight End	4T-2914		4T-2913		4T-2914	0.75	4F-7827 (8)	2J-3506 (8)
	105.55	2681	CGS	Straight End	4T-8091		107-3746 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
	105.55	2681	CGS	Angled End	1U-1896		107-3746 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)
	105.55	2681	CGS	ARM	9W-3482	107-3299		107-3298	9W-3481	0.98	1J-5607 (10)	2J-3507 (10)
938F, 938G	95.87	2435	CGS	Straight End	4T-8091		110-4782 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		110-4782 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH (mm)		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS				EDGE THICKNESS (mm)		BOLT	NUT
	(in)				(left end)	(center)	(right center)	(right end)	(in)			
938F, 938G (cont.)	105.9	2690	CGS	Straight End	4T-8091		107-3746 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		107-3746 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
	107.2	2723	CGS	ARM	9W-3481	107-3298		9W-3482	0.98	25	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8091		110-4711 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
939	85.0	2159	CGS	Angled End	1U-1896		110-4711 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	123-9195		9W-3482	0.98	25	1J-5607 (10)	2J-3507 (10)
	79.8	2027	CGS	Straight End	4T-8091		100-6359 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		100-6359 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
941, 951	93.7	2380	CGS	Straight End	4T-8091		1U-0605 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		1U-0605 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8091		1U-0295 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
				Angled End	1U-1896		1U-0295 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
943	82.1	2086	CGS	ARM	9W-3482	9W-3486		9W-3487	0.98	25	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8091		1U-0294 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
	87.0	2210	CGS	Angled End	1U-1896		1U-0294 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8091		1U-0293 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
944, 950	88.8	2256	CGS	Angled End	1U-1896		1U-0293 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8091		4T-9563 (2)	4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)
	94.96	2412	CGS	Angled End	1U-1896		4T-9563 (2)	1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)
				Straight End	4T-8101		1U-2414 (2)	4T-8101	1.18	30	4F-4042 (12)	2J-3507 (12)
950	95.2	2419	CGS	Angled End	1U-1898		1U-2414 (2)	1U-1898	1.38	35	4F-4042 (12)	2J-3507 (12)
				Heavy Duty	132-1033		132-1030 (2)	132-1033	1.38	35	4F-4042 (12)	2J-3507 (12)
	102.95	2615	GP	Straight End	4T-8101		1U-2414 (2)	4T-8101	1.18	30	4F-4042 (12)	2J-3507 (12)
				Angled End	1U-1898		1U-2412 (2)	1U-1898	1.38	35	4F-4042 (12)	2J-3507 (12)
950	103.3	2624	CGS	ARM	9W-3489	9W-3491		9W-3490	0.98	25	4F-4042 (12)	2J-3507 (12)
				Heavy Duty	132-1033		132-1031 (2)	132-1033	1.38	35	4F-4042 (12)	2J-3507 (12)
				Straight End	4T-8101		1U-2412 (2)	4T-8101	1.18	30	4F-4042 (12)	2J-3507 (12)
				Angled End	1U-1898		1U-2412 (2)	1U-1898	1.38	35	4F-4042 (12)	2J-3507 (12)
950	104.3	2648	CGS	Heavy Duty	132-1033		132-1031 (2)	132-1033	1.38	35	4F-4042 (12)	2J-3507 (12)
				ARM	9W-3488	9W-3490		9W-3491	0.98	25	4F-4042 (12)	2J-3507 (12)
				Straight End	4T-8101		1U-2413 (2)	4T-8101	1.18	30	4F-4042 (12)	2J-3507 (12)
				Angled End	1U-1898		1U-2413 (2)	1U-1898	1.38	35	4F-4042 (12)	2J-3507 (12)
950				Heavy Duty	132-1033		132-1032 (2)	132-1033	1.38	35	4F-4042 (12)	2J-3507 (12)
				ARM	9W-3488	9W-3490		9W-3491	0.98	25	4F-4042 (12)	2J-3507 (12)
				Straight End	4T-8101		1U-2413 (2)	4T-8101	1.18	30	4F-4042 (12)	2J-3507 (12)
				Angled End	1U-1898		1U-2413 (2)	1U-1898	1.38	35	4F-4042 (12)	2J-3507 (12)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS				EDGE THICKNESS		BOLT	NUT	WASHER
	(in)	(mm)			(left end)	(left center)	(center)	(right center)	(right end)	(in)			
950, 960 BEF, 950B, 950E, 950F	111.0	2819	Spade	Standard	7T-5964	7T-5961	7T-5962	7T-5963	7T-5960	1.18	8T-9079 (18)	3K-9770 (18)	4K-0684 (18)
			CGS	Angled End	1U-1898		1U-0601 (2)		4T-8101	1.38	4F-4042 (12)	2J-3507 (12)	
				Straight End	4T-8101		1U-0601 (2)		1U-1898	1.18	4F-4042 (12)	2J-3507 (12)	
				Heavy Duty	132-1033		132-1034 (2)		132-1033	1.38	4F-4042 (12)	2J-3507 (12)	
				ARM	9W-3488	9W-3493		9W-3492	9W-3489	0.98	4F-4042 (12)	2J-3507 (12)	
950G, 962G	115.5	2934	CGS	Straight End	4T-8101		139-9230 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
				Angled End	1U-1898		139-9230 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	
				Heavy Duty	132-1033		135-9666 (2)		132-1033	1.38	4F-4042 (12)	2J-3507 (12)	
	117.0	2973	Spade	Standard	109-9016	7T-5961	132-1089	7T-5963	109-9017	1.18	8T-9079 (18)	3K-9770 (18)	
	119.49	3035	CGS	Straight End	3G-6395		1U-0593 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)	
953				Angled End	1U-1897		1U-0593 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)	
				ARM End	208-5343		1U-0593 (2)		208-5343	1.38	5P-8823 (12)	3K-9770 (12)	
				ARM	123-0337	9W-3478		9W-3477	123-0336	1.38	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	100-4044		100-4046 (2)		100-4044	1.57	5P-8823 (12)	3K-9770 (12)	
	87.0	2210	CGS	Straight End	4T-8091		1U-0293 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)	
955				Angled End	1U-1896		1U-0293 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)	
				Straight End	4T-8091		1U-0295 (2)		4T-8091	0.98	1J-5607 (10)	2J-3507 (10)	
	93.6	2377	CGS	Angled End	1U-1896		1U-0295 (2)		1U-1896	1.18	1J-5607 (10)	2J-3507 (10)	
				ARM	9W-3482	9W-3486		9W-3487	9W-3481	0.98	1J-5607 (10)	2J-3507 (10)	
	88.4	2245	CGS	Straight End	4T-8101		1U-2410 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
960F				Angled End	1U-1898		1U-2410 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	
			GP	Straight End	1U-1471		1U-2411 (2)		1U-1471	1.18	1J-5607 (8)	2J-3507 (8)	
	88.50	2248	CGS	Straight End	4T-8101		1U-2411 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
	96.0	2438	CGS	Angled End	1U-1898		1U-2411 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	
	96.0	2438	CGS	Straight End	4T-8101		1U-0601 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
963	108.0	2743	CGS	Angled End	1U-1898		1U-0601 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	
				Heavy Duty	132-1033		132-1034 (2)		132-1033	1.38	4F-4042 (12)	2J-3507 (12)	
				ARM	9W-3488	9W-3493		9W-3492	9W-3489	0.98	4F-4042 (12)	2J-3507 (12)	
	110.83	2815	Spade	Standard	7T-5964	7T-5961	7T-5962	7T-5963	7T-5960	1.18	8T-9679 (18)	3K-9770 (18)	
	119.3	3032	CGS	Straight End	3G-6395		1U-0593 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)	
963				Angled End	1U-1897		1U-0593 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	100-4044		100-4046 (2)		100-4044	1.57	5P-8823 (12)	3K-9770 (12)	
				ARM	123-0336	9W-3478		9W-3477	123-0337	1.38	5P-8823 (12)	3K-9770 (12)	
	89.6	2276	CGS	Angled End	1U-1898		1U-0599 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	
				Straight End	4T-8101		1U-0599 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
963	97.4	2474	CGS	Straight End	4T-8101		1U-0600 (2)		4T-8101	1.18	4F-4042 (12)	2J-3507 (12)	
				Angled End	1U-1898		1U-0600 (2)		1U-1898	1.38	4F-4042 (12)	2J-3507 (12)	

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH (in) (mm)		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS						EDGE THICKNESS (in) (mm)		BOLT	NUT
	(left end)	(left center)			(center)	(right center)	(right end)	(in)	(mm)					
963 (cont.)	98.7	2507	CGS	Angled End	1U-1897		8E-5793 (2)		1U-1897	1.38	35	6V-6535 (12)	3K-9770 (12)	
				Straight End	3G-6395		8E-5793 (2)		3G-6395	1.38	35	6V-6535 (12)	3K-9770 (12)	
	112.0	2845	CGS	Straight End	3G-6395		1U-2406 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-1897		1U-2406 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	100-4044		100-4045 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
966D	112.1	2848	CGS	ARM	123-0336	9W-3480			123-0337	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Straight End	3G-6395		1U-2407 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
	115.0	2920	CGS	Angled End	1U-1897		1U-2407 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Straight End	3G-6395		1U-1909 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-1897		1U-1909 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
966D, 966E, 966F	119.4	3032	CGS	Heavy Duty	100-4044		135-9532 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
				ARM	123-0336	107-3282		107-3283	123-0337	1.38	35	5P-8823 (12)	3K-9770 (12)	
	121.5	3086	Spade	Straight End	3G-6395		1U-0593 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-1897		1U-0593 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	100-4044		100-4046 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
966G, 972G	124.0	3150	CGS	ARM	123-0336	9W-3478			123-0337	1.37	35	5P-8823 (12)	3K-9770 (12)	
				Standard	4T-9127	4T-9125	4T-9185		4T-9126	4T-9128	1.18	30	6V-6535 (16)	3K-9770 (16)
	130.4	3311	CGS	Straight End	3G-6395		1U-0593 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-1897		1U-0593 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	167-7430		100-4046 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
970F	130.0	3306	Spade	ARM	123-0336	107-3286			123-0336	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Standard	135-8242	135-8244	135-8240		135-8243	135-8241	1.38	35	6V-6535 (18)	3K-9770 (18)
	115.5	2934	CGS	Straight End	3G-6395		1U-1909 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-1897		1U-1909 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	100-4044		100-4046 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
970F	119.7	3040	CGS	ARM	123-0336	107-3282			123-0337	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Straight End	3G-6395		1U-0593 (2)		3G-6395	1.38	35	5P-8823 (12)	3K-9770 (12)	
	126.0	3200	CGS	Angled End	1U-1897		1U-0593 (2)		1U-1897	1.38	35	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty	167-7430		100-4046 (2)		100-4044	1.57	40	5P-8823 (12)	3K-9770 (12)	
				ARM	123-0336	9W-3478		9W-3477	123-0337	1.38	35	5P-8823 (12)	3K-9770 (12)	

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS				EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(left end)	(left center)	(center)	(right center)	(right end)	(in)		
970F (cont.)				ARM	123-0336	107-3286		107-3287	123-0337	1.38	5P-8823 (12)	3K-9770 (12)
	102.8	2610	CGS	Straight End	3G-6395		1U-0591 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)
				Angled End	1U-1897		1U-0591 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)
	106.5	2705	Spade	Standard	9W-3677		9W-3676		9W-3678	1.77	6V-6535 (12)	3K-9770 (12)
	106.7	2710	CGS	Straight End	3G-6395		9W-8334 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)
977				Angled End	1U-1897		9W-8334 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)
	112.1	2847	CGS	Straight End	3G-6395		1U-2406 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)
				Angled End	1U-1897		1U-2406 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)
	96.0	2438	CGS	Straight End	3G-6395		1U-2408 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)
	112.8	2864	CGS	Angled End	1U-1897		1U-2408 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)
980A, 980B				Straight End	3G-6395		1U-2409 (2)		3G-6395	1.38	5P-8823 (12)	3K-9770 (12)
	128.74	3270	Straight	Angled End	1U-1897		1U-2409 (2)		1U-1897	1.38	5P-8823 (12)	3K-9770 (12)
				ARM	4T-6592		4T-6594		4T-6592	1.38	4J-9208 (16)	2J-3507 (16)
				Heavy Duty	217-4851		217-4852		217-4851	1.38	4J-9208 (16)	2J-3507 (16)
	128.8	3270	CGS	Straight End	107-8577		107-8578		107-8577	1.77	4J-9208 (16)	2J-3507 (16)
980C, 980F, 980G				Angled End	1U-0761		4T-5273 (2)		1U-0761	1.57	5P-8823 (12)	3K-9770 (12)
	130.8	3323	CGS	Straight End	1U-0764		4T-5273 (2)		1U-0764	1.57	5P-8823 (12)	3K-9770 (12)
				Angled End	1U-0761		1U-0762 (2)		1U-0761	1.57	5P-8823 (12)	3K-9770 (12)
				Heavy Duty	1U-0764		1U-0762 (2)		1U-0764	1.57	5P-8823 (12)	3K-9770 (12)
	132.5	3366	Spade	ARM	100-4043		100-4047 (2)		100-4043	1.77	5P-8823 (12)	3K-9770 (12)
				ARM	123-0334	6Y-3271		6Y-3271	123-0335	1.38	5P-8823 (12)	3K-9770 (12)
	134.1	3406	CGS	ARM-Reversible	208-5177		208-5344 (2)		208-5177	1.57	5P-8823 (12)	3K-9770 (12)
				Half Arrow	217-4726	217-4725	217-4725	217-4725	217-4726	1.89	5P-8823 (18)	3K-9770 (18)
				Half Arrow ARM	229-6526	236-7033	236-7033	236-7033	229-6526	1.89	5P-8823 (18)	3K-9770 (18)
	132.5	3366	Spade	Standard	4T-7143	4T-7145	4T-7141	4T-7144	4T-7142	1.38	8T-9079 (18)	3K-9770 (18)
				Heavy Duty	107-8588	107-8590	107-8586	107-8589	107-8587	1.77	8T-9079 (18)	3K-9770 (18)
	134.1	3406	CGS	Straight End	1U-0761		109-9212 (2)		1U-0761	1.57	5P-8823 (12)	3K-9770 (12)
				Angled End	1U-0764		109-9212 (2)		1U-0764	1.57	5P-8823 (12)	3K-9770 (12)
				Heavy Duty	100-4043		109-9230 (2)		100-4043	1.77	5P-8823 (12)	3K-9770 (12)
				ARM	123-0334	109-9214		109-9214	123-0335	1.38	5P-8823 (12)	3K-9770 (12)
				ARM-Reversible	208-5177		208-5178 (2)		208-5177	1.57	5P-8823 (12)	3K-9770 (12)
				Half Arrow	217-4726	217-4727	217-4727	217-4727	217-4726	1.89	5P-8823 (18)	5P-8823 (18)
				Half Arrow ARM	229-6526	236-7036	236-7036	236-7036	229-6526	1.89	5P-8823 (18)	5P-8823 (18)
	137.5	3493	Spade	Standard	109-9125	109-9124	109-9123	109-9122	109-9121	1.38	6V-6535 (25)	3K-9770 (25)
	142.01	3607	Straight	Straight End	4T-6588		4T-6588		4T-6588	1.38	8J-2928 (18)	2J-3507 (18)
	143.50	3645	Spade	Standard	9W-5735	9W-5736	9W-5733	9W-5731	9W-5732	1.38	6V-6535 (25)	3K-9770 (25)
	143.50	3645	Spade	Heavy Duty	106-1095	106-1094	106-1096	106-1098	106-1097	1.77	6V-6535 (25)	3K-9770 (25)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH (in) (mm)		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS						EDGE THICKNESS (in) (mm)		BOLT	NUT	WASHER
					(left end)	(left center)	(center)	(right center)	(right mid)	(right end)					
980C, 980F, 980G (cont.)	143.50	3645	Spade	ARM	208-5282	208-5281	208-5283	208-5286		208-5285	1.38	35	6V-6535 (25)	3K-9770 (25)	
	150.00	3810	Straight	Straight End	1U-0761		4T-6589 (2)			1U-0761	1.57	40	8J-2928 (16)	2J-3507 (16)	
988B				Angled End	1U-0764		4T-6589 (2)			1U-0764	1.57	40	8J-2928 (16)	2J-3507 (16)	
	140.2	3561	CGS	Straight End	1U-0761		9W-1375 (2)			1U-0761	1.57	40	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-0764		9W-1375 (2)			1U-0764	1.57	40	5P-8823 (12)	3K-9770 (12)	
				ARM	123-0334	109-2697		109-2697		123-0335	1.38	35	5P-8823 (12)	3K-9770 (12)	
988F	143.5	3645	Straight	Standard			4T-6588 (3)				1.38	35	4J-9058 (18)	2J-3507 (18)	
	143.5	3645	Spade	Standard	9W-5732	9W-5731	9W-5733	9W-5736		9W-5735	1.38	35	6V-6535 (25)	3K-9770 (25)	
				Heavy Duty	106-1097	106-1098	106-1096	106-1094		106-1095	1.77	45	5P-8823 (25)	3K-9770 (25)	
	143.5	3645	Straight	Standard	9W-8249		9W-8250			9W-8249	1.38	35	6V-6535 (11)	3K-9770 (11)	
	145.5	3696	CGS	Straight End	1U-0761		104-5841 (2)			1U-0761	1.57	40	5P-8823 (12)	3K-9770 (12)	
				Angled End	1U-0764		104-5841 (2)			1U-0764	1.57	40	5P-8823 (12)	3K-9770 (12)	
				Heavy Duty			183-5325 (2)				1.57	40			
				ARM	123-0334	132-1070		132-1069		123-0335	1.38	35	5P-8823 (12)	3K-9770 (12)	
	148.5	3772	Spade	Standard	101-9352		101-9350			101-9351	1.57	40	6V-6535 (21)	3K-9770 (21)	
				Heavy Duty	107-3544		107-3540			107-3543	1.97	50	6V-6535 (21)	3K-9770 (21)	
990				ARM	136-6794		136-6790			136-6793	1.97	50	6V-6535 (21)	3K-9770 (21)	
	148.5	3772	Straight	Standard	102-2184		101-9350			102-2184	1.57	40	6V-6535 (21)	3K-9770 (21)	
				Heavy Duty	107-3541		107-3540			107-3541	1.97	50	6V-6535 (21)	3K-9770 (21)	
				ARM	132-1067		132-1068			132-1067	1.57	40	6V-6535 (21)	3K-9770 (21)	
	156.06	3964	Spade	Standard	9W-5732	9W-5731	9W-5733	9W-5734	9W-5736	9W-5735	1.38	35	6V6535 (28)	3K9770 (28)	
992C, 992D, 992G	175.5	4458	Spade	Heavy Duty	106-1095	106-1094	106-1096	107-3490	106-1098	106-1097	1.77	45	6V6535 (28)	3K9770 (28)	
	175.2	4450	Straight	Standard	162-3296	106-6423	106-6420	106-6421		162-3297	1.57	40	6V-6535 (28)	3K-9770 (28)	
	187.0	4750	Spade	Standard	106-6378		106-6377 (2)			106-6378	1.57	40	6V-6535 (26)	3K-9770 (26)	
				Standard	6I-8368	6I-8367	6I-8364	6I-8365		127-7431	1.57	40	5P-8823 (28)	3K-9770 (28)	
IT12	84.65	2150	Straight	Heavy Duty	127-7430	127-7432	127-7429	127-7433		127-7431	1.97	50	5P-8823 (28)	3K-9770 (28)	
				Heavy Duty		195-7134		195-7133			0.98	25	4F-7827 (7)	2J-3506 (7)	
IT14G	85.1	2162	CGS	Straight End	4T-2914		4T-2913			4T-2914	0.75	19	4F-7827 (7)	2J-3506 (7)	
	93.1	2365	CGS	Straight End	4T-2914		9W-8620			4T-2914	0.75	19	4F-7827 (8)	2J-3506 (8)	
IT18, IT28	93.15	2366	Straight	Heavy Duty			195-7137 (2)				0.98	25	4F-7827 (7)	2J-3506 (7)	
	93.6	2377	CGS	Straight End	4T-8091		1U-0295 (2)			4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)	
				Angled End	1U-1896		1U-0295 (2)			1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)	
IT24F, IT28F				ARM	9W-3481	9W-3486		9W-3487		9W-3482	0.98	25	1J-5607 (10)	2J-3507 (10)	
	99.37	2524	Straight	ARM	9W-3482	135-6729		135-6728		9W-3481	0.98	25	1J-5607 (10)	2J-3507 (10)	
IT38G	99.5	2527	CGS	Straight End	4T-8091		8E-4567 (2)			4T-8091	0.98	25	1J-5607 (10)	2J-3507 (10)	
				Angled End	1U-1896		8E-4567 (2)			1U-1896	1.18	30	1J-5607 (10)	2J-3507 (10)	
	104.2	2647	CGS	Straight End	4T-8091		1U-0292 (2)			4T-8091	0.98	25	1J-5607 (12)	2J-3507 (10)	

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Edges

MODEL	BUCKET WIDTH		BUCKET TYPE	EDGE TYPE	BOLT-ON EDGE PART NUMBERS					EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(left end)	(left center)	(center)	(right center)	(right end)	(in)	(mm)		
IT38G	104.2	2647	CGS	Angled End	1U-1896		1U-0292 (2)		1U-1896	1.18	30	1-J-5607 (10)	2J-3507 (10)
				ARM	9W-3481	9W-3484		9W-3485	9W-3482	0.98	25	1-J-5607 (10)	2J-3507 (10)

Number in parentheses () after the part number indicates the quantity required.

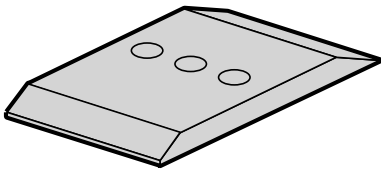
Ground Engaging Tools – Loader Segments

Bolt-On Segments

Bolt-on segments bolt directly to the bottom of the base edge between adapters.

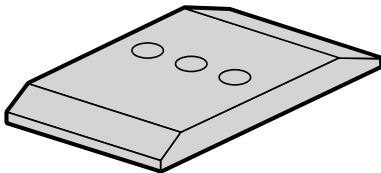
Bolt-on segments:

- Increase bucket capacity.
- Maintain a smoother work surface.
- Protect the base edge between teeth, eliminating scalloping.
- Increase base edge life up to five times.
- Hardened to 430-520 Brinell.



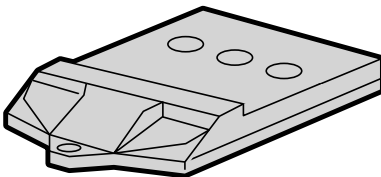
Standard Bolt-On Segments

- Reversible for a second wear life.



Heavy Duty Bolt-On Segments

- Provides at least 50% more wear material than standard bolt-on segments.
- Reversible for a second wear life.



Half-Arrow Bolt-On Segments

- Stay sharper and enhance protection of the base edge front and bevel.
- Protects against scalloping of the base edge between adapters.
- Protects against scalloping of the segment.
- Match bottom strap thickness of the shouldered adapters.

Ground Engaging Tools – Loader Segments

MODEL	BUCKET WIDTH		BUCKET TYPE	SEGMENT TYPE	BOLT-ON SEGMENT PART NUMBER			EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(lh)	(ctr)	(rh)	(in)	(mm)		
910, 914G	85.1	2162	CGS	Standard		128-2873 (6)		0.75	19	4F-7827 (12)	2J-3506 (12)
	89.5	2273	CGS	Standard	128-2872 (2)	128-2873 (2)	128-2872 (2)	0.75	19	4F-7827 (12)	2J-3506 (12)
	94.0	2388	CGS	Standard		128-2873 (7)		0.75	19	4F-7827 (14)	2J-3506 (14)
916, 924F, 926	93.6	2378	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
				Heavy Duty		132-1035 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
	99.37	2524	CGS	Standard		8E-4569 (7)				1J-5607 (14)	2J-3507 (14)
920, 930	94.80	2408	CGS	Heavy Duty	132-1036	132-1035 (5)	132-1036	1.38	35	4F-4042 (14)	2J-3507 (14)
	95.3	2421	CGS	Standard	4T-6693	4T-6694 (5)	4T-6693	0.98	25	1J-5607 (14)	2J-3507 (14)
	99.37	2524	CGS	Standard		8E-4569 (7)				1J-5607 (14)	2J-3507 (14)
928	93.6	2377	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
				Heavy Duty		132-1035 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
	99.7	2532	CGS	Standard		8E-4569 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
928F, 928G, 924G	76.77	1950	CGS	Standard		6Y-6362 (7)		0.75	19	4F-7827 (14)	2J-3506 (14)
931, 933, 935	77.5	1969	CGS	Standard		6Y-6362 (7)		0.75	19	4F-7827 (14)	2J-3506 (14)
	95.87	2435	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
				Heavy Duty		132-1035 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
936, 936E, 936F, 938F, 938G	104.2	2647	CGS	Standard		4T-6695 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
				Heavy Duty		132-1037 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
	85.0	2159	CGS	Standard		4T-6692 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
939	79.8	2027	CGS	Standard		4T-6691 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
941, 951	93.7	2380	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
				Heavy Duty		132-1035 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
	82.1	2086	CGS	Standard		4T-6691 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
943	87.0	2210	CGS	Standard		4T-6692 (7)		1.98	50	1J-5607 (14)	2J-3507 (14)
	88.8	2256	CGS	Standard	4T-6693	4T-6692 (5)	4T-6693	0.98	25	1J-5607 (14)	2J-3507 (14)
	95.2	2419	CGS	Standard	4T-6693	4T-6694 (5)	4T-6693	0.98	25	1J-5607 (14)	2J-3507 (14)
944, 950				Heavy Duty	132-1036	132-1035 (5)	132-1036	1.38	35	1J-5607 (14)	2J-3507 (14)
	111.0	2819	Spade	Standard	4T-9124 (3)	4T-3015	4T-9123 (3)	1.18	30	8T-9079 (21)	3K-9770 (21)
	180.0	2744	CGS	Heavy Duty	140-6864 (3)	140-6862	140-6863 (3)	1.38	35	8T-9079 (21)	3K-9770 (21)
950B, 950E, 950F				Standard		4T-6695 (7)		0.98	25	4F-4042 (14)	2J-3507 (14)
				Heavy Duty		132-1037 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
	113.62	2886	CGS	Heavy Duty	257-1762	132-4715 (5)	257-1762	1.38	35	4F-4042 (14)	2J-3507 (14)
950G, 962G											K-Series Only
	115.5	2934	CGS	Standard		132-4715 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
	119.49	3035	CGS	Standard		4T-6699 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
950G, 962G				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4114 (7)				5P-8823 (14)	3K-9770 (14)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Segments

MODEL	BUCKET WIDTH		BUCKET TYPE	SEGMENT TYPE	BOLT-ON SEGMENT PART NUMBER			EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(lh)	(ctr)	(rh)	(in)	(mm)		
953	87.0	2210	CGS	Standard		4T-6692 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
	93.6	2377	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
	95.87	2435	CGS	Heavy Duty		132-1035 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
				Standard		4T-6694 (7)		0.98	25	4F-4042 (14)	2J-3507 (14)
955	88.4	2245	CGS	Standard		4T-6692 (7)		0.98	25	4F-4042 (14)	2J-3507 (14)
960F	108.0	2743	CGS	Standard		4T-6695 (7)		0.98	25	4F-4042 (14)	2J-3507 (14)
				Heavy Duty		132-1037 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
	119.4	3032	CGS	Standard		4T-6699 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4114 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
963	97.4	2474	CGS	Standard		4T-6694 (7)		0.98	25	4F-4042 (14)	2J-3507 (14)
				Heavy Duty		132-1035 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
	89.6	2276	CGS	Standard	4T-6693	4T-6692 (5)	4T-6693	0.98	25	4F-4042 (14)	2J-3507 (14)
963B	98.7	2507	CGS	Standard	4T-6697	4T-6696 (5)	4T-6697	1.18	30	5P-8823 (14)	3K-9770 (14)
	98.7	2507	CGS	Heavy Duty	140-6866	140-6865 (5)	140-6866	1.38	35	5P-8823 (14)	3K-9770 (14)
	112.0	2845	CGS	Standard		4T-6698 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
966C				Heavy Duty		140-6867 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
	119.4	3032	CGS	Standard		4T-6699 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4114 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
966F	121.46	3085	Spade	Heavy Duty	140-6863 (3)	140-6864 (3)	140-6864 (3)	1.38	35	6V-6535 (14)	3K-9770 (14)
	121.5	3086	Spade	Standard	4T-9124 (3)	4T-6697	4T-9123 (3)	1.18	30	6V-6535 (14)	3K-9770 (14)
				ARM	135-9649 (3)	135-9648	135-9647 (3)	1.18	30	6V-6535 (14)	3K-9770 (14)
966G, 972G	124.0	3150	CGS	Standard		4T-6697 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
	125.98	3200	CGS	Half Arrow		174-4116 (7)				5P-8823 (14)	3K-9770 (14)
970F	130.0	3306	Spade	Heavy Duty	135-9296 (3)	135-9294	135-9295 (3)	1.57	40	6V-6535 (14)	3K-9770 (14)
				Half Arrow	135-9546 (3)	135-9544	135-9545 (3)	2.80	71	6V-6535 (14)	3K-9770 (14)
	130.4	3311	CGS	Standard		100-6666 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6870 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
	115.5	2934	CGS	Standard		100-6664 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6869 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
	119.4	3032	CGS	Standard		4T-6699 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4114 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	126.0	3200	CGS	Standard		100-6666 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6870 (7)		14.38	365	5P-8823 (14)	3K-9770 (14)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Segments

MODEL	BUCKET WIDTH		BUCKET TYPE	SEGMENT TYPE	BOLT-ON SEGMENT PART NUMBER			EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(lh)	(ctr)	(rh)	(in)	(mm)		
970F (cont.)	126.0	3200	CGS	Half Arrow		174-4116 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	106.5	2705	Spade	Standard	4T-9124 (2)	4T-3015 (2)	4T-9123 (2)	1.18	30	6V-6535 (12)	3K-9770 (12)
973, 973C	102.8	2610	CGS	Standard		4T-6697 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6866 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				ARM		135-9648 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	112.1	2847	CGS	Standard		4T-6698 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6869 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
977	119.37	3032	CGS	Standard		4T-6699 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6868 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4114 (7)				5P-8823 (14)	3K-9770 (14)
	130.51	3315	CGS	Standard		4T-6700 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		107-8580 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
980A, 980B				Half Arrow		173-7447 (7)				5P-8823 (14)	3K-9770 (14)
	96.0	2438	CGS	Standard		4T-6696 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		140-6865 (7)		1.38	35	5P-8823 (14)	3K-9770 (14)
	128.8	3270	CGS	Standard		4T-6700 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		107-8580 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
980F				Half Arrow		173-7447 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	132.7	3371	Spade	Standard	4T-7140 (3)	4T-3015	4T-7139 (3)	1.18	30	6V-6535 (14)	3K-9770 (14)
				Heavy Duty	107-8584 (3)	107-8582	107-8583 (3)	1.77	45	6V-6535 (14)	3K-9770 (14)
				Half Arrow	113-3142 (3)	113-3140	113-3141 (3)	1.61	41	8T-9079 (14)	3K-9770 (14)
	130.8	3323	CGS	Standard		4T-6700		1.18	30	5P-8823 (14)	3K-9770 (14)
980G				Heavy Duty		107-8580 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Half Arrow		173-7447 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	134.0	3404	CGS	Standard		109-9019 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		135-8219 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Half Arrow		174-4115 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
988B	137.5	3493	Spade	Standard	9W-5730 (3)	9W-5734	9W-5737 (3)	1.38	35	8T-9079 (21)	3K-9770 (21)
				Heavy Duty	107-3492 (3)	107-3490	107-3491 (3)	1.77	45	8T-9079 (21)	3K-9770 (21)
				Half Arrow	116-7462 (3)	116-7460	116-7461 (3)	1.77	45	8T-9079 (21)	3K-9770 (21)
	140.2	3561	CGS	Standard		4T-6700 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
				Heavy Duty		107-8580 (7)		1.77	45	5P-8823 (14)	3K-9770 (14)
				Half Arrow		173-7447 (7)		1.18	30	5P-8823 (14)	3K-9770 (14)
	143.5	3645	Spade	Standard	9W-5730 (3)	9W-5734	9W-5737 (3)	1.38	35	6V-6535 (21)	3K-9770 (21)
				Heavy Duty	107-3492 (3)	107-3490	107-3491 (3)	1.77	45	6V-6535 (21)	3K-9770 (21)
				Half Arrow	116-7462 (3)	116-7460	116-7461 (3)	1.77	45	6V-6535 (21)	3K-9770 (21)
	143.5	3645	Straight	Standard		9W-5734 (7)		1.38	35	6V-6535 (21)	3K-9770 (21)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Segments

MODEL	BUCKET WIDTH		BUCKET TYPE	SEGMENT TYPE	BOLT-ON SEGMENT PART NUMBER			EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(lh)	(ctr)	(rh)	(in)	(mm)		
988B (cont.)	143.5	3645	Straight	Heavy Duty		107-3490 (7)		1.77	45	6V-6535 (21)	3K-9770 (21)
				Half Arrow		116-7460 (7)		1.77	45	6V-6535 (21)	3K-9770 (21)
988F, 988G, 988H	148.5	3772	CGS	Standard		138-6540 (7)		1.38	35	6V-6535 (14)	3K-9770 (14)
				Heavy Duty		183-5324 (7)		1.57	40	5P-8823 (14)	3K-9770 (14)
	148.5	3772	Spade	Standard	101-9437 (3)	101-9435	101-9436 (3)	1.57	40	6V-6535 (21)	3K-9770 (21)
				Heavy Duty	107-3538 (3)	107-3536	107-3537 (3)	1.77	45	6V-6535 (21)	3K-9770 (21)
990				Half Arrow	109-9082 (3)	109-9080	109-9081 (3)	1.77	45	6V-6535 (21)	3K-9770 (21)
				ARM	138-0866 (3)	138-0865	138-0867 (3)	1.57	40	6V-6535 (21)	3K-9770 (21)
	148.5	3772	Straight	Standard		101-9435 (7)		1.57	40	6V-6535 (21)	3K-9770 (21)
				Heavy Duty		107-3536 (7)		1.77	45	6V-6535 (21)	3K-9770 (21)
992C, 992D,				Half Arrow		109-9080 (7)		1.77	45	6V-6535 (21)	3K-9770 (21)
				ARM		138-0865 (7)		1.57	40	6V-6535 (21)	3K-9770 (21)
	175.5	4458	Spade	Light Duty	4T-6762 (3)	4T-6760	4T-6761 (3)	1.57	40	5P-8823 (28)	3K-9770 (28)
	175.5	4458	Straight	Light Duty		4T-6760 (7)		1.57	40	5P-8823 (28)	3K-9770 (28)
992G	187.0	4750	Spade	Standard	107-3532 (3)	107-3530	107-3531 (3)	1.97	50	5P-8823 (28)	3K-9770 (28)
				Heavy Duty	107-6296 (3)	107-6294	107-6295 (3)	2.36	60	5P-8823 (28)	3K-9770 (28)
	189.9	4823	Spade	Half Arrow	119-9602 (3)	119-9600	119-9601 (3)	2.36	60	5P-8823 (28)	3K-9770 (28)
				HD Half Arrow	109-2677 (3)	109-2675	109-2676 (3)	2.95	75	5P-8823 (28)	3K-9770 (28)
992C, 992D	187.0	4750	Straight	Standard		107-3530 (7)		1.97	50	5P-8823 (28)	3K-9770 (28)
				Heavy Duty		107-6294 (7)		2.36	60	5P-8823 (28)	3K-9770 (28)
				Half Arrow		119-9600 (7)		2.36	60	5P-8823 (28)	3K-9770 (28)
				HD Half Arrow		109-2675 (7)		2.95	75	5P-8823 (28)	3K-9770 (28)
994	222.0	5640	Spade	Standard	103-1835 (2)	103-1833 (3)	103-1834 (2)	2.95	75	5P-8823 (35)	3K-9770 (35)
				Half Arrow	109-9032 (2)	109-9030 (3)	109-9031 (2)	2.95	75		
	222.0	5640	Spade	Standard	103-1835 (3)	107-3383	103-1834 (3)	2.95	75	5P-8823 (35)	3K-9770 (35)
				Half Arrow	109-9032 (3)	109-9033	109-9031 (3)	2.95	75		
IT12				Standard	8E-3159 (3)	8E-3157 (2)	8E-3158 (3)	1.97	50	6V-8360 (40)	3K-9770 (40)
	245.0	6220	Spade	Standard	103-1835 (3)	103-1833 (2)	103-1834 (3)	2.95	75	5P-8823 (40)	3K-9770 (40)
				Half Arrow	109-9032 (3)	109-9030 (2)	109-9031 (3)	2.95	75	5P-8823 (40)	3K-9770 (40)
	222.0	5640	Straight	Standard		8E-3157 (7)		1.97	50	6V-6535 (35)	3K-9770 (35)
IT18, IT28	85.1	2162	CGS	Standard		128-2873 (6)		0.72	18	4F-7827 (12)	2J-3506 (12)
	89.13	2264	CGS	Standard	128-2872 (2)	128-2873 (2)	128-2872 (2)	0.71	18	4F-7827 (12)	2J-3506 (12)
				Heavy Duty		132-1037 (7)		1.38	35	4F-7827 (12)	2J-3506 (12)
	93.6	2377	CGS	Standard		4T-6694 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
IT24F, IT28F	99.5	2527	CGS	Heavy Duty		132-1035 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
				Standard		8E-4569 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)
IT38G	104.2	2647	CGS	Standard		4T-6695 (7)		0.98	25	1J-5607 (14)	2J-3507 (14)

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Segments

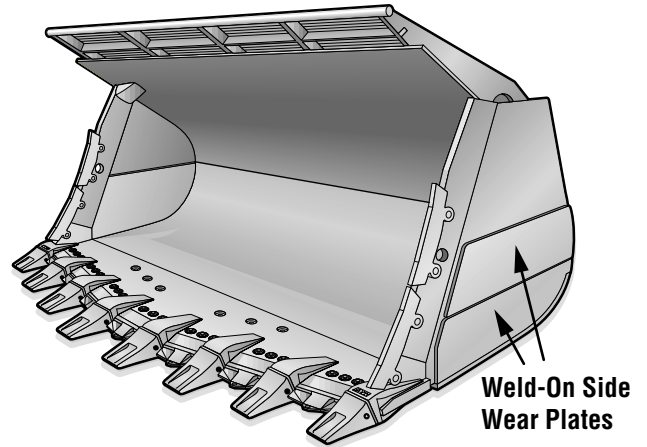
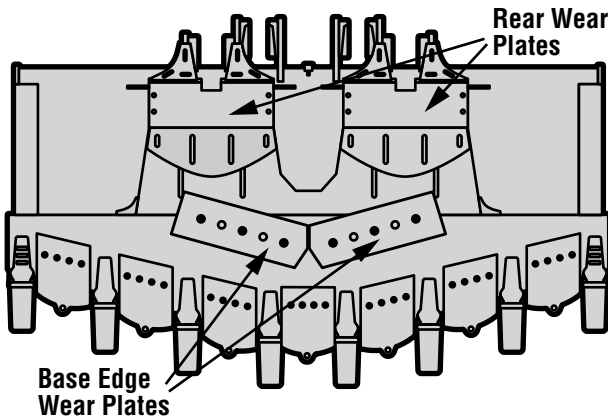
MODEL	BUCKET WIDTH		BUCKET TYPE	SEGMENT TYPE	BOLT-ON SEGMENT PART NUMBER			EDGE THICKNESS		BOLT	NUT
	(in)	(mm)			(lh)	(ctr)	(rh)	(in)	(mm)		
IT38G (cont.)	104.2	2647	CGS	Heavy Duty		132-1037 (7)		1.38	35	1J-5607 (14)	2J-3507 (14)
IT62G II	112.83	2866	CGS	Heavy Duty		132-4715 (7)		1.38	35	4F-4042 (14)	2J-3507 (14)
					257-1762	132-4715 (5)	257-1762	1.38	35	4F-4042 (14)	2J-3507 (14) K-Series Only

Number in parentheses () after the part number indicates the quantity required.

Ground Engaging Tools – Loader Wear Plates

Wear Plates

Wear plates offer enhanced protection to the base edge, bucket sides, and bucket rear.



Base Edge Wear Plates

- Covers the bottom area of the base edge not protected by segments.
- Extends base edge life.

Heavy Duty Base Edge Wear Plates

- Provides extended base edge life due to a thicker base edge wear plate.

Rear Wear Plates

- Extends life by protecting the rear of the bucket.

Ground Engaging Tools – Loader Wear Plates

Wear Plates

Heavy Duty Rear Wear Plates

- Extends life by protecting the rear of the bucket.
- Provides more protection than the standard rear wear plates.

Weld-On Rear Wear Plates

- Extends life by protecting the rear of the bucket.

Weld-On Side Wear Plates

- Protects against bucket side plate wear.

Ground Engaging Tools – Loader Wear Plates

MODEL	BUCKET WIDTH		WEAR PLATE TYPE	WEAR PLATE PART NUMBER			EDGE THICKNESS		BOLT	NUT	WASHER
	(in)	(mm)		(lh)	(ctr)	(rh)	(in)	(mm)			
938F, 938G			Weld-On Rear		9V-4484 (4)		0.63	16			
938G II	105.90	2690	Weld-on Rear		216-4320 (2)		0.47	12			
					217-2928 (2)		0.39	10			
					216-4320 (2)		0.47	12			
					216-5023 (2)		0.39	10			
					216-4320 (2)		0.47	12			
					216-5032 (2)		0.39	10			
944, 950 950B, E, F, G 950G II 955					257-3248 (2)		0.47	12			
					216-0220 (2)		0.39	10			
			Rear		9W-6747 (2)		0.98	25	4F-7827 (8)	2J-3506 (8)	5P-8248 (8)
			Rear		9W-6747 (2)		0.98	25	4F-7827 (8)	2J-3506 (8)	5P-8248 (8)
			Weld-on Rear		209-6660 (4)		0.47	12			
			Weld-On Rear		9V-6105 (2)		0.75	19			
960F, 962G 960F 962G II	108.0	2743	Rear		9W-6747 (2)		0.98	25	4F-7827 (8)	2J-3506 (8)	5P-8248 (8)
			Rear		9W-6747 (2)		0.98	25	4F-7827 (8)	2J-3506 (8)	5P-8248 (8)
			Weld-On		9V-2899 (4)		0.38	10			
			Weld-on Rear		150-6918		0.47	12			
					150-6903 (2)		0.79	20			
			Rear		9W-6748 (2)		0.98	25	4F-7827 (8)	2J-3506 (8)	5P-8248 (8)
963 966 966D, E, F 966G, 972G			Weld-On Rear		9V-6106 (2)		0.75	19	5P-8823 (14)	3K-9770 (14)	
			Rear		9W-6749 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Rear		161-8573 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Weld-on Rear		128-9623 (4)		0.39	10			
					218-2692 (2)		1.57	40			
			Rear		9W-6749 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
970F 970F 973 973C	119.49	3035	Weld-on Rear		8R-0319 (2)		0.87	22			
					104-5423 (2)		0.87	22			
			Rear		9W-6750 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Base Edge		225-9338 (6)		1.97	13			
			Weld on Rear		225-9339 (5)			13			
					204-0040 (3)		1.97	8			
	106.90	2714			204-0041			8			
					204-0042			8			
					204-2006			13			
					204-2007						
			Hinge Bracket		204-0043 (4)						

Number in parentheses () after the part number indicates the quantity required.

** Use with half arrow segments.

Ground Engaging Tools – Loader Wear Plates

MODEL	BUCKET WIDTH		WEAR PLATE TYPE	WEAR PLATE PART NUMBER			EDGE THICKNESS		BOLT	NUT	WASHER
				(lh)	(ctr)	(rh)	(in)	(mm)			
973C (cont.)	106.90	2714	Side	204-0023		204-0021		20			
			Base Edge	204-0039	204-0037 (3)	204-0038	1.97	50			
			Weld-on Rear		7V-0910 (2)		1.57	40			
977			Weld-On Rear		9V-6106 (2)		0.75	19	5P-8823 (14)	3K-9770 (14)	
			Rear		9V-6109 (2)		0.75	19	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
					7V-0910 (2)		1.57	40	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
980F, G			Rear		9W-6750 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
					109-9215 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Base Edge		4T-2986 (2)		2.01	25	4J-9208 (6)	2J-3507 (6)	5P-8250 (6)
980G, 980H	137.50	3492	Heavy Duty Rear		109-9215 (2)		1.38	35	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Rear		113-0349 (2)		2.01	20	5J-4773 (8)	2J-3506 (8)	5P-8248 (8)
			Liner-flat		134-1754						
	140.5-137.5	3568-3492	Liner-Curved		134-1755 (3)						
			Skid Plate		134-1759 (2)						
			Hinge Bracket Plate		134-1756 (4)						
			Out Side Lower Plate		134-1758 (2)						
			Out Side Upper Plate		134-1757 (2)						
			Inner Side		134-1752 (2)						
	150 - 142	3810-3607	Weld-on Rear		194-0688 (2)		0.98	25			
			Weld-On Bottom Outer		197-6081 (2)		0.79	20			
			Weld-On Bottom Mid		197-6080 (2)		0.79	20			
	134.06	3405	Weld-on Rear		238-9709 (2)		1.18	30			
			Weld-On Bottom Outer		216-7202 (4)		0.79	20			
			Weld-On Bottom Mid		216-7198 (2)		0.79	20			
			Hinge Bracket Plate		134-1756 (4)						
			Out Side Lower Plate		202-8669 (2)		0.63	16			
			Out Side Upper Plate		202-8668 (2)		0.31	8			
			Inner Side		202-8667 (2)		0.31	8			
			Liner-flat		202-8670		0.47	12			
			Liner-Curved		202-8672 (3)		0.47	12			
			Skid Plate		202-8672		0.79	20			
			Base Edge	1U-4929		1U-4929	1.38	35	4F-4042 (6)	2J-3507 (6)	5P-8250 (6)
			Base Edge**	7T-9127**		7T-9127**	1.38	35	4F-4042 (6)	2J-3507 (6)	5P-8250 (6)
988B, 988F 988G, 988H	143.5 148.5	3645 3772	Rear		9V-5793 (2)		0.98	25	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Heavy Duty Rear		6Y-3609 (2)		1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			HEX Bolt Rear		132-4713 (2)		0.98	25	1D-4709 (8)	2J-3507 (8)	5P-8250 (8)

Number in parentheses () after the part number indicates the quantity required.

** Use with half arrow segments.

Ground Engaging Tools – Loader Wear Plates

MODEL	BUCKET WIDTH		WEAR PLATE TYPE	WEAR PLATE PART NUMBER			EDGE THICKNESS		BOLT	NUT	WASHER
				(lh)	(ctr)	(rh)	(in)	(mm)			
988G	145.2	3687	Weld-On Rear	190-9793	136-6205	190-9793	1.57	40			
			Intermediate	190-9794		190-9794	0.98	25			
	149.6	3800	Weld-On Rear	136-6204	136-6205	136-6204	0.98	25			
			Intermediate	154-6367		154-6367	0.98	25			
988G, 988H			Weld-on Rear		255-6712		0.79	20			
					255-6711		0.63	16			
			Heavy Duty Rear		136-6204 (2)		1.57	40			
			Top Wear Plates	195-7098 (2)	195-7096 (2)	195-7097 (2)			5P-8361 (24)	5P-8362 (24)	
	150.00	3862	Base Edge Wear		4T-6617				4J-4042 (4)	2J-3507 (4)	5P-8250 (4)
			Liner-flat		240-0285						
			Liner-Curved		240-0284 (3)						
			Skid Plate (RH)		257-3661						
			Skid Plate (LH)		257-3662						
			Out Side Lower Plate		257-3660 (2)						
			Out Side Upper Plate		240-7983 (2)						
			Inner Side		240-0286 (2)						
	154.60	3926	Base Edge Wear		4T-6540 (2)		1.38	35	4J-9058 (12)	2J-3507 (12)	5P-8250 (12)
			Rear Wear		236-4674						
					236-4675						
					236-4676						
990	156.70	3980	Weld-on Rear		234-6230 (2)		0.98	25			
			Weld-on Rear		234-6231		0.98	25			
	175.20	4450	Base Edge		1U-4933 (2)				4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
			Outer Lower Plates		4E-9889 (2)						
	175.5	4458	Base Edge	1U-4929		1U-4929	1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Base Edge**	6Y-0312**		6Y-0311**	1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Heavy Duty Rear		6Y-3573 (2)		1.38	35	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
			Top Wear Plates (K-Series)	229-7047 (2)	229-7045 (2)	229-7046 (2)				5P-8362 (24)	
	180.10	4574	Base Edge		9U-9862 (2)				5P-8138 (12)	2J-3507 (12)	5P-8250 (12)
			Liner-flat		2Q-3647						
			Liner-Curved		2Q-7065 (3)						
			Skid Plate (RH)		2Q-7063						
			Skid Plate (LH)		2Q-7063						
			Out Side Lower Plate		2Q-7071 (2)						
			Out Side Upper Plate		2Q-7042 (2)						

Number in parentheses () after the part number indicates the quantity required.

** Use with half arrow segments.

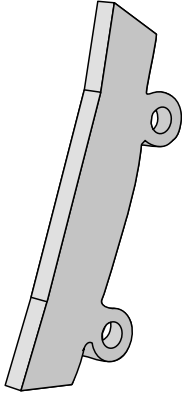
Ground Engaging Tools – Loader Wear Plates

MODEL	BUCKET WIDTH		WEAR PLATE TYPE	WEAR PLATE PART NUMBER			EDGE THICKNESS		BOLT	NUT	WASHER
				(lh)	(ctr)	(rh)	(in)	(mm)			
990 (cont.)	180.10	4574	Inner Side		2Q-3645						
			Hinge Bracket		2Q-7064 (4)						
992C, 992D	187.0	4750	Base Edge	1U-4933		1U-4933	1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Base Edge**	6Y-0312**		6Y-0311**	1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Rear				1.38	35	4J-9058 (8)	2J-3507 (8)	5P-8250 (8)
			Heavy Duty Rear		6W-0276 (2)		1.77	45	4J-9208 (8)	2J-3507 (8)	5P-8250 (8)
			HEX Bolt Rear		6Y-3610 (2)		1.77	45	1D-4637 (8)	2J-3507 (8)	5P-8250 (8)
			Base Edge	1U-4933		1U-4933	1.38	35	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
992G	189.9	4823	Base Edge**	6Y-0312**		6Y-0311**	1.38	35	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			Weld-On Rear	115-1548	115-1549	115-1548	1.38	35	4J-9058 (6)	2J-3507 (6)	5P-8250 (6)
			Base Edge	100-6356	100-6357	100-6356	1.77	45	4J-9058 (12)	2J-3507 (12)	5P-8250 (12)
			Weld-On Rear	115-1548	115-1549	115-1548	1.57	40			
			Weld-On Side		112-8998		0.47	12			
			Base Edge		103-1833 (3)		2.95	75	5P-8823 (9)	3K-9770 (9)	
994	222.0	5640	Heavy Duty Rear		8E-3160 (2)		2.36	60	6V-8360 (8)	3K-9770 (8)	4K-0684 (8)
			Rear		100-4015 (2)		2.95	75	6V-8360 (8)	3K-9770 (8)	4K-0684 (8)
			HEX Bolt Rear		132-4714 (2)		2.95	75	1S-6560 (8)	3K-9770 (8)	4K-0684 (8)
			Weld-On Rear	2A-6724 (2)		2A-6724 (2)	0.79	20			
			Base Edge	103-1835	103-1833	103-1834	2.95	75	5P-8823 (1)	3K-9770 (1)	
			Heavy Duty Rear		8E-3160 (2)		2.36	60	6V-8360 (8)	3K-9770 (8)	4K-0684 (8)
			Rear		100-4015 (2)		2.95	75	6V-8060 (8)	3K-9770 (8)	4K-0684 (8)
			HEX Bolt Rear		132-4714 (2)		2.95	75	1S-6560 (8)	3K-9770 (8)	4K-0684 (8)
			Weld-On Rear	2A-6724 (2)		2A-6724 (2)	0.79	20			

Number in parentheses () after the part number indicates the quantity required.

** Use with half arrow segments.

Ground Engaging Tools – Loader Sidebar Protectors



Sidebar Protectors

- Protects the bucket sides.

MODEL	BUCKET TYPE	SIDEBAR PROTECTOR	PIN	RETAINER ASSEMBLY
980F, 980G	Rock	135-8246 (2)	135-9292 (4)	114-0359 (4)
988B, F, G	Rock	9J-9600 (2)	135-9350 (4)	114-0359 (4)
990, 992C, D, 992G	Rock	1U-0740 (2)	133-0738 (4)	107-8559 (4)
966G	Rock	135-8246 (4)	135-9292 (8)	114-0359 (8)
972G	Rock	135-8246 (4)	135-9292 (8)	114-0359 (8)



Bucket Corner Protector

TIP SIZE	CORNER PROTECTOR PART NUMBER		BOLT	NUT
	LEFT HAND	RIGHT HAND		
J250	253-0061	253-0060	4F-4042 (4)	2J-3507 (4)
J300	253-0063	253-0062	8T-9079 (4)	3K-9770 (4)
J350	253-0065	253-0064	6V-6535 (4)	3K-9770 (4)
J400, J460	253-0067	253-0066	5P-8823 (4)	3K-9770 (4)

Ground Engaging Tools – Loader Tips

Tips

Cat loader bucket tips are side pinned for excellent tip retention and quick, easy tip changing. The pin hole is located through the tip sides which are the areas of least wear.



Long Tip

- The best choice for most applications.
- Made of longer wearing DH-3 steel for 988 and 992 sizes.



Short Tip

- Provides more strength.
- Contain less wear material.



Utility Tip

- For use in utility applications.



Light Duty Long Tip

- For use in low impact with low to medium abrasiveness.
- Self-sharpening design and symmetrical shape.



Penetration Tip

- Provides better penetration.
- Contains less wear material.



Heavy Duty Long Tip

- Contains more wear material than Abrasion Tip.
- Provides greater strength than Long Tip.
- Provides better penetration due to a streamlined-profile.



Heavy Duty Long Life Tip

- Increases wear life 2 to 5 times more than the Heavy Duty Long Tip.
- Provides better productivity because they get sharper as they wear.



Heavy Duty Abrasion Tip

- Contains the greatest amount of wear material.
- Provides good strength.
- Provides good penetration.

Ground Engaging Tools – Loader Tips



Heavy Duty Penetration Tip

- Use in high impact, hard-to-penetrate material.
- Longer wear life.
- Stays sharp.

Tips

	J200	J225	J250	J300	J450/ J350	J400	J460	J550	J600	J700	J800
Long	1U-3202	6Y-3222	1U-3252	1U-3302	1U-3352	7T-3402	9W-8452	9W-8552	6I-6602	4T-4702	
Short		6Y-6221	1U-3251	1U-3301	1U-3351	7T-3401	9W-8451	9W-8551	6I-6601		
Utility	195-9209										
Light Duty Long Tip	195-9209		168-1253	168-1301	168-1351	168-1401	168-1451				
Penetration	1U-3209	6Y-8229	9J-4259	9J-4309	9J-4359	6Y-7409	9W-8459	9W-8559	7I-7609	4T-4709	117-6809
Heavy Duty Long		8E-4222	9N-4252	9N-4302	9N-4352	8E-4402	9N-4452	9N-4552	7Y-0602	9U-9702	6I-8802
Heavy Duty Long Life			135-8252	125-8302	135-9352	116-7402	101-9054	101-9055	107-8602	107-2001	
Heavy Duty Abrasion		6Y-6223	9N-4253	9N-4303	9N-4353	7T-3403	9N-4453	6Y-2553	6I-6603	9U-9703	6I-8803
Heavy Duty Penetration				135-9300	144-1358	135-9400	138-6451	138-6552	135-9600	135-9700	135-9800
Pin	8E-6208	132-4762	132-4763	132-4766	114-0358	116-7408	114-0468*	107-3378	113-9608	113-4708	134-1808
Retainer	8E-6209	149-5733	149-5733	149-5733	114-0359	116-7409	107-3469*	107-8559	113-9609	113-4709	134-1809

* Some older models have a 0.75" (19 mm) pin diameter, instead of the current 0.875" (22 mm) pin diameter. For those older models which have the 0.75" (19 mm) pin diameter, use a 6Y-2527 pin and a 8E-6359 retainer.

Ground Engaging Tools – Loader Tips



Bolt-On Unitooth Tips

- Improves penetration where breakage is not a problem.
- Tip and adapter are one integrated piece for easy installation and lower initial costs.
- For use in nonabrasive materials.

TIP SIZE	MODEL
J200	910, 931, 914G, 935, IT12, IT14G
J250	916, 920, 924, 926, 928, 930, 936, 938, 939, 941, 943, 951, 953, IT18, IT28
J300*	944, 950, 953B
J300**	950B, 955, 960F, 963
J300***	966C
J350	960F, 966D, 970F, 973, 977

Bolt-On Unitooth Tip Chart

UNITOOTH COMPONENTS	J200	J250	J300*	J300**	J300***	J350
Unitooth Center Tip	8J-6207	1U-1857	1U-1877	8E-1637	1U-1877	6Y-0649
Unitooth One Bolt Corner Tip (lh)	1U-1868	1U-1858	1U-1878	1U-1878	1U-1888	1U-1888
Unitooth One Bolt Corner Tip (rh)	1U-1869	1U-1859	1U-1879	1U-1879	1U-1889	1U-1889
Unitooth Two Bolt Corner Tip (lh)		6I-8388	8E-8608	8E-8608	8E-5318	8E-5318
Unitooth Two Bolt Corner Tip (rh)		6I-8389	8E-8609	8E-8609	8E-5319	8E-5319

* 25 mm edge.

** 32 mm edge.

*** 32 mm edge (bigger bolts).

Cat K Series™ Tips

Cat K Series™ excavator bucket tips use a new vertical retention system that allows quick and easy tip changes. Providing a new locking interface at every tip change to improve retention reliability. Lower profile improves penetration and wear life.



Penetration Tip

- For harder-to-penetrate, moderate impact, lower abrasion.
- Very good penetration.
- Top rib, bottom cavity to stay sharp.



Spike Tip

- For maximum penetration, especially in cohesive material.
- Stays sharp for enhanced wear life.
- Top and bottom rib design.

Ground Engaging Tools – Loader Tips



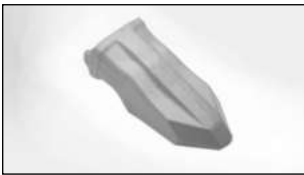
Double Spike Tip

- For harder-to-penetrate, fracturable materials.
- Very good penetration, stays sharp.
- Use in corner positions with Spike Centers.
- Length matches spike.



Wide Tip

- For easy-to-penetrate trenching applications.
- Low impact.
- Smooth floor trenches.



Heavy Penetration

- Recommended for high abrasive and impact conditions, especially shot rock.
- Excellent penetration and wear material, stays sharp.



Heavy Abrasion

- Recommended for high abrasive, moderate impact, easier-to-penetrate materials.
- Excellent wear material, less penetration.



General Duty

- Recommended for general applications in moderate impact and abrasive conditions.
- Good penetration, self-sharpening cavities.



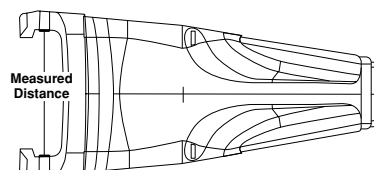
Extra Duty – (plus ARM parts option)

- Recommended for general applications requiring more wear material in moderate impact conditions.
- Good wear material, good penetration.



Penetration – (plus ARM parts option)

- Recommended for harder-to-penetrate, moderate impact, lower abrasive materials.
- Very good penetration, less wear material, stays sharp.



K Family Identification

To identify tip or adapter family simply measure the distance between the “ears” of the tip in millimeters and round to the nearest 5 mm.

Ex: 3.15" (80 mm) = K80

3.44" (87.4 mm) = K90

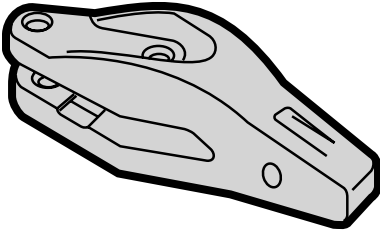
3.78" (96.1 mm) = K100

Ground Engaging Tools – Loader Tips

Tip Chart

	K80	K90	K100	K110	K130	K150	K170
Wide	222-1080	222-1090	223-8100	223-8110	223-8130	195-5151	223-8170
Extra Duty	220-9081	220-9091	220-9101	220-9111	220-9131	229-7151	232-0171
Penetration	220-9082	220-9092	220-9102	220-9112	220-9132	229-7152	232-0172
Penetration Plus	220-9083	220-9093	220-9103	220-9113	220-9133	229-7153	232-0173
Spike	220-9087	220-9097	220-9107	220-9117	220-9137	229-7157	232-0177
Double Spike	220-9088	220-9098	220-9108	220-9118	220-9138	229-7158	232-0178
General Duty	220-9089	220-9099	220-9109	220-9119	220-9139	229-7159	232-0179
Heavy Penetration	222-1081	222-1091	223-8101	223-8111	223-8131	229-7154	232-2177
Heavy Abrasion	222-1082	222-1092	223-8102	223-8112	223-8132	229-7156	232-2178
Extra Duty Long Life (ARM)	229-7080	232-0090	232-0100	232-0110	232-2130	232-0150	233-7170
Penetration Long Life (ARM)	229-7081	232-0091	232-0101	232-0111	232-2131	232-0151	233-7171
Retainer	220-9090	220-9090	220-9090	220-9110	220-9130	233-7150	232-0170

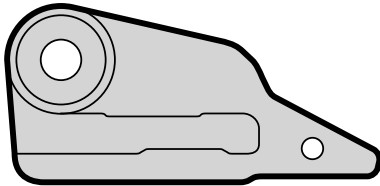
Ground Engaging Tools – Loader Adapters



Bolt-On Center Adapters

TIP SIZE	MODEL	EDGE THICKNESS		BOLT-ON ADAPTER (center)	BOLT	NUT
		(in)	(mm)			
J200	938, 939, 914G	0.75	19	9J-4207	5J-4771	2J-3506
	416, 426, 428, 436	0.80	20	8E-2184		
J225	938, 939, 914G	0.75	19	6Y-6227	1J-6762	2J-3506
J250	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	1.00	25	1U-0257	8J-2928	8J-2933
J300	944, 950, 953B, 953C	1.00	25	1U-0307	8J-2928	8J-2933
	950B, 950E, 950F, 944	1.25	32	4T-4307	5P-8136	8J-2933
	966C	1.25	32	3G-9307	5P-8361	5P-8362
	966C	1.25	32	3G-5307*	8J-2928	8J-2933
J350	977, 973, 966D, 970F	1.50	38	3G-3357	5P-8361	5P-8362
	963B, 973, 977, 966C	1.25	32	170-0073	6V-8360	5P-8362
	980A, 980B, 980C, 980G, 980F	1.75	45	1U-1357	5P-8361	5P-8362
	980B	1.75	45	3G-2357*	8J-2928	8J-2933
	977	1.50	38	3G-1357*	8J-2928	8J-2933
J400	980C, 980F	1.75	45	6I-9898	5P-8361	5P-8362
J460	988, 980C, 980F	1.75	45	8E-2467	5P-8361	5P-8362
	977, 973, 966D, 970F	1.50	38	8E-3467	5P-8361	5P-8362

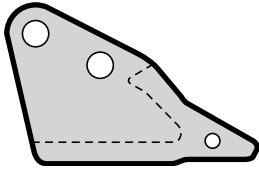
* 3-bolt adapter.



One-Bolt Corner Adapters

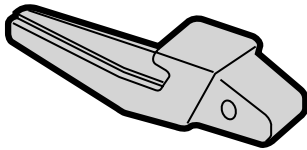
TIP SIZE	MODEL	EDGE THICKNESS		ONE-BOLT ADAPTER		BOLT	NUT
		(in)	(mm)	(lh)	(rh)		
J200	935, 931, 910, IT12	0.75	19	1U-2208	1U-2209	6F-0196	2J-3505
J225	935, 931	0.75	19	6Y-6228	6Y-6229	6F-0196	2J-3505
J250	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	1.00	25	3G-4258	3G-4259	4J-9058	8J-2933
J300	944, 950, 950B, 950E, 950F, 960F	1.00-1.25	25-32	3G-4308	3G-4309	6V-6535	5P-8362
	953B, 953C, 963	1.00-1.25	25-32	3G-4308	3G-4309	4J-9058	8J-2933
	966C	1.25	32	3G-8308	3G-8309	5P-8823	5P-8362
J350	960F, 963B, 966D, 966E, 966F	1.25-1.50	32-38	3G-5358	3G-5359	5P-8823	5P-8362
	970F, 973, 977	1.25-1.50	32-38	3G-5358	3G-5359	5P-8823	5P-8362
	980A, 980B, 980C, 980F, 980G	1.75	45	1U-1358	1U-1359	6V-8360	5P-8362
J460	988, 980	1.75	45	8E-2469	8E-2468	6V-8360	5P-8362
	977, 973, 966D	1.50	38	8E-3469	8E-3468	6V-8360	5P-8362

Ground Engaging Tools – Loader Adapters



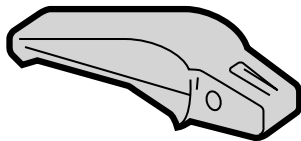
Two-Bolt Corner Adapters

TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		TWO-BOLT ADAPTER (lh) (rh)		BOLT	BOLT	NUT
J250	920, 924F, 926, 928, 928F, 928G	1.00	25	6I-9250	6I-9251	4J-9058	4F-4042	2J-3507
	930, 936, 936E, 936F, 938F	1.00	25	6I-9250	6I-9251	4J-9058	4F-4042	2J-3507
	939, 941, 943, 951, 953	1.00	25	6I-9250	6I-9251	4J-9208	4F-4042	2J-3507
	IT18, IT24F, IT28	1.00	25	6I-9250	6I-9251	4J-9058	4F-4042	2J-3507
J300	944, 950, 953B, 953C, 963	1.00-1.25	25-32	8E-5308	8E-5309	8T-9079	6V-8360	3K-9770
	950B, 950E, 950F, 960F	1.00-1.25	25-32	8E-5308	8E-5309	8T-9079	5P-8823	3K-9770
J350	977, 973, 966, 963	1.25-1.50	32-38	8E-5358	8E-5359	5P-8361	6V-6535	3K-9770
J400/J460	980/988	1.75	44	6I-8244	6I-8243	8T-9079	6V-8360	3K-9770
J460	988	2.00	51	6I-8298	6I-8299	6V-6535	5P-8361	3K-9770



Bottom Strap Adapters

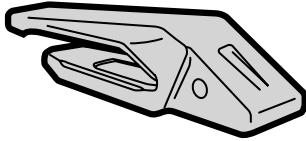
TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		BOTTOM STRAP ADAPTER (lh) (center) (rh)		
J200	935, 931, 910, IT12, 428, 426, 416	0.50-0.75	13-19	—	8J-7525	—
J250	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	1.00-1.25	25-32	—	3G-0169	—
J300	966C, 963, 955, 950	1.00-1.25	25-32	—	9J-8929	—
J350	980, 977, 973, 966D	1.25-1.75	32-45	1U-1352	1U-1350	1U-1351
J350	966D, 966E, 966F	1.57	40	1U-1352	1U-1350	1U-1351
J460	988, 983	1.75-2.25	45-57	8E-5466	8E-5464	8E-5465
J550	992	2.00-2.50	51-64	9J-3664	9J-3662	9J-3663



Flushmount Adapters

TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		FLUSHMOUNT ADAPTER (lh) (center) (rh)		
J200	935, 931, 910, IT12, 428, 426, 416	0.50-1.00	13-25	—	4T-1204	—
J250	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	0.75-1.25	19-32	—	1U-1254	—
J300	966C, 963, 955, 950	1.00-1.50	25-38	—	1U-1304	—
J350	980, 977, 973, 966D	1.25-1.75	32-45	1U-1356	1U-1354	1U-1355
J400	980	1.50-2.00	38-51	—	107-3404	—
J460	988, 983	1.75-2.00	45-51	8E-0466	8E-0464	8E-0465
J550	990, 992C	2.00-2.50	51-64	3G-4556	3G-4554	3G-4555
	992, 992B	2.00-2.50	51-64	7J-9556	7J-9554	7J-9555

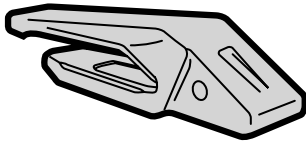
Ground Engaging Tools – Loader Adapters



Two Strap Adapters

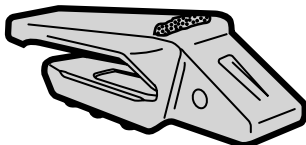
TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		TWO STRAP ADAPTER		
				(lh)	(center)	(rh)
J450	980, 973*, 966D*	1.75	45	4T-8456	4T-8454	4T-8455
J460	988, 983	2.00	51	8E-3466	8E-3464	8E-3465
	980	1.75	45	8E-2166	8E-2164	8E-2165
J550	990, 992	2.50	64	3G-9496	3G-9494	3G-9495
	988	2.00	51	4T-7556	4T-7554	4T-7555
J600	992	2.75	70	6I-8606	6I-8604	6I-8605
J700	994	3.00	76	4T-4706	4T-4704	4T-4705
	990, 992	2.50	64	9W-9706	9W-9704	9W-9705
	994	4.00	100	100-7416	—	—
J800	994	4.00	100	6I-8804	—	—

* Requires spade base edge with segment bolt holes.



Heavy Duty Adapters

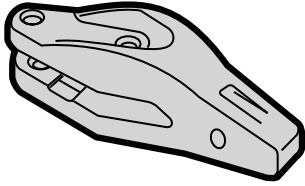
TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		HEAVY DUTY ADAPTER		
				(lh)	(center)	(rh)
J350	966	1.50	40	135-9356	135-9354	135-9355
	980	1.75	45	113-0356	113-0354	113-0355
J400	980	1.75	45	125-8406	125-8404	125-8405
J460	988	2.00	51	114-0466	114-0464	114-0465
J550	990, 992	2.50	63	107-3556	107-3554	107-3555
	988	2.00	51	138-6556	138-6554	138-6555
J600	992	2.75	70	119-8606	119-8604	119-8605
	990, 992	2.50	63	143-3116	143-3115	143-3114
J700	992	2.75	70	133-0706	133-0704	133-0705
J700	994	4.00	100	—	100-7416	—
	992	2.75	70	133-0706	133-0704	133-0705
	992	3.00	76	171-1706	171-1704	171-1705
J800	994	4.00	100	—	6I-8804	—



Heavy Duty ARM Adapters

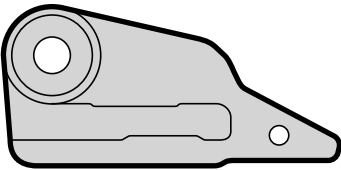
TIP SIZE	MODEL	EDGE THICKNESS (in) (mm)		HEAVY DUTY ARM ADAPTER		
				(lh)	(center)	(rh)
J400	980	1.75	45	125-8409	125-8407	125-8408
J460	988	2.00	51	116-7466	116-7464	116-7465
J550	990, 990	2.50	63	112-2556	112-2554	112-2555
	988	2.00	51	159-0556	159-0554	159-0555
J600	992	2.75	70	119-8606	119-8604	119-8605
	990, 992	2.50	63	186-5386	186-5384	186-5385
J700	992	2.75	70	133-0708	133-0707	133-0709
	994	3.00	76	187-2115	187-2113	187-2114

Ground Engaging Tools – Loader Adapters



Upsize Bolt-On Center Adapters

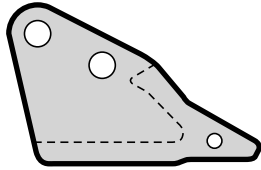
TIP SIZE	EDGE THICKNESS (in) (mm)		MODEL	UPSIZING TIP SIZE	UPSIZING BOLT-ON ADAPTER (center)	UPSIZING BOLT	UPSIZING NUT
J200	0.75	19	910, 914G, 939	J225	6Y-6227	5J-4771	2J-3506
J250	1.00	25	916, 920, 926, 930, 936	J300	1U-0307	8J-2928	8J-2933
	1.00	25	941, 943, 951, 953	J300	1U-0307	8J-2928	8J-2933
	1.00	25	IT18, IT28	J300	1U-0307	8J-2928	8J-2933
J300	1.25	32	966C	J350	3G-7357	6V-8360	5P-8362
J350	1.50	38	966D, 970F, 973, 977	J460	8E-3467	5P-8361	5P-8362
	1.75	45	980	J460	8E-2467	5P-8361	5P-8362
J400	1.80	46	980G	J460	8E-2467	5P-8361	5P-8362



Upsize One-Bolt Corner Adapters

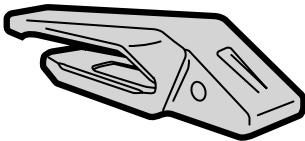
TIP SIZE	EDGE THICKNESS (in) (mm)		MODEL	UPSIZING TIP SIZE	UPSIZING BOLT-ON ADAPTER (lh) (rh)		UPSIZING BOLT	UPSIZING NUT
J200	0.75	19	910, 914G, 939	J225	6Y-6228	6Y-6229	6F-0196	2J-3505
J250	1.00	25	916, 920, 926, 930, 936	J300	3G-4308	3G-4309	6V-6535	5P-8362
	1.00	25	941, 943, 951, 953	J300	3G-4308	3G-4309	6V-6535	5P-8362
	1.00	25	IT18, IT28	J300	3G-4308	3G-4309	6V-6535	5P-8362
J300	1.25	32	966C	J350	3G-5358	3G-5359	5P-8823	5P-8362
J350	1.50	38	966, 973, 977	J460	8E-3469	8E-3468	5P-8823	6V-8360
	1.75	45	980	J460	8E-2469	8E-2468	6V-8360	5P-8362

Ground Engaging Tools – Loader Adapters/Protectors



Upsize Two-Bolt Corner Adapters

TIP SIZE	EDGE THICKNESS		MODEL	UPSIZE TIP SIZE	UPSIZE TWO-BOLT ADAPTER		UPSIZE BOLT	UPSIZE BOLT	UPSIZE NUT
	(in)	(mm)			(lh)	(rh)			
J250	1.00	25	916, 920, 926, 930	J300	8E-5308	8E-5309	8T-9079	6V-8360	3K-9770
	1.00	25	941, 943, 951, 953	J300	8E-5308	8E-5309	8T-9079	6V-8360	3K-9770
J300	1.25	32	950, 953, 955, 963	J350	8E-5358	8E-5359	5P-8361	6V-6535	3K-9770



Upsize Two-Strap Adapters

TIP SIZE	EDGE THICKNESS		MODEL	UPSIZE TIP SIZE	UPSIZE TWO-STRAP ADAPTER		
	(in)	(mm)			(lh)	(center)	(rh)
J350	1.75	45	980	J450	4T-8456	4T-8454	4T-8455
J350	1.75	45	980	J460	8E-2166	8E-2164	8E-2165
J460	2.00	51	983, 988	J550	4T-7556	4T-7554	4T-7555
J550	2.50	64	992	J700	9W-9706	9W-9704	9W-9705
J600	3.00	76	992	J700	133-0706	133-0704	133-0705
J700	4.00	100	994	J800		6I-8804	

Ground Engaging Tools – Loader Adapters/Protectors

K Series Adapters

Description	BASE EDGE THICKNESS											
	K80		K90		K100	K110	K130		K150		K170	
	25 mm	32 mm	32 mm	36 mm	45 mm	50 mm	50 mm	63 mm	63 mm	70 mm	70 mm	76 mm
Adapters												
LDR Two Strap CNTR				222-1094	223-8104	223-8114	232-0134	223-8134	232-0154	195-7154	232-0174	232-2174
LDR Two Strap RH				222-1095	223-8105	223-8115	232-0135	223-8135	232-0155	195-7155	232-0175	232-2175
LDR Two Strap LH				222-1096	223-8106	223-8116	232-0136	223-8136	232-0156	195-7156	232-0176	232-2176
LDR Two Strap Long Life CNTR (ARM)					229-7100	229-7110	232-2134	229-7130	233-7154	232-2150	238-3174	233-7174
LDR Two Strap Long Life RH					229-7101	229-7111	232-2135	229-7131	233-7155	232-2151	238-3175	233-7175
LDR Two Strap Long Life LH					229-7102	229-7112	232-2136	229-7132	233-7156	232-2152	238-3176	233-7176
LDR Flushmount CNTR		229-7084		229-7094	229-7104	229-7114		229-7134		232-2154		
LDR Abrasion CNTR								232-0138		232-0158		
LDR Abrasion Corner								232-0139		232-0159		
LDR Bolt-On CNTR	229-7087	222-1087	223-8097	222-1097	223-8107	223-8117						
LDR Bolt-On Corner RH	222-1088	222-1088	222-1098	222-1098	223-8108	223-8118						
LDR Bolt-On Corner LH	222-1089	222-1089	222-1099	222-1099	223-8109	223-8119						
Models	953	950, 962	963	950, 962, 966, 972, 973	980	988	988	990, 992D	990, 992D	992G	992G	992G

ONE SAFE SOURCE | 2006-2007



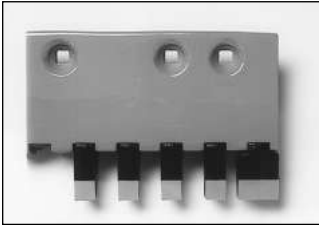
GROUND ENGAGING TOOLS | MOTOR GRADERS

Ground Engaging Tools – Motor Grader Bits

GraderBit™ Systems

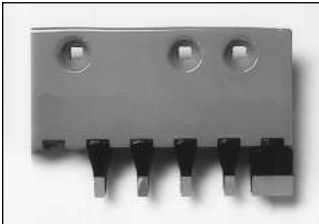
The Caterpillar GraderBit™ System is a road maintenance edge that lowers owning and operating costs by increasing productivity, decreasing blade maintenance, and reducing downtime.

The Caterpillar GraderBit System works by using special adapters and graderbits instead of a conventional cutting edge. The adapters are bolted onto the moldboard, and then, the graderbits are secured within the adapter using snap rings. Different combinations of graderbit sizes and types allow you to customize the edge pattern to deliver the best performance in any surface condition, including mining haul roads, public roads, farm roads, logging roads, and even paved roads.



Standard Bit Arrangement

- For use on larger motor graders.
- Good in highly abrasive applications where penetration is not critical.



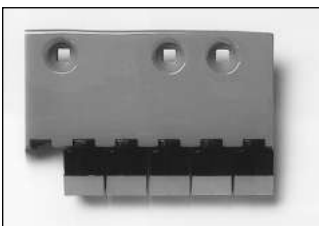
Sharp Bit Arrangement

- For use on smaller motor graders.
- Use where maximum penetration is required.



Penetration Bit Arrangement

- Use with midsize motor graders.



Wide Bit Arrangement

- Available in a continuous design with narrow gap adapters.
- May be used on the ends of all grader bit configurations to extend wear life.

MODEL	GAP SIZE	EDGE LENGTH		GRADERBIT ARRANGEMENT*				SNAP RING RETAINER**
		(ft)	(m)	STANDARD	SHARP	PENETRATION	WIDE	
All	Narrow	3	0.914	6Y-4339 (15)	105-5183 (15)	105-5180 (15)	6Y-4340 (15)	068-4860 (15)
		4	1.219	6Y-4339 (20)	105-5183 (20)	105-5180 (20)	6Y-4340 (20)	068-4860 (15)
14, 16	Wide	3	0.914	6Y-4339 (12)	105-5183 (12)	105-5180 (12)	6Y-4340 (12)	068-4860 (15)
		4	1.219	6Y-4339 (16)	105-5183 (16)	105-5180 (16)	6Y-4340 (16)	068-4860 (15)

* Includes snap ring retainer.

** Uses 1P-1860 snap ring pliers.

Ground Engaging Tools – Motor Grader Bits

GraderBit™ Systems Adapters

MODEL	GAP SIZE	EDGE LENGTH		MOLDBOARD LENGTH		ADAPTER PART NUMBER	BOLTS	NUTS
		(ft)	(m)	(ft)	(m)			
14, 16, 140H (¾" bolts), 143H (¾" bolts)	Narrow ¾" bolts	3	0.914	10	3.05	159-0318 (2)	5J-4771 (19)	2J-3506 (19)
				11	3.35	159-0318	5J-4771 (21)	2J-3506 (21)
				13	3.96	159-0318 (3)	5J-4771 (24)	2J-3506 (24)
				14	4.27	159-0318 (2)	5J-4771 (30)	2J-3506 (30)
				15	4.57	159-0318	5J-4771 (28)	2J-3506 (28)
		4	1.219	10	3.05	159-0317	5J-4771 (19)	2J-3506 (19)
				11	3.35	159-0317 (2)	5J-4771 (21)	2J-3506 (21)
				12	3.66	159-0317 (3)	5J-4771 (23)	2J-3506 (23)
				13	3.96	159-0317	5J-4771 (24)	2J-3506 (24)
				14	4.27	159-0317 (2)	5J-4771 (30)	2J-3506 (30)
	Wide ¾" bolts	3	0.914	10	3.05	159-0313 (2)	5J-4771 (19)	2J-3506 (19)
				11	3.35	159-0313	5J-4771 (21)	2J-3506 (21)
				13	3.96	159-0313 (3)	5J-4771 (24)	2J-3506 (24)
				14	4.27	159-0313 (2)	5J-4771 (30)	2J-3506 (30)
				15	4.57	159-0313	5J-4771 (28)	2J-3506 (28)
		4	1.219	10	3.05	159-0314	5J-4771 (19)	2J-3506 (19)
				11	3.35	159-0314 (2)	5J-4771 (21)	2J-3506 (21)
				12	3.66	159-0314 (3)	5J-4771 (23)	2J-3506 (23)
				13	3.96	159-0314	5J-4771 (24)	2J-3506 (24)
				14	4.27	159-0314 (2)	5J-4771 (30)	2J-3506 (30)
All except 14, 16, 140H (⅝" bolts), 143H (⅝" bolts)	Narrow ⅝" bolts	3	0.914	10	3.05	159-0311 (2)	3F-5108 (19)	4K-0367 (19)
				11	3.35	159-0311	3F-5108 (21)	4K-0367 (21)
				13	3.96	159-0311(3)	3F-5108 (24)	4K-0367 (24)
				14	4.27	159-0311 (2)	3F-5108 (30)	4K-0367 (30)
				15	4.57	159-0311	3F-5108 (28)	4K-0367 (28)
		4	1.219	10	3.05	159-0312	3F-5108 (19)	4K-0367 (19)
				11	3.35	159-0312 (2)	3F-5108 (21)	4K-0367 (21)
				12	3.66	159-0312 (3)	3F-5108 (23)	4K-0367 (23)
				13	3.96	159-0312	3F-5108 (24)	4K-0367 (24)
				14	4.27	159-0312 (2)	3F-5108 (30)	4K-0367 (30)
	Wide ⅝" bolts	3	0.914	10	3.05	159-0315 (2)	3F-5108 (19)	4K-0367 (19)
				11	3.35	159-0315	3F-5108 (21)	4K-0367 (21)
				13	3.96	159-0315 (3)	3F-5108 (24)	4K-0367 (24)
				14	4.27	159-0315 (2)	3F-5108 (30)	4K-0367 (30)
				15	4.57	159-0315	3F-5108 (28)	4K-0367 (28)
		4	1.219	10	3.05	159-0316	3F-5108 (19)	4K-0367 (19)
				11	3.35	159-0316 (2)	3F-5108 (21)	4K-0367 (21)

Ground Engaging Tools – Motor Grader Bits

GraderBit Systems Adapters (continued)

MODEL	GAP SIZE	EDGE LENGTH		MOLDBOARD LENGTH		ADAPTER PART NUMBER	BOLTS	NUTS
		(ft)	(m)	(ft)	(m)			
All except 14,16, 140H (5/8" bolts), 143H (5/8" bolts)	Wide 5/8" bolts	4	1.219	12	3.66	159-0316 (3)	3F-5108 (23)	4K-0367 (23)
				13	3.96	159-0316	3F-5108 (24)	4K-0367 (24)
				14	4.27	159-0316 (2)	3F-5108 (30)	4K-0367 (30)
				15	4.57	159-0316 (3)	3F-5108 (28)	4K-0367 (28)
				16	4.88	159-0316 (4)	3F-5108 (36)	4K-0367 (36)

Mining Bit Systems

Mining Bit System for larger machines (16H and 24H) in heavy-duty applications like haul road maintenance. The Mining Bits have two separate pieces of carbide for added wear protection. The first is brazed on the face of the bit to reduce wear as the bit moves through the material. The second piece of carbide is inserted into a slot behind the face to protect the bottom of the bit. The Mining Bit also has an angled shank to facilitate proper orientation with respect to the ground – reducing chances for premature wear.

MODEL	GAP SIZE	EDGE LENGTH		MINING BIT ARRANGEMENT*	
		(ft)	(m)	STANDARD	WIDE
16H	Narrow	3	0.914	135-9584 (13)	135-9586
		4	1.219	135-9584 (13)	135-9586
	Wide	3	0.914	135-9584 (13)	135-9586
		4	1.219	135-9584 (13)	135-9586
24H	Wide	3	0.914	178-4094	N/A

* Includes snap ring retainer 178-4092.

Mining Bit System Adapters

MODEL	GAP SIZE	EDGE LENGTH		MOLDBOARD LENGTH		ADAPTER PART NUMBER	BOLTS	NUTS
		(ft)	(m)	(ft)	(m)			
16H	Narrow 5/8" bolts	3	0.914	14	4.267	135-9596	3F-5108 (30)	4K-0367 (30)
				16	4.877	135-9596	3F-5108 (36)	4K-0367 (30)
	Wide 5/8" bolts	3	0.914	14	4.267	135-9593	3F-5108 (30)	4K-0367 (30)
				16	4.877	135-9593	3F-5108 (36)	4K-0367 (36)
	Narrow 3/4" bolts	3	0.914	14	4.267	135-9592	5J-4771 (30)	2J-3506 (30)
				16	4.877	135-9592	5J-4771 (36)	2J-3506 (36)
	Wide 3/4" bolts	3	0.914	14	4.267	135-9591	5J-4771 (30)	2J-3506 (30)
				16	4.877	135-9591	5J-4771 (36)	2J-3506 (36)
	Narrow 5/8" bolts	4	1.219	14	4.267	135-9590	3F-5108	4K-0367 (30)
				16	4.877	135-9590	3F-5108	4K-0367 (36)
	Wide 5/8" bolts	4	1.219	14	4.267	135-9589	3F-5108	4K-0367 (30)
				16	4.877	135-9589	3F-5108	4K-0367 (36)
	Narrow 3/4" bolts	4	1.219	14	4.267	135-9588	5J-4771	2J-3506 (30)
				16	4.877	135-9588	5J-4771	2J-3506 (36)
	Wide 3/4" bolts	4	1.219	14	4.267	135-9587	5J-4771	2J-3506 (30)
				16	4.877	135-9587	5J-4771	2J-3506 (36)
24H	Wide 1" bolts	3	0.914	24	7.315	178-4095	1J-3527	2J-3507

Ground Engaging Tools – Motor Grader Cutting Edges

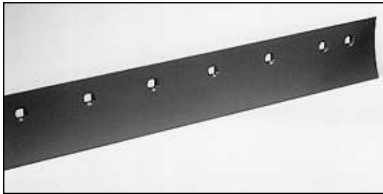
Cutting Edges

Caterpillar Motor Grader Cutting Edges are made of DH2 alloy steel, SAE specification high carbon steel, or Tungsten Carbide and are double bevel shaped for improved penetration.

DH2 Through-Hardened Edges are heat treated for longer wear life and greater breakage resistance than surface hardened edges or high carbon steel edges. DH2 Through-Hardened Edges have a lifetime warranty against breakage.

High Carbon Edges are wear resistant and intended for light duty applications.

Tungsten Carbide Edges provide up to twenty times more wear life in low impact, high wear applications.



Curved Cutting Edges

- Provides best penetration.
- For use in most construction and finish grading applications.



Flat Cutting Edges

- Provide greater strength and more wear material.
- For use with large machines in road maintenance and pioneering applications.



Serrated Cutting Edges

- Provides better penetration of frozen or hard-packed materials.
- For use in gravel raking and spreading applications, as well as other special applications.

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
4.75	121	0.75	19	2	0.610	Curved	Tungsten Carbide	0.62	207-4695	3F-5108 (5)	4K-0367 (5)
								0.75	208-8863	4F-7827 (5)*	2J-3506 (5)
				3	0.914	Curved	Tungsten Carbide	0.62	208-8862	3F-5108 (7)	4K-0367 (7)
								0.75	217-4698	4F-7827 (7)*	2J-3506 (7)
6.00	152	0.50	13	4	1.219	Curved	DH2	0.62	3G-8016	3F-5108 (9)	4K-0367 (9)
							High Carbon	0.62	9W-2293	3F-5108 (6)	4K-0367 (6)
								0.75	9W-2294	4F-7827 (6)*	2J-3506 (6)
							DH2	0.62	9J-3862	3F-5108 (11)	4K-0367 (11)
				5	1.524	Curved	High Carbon	0.62	9W-2295	3F-5108 (7)	4K-0367 (7)
								0.75	9W-2296	4F-7827 (7)*	2J-3506 (7)
				6	1.828	Curved	DH2	0.62	8D-2786	3F-5108 (13)	4K-0367 (13)
								0.75	9J-3660	4F-7827 (13)*	2J-3506 (13)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
6.00	152	0.50	13	6	1.828	Curved	High Carbon	0.62	9W-2297	3F-5108 (8)	4K-0367 (8)
								0.75	9W-2298	4F-7827 (8)*	2J-3506 (8)
				7	2.133	Curved	DH2	0.62	8D-2787	3F-5108 (15)	4K-0367 (15)
								0.75	9J-3659	4F-7827 (15)*	2J-3506 (15)
							High Carbon	0.62	9W-2299	3F-5108 (9)	4K-0367 (9)
								0.75	9W-2300	4F-7827 (9)*	2J-3506 (9)
				8	2.438	Curved	DH2	0.62	8J-7782	3F-5108 (17)	4K-0367 (17)
								0.75	9J-3656	4F-7827 (17)*	2J-3506 (17)
							High Carbon	0.62	9W-2301	3F-5108 (10)	4K-0367 (10)
								0.75	9W-2302	4F-7827 (10)*	2J-3506 (10)
				9	2.743	Curved	High Carbon	0.62	4Z-8968	3F-5108 (11)	4K-0367 (11)
				10	3.048	Curved	High Carbon	0.62	9W-2303	3F-5108 (12)	4K-0367 (12)
								0.75	9W-2304	4F-7827 (12)*	2J-3506 (12)
				12	3.658	Curved	High Carbon	0.62	9W-2305	3F-5108 (13)	4K-0367 (13)
								0.75	9W-2306	4F-7827 (14)*	2J-3506 (14)
				14	4.267	Curved	High Carbon	0.62	9W-2307	3F-5108 (16)	4K-0367 (16)
								0.75	9W-2308	4F-7827 (16)*	2J-3506 (16)
		0.62	16	2	0.610	Curved	DH2	0.62	9W-1835	3F-5108 (4)	4K-0367 (4)
				4	1.219	Curved	High Carbon	0.62	9W-2325	3F-5108 (6)	4K-0367 (6)
								0.75	9W-2326	4F-7827 (6)*	2J-3506 (6)
				5	1.524	Curved	DH2	0.62	7D-4508	3F-5108 (11)	4K-0367 (11)
								0.62	7T-1640	3F-5108 (7)	4K-0367 (7)
							High Carbon	0.75	9W-2327	4F-7827 (7)*	2J-3506 (7)
				6	1.828	Curved	DH2	0.62	5D-9553	3F-5108 (13)	4K-0367 (13)
								0.75	9J-3657	4F-7827 (13)*	2J-3506 (13)
							High Carbon	0.62	7T-1633	3F-5108 (8)	4K-0367 (8)
								0.75	7T-1637	4F-7827 (8)*	2J-3506 (8)
				7	2.133	Curved	DH2	0.62	5D-9554	3F-5108 (15)	4K-0367 (15)
								0.75	9J-3658	4F-7827 (15)*	2J-3506 (15)
							High Carbon	0.62	7T-1645	3F-5108 (9)	4K-0367 (9)
								0.75	7T-1626	4F-7827 (9)*	2J-3506 (9)
				8	2.438	Curved	DH2	0.62	8J-4043	3F-5108 (17)	4K-0367 (17)
								0.75	9J-3655	4F-7827 (17)*	2J-3506 (17)
							High Carbon	0.62	7T-1632	3F-5108 (10)	4K-0367 (10)
								0.75	7T-1629	4F-7827 (10)*	2J-3506 (10)
				11	3.353	Curved	High Carbon	0.62	4Z-8652	3F-5108 (13)	4K-0367 (13)
				12	3.658	Curved	High Carbon	0.62	4Z-8653	3F-5108 (14)	4K-0367 (14)
		0.75	19	5	1.524	Curved	DH2	0.62	3G-7966	3F-5108 (11)	4K-0367 (11)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
6.00	152	0.75	19	6	1.828	Curved	DH2	0.62	5D-9556	3F-5108 (13)	4K-0367 (13)
				7	2.133	Curved	DH2	0.62	5D-9557	3F-5108 (15)	4K-0367 (15)
								0.75	4Z-8785	4F-7827 (15)*	2J-3506 (15)
6.69	170	1.00	25	2	0.610	Curved Serrated	Tungsten Carbide	0.62	208-8864	3F-5108 (5)	4K-0367 (5)
								0.75	208-8865	4F-7827 (5)*	2J-3506 (5)
				3	0.914	Curved Serrated	Tungsten Carbide	0.62	217-4696	3F-5108 (7)	4K-0367 (7)
								0.75	217-4697	4F-7827 (7)*	2J-3506 (7)
6.75	171	0.75	19	2	0.610	Curved	Tungsten Carbide	0.62	195-7265	3F-5108 (5)	4K-0367 (5)
								0.75	195-7266	4F-7827 (5)*	2J-3506 (5)
				3	0.914	Curved	Tungsten Carbide	0.62	208-8866	3F-5108 (7)	4K-0367 (7)
								0.75	195-7267	4F-7827 (7)*	2J-3506 (7)
				4	1.219	Curved	Tungsten Carbide	0.75	208-8866	4F-7827 (9)*	2J-3506 (9)
8.00	203	0.50	13	4	1.219	Curved	DH2	0.62	3G-7965	3F-5108 (9)	4K-0367 (9)
								0.75	135-6738	4F-7827 (9)*	2J-3506 (9)
							High Carbon	0.62	9W-2309	3F-5108 (6)	4K-0367 (6)
								0.75	9W-2310	4F-7827 (6)*	2J-3506 (6)
				5	1.524	Curved	DH2	0.62	9J-3863	3F-5108 (11)	4K-0367 (11)
								0.75	134-1779	4F-7827 (11)*	2J-3506 (11)
							High Carbon	0.62	9W-2311	3F-5108 (7)	4K-0367 (7)
								0.75	9W-2312	4F-7827 (7)*	2J-3506 (7)
				6	1.828	Curved	DH2	0.62	8D-2788	3F-5108 (13)	4K-0367 (13)
								0.75	3G-1626	4F-7827 (13)*	2J-3506 (13)
							High Carbon	0.62	9W-2313	3F-5108 (8)	4K-0367 (8)
								0.75	9W-2314	4F-7827 (8)*	2J-3506 (8)
				7	2.133	Curved	DH2	0.62	8D-2789	3F-5108 (15)	4K-0367 (15)
								0.75	3G-1627	4F-7827 (15)*	2J-3506 (15)
							High Carbon	0.62	9W-2315	3F-5108 (9)	4K-0367 (9)
								0.75	9W-2316	4F-7827 (9)*	2J-3506 (9)
				8	2.438	Curved	DH2	0.62	8J-8980	3F-5108 (17)	4K-0367 (17)
								0.75	3G-1628	4F-7827 (17)*	2J-3506 (17)
							High Carbon	0.62	9W-2317	3F-5108 (10)	4K-0367 (10)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
8.00	203	0.50	13	8	2.438	Curved	High Carbon	0.75	9W-2318	4F-7827 (10)*	2J-3506 (10)
				10	3.048	Curved	High Carbon	0.62	9W-2319	3F-5108 (12)	4K-0367 (12)
				12	3.658	Curved	High Carbon	0.75	9W-2320	4F-7827 (12)*	2J-3506 (12)
								0.62	9W-2321	3F-5108 (14)	4K-0367 (14)
				14	4.267	Curved	High Carbon	0.75	9W-2322	4F-7827 (14)*	2J-3506 (14)
								0.62	9W-2323	3F-5108 (16)	4K-0367 (16)
				0.62	16	2	DH2	0.75	9W-2324	4F-7827 (16)*	2J-3506 (16)
								0.62	109-3137	3F-5108 (5)	4K-0367 (5)
						4	DH2	0.75	3G-2166	4F-7827 (4)*	2J-3506 (4)
								0.62	132-1088	3F-5108 (9)	4K-0367 (9)
							High Carbon	0.75	134-1773	4F-7827 (9)*	2J-3506 (9)
								0.62	9W-2328	3F-5108 (6)	4K-0367 (6)
							High Carbon	0.75	9W-2329	4F-7827 (6)*	2J-3506 (6)
						5	DH2	0.62	7D-4509	3F-5108 (11)	4K-0367 (11)
								0.62	7T-1641	3F-5108 (7)	4K-0367 (7)
							High Carbon	0.75	9W-2330	4F-7827 (7)*	2J-3506 (7)
							DH2	0.62	4T-2967	3F-5108 (11)	4K-0367 (11)
								0.75	4Z-8120	4F-7827 (13)*	2J-3506 (13)
						6	DH2	0.62	5D-9562	3F-5108 (13)	4K-0367 (13)
								0.75	9J-7701	4F-7827 (13)*	2J-3506 (13)
							High Carbon	0.62	7T-1636	3F-5108 (8)	4K-0367 (8)
								0.75	7T-1639	4F-7827 (8)*	2J-3506 (8)
							DH2	0.62	4T-2968	3F-5108 (13)	4K-0367 (13)
								0.75	4T-2971	4F-7827 (13)*	2J-3506 (13)
						7	DH2	0.62	5D-9561	3F-5108 (15)	4K-0367 (15)
								0.75	7D-1158	4F-7827 (15)*	2J-3506 (15)
							High Carbon	0.62	7T-1643	3F-5108 (9)	4K-0367 (9)
								0.75	7T-1624	4F-7827 (9)*	2J-3506 (9)
							DH2	0.62	4T-2969	3F-5108 (15)	4K-0367 (15)
								0.75	4T-2970	4F-7827 (15)*	2J-3506 (15)
						8	DH2	0.62	5D-9731	3F-5108 (17)	4K-0367 (17)
								0.75	8J-9821	4F-7827 (17)*	2J-3506 (17)
							High Carbon	0.62	7T-1631	3F-5108 (10)	4K-0367 (10)
								0.75	7T-1628	4F-7827 (10)*	2J-3506 (10)
							DH2	0.62	4T-2966	3F-5108 (17)	4K-0367 (17)
								0.75	4T-9603	4F-7827 (17)*	2J-3506 (17)
		0.75	19	2	0.610	Curved	DH2	0.62	6G-8623	3F-5108 (4)	4K-0367 (4)
				3	0.914	Flat	DH2	0.75	3G-2165	4F-7827 (4)*	2J-3506 (4)
								0.62	4Z-8129	3F-5108 (11)	4K-0367 (11)
				4	1.219	Flat	DH2	0.62	4Z-8119	3F-5108 (6)	4K-0367 (6)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
8.00	203	0.75	19	4	1.219	Curved	DH2	0.62	132-1087	3F-5108 (9)	4K-0367 (9)
								0.75	109-3124	4F-7827 (9)*	2J-3506 (9)
						High Carbon	DH2	0.62	9W-2338	3F-5108 (6)	4K-0367 (6)
								0.75	9W-2339	4F-7827 (6)*	2J-3506 (6)
						Curved Serrated	DH2	0.62	8D-3428	3F-5108 (9)	4K-0367 (9)
								0.75	8J-8255	4F-7827 (9)*	2J-3506 (9)
				5	1.524	Curved	DH2	0.62	9W-6252	3F-5108 (11)	4K-0367 (11)
								0.75	4Z-8131	4F-7827 (7)*	2J-3506 (7)
						High Carbon	DH2	0.62	9W-2340	3F-5108 (7)	4K-0367 (7)
								0.75	9W-2341	4F-7827 (7)*	2J-3506 (7)
						Curved Serrated	DH2	0.62	8D-3429	3F-5108 (11)	4K-0367 (11)
								0.75	8J-8256	4F-7827 (11)*	2J-3506 (11)
						Flat	DH2	0.62	4T-3034	3F-5108 (11)	4K-0367 (11)
				6	1.828	Curved	DH2	0.62	5D-9558	3F-5108 (13)	4K-0367 (13)
								0.75	7D-1576	4F-7827 (13)*	2J-3506 (13)
						High Carbon	DH2	0.62	7T-1634	3F-5108 (8)	4K-0367 (8)
								0.75	7T-1638	4F-7827 (8)*	2J-3506 (8)
						Curved Serrated	DH2	0.62	132-1072	3F-5108 (13)	4K-0367 (13)
						Flat	DH2	0.62	4T-3007	3F-5108 (13)	4K-0367 (13)
								0.75	4T-3033	4F-7827 (13)*	2J-3506 (13)
				7	2.133	Curved	DH2	0.62	5D-9559	3F-5108 (15)	4K-0367 (15)
								0.75	7D-1577	4F-7827 (15)*	2J-3506 (15)
						High Carbon	DH2	0.62	7T-1623	3F-5108 (9)	4K-0367 (9)
								0.75	7T-1625	4F-7827 (9)*	2J-3506 (9)
						Curved Serrated	DH2	0.62	4Z-9020	3F-5108 (15)	4K-0367 (15)
						Flat	DH2	0.62	4T-3036	3F-5108 (15)	4K-0367 (15)
								0.75	4T-3032	4F-7827 (15)*	2J-3506 (15)
				8	2.438	Curved	DH2	0.62	5D-9732	3F-5108 (17)	4K-0367 (17)
								0.75	7D-1949	4F-7827 (17)*	2J-3506 (17)
						High Carbon	DH2	0.62	7T-1630	3F-5108 (10)	4K-0367 (10)
								0.75	7T-1627	4F-7827 (10)*	2J-3506 (10)
						Curved Serrated	DH2	0.62	132-1073	3F-5108 (17)	4K-0367 (17)
						Flat	DH2	0.62	4T-3035	3F-5108 (17)	4K-0367 (17)
								0.75	4T-3037	4F-7827 (17)*	2J-3506 (17)
		1.00	25	4	1.219	Curved	DH2	0.75	109-3150	4F-7827 (9)*	2J-3506 (9)
						Curved Serrated	DH2	0.75	4T-3512	4F-7827 (9)*	2J-3506 (9)
						Flat	DH2	0.62	135-9692	3F-5108 (11)	4K-0367 (11)
								0.75	4Z-8926	4F-7827 (13)*	2J-3506 (13)
						Flat Serrated	DH2	0.75	7T-3600	4F-7827 (9)*	2J-3506 (9)
				5	1.524	Curved	DH2	0.62	4T-2240	3F-5108 (11)	4K-0367 (11)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
8.00	203	1.00	25.0	5	1.524	Curved Serrated	DH2	0.75	4T-3511	4F-7827 (11)*	2J-3506 (11)
						Flat	DH2	0.62	7T-3497	3F-5108 (11)	4K-0367 (11)
						Flat Serrated	DH2	0.75	7T-3601	4F-7827 (11)*	2J-3506 (11)
				6	1.828	Curved	DH2	0.62	4T-2244	3F-5108 (13)	4K-0367 (13)
								0.75	4T-2231	4F-7827 (13)*	2J-3506 (13)
						Flat	DH2	0.62	7T-3499	3F-5108 (13)	4K-0367 (13)
								0.75	7T-3493	4F-7827 (13)*	2J-3506 (13)
				7	2.133	Curved	DH2	0.62	4T-2242	3F-5108 (15)	4K-0367 (15)
								0.75	4T-2233	4F-7827 (15)*	2J-3506 (15)
						Flat	DH2	0.62	7T-3498	3F-5108 (15)	4K-0367 (15)
								0.75	7T-3494	4F-7827 (15)*	2J-3506 (15)
				8	2.438	Curved	DH2	0.62	4T-2237	3F-5108 (17)	4K-0367 (17)
								0.75	4T-2236	4F-7827 (17)*	2J-3506 (17)
						Flat	DH2	0.62	7T-3496	3F-5108 (17)	4K-0367 (17)
								0.75	7T-3495	4F-7827 (17)*	2J-3506 (17)
10.00	254	1.00	25.0	4	1.219	Flat Serrated	DH2	0.75	4T-8800	4F-7827 (9)*	2J-3506 (9)
				5	1.524	Flat Serrated	DH2	0.75	4T-8801	4F-7827 (11)*	2J-3506 (11)
				6	1.828	Flat	DH2	0.75	4T-6502	4F-7827 (13)*	2J-3506 (13)
				7	2.133	Flat	DH2	0.75	4T-6508	4F-7827 (15)*	2J-3506 (15)
						Flat Serrated	DH2	0.75	4Z-8055	4F-7827 (15)*	2J-3506 (15)
				8	2.438	Flat	DH2	0.75	4T-6511	4F-7827 (17)*	2J-3506 (17)
						Flat Serrated	DH2	0.75	4Z-8056	4F-7827 (17)*	2J-3506 (17)
		1.38	35.0	7	2.133	Flat	DH2	0.75	4T-8316	4F-7827 (15)*	2J-3506 (15)
						Flat Serrated	DH2	0.75	4Z-8346	4F-7827 (15)*	2J-3506 (15)
				8	2.438	Flat	DH2	0.75	4T-8317	4F-7827 (17)*	2J-3506 (17)
						Flat Serrated	DH2	0.75	100-4581	4F-7827 (17)*	2J-3506 (17)
		1.75	45.0	8	2.438	Flat	DH2	0.75	104-3628	4F-7827 (17)*	2J-3506 (17)
				8	2.438	Flat Serrated	DH2	0.75	104-3631	4F-7827 (17)*	2J-3506 (17)
11.00	280	1.00	25.0	7	2.133	Flat	DH2	0.75	140-6790	4F-7827 (15)*	2J-3506 (15)
				8	2.438	Flat	DH2	0.75	140-6832	4F-7827 (17)*	2J-3506 (17)
		1.38	35.0	8	2.438	Flat	DH2	0.75	132-1086	4F-7827 (17)*	2J-3506 (17)
12.00	305	1.38	35.0	8	2.436	Flat	DH2	0.75	4Z-9188	4F-7827 (17)*	2J-3506 (17)
13.00	330	1.18	28.5	4	1.217	Flat	DH2	1.00	109-3117	4J-9058 (9)*	2J-3507 (9)
		1.75	45.0	4	1.217	Flat Serrated	DH2	1.00	138-6542	4J-9058 (9)*	2J-3507 (9)
						Flat	DH2	1.00	109-3116	4J-9058 (9)*	2J-3507 (9)
				8	2.436	Flat	DH2	0.75	128-2577	4F-7827 (17)*	2J-3506 (17)
						Flat Serrated	DH2	0.75	134-1778	4F-7827 (17)*	2J-3506 (17)
		2.38	60.0	4	1.219	Flat	DH2	1.00	132-1019	4J-9058 (9)*	2J-3507 (9)
						Flat Serrated	DH2	1.00	132-4753	4J-9058 (9)*	2J-3507 (9)
16.00	406	1.18	28.0	4	1.219	Flat	DH2	1.00	135-9690	4J-9058 (9)*	2J-3507 (9)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader Cutting Edges

Cutting Edges

EDGE WIDTH (in) (mm)		EDGE THICKNESS (in) (mm)		EDGE LENGTH (ft) (m)		EDGE TYPE	STEEL TYPE	BOLT SIZE	EDGE PART NUMBER	BOLTS	NUTS
16.00	406	1.75	45.0			Flat	DH2	1.00	138-6440	4J-9058 (9)*	2J-3507 (9)
		2.38	60.0	4	1.219	Flat	DH2	1.00	135-9349	4J-9058 (9)*	2J-3507 (9)
						Flat Serrated	DH2	1.00	135-9796	4J-9058 (9)*	2J-3507 (9)
		3.00	75.0			Flat	DH2	1.00	135-9576	4J-9058 (9)*	2J-3507 (9)
						Flat Serrated	DH2	1.00	135-9797	4J-9058 (9)*	2J-3507 (9)

* For a 14G Motor Grader, use 5J-4773 bolts.

For a 16G Motor Grader with a 16 ft. blade, use 5F-8933 bolts.

For a 16G Motor Grader without a 16 ft. blade, use 5J-4771 bolts.

For a 24H Motor Grader, use 1J-3527 bolts for the last five bolts on each end of the edge.

Ground Engaging Tools – Motor Grader End Bits



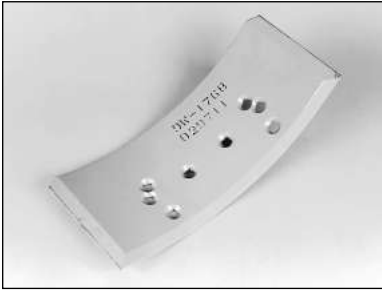
Moldboard End Bits

- Designed to protect the end of the moldboard from wear and damage.
- For use in all applications.
- For machines equipped with a power blade arrangement, please refer to the parts book for the applicable moldboard end bits.

MODEL	SERIAL NUMBER	MOLDBOARD END BIT (2) Required	BOLTS	NUTS
12, 12G	12 (All), 12G (61M1-11715)	7D-2052	3F-5108 (5)	4K-0367 (5)
12G	61M11716-UP	8E-5531	3F-5108 (5)	4K-0367 (5)
12H	All	8E-5531	3F-5108 (5)	4K-0367 (5)
14	All	7D-2083/4	3F-5108 (5)	4K-0367 (5)
14G	96U1-7324	9J-4405/6	4F-7827 (4)	2J-3506 (4)
	96U7325-UP	8E-5529	5J-4773 (5)	2J-3506 (5)
14H	All	8E-5529	5J-4773 (5)	2J-3506 (5)
16	All	9J-4407/8	3F-5108 (4)	4K-0367 (4)
16G	93U1-2777	9D-4880/1	4F-7827 (4)	2J-3506 (4)
	93U2778-UP	8E-5530	1J-6762 (5)*	2J-3506 (5)
16H	All	8E-5530	1J-6762 (5)*	2J-3506 (5)
24H	All	109-3118	1J-3527 (6)	2J-3507 (6)
112	All	7D-2052	3F-5108 (5)	4K-0367 (5)
120	87V1-6134	7D-2052	3F-5108 (5)	4K-0367 (5)
120G	87V6135-UP	8E-5531	3F-5108 (5)	4K-0367 (5)
120H	All	8E-5531	3F-5108 (5)	4K-0367 (5)
130	74V1-2292	7D-2052	3F-5108 (5)	4K-0367 (5)
130G	74V2293-UP	8E-5531	3F-5108 (5)	4K-0367 (5)
135H	All	8E-5531	3F-5108 (5)	4K-0367 (5)
140	72V1-9828	7D-2052	3F-5108 (5)	4K-0367 (5)
140G	72V9829-UP	8E-5531	3F-5108 (5)	4K-0367 (5)
140H (Blades using ¾ bolts)	All with 112-4520 and 112-4521 Blade Groups	8E-5529	5J-4773 (5)	4K-0367 (5)
140H (Blades using ⅝ bolts)	All with 8X-8011 and 8X-8016 Blade Groups	8E-5531	3F-5108 (5)	2J-3506 (5)
143H (Blades using ¾ bolts)	All with 112-4520 and 112-4521 Blade Groups	8E-5529	5J-4773 (5)	4K-0367 (5)
143H (Blades using ⅝ bolts)	All with 8X-8011 and 8X-8016 Blade Groups	8E-5531	3F-5108 (5)	2J-3506 (5)
				4K-0367 (5)
160H, 163H	All	8E-5529	5J-4773 (5)	2J-3506 (5)
212	All	9J-4411	3F-5108 (4)	4K-0367 (4)

* Use the larger 5F-8933 bolt when rear moldboard reinforcing plates are used.

Ground Engaging Tools – Motor Grader End Bits



Overlay End Bits

- Designed to protect the ends of the cutting edge from excessive wear.
- Curved overlay end bits can be rotated 180° and used on the other end of the moldboard for a second wear life.
- For use on machines used for ditching where cutting edges wear fastest on the outer corners.

MODEL	SERIAL NUMBER	EDGE WIDTH		EDGE TYPE	OVERLAY END BIT		BOLTS	NUTS
		(in)	(mm)		(lh)	(rh)		
12, 12G	61M1-11715	6.00	152	Curved		6D-1904	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		6D-1948	4F-3658 (5)	4K-0367 (5)
				Flat*	4D-5758	4D-5757	4F-3658 (5)	4K-0367 (5)
12G	61M11716-UP	4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
12H		4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
14	early models	8.00	203	Curved		7D-5583	1J-6762 (5)	2J-3506 (5)
	later models	8.00	203	Flat*	4D-5758	4D-5757	4F-3658 (5)	4K-0367 (5)
14G	96U1-7324	8.00	203	Curved		7D-9999	1J-6762 (5)	2J-3506 (5)
	96U7325-UP	8.00	203	Curved		6Y-2805	1J-6762 (5)	2J-3506 (5)
14H		8.00	203	Curved		6Y-2805	1J-6762 (5)	2J-3506 (5)
16	early models	6.00	152	Curved		7D-5582	1J-6762 (5)	2J-3506 (5)
		8.00	203	Curved		7D-5193	4F-3658 (5)	4K-0367 (5)
16G	93U1-2777	8.00	203	Curved		7D-9999	1J-6762 (5)	2J-3506 (5)
	93U2778-UP	8.00	203	Curved		6Y-2805	1J-6762 (5)	2J-3506 (5)
120, 120G	87V1-6135	6.00	152	Curved		6D-1904	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		6D-1948	4F-3658 (5)	4K-0367 (5)
				Flat*	4D-5758	4D-5757	4F-3658 (5)	4K-0367 (5)
120G	87V6135-UP	4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
120H		4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
130, 130G	74V1-2292	6.00	152	Curved		6D-1904	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		6D-1948	4F-3658 (5)	4K-0367 (5)
				Flat*	4D-5758	4D-5757	4F-3658 (5)	4K-0367 (5)
130G	74V2293-UP	4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
135H		4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)

* Flat overlay end bits must be used with flat edges.

** Applicable for blade group numbers 8X-8011 and 8X-8016.

+ Applicable for blade group numbers 112-4520 and 112-4521.

Ground Engaging Tools – Motor Grader End Bits

Overlay End Bits

MODEL	SERIAL NUMBER	EDGE WIDTH		EDGE TYPE	OVERLAY END BIT		BOLTS	NUTS
		(in)	(mm)		(lh)	(rh)		
140, 140G	72V1-9828	6.00	152	Curved		6D-1904	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		6D-1948	4F-3658 (5)	4K-0367 (5)
				Flat*	4D-5758	4D-5757	4F-3658 (5)	4K-0367 (5)
140G	72V9829-UP	6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
140H**, 143H**		4.75	121	Curved		135-9345	4F-3657 (5)	4K-0367 (5)
		6.00	152	Curved		9W-1767	4F-3658 (5)	4K-0367 (5)
		8.00	203	Curved		9W-1768	4F-3658 (5)	4K-0367 (5)
140H+, 143H+		8.00	203	Curved		6Y-2805	1J-6762 (5)	2J-3506 (5)
160H, 163H		8.00	203	Curved		6Y-2805	1J-6762 (5)	2J-3506 (5)

* Flat overlay end bits must be used with flat edges.

** Applicable for blade group numbers 8X-8011 and 8X-8016.

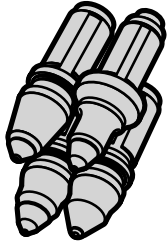
+ Applicable for blade group numbers 112-4520 and 112-4521.

ONE SAFE SOURCE | 2006-2007

GROUND ENGAGING TOOLS | PAVING PRODUCTS



Ground Engaging Tools – Paving Product Bits, Tools and Holders



Profiler/Road Reclaimer

- Caterpillar cutter bits are designed for optimum performance in a variety of materials.
- Proprietary carbide tips provide longer life and lower operational costs.

ITEM			
Blocks/Holders		Part Number	
Holder – Breakaway Reclaimer (¾")		6R-3927	
Holder – Dual Bit Stabilizer (1")		113-0313	
Holder – Heavy Duty Breakaway Cold Planer/Reclaimer (¾")		151-9941	
Holder – Heavy Duty Weld-On Cold Planer (¾")		113-0328	
Holder – Quick Change (⅞")		117-3887	
Holder – Standard Weld-On Reclaimer (¾")		7R-6187	
Holder – Weld-On Cold Planer (¾")		9U-9617	
Holder – Weld-On Reclaimer/Stabilizer (⅞")		117-4076	
Mounting Block (For use with Weld-On Holders)		8T-4084	
Mounting Block – Breakaway (For use with 6R-3927 Holder)		6R-3926	
Mounting Block – Heavy Duty Breakaway (For use with 151-9941 Holder)		169-1412	
Mounting Block – Standard Reclaimer (For use with 7R-6187 Holder)		077-2848	
Holder – Quick Change (For use with 077-4018/077-2820)		107-3343	
Soil Stabilizer Tools		Part Number	LH Part Number RH Part Number
Chopper Tools – Carbide Face			077-7343 077-4727
Chopper Tools – Hardened Steel			077-2775 077-2776
Quick Change Tools – Carbide Face		077-4018	
Quick Change Tools – Hardened Steel		077-2820	
Quick Change Tools – Holder		077-2807	
Straight Tool		077-2774	
Straight Tool Holder		077-2789	
Cutter Bits		Part Number	Pallet Quantity (2000)
Asphalt Bit – Low Horse Power (¾" Shank)		222-7571	222-7578
Asphalt Bit – Heavy Duty (¾" Shank)		140-2864	144-1238
Asphalt Bit – Heavy Duty – Washered (¾" Shank)		222-7570	222-7579
Asphalt Bit – Full Bodied – Washered (¾" Shank)		238-3191	238-3182
Concrete Bit – Low Horse Power (¾" Shank)		227-7340	
Concrete Bit (¾" Shank)		149-5763	144-1236
Asphalt and Soil Stabilizer Bit (⅞" Shank)		117-3884	
Asphalt and Soil Stabilizer Bit – Carbide Face (⅞" Shank)		117-3885	
Soil Stabilizer Bit (⅞" Shank)		195-7244	
Stabilizer Bit (1" Shank for use with 113-0313 Dual Holder)		113-0312	
Washer – Hardened		8C-1856	
Specialty Tools		Part Number	
Installation/Removal Tool		8T-4474	
Punch		104-8591	

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GROUND ENGAGING TOOLS | RIPPERS/SCARIFIERS

Ground Engaging Tools – Ripper/Scarifier Tips

Large Rippers

For large rippers, there are two types of tips available — centerline and penetration. Both types of tips have a center rib for strength and sharpness, in addition to being forged from DH-3 steel for added strength and wear resistance. Available in several lengths to meet various applications.



Centerline Ripper Tips

- Offers good penetration and more wear material.
- Can be flipped for maximum performance.



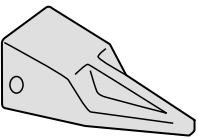
Penetration Ripper Tips

- Offer better initial penetration.
- Penetration tips should be installed with the rib up.



ARM Ripper Tips

- Offers increased wear life, and enhanced penetration and productivity.
- ARM Ripper Tips should not be used in severe impact conditions.



Sharp Tips

- Enhanced initial penetration in hard to penetrate materials like limestone and caliche applications.

MODEL	CENTERLINE			ARM CENTERLINE INTER- MEDIATE	PENETRATION			ARM PENETRATION INTERMEDIATE	SHARP LIMESTONE	SHARP CENTERLINE ARM
	LONG	INTER- MEDIATE	SHORT		LONG	INTER- MEDIATE	SHORT			
D8L, D8, D8N D8R, D8K, D8T	114-0453	9W-2452	9W-2451	8E-5770		4T-5452	4T-5451	8E-5771		
D9, D9N, D9H D9R MS, D9T MS	114-0453	9W-2452	9W-2451	8E-5770		4T-5452	4T-5451	8E-5771		
D9L, D9R SS*, D9T SS	8E-8503	4T-4502	4T-4501	8E-5774	4T-5503	4T-5502	4T-5501	8E-5772	159-0377	201-3502
D10, D10N, D10R D10T	8E-8503	4T-4502	4T-4501	8E-5774	4T-5503	4T-5502	4T-5501	8E-5772	159-0377	201-3502
D11 MS	8E-8503	4T-4502	4T-4501	8E-5774	4T-5503	4T-5502	4T-5501	8E-5772	159-0377	201-3502
D11 SS		9W-4552	9W-4551	122-2552		6Y-3552		135-9552		

* Applicable for serial numbers 8BL1000-UP and 7TL753-UP.

Ground Engaging Tools – Ripper/Scarifier Shanks

Shank Protectors and Pin/Retainers

MODEL	SHANK PROTECTOR			COUNTERBORED RIPPER SHANK				NON-COUNTERBORED PIN ASSY.
	STANDARD	SHARP	EXTENDED	NON-REUSABLE PIN	RET. ASSY.	REUSABLE PIN	RETAINER	
D8, D8N, D8R, D8L	6J-8814	8E-1848	132-4716			6Y-3394	8E-4743	4T-2479+ 6J-8814++
D9, D9N, D9R, D9H	6J-8814	8E-1848	132-4716			6Y-3394	8E-4743	4T-2479+ 6J-8814++
D9L (1 pin protector)		6Y-9704						102-9062
D9L (2 pin protector) D9R SS*, D9T SS		9W-8365	132-1014	6Y-1204	6Y-1202	6Y-3909	4T-4707	102-9062
D10, D10R SS, D10T SS, D10T MS		6Y-8960	132-1015	6Y-1204	6Y-1202	6Y-3909	4T-4707	102-9062
D10R MS, D10N		9W-8365	132-1014	6Y-1204	6Y-1202	6Y-3909	4T-4707	102-9062
D11 MS		6Y-8960	132-1015	6Y-1204	6Y-1202	6Y-3909	4T-4707	102-9062
D11 SS		9N-4621	132-1016	9N-4245	6Y-1205	8E-2229	8E-2230	6Y-2443
D10 (1 pin protector)	3G-9514	6Y-9704						102-9062

* Applicable for serial numbers 8BL1000-UP and 7TL753-UP.

+ Top protector hole.

++ Lower protector hole.

Shank Repair/Conversion Parts

MODEL	ADAPTER	NOSE
D8L, D8, D8N, D8R, D8K	8E-8418	9U-9694
D9, D9N, D9R, D9H	8E-8418	9U-9694
D9L (1 pin protector)	1U-3630	103-8114
D9L, D9R HD (2 pin protector)	103-8115	107-3361
D10 (1 pin protector)	1U-3630	103-8114
D10 (2 pin protector)	103-8115	107-3361
D11 MS (1 pin protector)	1U-3630	103-8114
D11 MS (2 pin protector)	103-8115	107-3361
D11 SS	104-9279	

Ground Engaging Tools – Ripper/Scarifier Tips

Small Rippers and Scarifiers

For small rippers and scarifiers, there are two types of tips available — centerline and penetration. Both types of tips have a center rib for strength and sharpness, in addition to being forged from DH-3 steel for added strength and wear resistance. Available in several lengths to meet various applications.



Centerline Ripper Tips

- Offers good penetration and more wear material.
- Can be flipped for maximum performance.



Penetration Ripper Tips

- Offers better initial penetration.
- Penetration tips should be installed with the rib up.

Sharp Ripper Tips

MODEL	CENTERLINE LONG	PENETRATION LONG	SHORT	SHARP	ARM	PIN	RETAINER
No. 3, 931, 933, 939, D4C, D5C 135 H, 120 H	1U-3202*	1U-3209*		9W-8209		8E-6208	8E-6209
No. 4, 963, 955, 951, 941, 12, 14, 130, 140, 143H, 160H, 163, D5M, D5N	6Y-0352	6Y-0309		9W-7309	168-1309	136-8308	114-0359
943, 953, D3G, D4G, D5G		9J-4259*	1U-3251	9W-8259		132-4763	149-5733
No. 5, No. 6, 963, 973, 977, 983, No. 7, 16, 24H, D6M, D6N, D6R, D7R	6Y-0352	6Y-0359			159-0355/6	114-0358	114-0359

* DH-2 Steel.

Replacement Parts for Scarifiers

COMPONENTS	V-BLOCK (REAR NOTCHED)	V-BLOCK (FRONT NOTCHED)	STRAIGHT BLOCK (REAR NOTCHED)	NO. 6 (NON-CURRENT)
Shank				
Standard	5B-0947	195-7218	195-7219	6K-5704*
Long		7D-4501		
Tips				
General Purpose (DH-2)	195-7234*	195-7234*	195-7234*	
High Temperature (DH-3)	6Y-5230**	6Y-5230**	6Y-5230**	5K-0450*
High Abrasion (ARM)	143-3074**	143-3074**	143-3074**	143-3074**

* Uses DH-2 Steel.

** Use 6B-3260 tool for driving scarifier tips off shanks.

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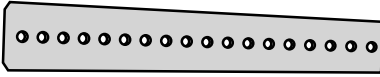
GROUND ENGAGING TOOLS | SCRAPERS

Ground Engaging Tools – Scraper Cutting Edges

Scraper Cutting Edges

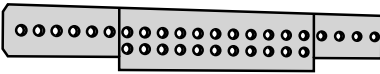
There's a complete line of scraper cutting edges, providing the right combination of edge thickness and arrangement to match practically any job condition.

All edges are rolled from DH-2 steel and through-hardened for strength and wear resistance. Two types are available:



Level Cut Arrangement

- For finish work or very high impact conditions where stinger breakage is a problem.



Stinger Arrangement

- The standard configuration of cutting edge on most scrapers. Provides good penetration and efficient flow of material into the bowl.

MODEL	THICKNESS		STINGER ARRANGEMENT		CHANGES FOR LEVEL CUT		BOLTS	NUTS
	(in)	(mm)	CENTER	ENDS	CENTER	ENDS		
613, 613C	0.88	22	4T-6611	4T-6613 (2)		b	4F-7827 (15)	2J-3506 (15)
615 (46Z1-1342, 47Z1-1339)	0.88	22	7T-5104	7T-5105 (2)		b	5J-2409 (13)	2J-3505 (13)
	0.88	22	9W-5807	9W-5810		9W-5806 (2)	4J-9058 (17)	2J-3507 (17)
621B, 621E, 621F, 627B, 627E, 627F	0.88	22	4T-6568	4T-6612 (2)	a		3J-2801 (14)	2J-3507 (14)
	1.12	28	4T-2896	4T-6380 (2)		4T-2894 (2)	3J-2801 (14)	2J-3507 (14)
623B, 623E, 623F, J619, J621	0.88	22	4T-2887	4T-6612 (2)	4T-6620		4F-4042 (20)	2J-3507 (20)
	1.12	28	4T-2895	4T-6380 (2)	a		4F-4042 (20)	2J-3507 (20)
631D, 631E, 637D, 637E	0.88	22	4T-6566	4T-6614 (2)	a		4F-4042 (16)	2J-3507 (16)
	1.12	28	4T-3444	4T-6378 (2)	a		4F-4042 (16)	2J-3507 (16)
	1.38	35	9J-4369	9W-6092 (2)		7J-0225 (2)	4F-4042 (16)	2J-3507 (16)
	1.62	41	9J-5899	7J-2959 (2)	a		4F-4042 (16)	2J-3507 (16)
633D, 639	1.12	28	4T-3428	4T-2899 (2)	a		4F-4042 (17)	2J-3507 (17)
	1.38	35	9J-1111	9J-1109 (2)	a		4F-4042 (17)	2J-3507 (17)
651B, 657B	1.38	35	7J-1551	7J-0225 (2)	7J-0226		4J-9058 (34)	2J-3507 (17)
	1.62	41	7J-2977	7J-2978 (2)	7J-2981		4J-9058 (34)	2J-3507 (17)
651E (88Z146-UP)	1.38	35	9W-4901	9W-4902	a		4J-9058 (48)	2J-3507 (48)
	1.38	35	9W-4505	9W-4399 (2)	a		6V-6535 (29)*	3K-9770 (29)
	1.62	41	9W-4394	9W-4509 (2)	a		6V-6535 (29)*	3K-9770 (29)
	1.75	45	9W-9701	9W-9702	a		4J-9058 (48)	2J-3507 (48)
651F, 657F	1.38	35	9W-4901	9W-4902	a		4J-9058 (48)	2J-3507 (48)
	1.75	45	9W-9701	9W-9702	a		4J-9058 (48)	2J-3507 (48)
657E (86Z241-UP, 6MB91-UP)	1.38	35	9W-4901	9W-4902	a		4J-9058 (48)	2J-3507 (48)
	1.38	35	9W-4505	9W-4399 (2)	a		6V-6535 (29)*	3K-9770 (29)
	1.62	41	9W-4394	9W-4509 (2)	a		6V-6535 (29)*	3K-9770 (29)
	1.75	45	9W-9701	9W-9702	a		4J-9058 (48)	2J-3507 (48)

a – Reposition center section.

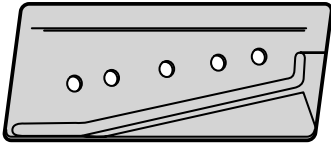
b – Reposition end sections.

* Requires 4K-0684.

Ground Engaging Tools – Scraper Router Bits

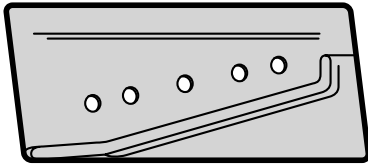
Router Bits

Router Bits are used on all scrapers to protect the lower corners of the bowl. They are made of DH-2 steel and through-hardened for extra strength and wear resistance. Three types are available:



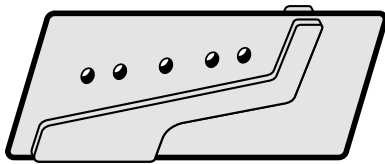
Standard Router Bits

- Recommended for most applications. Reversible for added life and value.



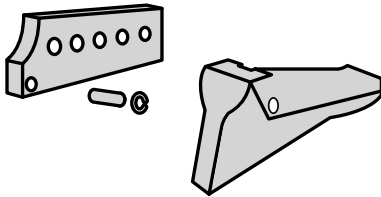
Heavy Duty Router Bits

- Have 45% more wear material than standard router bits and are reversible. To avoid possible damage to the bowl, they should not be used in high impact conditions.



Level Cut Bits

- Level cut end bits are used for clean-up or finishing type work with elevating scrapers. They clean-up windrows by extending further forward to keep material in front of the center cutting edge.



Quick Change Router Bits

- Designed to reduce downtime in abrasive conditions. Pinned onto supports which bolt to the bowl.

MODEL	STD.	HEAVY DUTY	LEVEL CUT	SUPPORT	QUICK-CHANGE BIT	PIN	RETAIN.	BOLTS	NUTS	WASHERS
613, 613B	9F-1831*							a	4K-0367 (3)	
613C	4T-4336	9W-4903**						8S-9092 (3)	4K-0367 (3)	5P-8247 (3)
615, 621, 623, 627	4J-8665							1D-4637 (5)	2J-3507 (5)	5P-8250 (5)
615, 621, 623, 627			220-9150					1D-4709 (5)	2J-3507 (5)	
631, 633, 637	4J-8665	7J-3023++		4T-0051	4T-0054	4T-0055	1U-2405	4F-4042 (5)	2J-3507 (5)	5P-8250 (5)
631, 633, 637			220-9150					1D-4709 (5)	2J-3507 (5)	
639, 651B, 657B	4J-8665	7J-3023++		4T-0051	4T-0054	4T-0055	1U-2405	4F-4042 (5)	2J-3507 (5)	5P-8250 (5)
639, 651B, 657B			220-9150					1D-4709 (5)	2J-3507 (5)	
651E (88Z146-UP)		7J-3023		4T-0051	4T-0054	4T-0055	1U-2405	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
651E (88Z146-UP)			220-9150					1D-4709 (5)	2J-3507 (5)	
651E (88Z1-145)	4T-0668			4T-1512	4T-1514	8E-6358	8E-6359	5P-8823 (5)+	3K-9770 (5)	4K-0684 (5)
651E (88Z1-145)			220-9150					1D-4709 (5)	2J-3507 (5)	
651F, 657F		7J-3023		4T-0051	4T-0054	4T-0055	1U-2405	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
651F, 657F			220-9150					1D-4709 (5)	2J-3507 (5)	
657E (86Z241-UP, 6MB91-UP)		7J-3023		4T-0051	4T-0054	4T-0055	1U-2405	4J-9058 (5)	2J-3507 (5)	5P-8250 (5)
657E (86Z241-UP, 6MB91-UP)			220-9150					1D-4709 (5)	2J-3507 (5)	
657E (86Z1-240, 6MB1-90)	4T-0668			4T-1512	4T-1514	8E-6358	8E-6359	5P-8823 (5)+	3K-9770 (5)	4K-0684 (5)
657E (86Z1-240, 6MB1-90)			220-9150					1D-4709 (5)	2J-3507 (5)	

a – 613 and 613B require one 1B-4367 bolt and two 8S-9092 bolts per router bit.

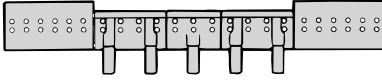
* 9J-4414 (LH) and 9J-4413 (RH) end bits are also available for finishing and cleaning operations.

** Clean up or two position router bit.

+ Uses 6V-6535 bolts rather than 5P-8823 with quick-change.

++ Uses 4J-9058 bolts.

Ground Engaging Tools – Scraper Cutting Edges and Tips



Integrated Tooth Cutting Edges

- Improves penetration in compacted soils.
- Consists of three center edge sections with cast-in adapters and two standard end sections.
- Replaceable tips provide low operating costs in abrasive conditions.

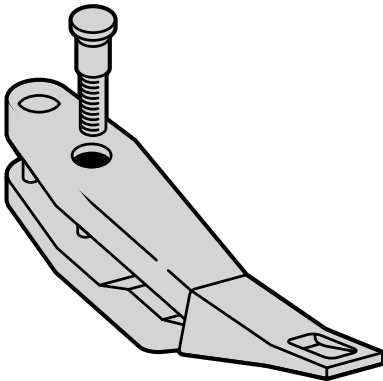
MODEL	CENTER TOOTH EDGE	END TOOTH EDGE	CUTTING EDGE ENDS	BOLTS	NUTS
623	1U-1901 (1)	1U-1902 (2)	4T-6612 (2)	3J-2801 (10)* 4F-4042 (20)	2J-3507 (30)
633, 639	9J-1108 (1)	9J-1107 (2)	9J-1109 (2)**	4F-4042 (34)	2J-3507 (34)

* For use on 4T-6612 Cutting Edge (5 per end).

** Applicable for serial number 19W only. For serial number 86H, use 8J-3137 (2) cutting edge ends.

Integrated Tooth Cutting Edge Tips

MODEL	NUMBER OF TEETH	SHORT	LONG	PENETRATION	WIDE	SHARP	HEAVY DUTY LONG	HEAVY DUTY ABRASION	PIN	RETAINER ASSEMBLY
623	5	1U-3301	1U-3302	9J-4309	107-3300	9W-8309	9N-4302	9N-4303	107-3308	8E-6259
633, 639	5	1U-3351	1U-3352	9J-4359	107-3350	9W-2359	9N-4352	9N-4353	8E-6358	8E-6359



Bolt-On Adapters

- Improves penetration in compacted soils.
- Provides an easily replaceable tooth option for machines that change applications frequently and may not need teeth on all jobs.
- Installs over the center section in the stinger configuration.

MODEL	ADAPTER	BOLTS	NUTS	WASHERS
613	9J-8455	5F-8933 (2)	2J-3506 (2)	
615 (47Z1-1339)	4T-5805	1J-0849 (2)	2J-3505 (2)	
615 (47Z1340-UP)	9J-2307	1J-3527 (2)	2J-3507 (2)	5P-8250 (2)
J619, J621, 623, 633, 639	9W-9971*	1J-4947 (2)	2J-3507 (2)	5P-8250 (2)

* Recommended for use only with 9W-9972 notched center edge. Use 8J-3137 end edges with 86H models. Use 9J-1109 end edges with 19W models.

Ground Engaging Tools – Scraper Bolt-on Adapter Tips

Bolt-On Adapter Tips

MODEL	NUMBER OF TEETH	SHORT	LONG	PENETRATION	WIDE	SHARP	HEAVY DUTY LONG	HEAVY DUTY ABRASION	PIN	RETAINER ASSEMBLY
613	4	1U-3251	1U-3252	9J-4259	107-3300	9W-8309	9N-4252	9N-4253	8E-6258	8E-6259
615 (47Z1-1339)	5	1U-3301	1U-3302	9J-4309	107-3300	9W-8309	9N-4302	9N-4303	107-3308	8E-6259
615 (47Z1340-UP)	4	1U-3301	1U-3302	9J-4309	107-3300	9W-8309	9N-4302	9N-4303	107-3308	8E-6259
J619, J621, 623, 633, 639	5	1U-3351	1U-3352	9J-4359	107-3350	9W-2359	9N-4352	9N-4353	8E-6358	8E-6359

ARM Cutting Edges

In addition to our standard cutting edges, your dealer now has a full line of ARM Cutting Edges for Scrapers. These include ARM Center C/E, ARM End Edge, ARM Router Bits, and ARM Serrated Center C/E.

Bowlside Protector – Pin-on

MODEL	PROTECTOR	QTY.	PIN	QTY.	RETAINER	QTY.	ADAPTER PLATE	QTY.
620, 630 650 Series	8J-4143	2	9J-8441	4	8E-5559	4	152-0034	2

Bowlside Protector – Bolt-on

MODEL	PROTECTOR	QTY.	BOLT	QTY.	NUT	QTY.	ADAPTER PLATE	QTY.
620, 630 650 Series	232-0048	2	1J-4948	8	2J-3507	8	232-0049	2

Ground Engaging Tools – Elevating Scraper Parts

Elevating Scraper Parts

MODEL	613	613B	613C	615	615C	615D	615G
Chain Assembly			2T-0104	2T-0072 239-8147	2T-0072 2T-3038 239-8147	8I-2435	216-6925
61 Link Assembly	2T-0104	2T-0104					
80 Link Assembly	9J-0115	9J-0115					
Link Assembly –							
Outside (with pins)	2T-1133	2T-1133	2T-1133	2T-0290	2T-0290		8J-7675
Inside	2T-1134	2T-1134	2T-1134	2T-0075	2T-0075		3G-3392
Offset (with pin)	2T-0076	2T-0076	2T-0076	2T-0076	2T-0076		3G-3393
Flight	2T-1136	2T-1136	2T-1136	2T-0073	2T-0073		8J-7672
Lock Pin	2T-1137	2T-1137	2T-1137	2T-1137	2T-1137	6J-8873	6J-8873
Link Pin	2T-1138	2T-1138	2T-1138	2T-1609	2T-1609		8J-7791
Roller	2T-3963	2T-3963	2T-3963		5J-3708		5J-3708
Bushing					216-6927		216-6927
Flight Link		6J-0560					
Flight Assembly	2T-0679 2T-3883 8J-4174	2T-0679 2T-3883 8J-4174	2T-0679	2T-3893	2T-3893	8I-2113	217-9042
Sprocket	2T-2623 9J-1653	2T-2744 9J-1653	2T-0704 2T-2623	2T-0249 2T-2259	2T-0249 2T-2259	8I-2192	216-6900
Idler Group			2T-3964				
Small					2T-0046		
Medium					2T-0047		
Large					2T-0048		
Roller Group					215-4459		215-4459
Idler					2T-0242		2T-0242

Ground Engaging Tools – Elevating Scraper Parts

Elevating Scraper Parts (cont.)

MODEL	623	623B	623E	623F	623G	631B	633
Chain Assembly	2T-3038	3G-3391	3G-3391 2T-3038	2T-3038	2T-3038		
Link Assembly –							
Outside (with pins)		8J-7675	8J-7675		8J-7675		
Inside	3G-3392		3G-3392		3G-3392	6J-0556	8J-0556
Offset (with pin)	3G-3393	3G-3393	3G-3393		3G-3393		6J-3621
Flight	8J-7672	8J-7672	8J-7672		8J-7672		
Lock Pin	6J-8873	6J-8873	6J-8873	6J-8873	6J-8873		6J-8873
Link Pin	8J-7791	8J-7791	8J-7791		8J-7791	6J-0557	6J-0557
Roller	5J-3708	5J-3708	5J-3708		5J-3708	7J-4320	7J-4320
Bushing	216-6927	216-6927	216-6927		216-6927		
Flight Link							6J-0560
Flight Assembly	2T-3883	8J-7122	8J-7122 2T-3883	2T-3883	2T-3883		
Sprocket	2T-2891	8J-6544	2T-2891 8J-6544	2T-2891	2T-2891	7J-9382	7J-9382
Idler Group	3G-0960		2T-0046 3G-1086				
Upper			3G-0960				
Small		2T-0046					
Medium		3G-0960					
Large		3G-1086					
Roller Group		8J-6562	8J-6562		215-4459		
Idler		8J-6561	8J-6561			7J-1384	7J-1384

Ground Engaging Tools – Elevating Scraper Parts

Elevating Scraper Parts (cont.)

MODEL	633B	633C	633D	633E	639D	639E	J619
Chain Assembly			8J-3059	2T-3762	9J-9920	9J-9920	
Link Assembly –							
Outside (with pins)							8J-7675
Inside	6J-0556		8J-3221	6J-0556 8J-3221	8J-3221	8J-3221	3G-3392
Offset (with pin)							5J-3710
Offset (without pin)			8J-4340	8J-4340	8J-4340	8J-4340	
Flight							9J-5187
Lock Pin	6J-8873		6J-0555	6J-0555	6J-0555	6J-0555	6J-8873
Link Pin	6J-0557	6J-0557	8J-3217	8J-3217	8J-3217	8J-3217	8J-7791
Roller	7J-4320		7J-4320 7J-7507	7J-4320 7J-7507	7J-4320 7J-7507	7J-4320 7J-7507	5J-3708
Bushing							216-6927
Flat Link –							
Sidebar Link			8J-3218 8J-3219	8J-3218 8J-3219	8J-3218 8J-3219	8J-3218 8J-3219	
Flight Link –	6J-0560	6J-0560					
Outside Link			8J-3220	8J-3220	8J-3220	8J-3220	
Inside Link			8J-3222	8J-3222	8J-3222	8J-3222	
Flight Assembly			9J-1587	8I-1272	9J-1587	9J-1587	
Sprocket	7J-9382		7J-9382	7J-9382	7J-9382	7J-9382	6J-5070
Idler Group			9J-1035	9J-1035	9J-1035	9J-1035	
Roller Assembly			7J-1184	7J-1184	7J-1184	7J-1184	
Idler Assembly			9J-1513	9J-1513	9J-1513	9J-1513	
Roller Group				2T-3972 2T-3973 8I-1643			
Idler		7J-1384	7J-1384				

Ground Engaging Tools – Elevating Scraper Parts/Parts Kits

Elevating Scraper Parts (cont.)

MODEL	J621	950
Chain Assembly	3G-5327	
Link Assembly –		
Outside (with pins)	8J-7675	
Inside	3G-3392	
Flight	8J-7672	
Lock Pin	6J-8873	8J-2746
Link Pin	8J-7791	8J-2743
Roller	5J-3708	
Bushing	216-6927	
Sprocket	6J-5070	

Elevating Scraper Parts Kits

MODEL	613C	615, 615C	623E, 623F, 623G
To receive all Part Kit quantities, order Part Kit number in bold.			
Parts Kit	217-4880 (1)	217-4882 (1)	217-4884 (1)
Components:			
Chain Assembly	2T-0104 (2)	2T-0072 (2)	2T-3038 (2)
Sprockets	2T-2623 (2)	2T-0249 (2)	2T-2891 (2)
Bolts	1A-8537 (16)	0S-1756 (8)	0S-1756 (16)
		3B-2968 (8)	
Nuts	4K-0367 (16)	2J-3506 (16)	2J-3506 (16)
Washers	5P-8247 (16)	5P-8248 (16)	5P-8248 (32)
Bolts	0S-1603 (120)	0S-1576 (144)	0S-1576 (120)
Nuts	6B-6684 (120)	6B-6683 (144)	6B-6683 (120)
Washers	5P-8245 (240)	5P-8247 (288)	5P-8247 (240)
Parts Kit	217-4881*(1)	217-4883* (1)	217-4885* (1)
Components:			
Flight Assembly	2T-0679 (15)	2T-3893 (18)	2T-3883 (15)

* NOTE: Hardware not included. Hardware for flight assemblies included in appropriate chain and sprocket kits listed above.

Ground Engaging Tools – Plastic Auger Groups

Plastic Auger Groups – Models: 621F, 621G, 627F, 627G

PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	6V-8190	3
108-0424	Wear Plate	6			
108-0423	Liner – Upper	1	Washer	146-5795	94*
			Plug	146-5796	94*
108-0421	Liner – Middle	4			
108-0418	Liner – Lower	1			
108-0413	Shoe – Tungsten Carbide	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76
108-0412	Shoe – Nickel	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76
108-0410	Shoe – Std.	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76

* Washer, Plug and Total Quantity apply to all Liners.

Plastic Auger Groups – Models: 631E, 631G, 637E, 637G

PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	6V-8190	3
150-2658	Wear Plate	8			
150-2661	Liner	1	Washer	146-5795	46*
			Plug	146-5796	46*
108-0431	Liner – Upper	1			
108-0430	Liner – Middle	3			
108-0427	Liner – Lower	1			
150-2663	Shoe – Std.	52	Bolt – Plow	4F-3654	104
			Nut – Full	7X-0448	104
150-2665	Shoe – Nickel Alloy	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2667	Shoe – Tungsten Carbide	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84

* Washer, Plug and Total Quantity apply to all Liners.

Ground Engaging Tools – Plastic Auger Groups

Plastic Auger Groups – Models: 651E, 657E

PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	2J-3507	3
150-2658	Wear Plate	8			
1Q-6649	Liner – Lower	1	Washer	146-5795	69*
			Plug	146-5796	69*
1Q-6654	Liner – Plastic	2			
1Q-6656	Liner – Plastic	2			
150-2663	Shoe – Std.	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2665	Shoe – Nickel	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2667	Shoe – Tungsten Carbide	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84

* Washer, Plug and Total Quantity apply to all Liners.

NOTE: **Difference between Plastic and Steel Augers:** Steel Augers use multiple steel wear plates.

Ground Engaging Tools – Steel Auger Groups

Steel Auger Groups – Models: 621F, 621G, 629F, 629G

PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	6V-8190	3
108-0424	Wear Plate	37			
108-0420	Liner – Top	1	Washer	146-5795	34*
			Plug	146-5796	34*
108-0419	Liner – Middle	1			
108-0418	Liner – Lower	1			
108-0413	Shoe – Tungsten Carbide	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76
108-0412	Shoe – Nickel Alloy	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76
108-0410	Shoe – Std.	38	Bolt – Plow	4F-3654	76
			Nut – Full	7X-0448	76

* Washer, Plug and Total Quantity apply to all Liners.

Steel Auger Groups – Models: 631E, 631G, 637E, 637G

PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	6V-8190	3
150-2628	Wear Plate	42			
108-0429	Liner – Top	1	Washer	146-5795	46*
			Plug	146-5796	46*
108-0428	Liner – Middle	4			
108-0427	Liner – Lower	1			
150-2663	Shoe – Std.	52	Bolt – Plow	4F-3654	104
			Nut – Full	7X-0448	104
150-2665	Shoe – Nickel Alloy	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2667	Shoe – Tungsten Carbide	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84

* Washer, Plug and Total Quantity apply to all Liners.

Ground Engaging Tools – Steel Auger Groups

Steel Auger Groups – Models: 651E, 657E

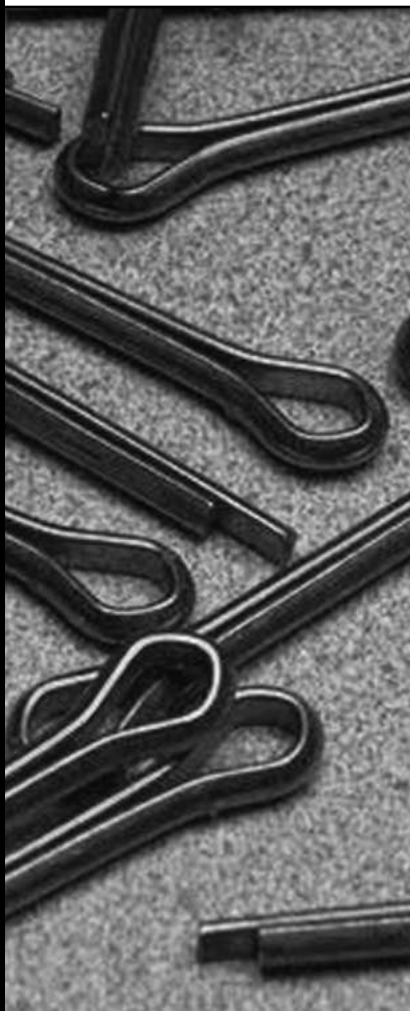
PART NUMBER	DESCRIPTION	QTY.	HARDWARE	PART NUMBER	QTY.
144-5723	Cutting Edge	1	Bolt	4F-4042	3
			Nut	2J-3507	3
150-2658	Wear Plate	47			
1Q-6649	Liner – Lower	1	Washer	146-5795	46*
			Plug	146-5796	46*
1Q-6653	Liner – Plastic	4			
150-2663	Shoe – Std.	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2665	Shoe – Nickel	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84
150-2667	Shoe – Tungsten Carbide	42	Bolt – Plow	4F-3654	84
			Nut – Full	7X-0448	84

* Washer, Plug and Total Quantity apply to all Liners.

NOTE: **Difference between Plastic and Steel Augers:** Steel Augers use multiple steel wear plates.

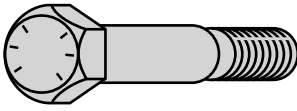
Ground Engaging Tools – Steel Auger Groups

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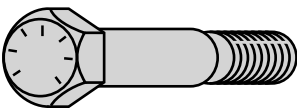
HARDWARE

Bolts



Hex Head Bolts

- Designed with smooth rolled threads for better clamp load, shear resistance and resistance to stripping.
- Made of fine grain steel for a more uniform micro-structure, resulting in improved toughness and fracture resistance.
- Inch Bolts
 - Meet or exceed SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength of 150,000 psi.
 - Have 20% higher head height than SAE specifications for longer wear life, easier gripping and less slippage.
 - Marked with 6 radial dashes on the bolt head.
- Metric Bolts
 - Meet or exceed ISO Class 10.9 specifications for tensile strength and proof load, minimum tensile strength of 150,000 psi.
 - Marked with 10.9 on the bolt head.
- Bolt Coatings
 - Phosphate and Oil coating provides better clamp loads and torque retention.
 - Zinc Dichromate plating provides better long term corrosion resistance.



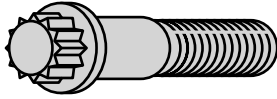
High Strength Hex Head Bolts

- Thread design and steel - similar to HEX Head Bolts
- Inch Bolts
 - Have 20% higher head height than SAE specifications for longer wear life, easier gripping and less slippage
 - Exceed SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength of 170,000 psi
 - Marked with seven radial dashes on the bolt head
- Metric Bolts
 - Exceed ISO 10.9 specifications for tensile strength and proof load, minimum tensile strength of 170,000 psi
 - Marked with 11.9 on the bolt head
- Coatings - similar to HEX Head Bolts.



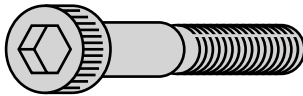
Bolts

12 Point Head Bolts



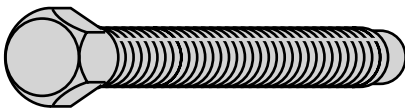
- Designed with smooth rolled threads for better clamp load, shear resistance, and resistance to stripping.
- Made of fine grain steel for a more uniform micro-structure, resulting in improved toughness and fracture resistance.
- Exceeds SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength of 170,000 psi.
- For use in restricted clearance applications.

Hex Socket Head Screw Bolts



- Designed with smooth rolled threads for better clamp load, shear resistance, and resistance to stripping.
- Made of fine grain steel for a more uniform micro-structure, resulting in improved toughness and fracture resistance.
- Exceeds SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength of 170,000 psi.
- For use in restricted clearance applications.

Hex Head Forcing Bolts

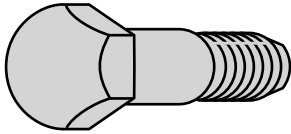


- Designed with smooth rolled threads for better clamp load, shear resistance, and strip resistance.
- Made of fine grain steel for a more uniform micro-structure, resulting in improved toughness and fracture resistance.



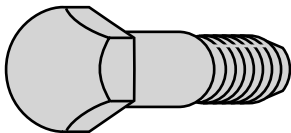
Hardware

Bolts



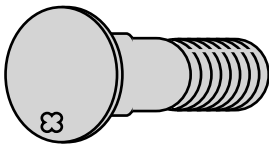
Track Bolts and Split Master Link Bolts

- High dome Hex head for longer wear life and reusability.
- Exceeds SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength 170,000 psi.
- Special induction heat treat process provides Rockwell C37–42 hardness.



High Strength Track Bolts

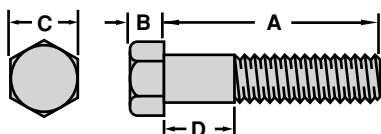
- Similar high dome Hex head as standard Track Bolts.
- Exceeds SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength 180,000 psi.
- Special induction heat treat process provides Rockwell C39–43 hardness.



Cutting Edge Bolts

- Dome shaped head for added strength and wear resistance.
- Exceeds SAE Grade 8 specifications for tensile strength and proof load, minimum tensile strength of 150,000 psi.
- Special induction heat treat process provides Rockwell C33–39 minimum.





Hex Head Bolts / Inch / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/4-20	3/8	0.19	0.44	0.06	0S-1613
	1/2	0.19	0.44	0.06	0S-1614
	5/8	0.19	0.44	0.13	2A-0762
	3/4	0.19	0.44	0.13	0S-1615
	7/8	0.19	0.44	0.13	4F-7957
	1	0.19	0.44	0.13	0S-1616
	1 1/8	0.19	0.44	0.37	9F-6580
	1 1/4	0.19	0.44	0.13	7B-2742
	1 3/8	0.19	0.44	0.63	2A-5546
	1 1/2	0.19	0.44	0.25	9F-7022
	1 5/8	0.19	0.44	0.87	7B-8167
	1 3/4	0.19	0.44	1.00	1B-2713
	2	0.19	0.44	1.13	8B-2377
	2 1/4	0.19	0.44	1.37	1D-4533
	2 1/2	0.19	0.44	1.75	1B-2714
	2 3/4	0.19	0.44	2.00	2A-4781
	3	0.19	0.44	2.00	4B-9365
	3 1/4	0.19	0.44	2.50	8F-8178
	3 1/2	0.19	0.44	2.75	3B-8695
	3 3/4	0.19	0.44	3.00	8F-6302
	4	0.19	0.44	3.25	8S-4710
	4 1/2	0.19	0.44	3.75	8S-4711
	4 3/4	0.19	0.44	4.00	4L-3776
	5	0.19	0.44	4.25	1B-2716
	5 1/2	0.19	0.44	4.50	1B-2717
	6	0.19	0.44	5.25	1B-2718
	6 1/2	0.19	0.44	5.50	4N-1761
	Nut				9S-8750
	Washer				5P-0537
5/16-18	1/2	0.24	0.50	0.06	1C-0569
	5/8	0.24	0.50	0.13	2H-3755
	3/4	0.24	0.50	0.13	0S-1617
	7/8	0.24	0.50	0.13	2B-2695
	1	0.24	0.50	0.13	0S-1618
	1 1/8	0.24	0.50	0.25	4B-3388
	1 1/4	0.24	0.50	0.37	1B-7182
	1 3/8	0.24	0.50	0.50	1B-2790
	1 1/2	0.24	0.50	0.09	1A-9579

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/16-18	1 5/8	0.24	0.50	0.75	1H-5514
	1 3/4	0.24	0.50	0.87	1B-9575
	2	0.24	0.50	1.13	2B-2694
	2 1/4	0.24	0.50	1.37	1D-4538
	2 1/2	0.24	0.50	1.63	1D-4539
	2 3/4	0.24	0.50	1.87	1D-4540
	3	0.24	0.50	2.13	1D-4541
	3 1/4	0.24	0.50	2.25	1F-5842
	3 1/2	0.24	0.50	2.63	1F-4111
	3 3/4	0.24	0.50	2.75	4B-0831
	4	0.24	0.50	3.00	4B-3903
	4 1/4	0.24	0.50	3.37	8H-8769
	4 1/2	0.24	0.50	3.63	3H-5932
	4 3/4	0.24	0.50	3.87	3H-3243
	5	0.24	0.50	4.13	1F-6296
	5 1/2	0.24	0.50	4.63	5L-1761
	5 3/4	0.24	0.50	4.87	8M-1865
	6	0.24	0.50	5.13	5P-0059
	6 1/2	0.24	0.50	5.37	4F-3508
	Nut				5S-0003
	Washer				9M-1974
3/8-16	1/2	0.29	0.56	0.09	4F-4879
	5/8	0.29	0.56	0.09	0T-0102
	3/4	0.29	0.56	0.13	0S-0509
	7/8	0.29	0.56	0.13	0L-1351
	1	0.29	0.56	0.13	0S-1594
	1 1/8	0.29	0.56	0.31	1A-2029
	1 1/4	0.29	0.56	0.25	0S-1588
	1 3/8	0.29	0.56	0.37	3B-1915
	1 1/2	0.29	0.56	0.37	0S-1591
	1 5/8	0.29	0.56	0.87	2A-4639
	1 3/4	0.29	0.56	0.75	0S-1571
	1 7/8	0.29	0.56	1.06	1C-2251
	2	0.29	0.56	1.00	0S-1590
	2 1/4	0.29	0.56	1.25	0L-2070
	2 1/2	0.29	0.56	1.50	0L-1143
	2 3/4	0.29	0.56	1.75	0T-0573
	3	0.29	0.56	2.00	0S-1619

* High strength bolt.

Hardware

Hex Head Bolts / Inch / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/8-16	3 1/4	0.29	0.56	2.25	0L-1352
	3 1/2	0.29	0.56	2.50	0T-0065
	3 3/4	0.29	0.56	2.50	0S-1608
	4	0.29	0.56	3.00	8S-9191
	4 1/4	0.29	0.56	3.25	0T-0055
	4 1/2	0.29	0.56	3.25	1A-5964
	4 3/4	0.29	0.56	3.75	1A-5183
	5	0.29	0.56	4.00	5B-9603
	5 1/4	0.29	0.56	4.25	5B-2638
	5 1/2	0.29	0.56	4.50	5F-4899
	5 3/4	0.29	0.56	4.75	7F-3425
	6	0.29	0.56	4.87	1D-4706
	6 1/4	0.29	0.56	4.75	8F-8544
	6 1/2	0.29	0.56	5.25	4F-0411
	7	0.29	0.56	5.75	9F-8999
	7 1/2	0.29	0.56	6.25	6B-1557
	8	0.29	0.56	6.75	8F-6350
	8 1/2	0.29	0.56	7.25	9F-2773
	9	0.29	0.56	7.75	5F-6044
	9 1/2	0.29	0.56	8.25	4H-3283
	11	0.29	0.56	9.75	5P-1415
	12	0.29	0.56	11.00	7M-1202
	Nut				9S-8752
	Washer				5M-2894
7/16-14	3/4	0.34	0.69	0.19	5P-0060
	7/8	0.34	0.69	0.13	3L-0526
	1	0.34	0.69	0.13	0T-0318
	1 1/8	0.34	0.69	0.13	4F-8965
	1 1/4	0.34	0.69	0.13	0T-0320
	1 3/8	0.34	0.69	0.25	3H-5368
	1 1/2	0.34	0.69	0.37	0T-0772
	1 3/4	0.34	0.69	0.63	0T-0768
	2	0.34	0.69	0.87	0T-0319
	2 1/4	0.34	0.69	1.13	1D-4707
	2 1/2	0.34	0.69	1.37	1D-4703
	2 3/4	0.34	0.69	1.63	1D-4556
	3	0.34	0.69	1.87	4F-5192
	3 1/4	0.34	0.69	2.13	3B-8428
	3 1/2	0.34	0.69	2.37	7F-8698
	3 3/4	0.34	0.69	2.63	9F-2491
	4	0.34	0.69	2.87	4F-7226

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/16-14	4 1/4	0.34	0.69	3.13	2J-5907
	4 1/2	0.34	0.69	3.25	4B-7220
	4 3/4	0.34	0.69	3.63	7H-3472
	5	0.34	0.69	3.75	5B-5059
	5 1/2	0.34	0.69	4.37	8F-4197
	6	0.34	0.69	4.87	8F-6419
	6 1/2	0.34	0.69	5.13	3L-0742
	7	0.34	0.69	5.63	7H-7209
	7 1/2	0.34	0.69	6.13	2L-7442
	8	0.34	0.69	6.62	4L-7925
	9	0.34	0.69	7.63	4L-7926
	11	0.34	0.69	9.63	3L-4317
	Nut				3S-1546
	Washer				5P-8244
1/2-13	1/2	0.39	0.75	0.06	1K-6705
	3/4	0.39	0.75	0.13	0S-1620
	7/8	0.39	0.75	0.28	2H-3855
	1	0.39	0.75	0.13	0S-1621
	1 1/8	0.39	0.75	0.13	6H-1717
	1 1/4	0.39	0.75	0.31	0S-1595
	1 3/8	0.39	0.75	0.44	7B-3235
	1 1/2	0.39	0.75	0.25	0S-1585
	1 3/4	0.39	0.75	0.44	0S-1587
	2	0.39	0.75	0.75	1A-1460
	2 1/4	0.39	0.75	1.00	9X-8873
	2 1/4	0.39	0.75	1.00	2B-0947*
	2 1/2	0.39	0.75	1.25	9S-1366
	2 3/4	0.39	0.75	1.50	1A-5822
	3	0.39	0.75	1.75	9X-8874
	3	0.39	0.75	1.75	0L-1329*
	3 1/4	0.39	0.75	2.00	0V-0375
	3 1/2	0.39	0.75	2.25	9X-8875
	3 1/2	0.39	0.75	2.25	1D-4566*
	3 3/4	0.39	0.75	2.50	1B-2886
	4	0.39	0.75	2.75	0S-1573
	4 1/4	0.39	0.75	3.00	1D-4569
	4 1/2	0.39	0.75	3.25	8S-9089
	4 3/4	0.39	0.75	3.50	9X-8876
	4 3/4	0.39	0.75	3.50	2B-2006*
	5	0.39	0.75	3.75	9X-8877
	5	0.39	0.75	3.75	2H-6488*

* High strength bolt.

Hex Head Bolts / Inch / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/2-13	5 1/4	0.39	0.75	4.00	9X-8878
	5 1/4	0.39	0.75	4.00	6F-5282*
	5 1/2	0.39	0.75	4.25	9X-8879
	5 1/2	0.39	0.75	4.25	1D-4572*
	5 3/4	0.39	0.75	4.50	8F-8804
	6	0.39	0.75	4.75	1D-4574
	6 1/4	0.39	0.75	4.75	9H-8260
	6 1/2	0.39	0.75	5.00	2A-1531
	7	0.39	0.75	5.50	1A-7669
	7 1/2	0.39	0.75	6.00	1A-0168
	8	0.39	0.75	6.50	9S-1374
	8 1/2	0.39	0.75	7.00	1B-3573
	9	0.39	0.75	7.50	6M-9613
	10	0.39	0.75	8.50	6F-5281
	10 1/2	0.39	0.75	9.00	8M-0139*
	11	0.39	0.75	9.50	8S-3887
	11 1/2	0.39	0.75	10.00	5P-5421*
	13	0.39	0.75	11.50	8S-6212*
	14	0.39	0.75	12.50	5M-7900*
	Nut				1F-7958
	Washer				5P-8245
9/16-12	1	0.43	0.87	0.12	3K-3379
	1 1/4	0.43	0.87	0.16	8S-4732
	1 3/8	0.43	0.87	0.17	4B-8519
	1 1/2	0.43	0.87	0.16	8S-4733
	2 1/2	0.43	0.87	1.13	8S-4735
	3	0.43	0.87	1.63	8S-4736
	3 1/2	0.43	0.87	2.13	8S-4737
	4	0.43	0.87	2.63	8S-4738
	4 1/2	0.43	0.87	3.13	8S-4739
	5	0.43	0.87	3.63	8S-4740
	5 1/2	0.43	0.87	4.13	8S-4741
	6	0.43	0.87	4.63	8S-4742
	8	0.43	0.87	6.38	9H-9129
	Nut				5P-0539
	Washer				5P-8246
	3/4	0.48	0.94	0.06	1H-9456
	1	0.48	0.94	0.19	0S-1624
	1 1/8	0.48	0.94	0.28	7S-9372
5/8-11	1 1/4	0.48	0.94	0.19	0S-1592
	1 3/8	0.48	0.94	0.19	4B-4043

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/8-11	1 1/2	0.48	0.94	0.19	0S-1566
	1 3/4	0.48	0.94	0.25	0S-1589
	2	0.48	0.94	0.50	9X-8880
	2	0.48	0.94	0.50	1A-1135*
	2 1/4	0.48	0.94	0.75	9X-8881
	2 1/4	0.48	0.94	0.75	8S-9092*
	2 1/2	0.48	0.94	0.63	9X-8882
	2 1/2	0.48	0.94	0.63	0S-1625*
	2 3/4	0.48	0.94	1.25	9X-8883
	2 3/4	0.48	0.94	1.25	1A-8537*
	3	0.48	0.94	1.50	1B-4367
	3 1/4	0.48	0.94	1.75	1D-4585
	3 1/2	0.48	0.94	2.00	1D-4586
	3 3/4	0.48	0.94	2.25	0L-1169
	4	0.48	0.94	2.50	0S-1569
	4 1/4	0.48	0.94	2.75	1D-4588
	4 1/2	0.48	0.94	3.00	1A-8651
	4 3/4	0.48	0.94	3.25	1D-4590
	5	0.48	0.94	3.50	1A-5405
	5 1/4	0.48	0.94	3.75	9X-8884
	5 1/4	0.48	0.94	3.75	7S-3224*
	5 1/2	0.48	0.94	4.00	1D-4593
	6	0.48	0.94	4.50	1D-4595
	6 1/4	0.48	0.94	4.50	5D-9514
	6 1/2	0.48	0.94	4.75	1D-4597
	7	0.48	0.94	5.25	1D-4599
	7 1/2	0.48	0.94	5.75	1D-4600
	8	0.48	0.94	6.25	1B-7709
	8 1/2	0.48	0.94	6.75	1D-4601
	9	0.48	0.94	7.25	2H-3756
	9 1/2	0.48	0.94	7.75	1D-4602
	11 1/2	0.48	0.94	9.75	5P-4624
	Nut				4K-0367
	Washer				5P-8247
3/4-10	1	0.58	1.13	0.31	7H-2069
	1 1/4	0.58	1.13	0.31	0S-1583
	1 1/2	0.58	1.13	0.31	0S-1626
	1 3/4	0.58	1.13	0.31	1A-0458
	2	0.58	1.13	0.31	0L-1178
	2 1/4	0.58	1.13	0.50	9X-8885
	2 1/4	0.58	1.13	0.50	2A-1538*

* High strength bolt.

Hardware

Hex Head Bolts / Inch / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/4-10	2 1/2	0.58	1.13	0.75	1A-8063
	2 3/4	0.58	1.13	1.00	9X-8886
	2 3/4	0.58	1.13	1.00	1D-4608*
	3	0.58	1.13	1.25	9X-8887
	3	0.58	1.13	1.25	1D-4609*
	3 1/4	0.58	1.13	1.50	9X-8888
	3 1/4	0.58	1.13	1.50	1D-4610*
	3 1/2	0.58	1.13	1.75	9X-8889
	3 1/2	0.58	1.13	1.75	3B-2968*
	3 3/4	0.58	1.13	2.00	7F-5227
	4	0.58	1.13	2.25	1D-4612
	4 1/4	0.58	1.13	2.50	0S-1756
	4 1/2	0.58	1.13	2.75	0S-1627
	4 3/4	0.58	1.13	3.00	3B-6753
	5	0.58	1.13	3.25	1D-4614
	5 1/4	0.58	1.13	3.50	6V-8199
	5 1/2	0.58	1.13	3.75	1D-4615
	5 3/4	0.58	1.13	4.00	6K-1330
	6	0.58	1.13	4.25	1D-4616
	6 1/4	0.58	1.13	4.25	1D-4617
	6 1/2	0.58	1.13	4.50	2B-1015
	7	0.58	1.13	5.00	1D-4620
	7 1/2	0.58	1.13	5.50	1D-4621
	8	0.58	1.13	6.00	1D-4622
	8 1/2	0.58	1.13	6.50	1D-4623
	9	0.58	1.13	7.00	1D-4624
	9 1/2	0.58	1.13	7.50	5J-1702
	10	0.58	1.13	8.00	8F-4225
	11 1/2	0.58	1.13	9.50	4J-7945
	13	0.58	1.13	11.00	031-9099
	Nut				2J-3506
	Washer				5P-8248
7/8-9	1 1/2	0.67	1.31	0.25	0T-0690
	1 3/4	0.67	1.31	0.37	2H-3757
	2	0.67	1.31	0.37	9X-8890
	2	0.67	1.31	0.37	0S-1973*
	2 1/4	0.67	1.31	0.37	9F-9522
	2 1/2	0.67	1.31	0.50	1D-4625
	2 3/4	0.67	1.31	0.75	9X-8891
	2 3/4	0.67	1.31	0.75	1D-4626*
	3	0.67	1.31	1.00	1D-4627
	3 1/4	0.67	1.31	1.25	9X-8892

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/8-9	3 1/4	0.67	1.31	1.25	1D-4628*
	3 1/2	0.67	1.31	1.50	9X-8893
	3 1/2	0.67	1.31	1.50	1D-4629*
	3 3/4	0.67	1.31	1.75	9X-8894
	3 3/4	0.67	1.31	1.75	2H-3856*
	4	0.67	1.31	2.00	9X-8895
	4	0.67	1.31	2.00	1D-4630*
	4 1/4	0.67	1.31	2.25	1D-4631
	4 1/2	0.67	1.31	2.50	1A-5576
	4 3/4	0.67	1.31	2.75	4J-8622
	5	0.67	1.31	3.00	9S-1351
	5 1/2	0.67	1.31	3.50	1D-4634
	6	0.67	1.31	3.75	9S-1322
	6 1/2	0.67	1.31	4.25	6J-1536
	7	0.67	1.31	4.75	1D-5976
	7 1/2	0.67	1.31	5.25	1K-9422
	8	0.67	1.31	5.75	1D-6259
	8 1/2	0.67	1.31	6.25	3K-7127
	9	0.67	1.31	6.75	6K-8739
	9 1/2	0.67	1.31	7.25	1D-6260
	10	0.67	1.31	7.75	2B-2391
	11	0.67	1.31	8.75	3K-3112
	12 1/2	0.67	1.31	10.25	4D-8317
	14	0.67	1.31	11.75	3K-0581
	15	0.67	1.31	12.75	3K-3183
	16	0.67	1.31	13.75	3K-6552
	Nut				2J-3505
	Washer				5P-8249
1-8	1 1/4	0.71	1.50	0.31	8S-4767
	1 1/2	0.71	1.50	0.31	0V-0450
	1 3/4	0.71	1.50	0.37	1J-7370
	2	0.71	1.50	0.75	1J-5257
	2 1/4	0.71	1.50	0.25	8S-9093
	2 1/2	0.71	1.50	0.50	1D-4635
	2 3/4	0.71	1.50	0.50	9S-1363
	3	0.71	1.50	0.75	1D-4709
	3 1/4	0.71	1.50	1.00	1D-4637
	3 1/2	0.71	1.50	1.25	1D-4638
	3 3/4	0.71	1.50	1.50	8H-5772
	4	0.71	1.50	1.75	9X-8896
	4	0.71	1.50	1.75	1D-4639*
	4 1/4	0.71	1.50	2.00	9X-8897

* High strength bolt.

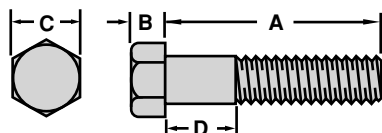
Hex Head Bolts / Inch / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1-8	4 1/4	0.71	1.50	2.00	1D-4640*
	4 1/2	0.71	1.50	2.25	1D-4641
	4 3/4	0.71	1.50	2.50	2A-1420
	5	0.71	1.50	2.75	9X-8898
	5	0.71	1.50	2.75	1D-4642*
	5 1/2	0.71	1.50	3.25	1D-4643
	6	0.71	1.50	3.75	9F-6936
	6 1/2	0.71	1.50	4.00	5B-5473
	7	0.71	1.50	4.50	5F-9338
	7 1/2	0.71	1.50	5.00	2B-7218
	8	0.71	1.50	5.50	1D-4644
	8 1/2	0.71	1.50	6.00	1D-4645
	9	0.71	1.50	6.50	1D-4646
	9 1/2	0.71	1.50	7.00	1D-4647
	10	0.71	1.50	7.50	2J-8348
	10 1/2	0.71	1.50	8.00	8F-6453
	11	0.71	1.50	8.50	8K-5130
	11 1/2	0.71	1.50	9.00	7K-4363
	12	0.71	1.50	10.50	2H-4010
	13	0.71	1.50	10.50	6J-4081
	14	0.71	1.50	10.50	6M-2001
	15	0.71	1.50	13.50	2H-4011
	16	0.71	1.50	14.00	6M-1029
	Nut				2J-3507
	Washer				5P-8250
1 1/8-7	2	0.72	1.69	0.25	3J-8281
	2 1/2	0.72	1.69	1.00	7J-7222
	2 3/4	0.72	1.69	0.44	2K-2037
	3	0.72	1.69	0.50	1J-2814
	3 1/2	0.72	1.69	1.00	1J-2175
	4	0.72	1.69	0.63	3N-1614
	4 1/4	0.72	1.69	1.75	5J-1572
	4 1/2	0.72	1.69	2.00	5M-0544
	5 1/4	0.72	1.69	3.00	6J-1551
	6	0.72	1.69	3.50	8H-5727
	6 1/2	0.72	1.69	3.75	8F-4486
	Nut				4J-5977
	Washer				3S-1349
1 1/4-7	2 1/2	0.81	1.87	0.44	3F-6353
	3	0.81	1.87	0.44	3R-2299
	3 1/4	0.81	1.87	0.50	1J-5484

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1 1/4-7	3 1/2	0.81	1.87	0.75	2B-1955
	4	0.81	1.87	1.25	2H-3758
	4 1/4	0.81	1.87	1.50	1S-6560
	4 1/2	0.81	1.87	1.75	3R-2300
	4 3/4	0.81	1.87	2.00	8F-1156
	5	0.81	1.87	2.25	2H-1618
	5 1/2	0.81	1.87	2.75	1B-2721
	6	0.81	1.87	3.25	2H-1537
	6 1/2	0.81	1.87	3.50	6H-1628
	7	0.81	1.87	4.00	6V-2624
	8	0.81	1.87	5.00	3F-9025
	8 1/2	0.81	1.87	5.50	1J-6775
	9	0.81	1.87	6.00	1K-9418
	9 1/2	0.81	1.87	6.50	1K-9420
	10	0.81	1.87	7.00	1D-4649
	10 1/2	0.81	1.87	7.50	6B-0388
	11	0.81	1.87	8.25	1K-9415
	13	0.81	1.87	10.50	1K-4378
	14	0.81	1.87	11.00	6V-1734
	15	0.81	1.87	12.00	031-0213
	Nut				3K-9770
	Washer				4K-0684
1 1/2-6	3 1/2	0.97	2.25	0.40	3J-1805
	4	0.97	2.25	0.50	6V-8970
	4 1/2	0.97	2.25	1.00	6V-8536
	4 1/2	0.97	2.25	1.25	138-8455
	5	0.97	2.25	1.75	1K-9414
	6	0.97	2.25	2.50	131-2627
	7	0.97	2.25	2.50	4R-9112
	9	0.97	2.25	5.50	6V-7977
	11 1/2	0.97	2.25	7.50	6V-0659
	12 1/2	0.97	2.25	9.00	127-4840
	Nut				9S-8216
	Washer				3S-6162

* High strength bolt.

Hardware



Hex Head Bolts / Inch / Fine Thread UNF / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/4-28	1/2	0.19	0.44	0.09	6F-7027
	5/8	0.19	0.44	0.08	0S-1570
	3/4	0.19	0.44	0.08	0T-0284
	7/8	0.19	0.44	0.08	0L-1340
	1	0.19	0.44	0.25	0S-1597
	1 1/8	0.19	0.44	0.37	0L-1590
	1 1/4	0.19	0.44	0.13	4B-2152
	1 1/2	0.19	0.44	0.75	5F-4475
	1 3/4	0.19	0.44	1.00	2D-7563
	2	0.19	0.44	1.25	4B-8701
	2 1/4	0.19	0.44	1.50	2B-8593
	2 1/2	0.19	0.44	1.50	1A-9919
	3	0.19	0.44	2.25	8S-4712
	3 1/2	0.19	0.44	2.75	8S-4713
	4	0.19	0.44	3.25	8S-4714
	4 1/2	0.19	0.44	3.75	8S-4715
	5	0.19	0.44	4.25	8S-4716
	Nut				9S-8748
	Washer				5P-0537
5/16-24	1/2	0.24	0.50	0.09	2F-2093
	5/8	0.24	0.50	0.13	2H-3737
	3/4	0.24	0.50	0.13	1A-2343
	7/8	0.24	0.50	0.09	4B-9883
	1	0.24	0.50	0.13	2H-3738
	1 1/8	0.24	0.50	0.66	6H-0187
	1 1/4	0.24	0.50	0.37	1B-1293
	1 3/8	0.24	0.50	0.50	2A-1371
	1 1/2	0.24	0.50	0.63	1B-0581
	1 3/4	0.24	0.50	0.87	2H-3708
	2	0.24	0.50	1.13	1H-5403
	2 1/4	0.24	0.50	1.37	2H-3739
	2 1/2	0.24	0.50	1.63	8S-4717
	2 3/4	0.24	0.50	1.87	4B-1028
	3	0.24	0.50	2.13	8S-4718
	3 1/4	0.24	0.50	2.37	7F-0938
	3 1/2	0.24	0.50	2.63	8S-4719
	4	0.24	0.50	3.13	8S-4720
	4 1/2	0.24	0.50	3.63	8S-4721

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/16-24	5	0.24	0.50	4.13	8S-4722
	Nut				9S-8751
	Washer				9M-1974
3/8-24	1/2	0.29	0.56	0.09	0L-1138
	5/8	0.29	0.56	0.09	0T-0642
	3/4	0.29	0.56	0.13	0L-0472
	7/8	0.29	0.56	0.09	0T-0703
	1	0.29	0.56	0.19	6F-7030
	1 1/8	0.29	0.56	0.13	5B-2208
	1 1/4	0.29	0.56	0.25	1A-2209
	1 3/8	0.29	0.56	0.37	2A-4996
	1 1/2	0.29	0.56	0.50	0T-0924
	1 3/4	0.29	0.56	0.75	0L-0478
	2	0.29	0.56	1.00	0S-1748
	2 1/4	0.29	0.56	1.25	0L-0639
	2 1/2	0.29	0.56	1.50	0L-1648
	2 3/4	0.29	0.56	1.75	0L-0139
	3	0.29	0.56	2.00	6F-7031
	3 1/4	0.29	0.56	2.25	0S-1605
	3 3/4	0.29	0.56	2.50	1B-3680
	4	0.29	0.56	3.00	0T-0513
	4 1/4	0.29	0.56	3.25	1B-5082
	4 1/2	0.29	0.56	3.50	6F-8425
	5	0.29	0.56	4.00	1A-2116
	5 1/2	0.29	0.56	4.50	5B-6579
	6	0.29	0.56	5.00	6F-4736
	6 1/2	0.29	0.56	5.25	035-2353
	8	0.29	0.56	6.75	4H-5883
	Nut				3S-2713
	Washer				5M-2894
7/16-20	1	0.34	0.69	0.13	0T-0840
	1 1/4	0.34	0.69	0.13	0T-0244
	1 1/2	0.34	0.69	0.37	8S-4723
	1 3/4	0.34	0.69	0.63	1A-4350
	2	0.34	0.69	0.87	0T-0489
	2 1/4	0.34	0.69	1.13	8S-4724
	2 1/2	0.34	0.69	1.37	1B-0572
	2 3/4	0.34	0.69	1.63	8S-4725

* High strength bolt.

Hex Head Bolts / Inch / Fine Thread UNF / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/16-20	3	0.34	0.69	1.87	8S-4726
	3 1/4	0.34	0.63	1.75	5D-4085
	3 1/2	0.34	0.69	2.37	1J-6298
	3 3/4	0.34	0.69	2.63	8S-4727
	4	0.34	0.69	2.87	8S-4728
	4 1/2	0.34	0.69	3.37	8S-4729
	5	0.34	0.69	3.87	8S-4730
	6	0.34	0.69	4.87	8S-4731
	9	0.34	0.69	7.63	2L-4523
	Nut				9S-8905
	Washer				5P-8244
1/2-20	3/4	0.39	0.75	0.13	6F-7032
	7/8	0.39	0.75	0.13	0T-0598
	1	0.39	0.75	0.13	0S-1629
	1 1/4	0.39	0.75	0.13	0S-1593
	1 3/8	0.39	0.75	0.13	4K-7502
	1 1/2	0.39	0.75	0.25	0S-1603
	1 3/4	0.39	0.75	0.50	0S-1584
	2	0.39	0.75	0.75	0S-1579
	2 1/4	0.39	0.75	1.00	0S-0484
	2 1/2	0.39	0.75	1.25	0S-1604
	2 3/4	0.39	0.75	1.50	0S-1599
	3	0.39	0.75	1.75	0L-1732
	3 1/4	0.39	0.75	2.00	0L-1558
	3 1/2	0.39	0.75	2.25	0L-2315
	3 3/4	0.39	0.75	2.50	1A-1952
	4	0.39	0.75	2.75	0L-1559
	4 1/4	0.39	0.75	3.00	6F-7033
	4 1/2	0.39	0.75	3.25	1A-3046
	4 3/4	0.39	0.75	3.50	0L-0557
	5	0.39	0.75	3.75	1B-1422
	5 1/2	0.39	0.75	4.25	3H-1097
	5 3/4	0.39	0.75	4.50	5M-9979
	6	0.39	0.75	4.75	9F-1595
	6 1/2	0.39	0.75	5.00	2H-3747
	7	0.39	0.75	3.37	3H-1930
	7 1/2	0.39	0.75	6.00	2H-3748
	8	0.39	0.75	6.50	1A-3967
	Nut				6B-6684
	Washer				5P-8245

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
9/16-18	1 1/4	0.43	0.87	0.13	8S-4743
	1 3/8	0.43	0.87	0.13	8S-4761
	1 1/2	0.43	0.87	0.13	8S-4744
	1 3/4	0.43	0.87	0.38	8S-4762
	2	0.43	0.87	0.63	8S-4745
	2 1/4	0.43	0.87	0.88	8S-4763
	2 1/2	0.43	0.87	1.13	8S-4746
	2 3/4	0.43	0.87	1.38	8S-4764
	3	0.43	0.87	1.38	6S-0753
	3 1/2	0.43	0.87	2.13	8S-4747
	3 3/4	0.43	0.87	2.38	2S-1216
	4	0.43	0.87	2.63	8S-4748
	4 1/2	0.43	0.87	3.13	8S-4749
	5	0.43	0.87	3.63	8S-4750
	5 1/2	0.43	0.87	4.13	8S-4751
	6	0.43	0.87	4.63	8S-4752
	Nut				5P-0540
	Washer				5P-8246
5/8-18	1	0.48	0.94	0.19	6F-7316
	1 1/4	0.48	0.94	0.19	1A-4273
	1 3/8	0.48	0.94	0.19	4H-4033
	1 1/2	0.48	0.94	0.19	2L-1701
	1 3/4	0.48	0.94	0.25	5B-0841
	2	0.48	0.94	0.50	0S-1576
	2 1/4	0.48	0.94	0.75	0S-1577
	2 1/2	0.48	0.94	1.00	0S-1600
	2 3/4	0.48	0.94	1.25	0S-1601
	3	0.48	0.94	1.50	8B-5144
	3 1/4	0.48	0.94	1.75	0S-2318
	3 1/2	0.48	0.94	2.00	0S-1602
	3 3/4	0.48	0.94	2.25	0S-2353
	4	0.48	0.94	2.50	0V-0459
	4 1/4	0.48	0.94	2.75	0V-0523
	4 1/2	0.48	0.94	3.00	0T-0857
	4 3/4	0.48	0.94	3.25	1A-3203
	5	0.48	0.94	3.50	6F-7024
	5 1/2	0.48	0.94	4.00	2A-2814
	5 3/4	0.48	0.94	4.25	1B-7538
	6	0.48	0.94	4.50	2B-6030
	7	0.48	0.94	5.25	1B-3623

* High strength bolt.

Hardware

Hex Head Bolts / Inch / Fine Thread UNF / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/8-18	7 1/2	0.48	0.94	5.75	7H-5569
	8	0.48	0.94	6.25	8S-4753
	8 1/2	0.48	0.94	6.75	6V-1873
	11	0.48	0.94	9.25	5K-7144
	12	0.48	0.94	10.25	6K-0953
	Nut				6B-6683
	Washer				5P-8247
3/4-16	1 1/4	0.58	1.13	0.19	2H-3740
	1 1/2	0.58	1.13	0.19	2H-3725
	1 3/4	0.58	1.13	0.19	1A-0075
	2	0.58	1.13	0.25	9S-1362
	2 1/4	0.58	1.13	0.50	0S-1897
	2 1/2	0.58	1.13	0.75	0T-0856
	2 3/4	0.58	1.13	1.00	8F-3152
	3	0.58	1.13	1.25	0S-1575
	3 1/4	0.58	1.13	1.50	6B-5310
	3 1/2	0.58	1.13	1.75	9S-1364
	3 3/4	0.58	1.13	2.00	1A-3103
	4	0.58	1.13	2.25	0L-1328
	4 1/4	0.58	1.13	2.50	1D-3419
	4 3/4	0.58	1.13	3.00	7B-5163
	5	0.58	1.13	3.25	0S-1607
	5 1/2	0.58	1.13	3.75	8F-6123
	6	0.58	1.13	4.25	7B-4436
	6 1/2	0.58	1.13	4.50	6F-7901
	7	0.58	1.13	5.00	2H-3749
	7 1/2	0.58	1.13	5.50	2H-3750
	8	0.58	1.13	6.00	4F-0925
	8 1/2	0.58	1.13	6.50	8S-4766
	9	0.58	1.13	7.00	7F-1926
	9 1/2	0.58	1.13	7.50	8B-7943
	10	0.58	1.13	8.00	2K-2813
	11	0.58	1.13	9.00	5P-8288
	11 1/2	0.58	1.13	9.50	2P-9845
	Nut				6B-6682
	Washer				5P-8248
7/8-14	1 1/2	0.67	1.31	0.25	8S-4754
	1 3/4	0.67	1.31	0.25	8F-7496
	2	0.67	1.31	0.25	2H-3854
	2 1/4	0.67	1.31	0.25	6F-7035
	2 1/2	0.67	1.31	0.50	1D-5873
	2 3/4	0.67	1.31	0.75	0S-1596

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/8-14	3	0.67	1.31	1.00	6F-7036
	3 1/4	0.67	1.31	1.25	2H-3741
	3 1/2	0.67	1.31	1.50	1A-0224
	3 3/4	0.67	1.31	1.75	0L-2090*
	4	0.67	1.31	2.00	0T-0603
	4 1/4	0.67	1.31	2.25	1D-3848
	4 1/2	0.67	1.31	2.50	4H-8340
	5	0.67	1.31	3.00	1D-6089
	5 1/2	0.67	1.31	3.50	0S-1606
	6	0.67	1.31	4.00	7F-6100
	6 1/2	0.67	1.31	4.25	6F-4991
	7	0.67	1.31	4.75	4F-6426
	7 1/2	0.67	1.31	5.25	2K-1747
	8	0.67	1.31	5.75	7F-0479
	9	0.67	1.31	6.75	2L-1091
	11	0.67	1.31	8.75	3B-4978
	11 1/2	0.67	1.31	9.25	4B-7572
	Nut				1A-5666
	Washer				5P-8249
1-14	1 1/2	0.71	1.50	0.13	8S-4755
	1 3/4	0.71	1.50	0.13	8S-4756
	2	0.71	1.50	0.25	2H-3743
	2 1/4	0.71	1.50	0.25	2H-3744
	2 1/2	0.71	1.50	0.25	5B-9385
	2 3/4	0.71	1.50	0.50	2H-3745
	3	0.71	1.50	0.75	6B-9194
	3 1/4	0.71	1.50	1.00	6F-7037
	3 1/2	0.71	1.50	1.25	9S-1368
	3 3/4	0.71	1.50	1.50	9S-1367
	4	0.71	1.50	1.75	1F-7464*
	4 1/2	0.71	1.50	2.25	0V-0269
	4 3/4	0.71	1.50	2.50	7B-7181
	5	0.71	1.50	2.75	2H-3746
	5 1/2	0.71	1.50	3.25	8F-6124
	6	0.71	1.50	3.75	3F-6645
	6 1/2	0.71	1.50	4.00	7F-4283
	7	0.71	1.50	4.50	5F-6932
	7 1/2	0.71	1.50	5.00	2H-0637
	8	0.71	1.50	5.50	8S-4757
	8 1/2	0.71	1.50	6.00	3J-5981
	9	0.71	1.50	6.50	9F-8122
	9 1/2	1.50	0.39	7.00	5F-7136

* High strength bolt.

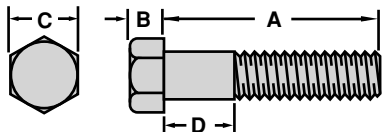
Hex Head Bolts / Inch / Fine Thread UNF / Phosphate & Oil Coated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1-14	10	0.71	1.50	7.50	1L-8586
	Nut				1A-1935
	Washer				5P-8250
1 1/8-12	2 1/4	0.72	1.69	0.31	1A-2208
	2 1/2	0.72	1.69	0.50	2H-3751
	3 1/4	0.72	1.69	2.00	8B-0477
	4	0.72	1.69	1.50	8F-3895
	4 1/2	0.72	1.69	2.00	8H-4040
	5	0.72	1.69	2.50	7B-9215
	5 1/2	0.72	1.69	3.00	4B-5219
	6	0.72	1.69	3.50	2D-3424
	6 1/2	0.72	1.69	3.75	3B-5752
	7	0.72	1.69	4.25	2D-8930
	7 1/2	0.72	1.69	4.75	9M-3742
	8	0.72	1.69	5.25	1S-3647
	9	0.72	1.69	6.25	2M-3530
	Nut				3S-1356
	Washer				3S-1349
1 1/4-12	2 1/4	0.81	1.87	0.25	7B-2289
	3	0.81	1.87	0.25	7F-6112
	3 1/2	0.81	1.87	0.75	2K-0439
	4	0.81	1.87	1.25	5P-2663
	4 3/4	0.81	1.87	2.00	7B-8791
	5 1/2	0.81	1.87	2.75	2J-2555
	6	0.81	1.87	3.25	5H-1649
	6 1/2	0.81	1.87	3.50	4H-6511
	7 1/2	0.81	1.87	4.50	7F-9464
	8	0.81	1.87	5.00	4J-0924
	8 1/2	0.81	1.87	5.50	5F-9339
	9 1/2	0.81	1.87	6.50	3S-7079
	10	0.81	1.87	7.00	4H-8009
	11 1/2	0.81	1.87	8.38	6F-4438
	12	0.81	1.87	9.00	7H-3579
	13	0.81	1.87	10.88	4H-2400
	Nut				7H-7539
	Washer				4K-0684
1 1/2-12	3	0.97	2.25	0.25	7X-3305
	3 3/4	0.97	2.25	0.50	1J-2921
	4	0.97	2.25	0.75	8F-5535
	4 1/2	0.97	2.25	1.25	1F-6762
	5	0.97	2.25	1.75	5P-9402

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1 1/2-12	6	0.97	2.25	2.75	5F-9891
	7	0.97	2.25	3.50	8F-1692
	8	0.97	2.25	4.50	2D-7687
	9	0.97	2.25	5.50	5F-3492
	10	0.97	2.25	7.48	5P-9384
	Nut				8H-3390
	Washer				3S-6162
2-12	8	0.97	3.00	1.75	5R-8907

* High strength bolt.

Hardware



Hex Head Bolts / Inch / Coarse Thread UNC / Zinc Dichromate Plated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/4-20	1/2	0.19	0.44	0.06	5S-7349
	5/8	0.19	0.44	0.13	8T-9364
	3/4	0.19	0.44	0.13	4M-5281
	7/8	0.19	0.44	0.13	1H-3337
	1	0.19	0.44	0.13	8T-8908
	1 1/8	0.19	0.44	0.37	6D-2928
	1 1/4	0.19	0.44	0.13	7X-2501
	1 1/2	0.19	0.44	0.25	4M-5282
	1 3/4	0.19	0.44	1.00	5P-2675
	2	0.19	0.44	1.13	8T-9367
	2 1/4	0.19	0.44	1.37	8T-9368
	2 1/2	0.19	0.44	1.75	7X-0264
	2 3/4	0.19	0.44	2.00	7X-0265
	3	0.19	0.44	2.00	7X-0266
	3 1/4	0.19	0.44	2.50	7X-0267
	3 1/2	0.19	0.44	2.75	7X-0268
	3 3/4	0.19	0.44	3.00	8C-3793
	4	0.19	0.44	3.25	7X-0269
	5	0.19	0.44	4.25	8T-8909
	5 1/2	0.19	0.44	4.50	7X-0271
	Nut				6V-8185
	Washer				8T-4205
5/16-18	1/2	0.24	0.50	0.06	8T-5391
	5/8	0.24	0.50	0.13	5K-0906
	3/4	0.24	0.50	0.13	4M-0061
	7/8	0.24	0.50	0.13	8T-9043
	1	0.24	0.50	0.13	4M-6425
	1 1/8	0.24	0.50	0.25	6V-5782
	1 1/4	0.24	0.50	0.37	6V-8918
	1 1/2	0.24	0.50	0.09	8C-3121
	1 3/4	0.24	0.50	0.87	7X-0440
	2	0.24	0.50	1.13	8T-8911
	2 1/4	0.24	0.50	1.37	8T-8912
	2 1/2	0.24	0.50	1.63	5P-2955
	2 3/4	0.24	0.50	1.87	7X-0274
	3	0.24	0.50	2.13	4M-6424
	3 1/4	0.24	0.50	2.25	7X-0275
	3 1/2	0.24	0.50	2.63	7X-0276
	3 3/4	0.24	0.50	2.75	7X-0277

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/16-18	4	0.24	0.50	3.00	7X-0278
	4 3/4	0.24	0.50	3.87	7X-0279
	5	0.24	0.50	4.13	7X-0280
	5 1/2	0.24	0.50	4.63	7X-0281
	6 1/2	0.24	0.50	5.37	7X-0282
	Nut				6V-8189
	Washer				8T-4224
3/8-16	1/2	0.29	0.56	0.09	8T-9371
	5/8	0.29	0.56	0.09	5P-8167
	3/4	0.29	0.56	0.13	5M-3062
	7/8	0.29	0.56	0.13	5S-7379
	1	0.29	0.56	0.13	4L-6454
	1 1/8	0.29	0.56	0.31	8T-2502
	1 1/4	0.29	0.56	0.25	9B-7237
	1 1/2	0.29	0.56	0.37	4L-9337
	1 3/4	0.29	0.56	0.75	5S-7383
	2	0.29	0.56	1.00	8T-2501
	2 1/4	0.29	0.56	1.25	8T-9377
	2 1/2	0.29	0.56	1.50	4L-6459
	2 3/4	0.29	0.56	1.75	8T-9101
	3	0.29	0.56	2.00	8T-7008
	3 1/4	0.29	0.56	2.25	8T-8915
	3 1/2	0.29	0.56	2.50	7X-0290
	3 3/4	0.29	0.56	2.50	7X-0291
	4	0.29	0.56	3.00	8T-9378
	4 1/4	0.29	0.56	3.25	8T-9379
	4 1/2	0.29	0.56	3.25	7X-0292
	4 3/4	0.29	0.56	3.75	7X-0293
	5	0.29	0.56	4.00	7X-0294
	5 1/4	0.29	0.56	4.25	7X-0295
	5 1/2	0.29	0.56	4.50	7X-0296
	5 3/4	0.29	0.56	4.75	7X-0297
	6	0.29	0.56	4.87	8C-7323
	6 1/2	0.29	0.56	5.25	7X-0300
	7	0.29	0.56	5.75	7X-0301
	7 1/2	0.29	0.56	6.25	7X-0302
	8	0.29	0.56	6.75	7X-0303
	8 1/2	0.29	0.56	7.25	7X-0304
	9	0.29	0.56	7.75	7X-0305

Hex Head Bolts / Inch / Coarse Thread UNC / Zinc Dichromate Plated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/8-16	9 1/2	0.29	0.56	8.25	4H-3283
	Nut				6V-8801
	Washer				8T-4896
7/16-14	3/4	0.34	0.69	0.19	7X-0307
	7/8	0.34	0.69	0.13	7X-0272
	1	0.34	0.69	0.13	8T-9380
	1 1/8	0.34	0.69	0.13	8T-6973
	1 1/4	0.34	0.69	0.13	8T-9382
	1 1/2	0.34	0.69	0.37	8T-8916
	1 3/4	0.34	0.69	0.63	8C-6877
	2	0.34	0.69	0.87	7X-0310
	2 1/4	0.34	0.69	1.13	7X-0311
	2 1/2	0.34	0.69	1.37	7X-0312
	2 3/4	0.34	0.69	1.63	7X-0313
	3	0.34	0.69	1.87	7X-0314
	3 1/4	0.34	0.69	2.13	7X-0315
	3 1/2	0.34	0.69	2.37	7X-0316
	3 3/4	0.34	0.69	2.63	7X-0317
	4	0.34	0.69	2.87	7X-0318
	4 1/4	0.34	0.69	3.13	7X-0319
	4 3/4	0.34	0.69	3.63	7H-3472
	5	0.34	0.69	3.75	7X-0320
	5 1/2	0.34	0.69	4.37	7X-0321
	6	0.34	0.69	4.87	7X-0322
	Nut				7X-0447
	Washer				8T-5360
1/2-13	3/4	0.39	0.75	0.13	8T-9383
	7/8	0.39	0.75	0.28	8T-9384
	1	0.39	0.75	0.13	5P-2228
	1 1/8	0.39	0.75	0.13	5C-6565
	1 1/4	0.39	0.75	0.31	8T-8917
	1 1/2	0.39	0.75	0.25	5P-2566
	1 3/4	0.39	0.75	0.44	8T-8919
	2	0.39	0.75	0.75	8T-4835
	2 1/4	0.39	0.75	1.00	5P-2424
	2 1/2	0.39	0.75	1.25	7X-0325
	2 3/4	0.39	0.75	1.50	8T-9389
	3	0.39	0.75	1.75	7X-0326
	3 1/4	0.39	0.75	2.00	8T-8920
	3 1/2	0.39	0.75	2.25	7X-0328
	3 3/4	0.39	0.75	2.50	8T-9391
	4	0.39	0.75	2.75	6V-4432

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/2-13	4 1/4	0.39	0.75	3.00	7X-0331
	4 1/2	0.39	0.75	3.25	7X-0332
	4 3/4	0.39	0.75	3.50	7X-0333
	5	0.39	0.75	3.75	7X-0334
	5 1/4	0.39	0.75	4.00	7X-0335
	5 1/2	0.39	0.75	4.25	7X-0336
	5 3/4	0.39	0.75	4.50	7X-0337
	6	0.39	0.75	4.75	7X-0338
	6 1/2	0.39	0.75	5.00	7X-0340
	7	0.39	0.75	5.50	7X-0341
	7 1/2	0.39	0.75	6.00	8T-9392
	8 1/2	0.39	0.75	7.00	7X-0471
	Nut				6V-8188
	Washer				8T-4223
9/16-12	2	0.43	0.87	0.63	8S-4734
5/8-11	1	0.48	0.94	0.19	5C-6266
	1 1/4	0.48	0.94	0.19	7X-0343
	1 1/2	0.48	0.94	0.19	8T-9393
	1 3/4	0.48	0.94	0.25	7X-0345
	2 1/4	0.48	0.94	0.75	7X-0347
	2 1/2	0.48	0.94	0.63	8T-6871
	2 3/4	0.48	0.94	1.25	8C-6362
	3	0.48	0.94	1.50	7X-0349
	3 1/4	0.48	0.94	1.75	8T-9396
	3 1/2	0.48	0.94	2.00	7X-0350
	3 3/4	0.48	0.94	2.25	7X-0351
	4	0.48	0.94	2.50	7X-0352
	4 1/4	0.48	0.94	2.75	7X-0353
	4 1/2	0.48	0.94	3.00	7X-0354
	4 3/4	0.48	0.94	3.25	7X-0355
	5	0.48	0.94	3.50	7X-0356
	5 1/4	0.48	0.94	3.75	7X-0357
	5 1/2	0.48	0.94	4.00	7X-0358
	6	0.48	0.94	4.50	7X-0359
	6 1/2	0.48	0.94	4.75	7X-0361
	7	0.48	0.94	5.25	7X-0362
	8	0.48	0.94	6.25	7X-0363
	8 1/2	0.48	0.94	6.75	7X-0364
	9 1/2	0.48	0.94	7.75	7X-7890
	Nut				7X-0448
	Washer				8T-4122
3/4-10	1 1/4	0.58	1.13	0.31	8T-9397

Hardware

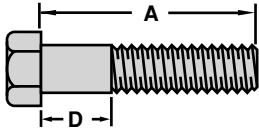
Hex Head Bolts / Inch / Coarse Thread UNC / Zinc Dichromate Plated

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/4-10	1 1/2	0.58	1.13	0.31	7X-0365
	1 3/4	0.58	1.13	0.31	8T-9398
	2	0.58	1.13	0.31	7X-0366
	2 1/4	0.58	1.13	0.50	8T-9399
	2 1/2	0.58	1.13	0.75	8T-8924
	2 3/4	0.57	1.13	1.00	8C-6857
	3	0.58	1.13	1.25	7X-0368
	3 1/4	0.58	1.13	1.50	7X-0369
	3 1/2	0.58	1.13	1.75	7X-0370
	3 3/4	0.58	1.13	2.00	7X-0371
	4	0.58	1.13	2.25	8C-8842
	4 1/4	0.58	1.13	2.50	7X-0372
	4 1/2	0.58	1.13	2.75	8T-9311
	4 3/4	0.58	1.13	3.00	8T-8925
	5	0.58	1.13	3.25	7X-0375
	5 1/2	0.58	1.13	3.75	7X-0373
	5 3/4	0.58	1.13	4.00	7X-0374
	6	0.58	1.13	4.25	8T-9312
	6 1/2	0.58	1.13	4.50	7X-0377
	7	0.58	1.13	5.00	8T-9313
	7 1/2	0.58	1.13	5.50	1J-8930
	8	0.58	1.13	6.00	5P-4135
	8 1/2	0.58	1.13	6.50	7X-0378
	9	0.58	1.13	7.00	7X-3179
	10	0.58	1.13	8.00	8F-4225
	Nut				6V-8182
	Washer				8T-4994
7/8-9	1 1/2	0.67	1.31	0.25	7X-0379
	1 3/4	0.67	1.31	0.37	7X-0380
	2	0.67	1.31	0.37	7X-0381
	2 1/4	0.67	1.31	0.37	7X-0382
	2 1/2	0.67	1.31	0.50	8T-9400
	2 3/4	0.67	1.31	0.75	7X-0383
	3	0.67	1.31	1.00	7X-0384
	3 1/4	0.67	1.31	1.25	7X-0385
	3 1/2	0.67	1.31	1.50	7X-0386
	3 3/4	0.67	1.31	1.75	7X-0453
	4	0.67	1.31	2.00	7X-0387
	4 1/4	0.67	1.31	2.25	7X-0455
	4 1/2	0.67	1.31	2.50	7X-0388
	4 3/4	0.67	1.31	2.75	7X-0389
	5	0.67	1.31	3.00	7X-0390

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/8-9	5 1/2	0.67	1.31	3.50	7X-0391
	6	0.67	1.31	3.75	7X-0392
	6 1/2	0.67	1.31	4.25	7X-0393
	7	0.67	1.31	4.75	7X-0394
	8	0.67	1.31	5.75	7X-0395
	8 1/2	0.67	1.31	6.25	7X-0396
	9	0.67	1.31	6.75	7X-0397
	10	0.67	1.31	7.75	7X-0398
	Nut				7X-0449
	Washer				8C-6913
1-8	1 1/4	0.71	1.50	0.31	7X-0399
	1 1/2	0.71	1.50	0.31	7X-0400
	1 3/4	0.71	1.50	0.37	7X-0401
	2	0.71	1.50	0.75	7X-0402
	2 1/4	0.71	1.50	0.25	7X-0403
	2 1/2	0.71	1.50	0.50	7X-0404
	2 3/4	0.71	1.50	0.50	7X-0405
	3	0.71	1.50	0.75	7X-0406
	3 1/4	0.71	1.50	1.00	7X-0407
	3 1/2	0.71	1.50	1.25	7X-0408
	3 3/4	0.71	1.50	1.50	8T-8927
	4	0.71	1.50	1.75	7X-0410
	4 1/4	0.71	1.50	2.00	7X-0411
	4 1/2	0.71	1.50	2.25	8C-8843
	4 3/4	0.71	1.50	2.50	7X-0412
	5	0.71	1.50	2.75	8C-8844
	5 1/2	0.71	1.50	3.25	7X-0443
	6	0.71	1.50	3.75	1J-5929
	6 1/2	0.71	1.50	4.00	7X-0444
	7	0.71	1.50	4.50	7X-0413
	7 1/2	0.71	1.50	5.00	7X-0414
	8	0.71	1.50	5.50	7X-0415
	8 1/2	0.71	1.50	6.00	7X-0416
	9	0.71	1.50	6.50	7X-0417
	9 1/2	0.71	1.50	7.00	7X-0418
	10	0.71	1.50	7.50	7X-0419
	Nut				6V-8190
	Washer				8T-5361
1 1/8-7	2	0.72	1.69	0.25	7X-0420
	3	0.72	1.69	0.50	7X-0421
	3 1/2	0.72	1.69	1.00	7X-0422
	4 1/2	0.72	1.69	2.00	7X-0423

Hex Head Bolts / Inch / Coarse Thread UNC / Zinc Dichromate Plated

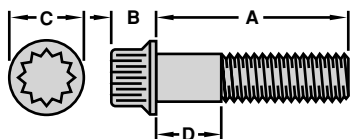
THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
1 1/8-7	5 1/4	0.72	1.69	3.00	7X-0424
	6	0.72	1.69	3.50	7X-0425
	6 1/2	0.72	1.69	3.75	7X-0426
	Nut				7X-0450
	Washer				7X-0531
1 1/4-7	3 1/2	0.81	1.87	0.75	7X-0427
	4	0.81	1.87	1.25	7X-0428
	4 1/2	0.81	1.87	1.75	7X-0429
	5	0.81	1.87	2.25	7X-0445
	5 1/2	0.81	1.87	2.75	7X-0430
	6	0.81	1.87	3.25	7X-0431
	6 1/2	0.81	1.87	3.50	7X-0432
	7	0.81	1.87	4.00	7X-0433
	8	0.81	1.87	5.00	7X-0434
	8 1/2	0.81	1.87	5.50	7X-0435
	9	0.81	1.87	6.00	7X-0436
	9 1/2	0.81	1.87	6.50	7X-0437
	Nut				7X-0451
	Washer				7X-0533
1 1/2-6	3 1/2	0.97	2.25	0.40	7X-0438
	4 1/2	0.97	2.25	1.25	138-8455
	5	0.97	2.25	1.75	7X-0439
	6	0.97	2.25	2.50	131-2627
	Nut				7X-0452



Self-Locking Bolts / Inch / Coarse Thread UNC

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/4-20	3/8	0.06	032-5691
	1/2	0.06	031-0214
	5/8	0.13	031-0215
	3/4	0.13	031-0216
	7/8	0.10	031-0217
	1	0.13	031-5085
	1 1/8	0.37	6V-7634
	1 1/4	0.13	6V-6845
	4	3.25	3J-8919
5/16-18	1/2	0.06	032-5473
	5/8	0.13	030-2135
	3/4	0.13	031-4630
	1	0.13	034-4160
	1 1/4	0.37	031-2701
	1 1/2	0.09	6V-4414
	1 5/8	0.87	1N-7543
	2	1.13	6V-9665
	2 1/4	1.37	6V-2664
	2 1/2	1.63	6V-0825
	3	2.13	6V-3314
3/8-16	1/2	0.09	031-0218
	5/8	0.13	6K-4936
	3/4	0.13	5K-9107
	7/8	0.13	030-8535
	1	0.13	5D-0353
	1 1/8	0.31	034-3557
	1 1/4	0.25	2J-3118
	1 1/2	0.50	030-8537
	1 3/4	0.75	031-0219
	2	1.00	5D-9844
	2 1/4	1.25	5P-8048
	2 1/2	1.50	031-0220
	3	2.00	5K-5552
	3 1/2	2.50	6V-8819
	7/16-14	3/4	7K-0734
	1	0.13	034-0106
	1 1/4	0.13	031-2523
	1 1/2	0.37	5P-8282
	2	0.87	5P-8864

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	D GRIP LENGTH (in)	PART NUMBER
1/2-13	3/4	0.13	031-0221
	7/8	0.13	6K-5718
	1	0.13	6K-7917
	1 1/8	0.13	5K-8454
	1 1/4	0.31	030-8538
	1 1/2	0.25	5K-7143
	1 3/4	0.44	031-0223
	2	0.75	6V-0314
	2 1/4	1.00	030-9620
	2 3/4	1.50	034-0172
	3 1/4	2.00	5P-8091
5/8-11	1	0.19	5K-7138
	1 1/4	0.13	6K-0138
	1 1/2	0.19	030-7335
	1 3/4	0.25	7K-4370
	2	0.50	6K-0137
	2 1/4	0.75	5P-7034
	2 1/2	0.63	5P-9118
	2 3/4	1.25	6V-1997
	3	1.50	032-0676
	3 3/4	2.25	5P-7782
3/4-10	1 1/4	0.31	031-2712
	1 1/2	0.31	031-9253
	1 3/4	0.31	031-0224
	2	0.31	031-0225
	2 1/4	0.50	5P-3882
	2 1/2	0.75	6K-1304
	3	1.25	5P-6712
	3 1/2	1.75	6V-1684
	4 1/2	2.75	5P-1910
	7/8-9	2 1/2	5P-7688
1-8	2 3/4	0.50	5P-7783
	3 1/2	1.25	7K-9272
	5 1/2	3.25	032-0679
1 1/8-7	3 1/2	1.00	7J-9897

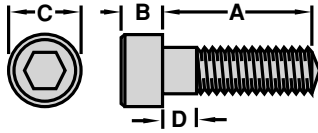


12 Point Head Bolts / Inch / Coarse & Fine Thread

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
COARSE THREAD					
1/4-20	1/16	0.27	0.38	0.11	9S-5033
5/16-18	3/4	0.31	0.47	0.11	1T-0416
	1	0.31	0.47	0.11	1T-0414
	1 1/4	0.31	0.47	0.11	6L-4783
	1 1/2	0.31	0.47	0.11	8M-8162
	1 1/2	0.31	0.47	0.63	2N-7517
	1 3/4	0.31	0.47	0.63	6L-4784
	2 1/2	0.31	0.47	1.13	3S-4346
	3	0.31	0.47	1.63	2S-5818
	3 1/2	0.31	0.47	2.25	2S-0629
	4 1/2	0.31	0.47	3.25	9M-4288
	5	0.31	0.47	3.63	9M-4289
	5 1/2	0.31	0.47	4.25	1S-9810
	6	0.31	0.47	4.63	1S-9811
	6 1/2	0.31	0.47	5.25	4S-5845
3/8-16	3/4	0.38	0.56	0.25	1T-0822
	1	0.38	0.56	0.25	1T-0765
	1 1/16	0.38	0.56	0.50	4D-5239
	1 1/4	0.38	0.56	0.25	1T-0720
	2	0.38	0.56	0.50	3S-1307
	2 1/4	0.38	0.56	1.00	3S-0127
	2 3/4	0.38	0.56	1.50	2S-3567
	3	0.38	0.56	1.50	4S-9002
	3 3/4	0.38	0.56	2.50	8M-2518
7/16-14	1 1/2	0.44	0.66	0.14	6K-3771
	2 1/4	0.44	0.66	0.63	6K-3772
1/2-13	1	0.50	0.75	0.16	9M-6590
	1 1/4	0.50	0.75	0.16	8M-2530
	1 1/2	0.50	0.75	0.16	4K-5175
	2	0.50	0.75	0.16	5J-5793
	2 1/4	0.50	0.75	0.75	6J-2515
	2 1/2	0.50	0.75	1.00	7K-6058
	2 3/4	0.50	0.75	0.75	9S-9739
	3 1/2	0.50	0.75	1.50	5J-5794
	4 1/2	0.50	0.75	3.00	8D-0648

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
5/8-11	7/8	0.62	0.94	0.19	1S-9808
	1	0.62	0.94	0.19	9S-8889
	1 3/4	0.62	0.94	0.19	8S-2332
	2	0.62	0.94	0.19	8S-2331
	2 1/4	0.62	0.94	0.50	6M-9149
	2 1/2	0.62	0.94	0.75	031-1382
	3	0.62	0.94	1.25	031-3185
	3 1/4	0.62	0.94	1.50	6J-3913
	3 1/2	0.62	0.94	1.50	7K-3116
3/4-10	1 1/2	0.75	1.13	0.25	6J-3991
	1 3/4	0.75	1.13	0.19	6M-8796
FINE THREAD					
5/16-24	3/4	0.31	0.47	0.08	5D-8269
3/8-24	5/8	0.38	0.56	0.08	1T-0510
	1	0.38	0.56	0.08	1T-0417
	1 1/4	0.38	0.56	0.08	1T-0448
	1 3/4	0.38	0.56	0.50	1T-0954
	2 1/2	0.38	0.56	1.00	5K-4451
7/16-20	2 3/4	0.44	0.66	1.25	5J-7820
1/2-20	3	0.50	0.75	1.50	8S-0509
5/8-18	1	0.62	0.94	0.19	9S-8890
	2 1/2	0.62	0.94	0.75	9S-8891
	3	0.62	0.94	0.75	2P-1956
3/4-16	3 1/4	0.75	1.13	1.00	9S-8892
7/8-14	2 1/2	0.88	1.31	0.16	2N-5014
1-14	2 1/2	1.00	1.50	0.75	2N-5006
	4	1.00	1.50	1.00	9S-8893

Hardware



Hex Socket Head Screw Bolts / Inch / Coarse & Fine Thread

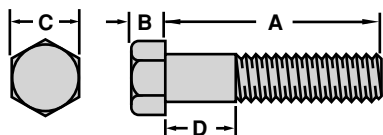
THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
COARSE THREAD					
No. 4-40	3/8	0.11	0.19	0.05	2S-9255
No. 8-32	1/2	0.16	0.27	0.06	6D-3897
	3/4	0.16	0.27	0.06	7D-5473
	1	0.16	0.27	0.06	9M-4704
No. 10-24	1/2	0.19	0.31	0.08	5S-2671
	5/8	0.19	0.31	0.08	2H-0191
	3/4	0.19	0.31	0.08	3L-2540
	7/8	0.19	0.31	0.08	9F-1707
	1 1/4	0.19	0.31	0.38	7L-0688
	1 1/2	0.19	0.31	0.38	5J-1714
1/4-20	1 3/4	0.19	0.31	0.88	2N-0402
	3/8	0.25	0.38	0.11	7J-0637
	1/2	0.25	0.38	0.11	8H-0708
	5/8	0.25	0.38	0.11	8H-3128
	3/4	0.25	0.38	0.11	8H-3127
	7/8	0.25	0.38	0.11	6L-5897
	1	0.25	0.38	0.11	8H-0707
	1 1/4	0.25	0.38	0.09	4L-7124
	1 1/2	0.25	0.38	0.50	2H-3764
	1 3/4	0.25	0.38	0.50	5L-9018
	2	0.25	0.38	1.00	6L-1596
	2 1/4	0.25	0.38	1.00	6L-5551
	2 1/2	0.25	0.38	1.50	6H-3958
	2 3/4	0.25	0.38	1.50	6J-2819
5/16-18	3/4	0.31	0.47	0.11	9F-5975
	1	0.31	0.47	0.11	1T-0284
	1 1/4	0.31	0.47	0.11	9F-6641
	1 1/2	0.31	0.47	0.11	5J-5314
	1 3/4	0.31	0.47	0.63	7S-6701
	2	0.31	0.47	0.63	9S-7381
	2 3/4	0.31	0.47	1.63	2L-1352
	3 1/2	0.31	0.47	2.25	9S-7382
3/8-16	3/4	0.38	0.56	0.25	1L-0509
	7/8	0.38	0.56	0.25	4S-5565
	1	0.38	0.56	0.25	2D-4534
	1 1/4	0.38	0.56	0.25	2J-5245
	1 1/2	0.38	0.56	0.25	4D-3120
	1 3/4	0.38	0.56	0.50	5S-2586

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/8-16	2	0.38	0.56	0.50	1L-8793
	2 1/4	0.38	0.56	1.00	2L-3793
	2 1/2	0.38	0.56	1.00	1Y-7574
	2 3/4	0.38	0.56	1.50	2K-6073
	3 1/4	0.38	0.56	2.00	4B-3835
	4	0.38	0.56	2.50	3B-7614
	5	0.38	0.56	3.50	8L-3837
	6	0.38	0.56	4.50	2D-8992
7/16-14	7/8	0.44	0.66	0.14	4J-1096
	1 1/4	0.44	0.66	0.14	7B-7525
	2	0.44	0.66	0.63	2N-0412
	2 1/2	0.44	0.66	1.13	3J-4567
1/2-13	1/2	0.50	0.75	0.16	021-7916
	3/4	0.50	0.75	0.16	013-8289
	1	0.50	0.75	0.16	5H-4893
	1 1/4	0.50	0.75	0.16	5F-8807
	1 1/2	0.50	0.75	0.16	3F-7147
	1 3/4	0.50	0.75	0.16	5S-2256
	2	0.50	0.75	0.19	8B-7997
	2 1/4	0.50	0.75	0.75	2L-0041
	2 1/2	0.50	0.75	0.75	8B-7979
	2 3/4	0.50	0.75	0.75	5S-2389
	3	0.50	0.75	1.50	4L-8515
	3 1/4	0.50	0.75	1.50	6D-0119
	3 1/2	0.50	0.75	1.50	8B-7998
	5	0.50	0.75	3.00	5S-2388
	6	0.50	0.75	4.50	8L-4612
	7	0.50	0.75	5.25	7L-0654
5/8-11	1 1/4	0.62	0.94	0.19	5S-2201
	2	0.62	0.94	0.19	5S-2457
	3	0.62	0.94	0.75	4D-0242
	4	0.62	0.94	2.25	8L-4743
	4 1/2	0.62	0.94	2.25	6H-3959
	5 1/2	0.62	0.94	3.75	7L-8304
3/4-10	1 1/2	0.75	1.12	0.20	7L-9787
	1 3/4	0.75	1.12	0.20	5F-5321
	2 1/2	0.75	1.12	0.20	2N-6170
	3 1/4	0.75	1.12	1.00	2N-1746
	3 1/2	0.75	1.12	1.00	9S-4920

Hex Socket Head Screw Bolts / Inch / Coarse & Fine Thread

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/8-9	2 1/2	0.88	1.31	0.22	8L-4638
	4	0.88	1.31	1.00	8L-9299
	4 1/2	0.88	1.31	3.00	8L-4717
1-8	2 1/2	1.00	1.50	0.25	8L-6059
	3	1.00	1.50	0.25	7L-9198
	5	1.00	1.50	2.00	8L-3745
FINE THREAD					
No. 10-32	5/8	0.19	0.31	0.06	3K-6168
	7/8	0.19	0.31	0.06	8H-4959
1/4-28	1/2	0.25	0.38	0.08	2K-8407
	5/8	0.25	0.38	0.08	021-7941
	3/4	0.25	0.38	0.08	3H-1392
	7/8	0.25	0.38	0.08	8S-1571
5/16-24	3/4	0.31	0.47	0.08	3F-8156
3/8-24	3/4	0.38	0.56	0.08	013-8253
	7/8	0.38	0.56	0.08	4L-1507
	1	0.38	0.56	0.08	5L-4183
	1 1/4	0.38	0.56	0.08	1T-0131
	1 1/2	0.38	0.56	0.19	5L-8894
	1 3/4	0.38	0.56	0.50	013-8257
	2	0.38	0.56	0.50	013-8258
	2 1/4	0.38	0.56	1.00	013-8259
7/16-20	5 3/4	0.38	0.56	4.75	8J-1582
	1/2	0.44	0.66	0.11	8S-2696
1/2-20	1 3/4	0.44	0.66	0.11	8F-1948
	1/2	0.50	0.75	0.11	021-7956
	3/4	0.50	0.75	0.11	013-8306
	1	0.50	0.75	0.11	013-8307
	1 1/4	0.50	0.75	0.11	1F-1375
	1 1/2	0.50	0.75	0.11	8F-0069
	1 3/4	0.50	0.75	0.11	013-8310
	2	0.50	0.75	0.11	2H-3763
	2 1/4	0.50	0.75	0.75	013-8312
5/8-18	3	0.50	0.75	1.50	013-8315
	2 1/4	0.62	0.94	0.11	9S-9078
3/4-16	2	0.75	1.12	0.13	061-8718

Hardware



Hex Head Bolts / Metric / Coarse Thread UNC / Phosphate & Oil Coated

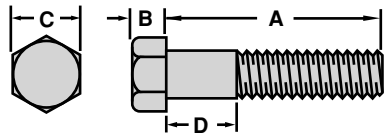
THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M6 x 1.00	12	4	10	2	8T-0639
	16	4	10	3	6V-8837
	20	4	10	3	6V-8214
	25	4	10	3	6V-8490
	30	4	10	12	8T-0640
	35	4	10	17	6V-2315
	40	4	10	22	2W-9499
	45	4	10	6	6V-7728
	50	4	10	33	8T-0275
	60	4	10	42	8T-5066
	70	4	10	52	6V-8359
	80	4	10	62	6V-9798
	Nut				6V-8225
	Washer				9X-8267
M8 x 1.25	12	6	13	3	6V-2316
	16	6	13	3	6V-5215
	20	6	13	3	6V-5217
	25	6	13	3	6V-3940
	30	6	13	8	6V-2317
	35	6	13	13	6V-5218
	40	6	13	18	6V-5219
	45	6	13	23	8T-0276
	50	6	13	28	6V-3918
	60	6	13	38	8T-0100
	70	6	13	48	5P-8347
	80	6	13	58	6V-5221
	90	6	13	68	8T-0292
	100	6	13	78	6V-5223
	110	6	13	88	6V-3821
	120	6	13	98	6V-9607
	130	6	13	108	7X-0457
	140	6	13	112	7X-0870
	150	6	13	122	8C-4984
	Nut				5P-7970
	Washer				9M-1974
M10 x 1.50	12	7	16	5	6V-8084
	16	7	16	3	6V-8212
	20	7	16	5	6V-6317
	25	7	16	5	6V-4248

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M10 x 1.50	30	7	16	5	6V-1820
	35	7	16	5	6V-3822
	40	7	16	14	6V-5842
	45	7	16	19	6V-5843
	50	7	16	24	6V-4249
	60	7	16	34	6V-5230
	70	7	16	44	6V-7981
	80	7	16	54	8T-0643
	90	7	16	64	8T-0644
	100	7	16	74	6V-1819
	110	7	16	78	8T-0355
	120	7	16	94	8T-5030
	140	7	16	108	8C-2926
	150	7	16	118	8T-9085
	160	7	16	128	8T-0356
	180	7	16	148	8T-7950
	200	7	16	168	8T-6854
	Nut				2Y-5829
	Washer				6V-5839
M12 x 1.75	16	8	18	5	6V-8177
	20	8	18	5	8T-0293
	25	8	18	5	6A-5591
	30	8	18	5	6V-3668
	35	8	18	5	6V-8675
	40	8	18	5	6V-8197
	45	8	18	15	6V-5684
	50	8	18	20	6V-7673
	60	8	18	30	6V-3823
	70	8	18	40	6V-8336
	80	8	18	50	6V-5696
	90	8	18	60	8T-0372
	100	8	18	70	8T-0106
	110	8	18	80	8T-0646
	120	8	18	90	6V-8004
	140	8	18	104	7X-0909
	150	8	18	114	8T-5044
	160	8	18	124	8T-0162
	180	8	18	144	8T-6991
	200	8	18	147	8C-3226

Hex Head Bolts / Metric / Coarse Thread UNC / Phosphate & Oil Coated

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER	THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M12 x 1.75	Nut				6V-8149	M20 x 2.50	100	13	30	54	6V-9667
	Washer				5P-8245		110	13	30	64	8T-0362
M14 x 2.00	20	9	21	6	8T-0373		120	13	30	74	8T-0070
	25	9	21	6	8T-0296		130	13	30	78	8T-0655
	30	9	21	6	8T-0297		140	13	30	88	6V-9167
	35	9	21	6	6V-8550		150	13	30	98	8T-0656
	45	9	21	6	8T-0226		160	13	30	108	8T-0657
	50	9	21	16	6V-5685		180	13	30	128	8T-0658
	60	9	21	26	8T-3666		200	13	30	148	6V-8569
	80	9	21	46	8T-3653		Nut				6V-7742
	90	9	21	56	8C-0537		Washer				8T-3282
	100	9	21	66	8T-0298	M24 x 3.00	35	15	36	8	8T-0662
	Nut				139-6366		40	15	36	8	8T-0661
M16 x 2.00	25	10	24	4	6V-5224		45	15	36	8	8T-0663
	30	10	24	3	8T-0299		50	15	36	8	6V-9199
	35	10	24	4	6V-5844		70	15	36	8	8T-0664
	40	10	24	5	6V-4429		80	15	36	26	6V-8133
	45	10	24	5	8T-0375		90	15	36	36	8T-0666
	50	10	24	12	6V-5686		100	15	36	46	8T-0667
	60	10	24	22	6V-3303		110	15	36	56	8T-0668
	70	10	24	32	8T-0357		120	15	36	66	6V-8132
	80	10	24	42	8T-0281		130	15	36	70	8T-0669
	90	10	24	52	8T-0358		140	15	36	80	8T-0670
	100	10	24	62	8T-0207		150	15	36	90	8T-0671
	110	10	24	72	8T-0649		160	15	36	100	8T-0672
	120	10	24	82	8T-0282		180	15	36	120	8T-0674
	130	10	24	86	8T-0359		200	15	36	140	6V-8198
	140	10	24	96	6V-7675		Nut				7X-0851
	150	10	24	106	6V-8154		Washer				6V-8237
	160	10	24	116	8T-0650	M30 x 3.50	80	19	46	14	8C-3222
	180	10	24	136	8T-5002		90	19	46	24	8C-3411
	Nut				8T-1757		100	19	46	34	8T-0368
	Washer				9X-8268		110	19	46	44	8T-0283
M20 x 2.50	30	13	30	4	8T-0651		120	19	46	54	8T-0369
	35	13	30	4	8T-0300		140	19	46	68	8T-0370
	40	13	30	5	6V-7729		160	19	46	88	8C-3236
	45	13	30	6	8T-0652		180	19	46	108	8T-6624
	50	13	30	4	6V-3531		Nut				8T-1583
	60	13	30	14	6V-3532		Washer				9X-8399
	70	13	30	24	6V-5845						
	80	13	30	34	6V-3669						
	90	13	30	44	8T-0360						

Hardware



Hex Head Bolts / Metric / Coarse Thread UNC / Zinc Dichromate Plated

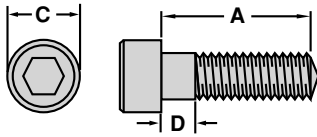
THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M6 x 1.00	12	4	10	2	8T-4171
	16	4	10	3	5C-9553
	20	4	10	3	8T-4138
	25	4	10	2	6V-7357
	30	4	10	12	8T-4971
	35	4	10	17	7X-2533
	40	4	10	22	8C-8451
	45	4	10	6	8T-2947
	50	4	10	32	7X-2534
	60	4	10	42	7X-2535
	70	4	10	52	8T-3844
	80	4	10	62	8T-6974
	Nut				5C-2890
	Washer				9X-8256
M8 x 1.25	12	6	13	3	8T-4199
	16	6	13	3	8T-4200
	20	6	13	3	8T-4189
	25	6	13	3	8T-4908
	30	6	13	8	8T-7547
	35	6	13	13	7X-2537
	40	6	13	3	8T-4197
	45	6	13	23	7X-0818
	50	6	13	28	8T-6912
	60	6	13	38	8T-6869
	70	6	13	48	8T-6870
	80	6	13	58	8T-3647
	90	6	13	68	8T-4177
	100	6	13	78	7X-2538
	110	6	13	88	7X-2539
	120	6	13	98	7X-2540
	130	6	13	108	108-2989
	140	6	13	112	7X-2541
	150	6	13	122	7X-2542
	160	6	13	128	8T-7352
	Nut				5C-7261
	Washer				8T-4224
M10 x 1.50	12	7	16	5	7X-2621
	16	7	16	5	8T-4191
	20	7	16	5	8T-4137

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M10 x 1.50	25	7	16	5	8T-4136
	30	7	16	5	8T-4195
	35	7	16	5	8T-4196
	40	7	16	14	8T-4186
	45	7	16	19	8T-4182
	50	7	16	24	8T-4185
	60	7	16	34	8T-6466
	70	7	16	44	8T-5005
	80	7	16	54	8T-4172
	90	7	16	64	8T-4178
	100	7	16	74	8T-4198
	110	7	16	84	8T-6685
	120	7	16	94	7X-2543
	130	7	16	98	8T-5436
	140	7	16	108	7X-2544
	150	7	16	118	7X-2545
	160	7	16	128	8T-6408
	180	7	16	148	7X-2546
	200	7	16	168	7X-2547
	Nut				8T-4133
	Washer				8T-4121
M12 x 1.75	16	8	18	5	7X-2548
	20	8	18	5	8T-4179
	25	8	18	5	8T-4192
	30	8	18	5	8T-4139
	35	8	18	5	8T-4956
	40	8	18	5	8T-4183
	45	8	18	15	8T-4184
	50	8	18	20	8T-4194
	60	8	18	30	8T-4910
	70	8	18	40	8T-4648
	80	8	18	50	8T-6868
	90	8	18	60	8T-4176
	100	8	18	70	7X-2549
	110	8	18	80	7X-2550
	120	8	18	90	8T-5041
	130	8	18	94	8T-5001
	140	8	18	104	8T-5412
	150	8	18	114	8T-5092

Hex Head Bolts / Metric / Coarse Thread UNC / Zinc Dichromate Plated

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER	THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	B HEAD HEIGHT (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M12 x 1.75	160	8	18	124	8T-7930	M20 x 2.50	180	13	30	128	7X-2568
	180	8	18	144	8T-7929		200	13	30	148	7X-2569
	200	8	18	147	7X-2551		Nut				8T-4131
	Nut				8T-4244		Washer				8T-4123
	Washer				8T-4223	M24 x 3.00	35	15	36	8	7X-2572
M16 x 2.00	25	10	24	4	8T-4190		40	15	36	8	7X-2573
	30	10	24	3	7X-2552		45	15	36	8	7X-2574
	35	10	24	4	8T-4779		50	15	36	8	8T-5379
	40	10	24	5	7X-2553		60	15	36	8	7X-2575
	45	10	24	5	8T-7338		70	15	36	8	7X-2576
	50	10	24	12	8T-4193		80	15	36	26	8T-5878
	60	10	24	22	8T-4140		90	15	36	36	7X-2577
	70	10	24	32	7X-2554		100	15	36	46	7X-2489
	80	10	24	42	7X-2555		110	15	36	56	7X-2454
	90	10	24	52	8T-4175		120	15	36	66	8T-0363
	100	10	24	56	7X-2556		130	15	36	70	8T-6380
	110	10	24	72	8T-4173		140	15	36	80	8T-4649
	120	10	24	82	8T-4174		150	15	36	90	8C-3290
	130	10	24	86	7X-2475		160	15	36	100	7X-2567
	140	10	24	96	7X-2557		180	15	36	120	7X-2465
	150	10	24	106	7X-2558		200	15	36	140	7X-2578
	160	10	24	116	7X-2559		Nut				8T-4001
	180	10	24	136	8T-6385		Washer				8T-4167
	200	10	24	156	8T-6383	M30 x 3.50	50	19	46	9	9X-2199
M20 x 2.50	Nut				8T-4132		80	19	46	14	8C-8723
	Washer				8T-4122		90	19	46	24	7X-2580
	30	13	30	4	8T-4780		100	19	46	34	7X-2581
	35	13	30	4	7X-2561		110	19	46	44	7X-2582
	40	13	30	5	8T-5460		120	19	46	54	7X-2583
	45	13	30	6	7X-2562		140	19	46	68	7X-2584
	50	13	30	4	8T-6430		160	19	46	88	7X-2585
	60	13	30	14	7X-2563		180	19	46	108	7X-2586
	70	13	30	24	8T-4141		Nut				8C-8722
	80	13	30	34	8T-4187		Washer				9X-8258
	90	13	30	44	7X-2564						
	100	30	30	54	7X-2565						
	110	13	30	64	7X-2566						
	120	13	30	74	8T-6381						
	130	13	30	78	7X-2532						
	140	13	30	88	8C-8478						
	150	13	30	98	8T-4170						
	160	13	30	108	7X-2488						

Hardware



Hex Socket Head Screw Bolts / Metric / Coarse Thread UNC

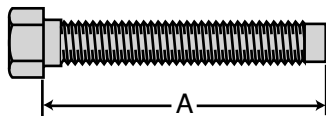
THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M3 x 0.50	6	6	2	8C-6365
	20	6	2	8T-9006
M4 x 0.70	6	7	2	095-0640
	10	7	2	095-0641
	16	7	1	8T-9405
	20	7	1	8C-4982
	45	7	25	101-4306
	65	7	51	107-3198
M5 x 0.80	8	9	2	096-5968
	10	9	2	099-0822
	12	9	2	099-2374
	14	9	2	8C-6364
	16	9	2	8C-8580
	20	9	2	096-4833
	25	9	2	096-5969
	35	9	13	8T-6699
	40	9	18	8T-0266
	45	9	23	8T-3283
M6 x 1.00	50	9	28	095-0642
	70	9	48	9X-2536
	10	10	5	9X-6153
	12	10	3	8T-0267
	16	10	3	6V-5683
	20	10	3	8T-0269
	25	10	3	3T-0849
	30	10	3	8T-8442
	35	10	11	1R-5396
	40	10	16	6V-8653
	45	10	21	8C-6965
	50	10	32	8T-9534
	55	10	37	095-0645
	60	10	36	8T-2396
	65	10	41	8T-2922
M8 x 1.25	70	10	46	9X-2537
	80	10	56	102-7364
	90	10	66	8T-2397
	16	13	4	6V-8202
	20	13	4	8T-1158
	25	13	4	5A-3604

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M8 x 1.25	30	13	4	6V-5192
	35	13	4	6V-8337
	45	13	17	8T-0338
	50	13	22	3E-8025
	55	13	33	9X-6154
	60	13	38	8T-9535
	65	13	37	096-0187
	70	13	42	6V-8213
	80	13	58	6V-5196
	90	13	62	8T-2394
	100	13	72	102-7365
	110	13	82	8T-0339
	130	13	102	3E-8006
	200	13	172	9X-8269
M10 x 1.50	16	16	5	096-4835
	20	16	5	6V-3938
	25	16	5	8T-1159
	30	16	3	9X-6032
	35	16	5	8T-0271
	40	16	8	8T-9515
	45	16	13	8T-2223
	50	16	18	8T-1160
	55	16	29	095-0655
	60	16	28	8T-0341
	65	16	33	8T-2392
	70	16	38	095-0658
	80	16	48	8T-0342
	90	16	58	9X-2158
	100	16	68	8T-7586
M12 x 1.75	110	16	78	8T-0272
	120	16	88	096-1331
	130	16	98	086-2369
	150	16	118	3E-8028
	220	16	194	095-0665
	20	18	5	8T-9080
	25	18	5	8T-8441
	30	18	5	8T-3957
	35	18	5	6V-8200
	40	18	5	8T-0273

Hex Socket Head Screw Bolts / Metric / Coarse Thread UNC

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M12 x 1.75	45	18	5	095-0670
	50	18	5	8T-7811
	55	18	19	8T-0343
	60	18	24	095-0673
	65	18	35	095-0674
	70	18	34	3E-6910
	80	18	44	8C-8729
	90	18	54	3E-8007
	100	18	64	7X-2436
	110	18	74	095-9804
	120	18	84	8C-3413
	130	18	94	7X-2607
	140	18	104	8T-7058
	180	18	144	3E-6911
	220	18	184	8C-4980
M16 x 2.00	25	24	6	3E-6923
	30	24	6	8T-0439
	35	24	6	8T-6594
	40	24	6	8T-4944
	45	24	6	6V-8201
	50	24	6	8T-0348
	55	24	17	095-0700
	60	24	6	8T-2393
	65	24	21	8T-0349
	70	24	26	8T-1447
	80	24	36	095-9806
	90	24	46	3E-8008
	100	24	56	095-0705
	110	24	66	095-0706
	120	24	76	095-0707
	140	24	96	096-0008
	160	24	116	8C-7587
	180	24	136	102-2562
	200	24	156	7Y-5243
	260	24	216	7Y-5244
M20 x 2.50	45	30	8	7Y-5221
	50	30	8	8T-5042
	55	30	8	8T-6593
	60	30	8	7Y-5241
	70	30	8	7Y-5217

THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	C HEAD WIDTH (mm)	D GRIP LENGTH (mm)	PART NUMBER
M20 x 2.50	80	30	28	7Y-5216
	90	30	38	9X-2404
	150	30	98	113-7430
	240	30	196	102-2563
	300	30	256	102-2564
M24 x 3.00	90	36	30	7Y-5215
	100	36	40	7Y-5239
	110	36	50	9X-8480
	130	36	70	9X-8915



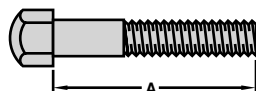
Forcing Bolts / Inch / Fine Thread UNF

THREAD SIZE (in - TPI)	A LENGTH (in)	GRIP LENGTH (in)	PART NUMBER
7/8-14	5 3/8	0.33	5P-5265
1-14	6 15/16	0.97	5P-8715
1 1/2-12	2 7/8	0.33	6V-0187
1 1/2-12	4 3/4	0.33	5P-5264

Forcing Bolts / Metric / Coarse Thread UNC

THREAD SIZE (dia x pitch)	A LENGTH (mm)	GRIP LENGTH (mm)	PART NUMBER
M24 x 3.0	190	13	136-1978

Track Bolts / Inch



MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
307, E70, E70B	1/2-20	1.38 (35.0)	102-8072
307, PM465	1/2-20	1.50 (38.1)	3A-9605
D3, D4, 931	1/2-20	1.50 (38.1)	8H-7504
931C, 933C, 935C, 941 D3, D4, D4B, D3C, D4C, D3G, D4G 215, TR225B, AP1050 PR450, SF350	9/16-18	1.63 (41.4)	4K-7038
AP650B, BG225C, AP1050B, BG245C	9/16-18	2.00 (50.8)	8S-4745
D5C*, 561, D4, D5, D6 941, 943, 951, 953, 955, 977, 205, 211, 213, 215, 215SA, 219, 225 PR750, PR1000, PM565 SF500, TR500	5/8-18	2.01 (51.0)	7H-3597
D5N, D5M, D5C, D5H, D4H 953, 939, 939C	5/8-18	2.17 (55.1)	9G-3110
D6, D7, 572 955, 963, 977 215SA, 219, 225, 225SA 229, 231, 235, FB227	3/4-16	2.16 (54.8)	1S-1859

* Use with "9K" links

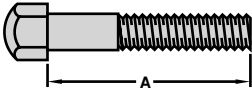
MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D7, D8, 571, 572 973, 977, 235, 583	3/4-16	2.41 (61.2)	7H-3598
D6N, D7H, D6R, D6H, D6M, D5H 517, 527, FB227, D6HD	3/4-16	2.40 (60.9)	6V-1792
D7R, D7H, D8 973, 983, 235	7/8-14	2.66 (67.5)	7H-3599
D8T/R/N, D8L, 583R, 578	7/8-14	3.43 (87.1)	6V-1723
235	7/8-14	2.80 (71.1)	5P-4028
D9, 594, 245**	1-14	2.94 (74.6)	2M-5657
245	1-14	3.11 (78.9)	3T-6308
D9T/R/N	1-14	3.54 (89.9)	6T-2638
D9L, 589	1-14	3.81 (96.7)	6V-1726
D10	1 1/8-12	4.21 (106.9)	5P-3868
D10T/R/N	1 1/8-12	3.78 (96.0)	7T-1000
5130	1 3/8-12	4.73 (120.1)	6I-8648
D11RN, 5130	1 3/8-12	4.30 (109.2)	6T-8853

** Use with "8K" links

Track Bolts / Inch / Self Cleaning Shoes

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D3G, D4G, D3C, D4C, D4	9/16-18	1.62 (41.1)	4K-7038
	9/16-18	3.00 (76.2)	5A-3187
D5H, D5N, D5M, D4H	5/8-18	2.17 (55.1)	9G-3110
	5/8-18	3.54 (89.9)	3T-3884
D4, D5	5/8-18	3.31 (84.0)	5A-4104
	5/8-18	2.01 (51.0)	7H-3597
D6N, D6M, D5H	3/4-16	3.62 (91.9)	107-0718
D7H, D6R, D6H, D6N, D6M, D5H	3/4-16	2.40 (60.9)	6V-1792

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D7H, D6R, D6H	3/4-16	4.13 (104.9)	6T-2162
D6	3/4-16	2.16 (54.8)	1S-1859
	3/4-16	3.90 (99.0)	5A-7524
D7	3/4-16	4.10 (104.1)	5P-1028
	3/4-16	2.41 (61.2)	7H-3598
D7R/H	7/8-14	2.66 (67.5)	7H-3599
	7/8-14	4.33 (109.9)	116-8145



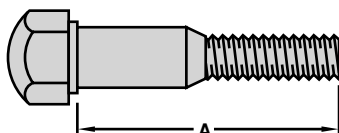
Track Bolts / Metric

MODEL	THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	PART NUMBER
308, 307B	M14 x 1.50	35	136-2401
311, 312, 313, 314 E110, E110B, E120, E120B	M16 x 1.50	46	4I-7538
E140	M16 x 1.50	55	096-1043
E180	M18 x 1.50	58	093-0262
315, 317, 318, 319, 320, 321, 322 E200B, E240B, E240C	M20 x 1.50	55	9W-3619
317, 318, 319, 320, 321, 322, 320S, 325	M20 x 1.50	63	6Y-0846
E240, E300	M20 x 1.50	63	093-0266
E300B, EL300	M20 x 1.50	70	093-0265
330, 345, 350 D6R SystemOne™	M22 x 1.50	67	6Y-9024
350	M22 x 1.50	73	143-4891
E450	M22 x 1.50	78	093-0268
E650	M24 x 1.50	81	093-0271
345B	M24 x 1.50	67	150-4741
365B	M27 x 2.00	78	144-0805
375, 5080	M27 x 2.00	90	6Y-7432
385B, 5090	M30 x 2.00	90	174-0221

Track Bolts / Metric / Self Cleaning Shoes

MODEL	THREAD SIZE (dia x pitch)	A BOLT LENGTH (mm)	PART NUMBER
311, 312, 313, 314 E110, E110B, E120, E120B, E140	M16 x 1.50	108	093-0261
	M16 x 1.50	68	093-0259
E180*	M18 x 1.50	90	093-0264
315, 317, 318, 319, 321, 320, 322 E200B, E240B, E240C	M20 x 1.50	55	9W-3619
	M20 x 1.50	80	8E-9349
E240*	M20 x 1.50	108	096-0551
325	M20 x 1.50	63	6Y-0846
	M20 x 1.50	110	6Y-5686
330	M22 x 1.50	67	6Y-0924
	M22 x 1.50	110	5Q-3253

* Only one bolt length used.



Split Master Link Bolts / Inch

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D3, D3C, D4C, D3G, D4G 935C, 933C, 931C PM465, AP1050, PR450 SF350, TR225B	9/16-18	3.00 (76.2)	5A-3187
AP650B, BG225C AP1050B, BG245C	9/16-18	3.50 (88.9)	8S-4747
D5N, D5M, D4H, D5H D5G, D5C, 939C, 953	5/8-18	2.64 (67)	3T-8601
D5N, D5M, D4H D5G, D5C, 939C	5/8-18	3.27 (83)	9G-8592
D5H, 953	5/8-18	3.58 (91)	3T-8580
D5C*, D4, D5, D6, 561 941, 943, 951, 953, 955, 977	5/8-18	3.50 (88.9)	3P-2274
D6N, D6M, D5H, 517	3/4-16	3.90 (99)	107-0719
	3/4-16	2.91 (74)	106-1642
D7H	3/4-16	3.15 (80)	6V-1793
D7H, D6, 963, 955	3/4-16	4.13 (105)	9S-1838

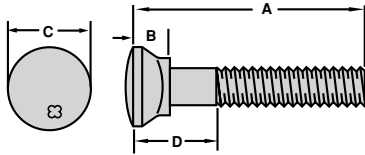
* Use with "9K" links.

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D7, 571, 572, 973, 977	3/4-16	4.45 (113)	2P-9670
D7R/H, 973	7/8-14	4.57 (116)	9W-9058
D7R/H	7/8-14	3.43 (87)	6V-1723
D8T/R/N, D8L, 583R, 578	7/8-14	3.78 (96)	6V-1724
	7/8-14	5.08 (129)	6V-1725
D8, 983, 583	7/8-14	4.84 (123.04)	8S-0395
D9T/R/N, D9L, 589	1-14	5.83 (148)	6V-1728
	1-14	4.84 (123)	7T-2283
D9, 594	1-14	5.56 (141.27)	8S-1723
D10T/R/N	1 1/8-12	6.46 (164)	7T-0998
	1 1/8-12	5.28 (134)	7T-0999
D10	1 1/8-12	6.61 (168)	5P-8222
D11R/N	1 3/8-12	7.20 (183)	6T-8520
D11R/N	1 3/8-12	6.02 (153)	6T-8521

Split Master Link Bolts / Inch / Self Cleaning Shoes

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D3G, D4G, D3C, D4C	9/16-18	4.29 (109)	5P-4683
	9/16-18	3.00 (76.2)	5A-3187
D5N, D5M, D4H	5/8-18	3.27 (83)	9G-8592
D5N, D5M, D4H, D5H	5/8-18	4.02 (102)	3T-3889
D5H	5/8-18	3.58 (91)	3T-8580
D4, D5	5/8-18	3.50 (88.9)	3P-2274
	5/8-18	4.63 (117.5)	5P-0569

MODEL	THREAD SIZE (in - TPI)	A BOLT LENGTH in (mm)	PART NUMBER
D6R/H, D6, D7	3/4-16	5.47 (139)	3P-1111
	3/4-16	4.13 (105)	9S-1838
D6N, D6M, D5H	3/4-16	3.90 (99)	107-0719
	3/4-16	4.29 (109)	107-0717
D7H, D7	3/4-16	4.29 (113)	2P-9670
D7H	3/4-16	4.92 (125)	6T-1441
D7R/H	7/8-14	4.57 (116)	9W-9058
	7/8-14	5.08 (129)	6V-1725



Cutting Edge Bolts / Inch / Coarse Thread

THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
3/8-16	2	0.31	0.67	1.00	4F-4048
	Nut				9S-8752
1/2-13	1 1/4	0.44	0.89	0.50	4F-3647
	1 1/2	0.44	0.89	0.63	4F-3646
	1 3/4	0.44	0.89	0.63	4F-3648
	2	0.44	0.89	0.75	4F-3649
	2 1/4	0.44	0.89	1.00	4F-3650
	2 1/2	0.44	0.89	1.25	4F-3651
	2 3/4	0.44	0.89	1.50	4F-3652
	3	0.44	0.89	1.75	4F-3662
	3 1/2	0.45	0.89	2.25	4F-3663
	5	0.44	0.89	3.75	4F-4043
	Nut				1F-7958
5/8-11	1 1/2	0.54	1.04	0.63	4F-3664
	1 3/4	0.54	1.04	0.63	4F-3653
	2	0.54	1.04	0.75	4F-3654
	2 1/4	0.54	1.04	1.25	3F-5108
	2 1/2	0.54	1.04	1.00	4F-3656
	2 3/4	0.54	1.04	1.25	4F-3657
	3	0.54	1.04	1.50	4F-3658
	3 1/2	0.54	1.04	2.00	4F-3665
	3 3/4	0.54	1.04	2.25	4F-0391
	4	0.54	1.04	2.50	4F-3671
	Nut				4K-0367
3/4-10	2	0.63	1.20	0.75	4F-3672
	2 1/4	0.63	1.20	1.00	4F-7827
	2 1/2	0.63	1.20	1.19	5J-4773
	2 3/4	—	—	1.50	5J-4771
	3 1/8	0.63	1.20	1.38	1J-6762
	3 3/4	0.63	1.20	2.00	5F-8933
	4 1/4	0.63	1.20	2.50	1J-0962
	4 5/8	0.63	1.20	2.88	1J-6761
	Nut				2J-3506
7/8-9	2 1/2	0.74	1.41	1.36	5J-4772
	2 3/4	0.74	1.41	1.50	6F-0196
	3	0.74	1.41	1.25	5J-2409
	3 1/4	0.74	1.41	2.44	8J-2935
	3 1/2	0.74	1.41	1.75	2J-2548
	4 1/4	0.74	1.41	2.50	2J-5458

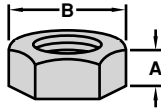
THREAD SIZE (in - TPI)	A BOLT LENGTH (in)	B HEAD HEIGHT (in)	C HEAD WIDTH (in)	D GRIP LENGTH (in)	PART NUMBER
7/8-9	4 5/8	0.74	1.41	2.63	1J-0849
	Nut				2J-3505
1-8	2 1/2	0.81	1.60	1.31	3J-2801
	2 3/4	0.81	1.60	1.50	1J-5607
	3	0.81	1.60	1.75	4F-4042
	3 1/4	0.81	1.60	1.91	4J-9058
	3 1/2	0.81	1.60	2.19	4J-9208
	3 3/4	0.81	1.60	2.69	8J-2928
	3 3/4	0.81	1.60	1.50	1J-4948
	4	0.81	1.60	2.95	5P-8136
	4 1/2	0.81	1.60	2.25	1J-3527
	5 1/4	0.81	1.60	3.00	1J-4947
	Nut				2J-3507
1 1/4-7	3 3/8	1.06	2.03	1.65	8T-9079
	3 3/4	1.06	2.03	2.28	6V-6535
	4 1/8	1.02	2.01	2.28	5P-8823
	4 1/2	1.06	2.03	2.28	6V-8360
	4 15/16	1.06	2.03	2.28	5P-8361
	Nut				3K-9770

Maintenance Tips For Cutting Edge Hardware

1. Clean all surfaces of rust, paint, nicks, and burrs.
2. Install bolts first in the center and work out toward the edge.
3. Tighten all bolts to the specified torque (see chart below for specifications).
4. Set bolt heads firmly into the edge countersink using a heavy hammer. Safety glasses **MUST** be worn when striking bolt heads.
5. Tighten all bolts again to the specified torque.

THREAD SIZE (in - TPI)	(ft lb)	TORQUE (N·M)	Size
5/8	200 ±30	270 ±40	16 mm
3/4	350 ±45	475 ±60	19 mm
7/8	550 ±65	750 ±90	22 mm
1	825 ±110	1125 ±150	25 mm
1 1/4	1350 ±220	1850 ±300	32 mm

Hardware



Nuts / Hex Head / Inch

- Made of fine grain steel.
- Designed with a washer-faced surface.
- Provides a tensile strength comparable to SAE Grade 8 bolt.
- Hardened nuts marked with 6 lines, dashes, or dots for identification.

Coarse Thread UNC / Phosphate & Oil Coated / Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-20	0.22	7/16	9S-8750
5/16-18	0.27	1/2	5S-0003
3/8-16	0.39	9/16	9S-8752
7/16-14	0.38	11/16	3S-1546
1/2-13	0.44	3/4	1F-7958
9/16-12	0.48	7/8	5P-0539
5/8-11	0.55	15/16	4K-0367

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
3/4-10	0.64	1 1/8	2J-3506
7/8-9	0.75	1 5/16	2J-3505
1-8	0.86	1 1/2	2J-3507
1 1/8-7	0.97	1 11/16	4J-5977
1 1/4-7	1.06	1 7/8	3K-9770
1 3/8-6	1.17	2 1/16	9M-3770
1 1/2-6	1.28	2 1/4	9S-8216

Coarse Thread UNC / Zinc Dichromate Plated / Hardened

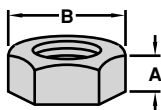
THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-20	0.22	7/16	6V-8185
5/16-18	0.27	1/2	6V-8189
3/8-16	0.33	9/16	6V-8801
7/16-14	0.37	11/16	7X-0447
1/2-13	0.44	3/4	6V-8188
5/8-11	0.55	15/16	7X-0448

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
3/4-10	0.64	1 1/8	6V-8182
7/8-9	0.75	1 5/16	7X-0449
1-8	0.86	1 1/2	6V-8190
1 1/8-7	0.97	1 11/16	7X-0450
1 1/4-7	1.06	1 7/8	7X-0451
1 1/2-6	1.28	2 1/4	7X-0452

Fine Thread UNF / Phosphate & Oil Coated / Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-28	0.22	7/16	9S-8748
5/16-24	0.27	1/2	9S-8751
3/8-24	0.39	9/16	3S-2713
7/16-20	0.38	11/16	9S-8905
1/2-20	0.44	3/4	6B-6684
9/16-18	0.48	7/8	5P-0540
5/8-18	0.55	15/16	6B-6683

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
3/4-16	0.64	1 1/8	6B-6682
7/8-14	0.75	1 5/16	1A-5666
1-14	0.86	1 1/2	1A-1935
1 1/8-12	0.97	1 11/16	3S-1356
1 1/4-12	1.06	1 7/8	7H-7539
1 3/8-12	1.17	2	2M-0400
1 1/2-12	1.28	1 9/32	8H-3390



Self-Locking Nuts / Hex Head / Inch

- Made of fine grain steel.
- Resist loosening under vibration.
- Provides a tensile strength comparable with SAE Grade 8 bolts.
- Resist loosening under vibration.

Coarse Thread UNC / Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-20	0.23	7/16	2D-6235
5/16-18	0.27	1/2	031-4155
3/8-16	0.33	9/16	2K-4973
7/16-14	0.38	11/16	6V-5729
1/2-13	0.44	3/4	1K-6872
9/16-12	0.50	7/8	034-9954

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
5/8-11	0.55	15/16	3K-2889
3/4-10	0.64	1 1/8	1K-6870
7/8-9	0.75	1 5/16	6K-0545
1-8	0.86	1 1/2	6K-3632
1 1/8-7	0.97	1 11/16	8D-9513
1 1/4-7	1.06	1 7/8	2J-5997

Fine Thread UNF / Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-28	0.23	7/16	2L-9038
5/16-24	0.27	1/2	3D-8752
1/2-20	0.44	3/4	2K-0564
9/16-18	0.50	7/8	054-5448
5/8-18	0.55	15/16	2K-4821

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
3/4-16	0.64	1 1/8	2K-0337
7/8-14	0.75	1 5/16	5D-1986
1-14	0.86	1 1/2	2K-7471
1 1/8-12	0.97	1 11/16	3D-4904
1 1/4-12	1.06	1 7/8	2K-7468
1 1/2-12	1.28	2 1/4	5M-6667

Hardware



Self-Locking Nuts / Hex Head / Inch / Plastic Insert

- Resist loosening under vibration.

Coarse Thread / UNC / Zinc Dichromate Plated / Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-20	0.31	7/16	3E-9865
5/16-18	0.34	1/2	3E-9860
3/8-16	0.45	9/16	3K-6060
1/2-13	0.59	3/4	9X-0941
5/8-11	0.75	15/16	3E-9861
3/4-10	0.88	1 1/16	3E-9862
7/8-9	0.98	1 1/4	3E-9863

Coarse Thread UNC / Zinc Dichromate Plated / Non Hardened

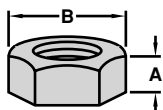
THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
No. 6-32	0.18	5/16	7D-6922
No. 8-32	0.23	11/32	6D-5801
No. 10-24	0.25	3/8	031-0249
1/4-20	0.31	7/16	7H-8909
5/16-18	0.34	1/2	2R-0504

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
3/8-16	0.37	11/16	9T-2730
1/2-13	0.59	3/4	2H-3788
5/8-11	0.75	15/16	2H-3789
3/4-10	0.88	1 1/16	2H-3790

Fine Thread UNF / Zinc Dichromate Plated / Non Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
No. 10-32	0.25	3/8	4L-1250
1/4-28	0.31	7/16	3F-7674
5/16-24	0.34	1/2	3F-2617
3/8-24	0.18	9/16	2F-8616

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
7/16-20	0.45	11/16	139-4187
1/2-20	0.59	3/4	2M-2570



Hex Jam Nuts / Hex Head / Inch

- Designed with a chamfered and washer-faced surface.
- For use in locking other nuts to prevent loosening.

Coarse Thread UNC / Non Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-20	0.16	7/16	1B-4427
5/16-18	0.19	1/2	5B-3180
3/8-16	0.22	9/16	1B-2578
7/16-14	0.25	11/16	1L-9048
1/2-13	0.31	3/4	3H-3680
9/16-12	0.31	7/8	8S-5151

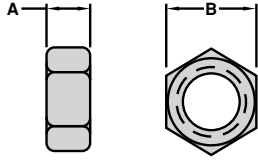
THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
5/8-11	0.38	15/16	1D-5118
3/4-10	0.42	1 1/8	1D-5119
7/8-9	0.48	1 5/16	5P-0541
1-8	0.55	1 1/2	1D-6306

Fine Thread UNF / Non Hardened

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
1/4-28	0.16	7/16	9M-1311
5/16-24	0.19	1/2	4F-2294
3/8-24	0.22	9/16	2A-5351
7/16-20	0.25	11/16	5B-3254
3/4-16	0.42	1 1/8	1D-5120

THREAD SIZE (in - TPI)	A NUT HEIGHT (in)	B NUT WIDTH (in)	PART NUMBER
7/8-14	0.48	1 5/16	1D-5121
1-14	0.55	1 1/2	2H-3786

Hardware



Nuts / Hex Head / Metric

- Made of fine grain steel.
- Designed with a washer-faced surface.
- Provides a proof load comparable to 10.9 metric bolt.

Coarse Thread UNC / Phosphate & Oil Coated / Hardened

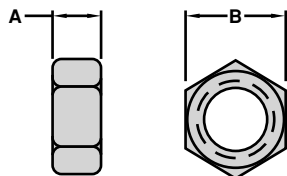
THREAD SIZE (dia x pitch)	A NUT HEIGHT (mm)	B NUT WIDTH (mm)	PART NUMBER
M6 x 1.00	5.05	10	6V-8225
M8 x 1.25	6.40	13	5P-7970
M10 x 1.50	8.22	16	2Y-5829
M12 x 1.75	10.64	18	6V-8149
M16 x 2.00	14.45	24	8T-1757
M20 x 2.50	18.00	30	6V-7742

THREAD SIZE (dia x pitch)	A NUT HEIGHT (mm)	B NUT WIDTH (mm)	PART NUMBER
M24 x 3.00	21.50	36	7X-0851
M30 x 3.50	24.95	46	8T-1583

Coarse Thread UNC / Zinc Dichromate Plated / Hardened

THREAD SIZE (dia x pitch)	A NUT HEIGHT (mm)	B NUT WIDTH (mm)	PART NUMBER
M6 x 1.00	5.05	10	5C-2890
M8 x 1.25	6.40	13	5C-7261
M10 x 1.50	8.22	16	8T-4133
M12 x 1.75	10.64	18	8T-4244
M16 x 2.00	14.45	24	8T-4132

THREAD SIZE (dia x pitch)	A NUT HEIGHT (mm)	B NUT WIDTH (mm)	PART NUMBER
M20 x 2.50	18.00	30	8T-4131
M24 x 3.00	21.50	36	8T-4001
M30 x 3.50	24.95	46	8C-8722

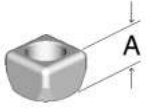


Self-Locking Nuts / Hex Head / Metric Coarse Thread UNC / Hardened

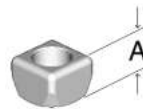
- Made of fine grain steel.
- Designed with a washer-faced surface.
- Provides a proof load comparable to 10.9 metric bolt.
- Resists loosening under vibration.

THREAD SIZE (dia x pitch)	A HEIGHT (mm)	B WIDTH (mm)	PART NUMBER
M6 x 1.00	5.90	10	6V-7743
M8 x 1.25	7.10	13	6V-9189
M10 x 1.50	9.00	16	6V-7744
M12 x 1.75	11.60	18	6V-7687
M16 x 2.00	15.20	24	8T-4778
M20 x 2.50	22.15	30	6V-7688
M24 x 3.00	26.35	36	6V-7676
M30 x 3.50	30.00	46	8T-5065

Track Nuts



Inch

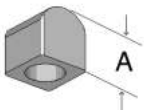


Metric

MODEL	THREAD SIZE (in - TPI)	A NUT HEIGHT in (mm)	PART NUMBER
D3, 931	1/2-20	0.60 (15.2)	6S-3419
D4	1/2-20	0.56 (14.2)	8H-5724
307, PM465	1/2-20	0.63 (16.0)	117-8885
307, E70, E70B	1/2-20	0.51 (12.9)	102-8073
D3, D3B, D3C, D4C, D4B, D4 D3G, D4G, 215, 931, 933, 935, 941 PR450, PM 565, AP650B, AP1050, BG225C, BG245C SF350, TR225B	9/16-18	0.72 (18.2)	7K-2017
D4, 941	9/16-18	0.61 (15.4)	7H-3606
D5N, D5M, D5G, D5C, D4, D5, D6, 561, 939, 941, 943, 951 953, 955, 977 205, 211, 213, 215, 215SA, 219, 225 PR750, PR1000, SF500, TR500	5/8-18	0.72 (18.2)	1M-1408
D6N, D6M, D5H, D6R/H, D7H, 517, 527, D6, D7, D8, 955, 936, 973, 977 571, 572, 583 215SA, 219, 225, 225SA, FB227, 229, 231, 235	3/4-16	0.72 (18.2)	1S-1860
973, 235	7/8-14	0.94 (23.8)	7T-9825
D7R/H D8, 983, 583	7/8-14	0.93 (23.6)	2S-2140
D9, 594, 245	1-14	1.00 (25.4)	1S-6421
245 *	1-14	1.00 (25.4)	2V-0250

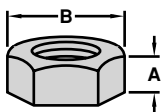
* Use with "8K" links.

MODEL	THREAD SIZE (dia x pitch)	A NUT HEIGHT (mm)	PART NUMBER
308, 307B	M14 x 1.50	14	136-2404
311, 312, 313, 314, E110, E110B, E120B, E120	M16 x 1.50	16	5I-6125
E140	M16 x 1.50	22	093-0319
E180, EL180	M18 x 1.50	22	093-0320
315, 317, 318, 319, 320, 321, 322, 325, 320S, E200B, EL200B, E240B, EL240B, E240C, EL240C	M20 x 1.50	21	9W-3361
E240, EL240, E300B, E300, EL300, EL300B	M20 x 1.50	27	093-0321
330, 345, 350 D6R SystemOne™	M22 x 1.50	22	9W-4381
E450	M22 x 1.50	29	096-0586
345B	M24 x 1.50	24	150-4742
E650	M24 x 1.50	29	093-0323
365B	M27 x 2.00	27	144-0806
375, 5080	M27 x 2.00	38.5	6Y-7433
385B, 5090B	M30 x 2.00	38.5	174-0222



Inch

MODEL	THREAD SIZE (in - TPI)	A NUT HEIGHT in (mm)	PART NUMBER
D8T/R/N, D8L, 583R, 578	7/8-14	1.38 (35.0)	7G-6442
D9T/R/N	1-14	1.57 (39.8)	7G-0434
D10, D10T/R/N, 5110B	1 3/8-12	1.72 (43.6)	5P-8221
D11R/N, 5130	1 3/8-12	1.81 (45.9)	3T-6292



Cutting Edge Nuts

THREAD SIZE (in - TPI)	A HEIGHT (in)	B WIDTH (in)	PART NUMBER
1/2-20	0.44	3/4	6B-6684
5/8-11	0.55	15/16	1D-4720
5/8-11	0.55	15/16	4K-0367
3/4-10	0.64	1 1/8	2J-3506
3/4-16	0.64	1 1/8	6B-6682
7/8-9	0.75	1 5/16	2J-3505
1-8	0.86	1 1/2	2J-3507
1 1/4-7	1.06	1 7/8	3K-9770

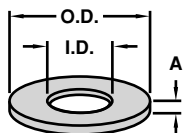


Wing Nuts / Inch / Coarse Thread UNC / Zinc Dichromate Plated

- Install and remove by hand.

THREAD SIZE (in - TPI)	PART NUMBER
10-24	6F-6898
10-32	033-3658
1/4-20	1F-1739
5/16-18	3B-0723
3/8-16	2B-9498
3/8-24	7B-8839

Hardware



Washers / Flat / Inch

- Compatible with SAE Grade 8 bolts.

Phosphate and Oil Coated / Hardened

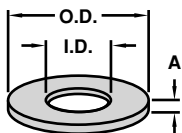
BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
1/4	0.28	0.56	0.08	5P-0537
5/16	0.34	0.62	0.08	9M-1974
3/8	0.39	0.72	0.09	5M-2894
7/16	0.50	0.88	0.09	5P-8244
1/2	0.53	1.00	0.12	5P-8245
9/16	0.62	1.14	0.12	5P-8246

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
5/8	0.67	1.26	0.14	5P-8247
3/4	0.79	1.44	0.14	5P-8248
7/8	0.94	1.62	0.16	5P-8249
1	1.09	1.94	0.20	5P-8250
1 1/8	1.19	2.06	0.25	3S-1349
1 1/4	1.31	2.12	0.25	4K-0684
1 1/2	1.59	2.62	0.25	3S-6162

Zinc Dichromate Plated / Hardened

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
1/4	0.28	0.56	0.08	8T-4205
5/16	0.34	0.62	0.08	8T-4224
3/8	0.41	0.72	0.09	8T-4896
7/16	0.47	0.88	0.09	8T-5360
1/2	0.53	1.00	0.12	8T-4223
5/8	0.66	1.25	0.14	8T-4122

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
3/4	0.78	1.44	0.14	8T-4994
7/8	0.94	1.62	0.16	8C-6913
1	1.09	1.94	0.20	8T-5361
1 1/8	1.22	2.06	0.25	7X-0531
1 1/4	1.34	2.19	0.25	7X-0533
1 1/2	1.59	2.64	0.25	7X-0537



Washers / Flat / Inch

- Compatible with SAE Grade 5 bolts.

SAE

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
No. 8	0.19	0.44	0.05	4B-4863
No. 10	0.22	0.50	0.06	4B-4274
1/4	0.28	0.62	0.06	4B-4276
5/16	0.34	0.69	0.06	4B-4277
3/8	0.41	0.81	0.06	4B-4278
7/16	0.47	0.94	0.06	4B-4279
1/2	0.53	1.06	0.09	4B-4280
9/16	0.59	1.19	0.09	4B-5059

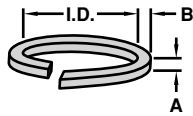
BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
5/8	0.66	1.31	0.09	4B-4281
3/4	0.81	1.50	0.12	4B-4283
7/8	0.94	1.75	0.12	4B-4284
1	1.06	2.00	0.12	4B-4285
1 1/8	1.19	2.25	0.12	4B-5325
1 1/4	1.31	2.50	0.16	4B-5326
1 3/8	1.44	2.75	0.16	4B-4286
1 1/2	1.56	3.00	0.16	4B-5327

USS

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
1/4	0.31	0.75	0.06	4B-5269
5/16	0.38	0.88	0.08	4B-5270
3/8	0.44	1.00	0.08	4B-5271
7/16	0.50	1.25	0.08	4B-5272
1/2	0.56	1.38	0.11	4B-5273
9/16	0.62	1.50	0.11	4B-5274

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
5/8	0.69	1.75	0.14	4B-5275
3/4	0.81	2.00	0.14	4B-5276
7/8	0.94	2.25	0.16	4B-5277
1	1.06	2.50	0.16	4B-5278
1 1/4	1.38	3.00	0.17	4B-5280
1 3/8	1.50	3.25	0.17	4B-5281

Hardware



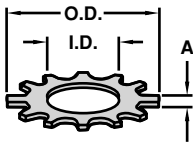
Lock Washers / Split Spring / Inch

- Made of high carbon, spring-tempered steel.
- Resists corrosion due to zinc dichromate plated finish.

Zinc Dichromate Plated / Non-Hardened

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	A THICKNESS (in)	B WIDTH (in)	PART NUMBER
No. 6	0.14	0.03	0.05	9B-1117
No. 8	0.17	0.04	0.06	3B-4501
No. 10	0.20	0.05	0.06	3B-4502
1/4	0.26	0.11	0.08	3B-4504
5/16	0.32	0.13	0.10	3B-4505
3/8	0.38	0.14	0.12	3B-4506
7/16	0.45	0.13	0.16	3B-4507
1/2	0.52	0.15	0.18	3B-4508
9/16	0.57	0.19	0.17	3B-4509

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	A THICKNESS (in)	B WIDTH (in)	PART NUMBER
5/8	0.63	0.21	0.19	3B-4510
3/4	0.76	0.23	0.19	3B-4512
7/8	0.88	0.27	0.22	3B-4514
1	1.01	0.30	0.25	3B-4516
1 1/8	1.14	0.33	0.28	3B-4518
1 1/4	1.26	0.36	0.31	3B-4520
1 3/8	1.39	0.39	0.34	3B-4522
1 1/2	1.51	0.42	0.38	3B-4524



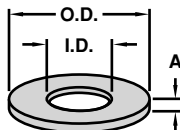
Lock Washers / External Tooth / Inch

- Provides “spring” action to keep assembly under tension.
- Resists corrosion due to zinc dichromate plated finish.

Zinc Dichromate Plated / Non-Hardened

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
No. 6	0.15	0.31	0.02	5H-6555
No. 8	0.17	0.38	0.02	1H-4393
No. 10	0.20	0.40	0.02	9F-8125
1/4	0.26	0.50	0.03	1H-3338
5/16	0.33	0.59	0.03	7H-3937
3/8	0.39	0.69	0.04	4D-1326

BOLT DIAMETER (in)	INSIDE DIAMETER (in)	OUTSIDE DIAMETER (in)	A THICKNESS (in)	PART NUMBER
7/16	0.46	0.75	0.04	7F-6998
1/2	0.52	0.89	0.04	3J-4818



Washers / Flat / Metric

- Compatible with ISO property class 10.9.

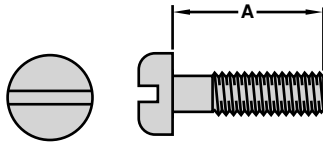
Phosphate and Oil Coated / Hardened

BOLT DIAMETER (mm)	INSIDE DIAMETER (mm)	OUTSIDE DIAMETER (mm)	A THICKNESS (mm)	PART NUMBER
M6	6.60	12.00	2.00	9X-8267
M8	8.80	16.00	2.00	9M-1974
M10	11.00	21.00	2.50	6V-5839
M12	13.50	25.50	3.00	5P-8245
M14	15.50	29.00	3.00	5P-8246
M16	17.50	30.00	3.50	9X-8268

BOLT DIAMETER (mm)	INSIDE DIAMETER (mm)	OUTSIDE DIAMETER (mm)	A THICKNESS (mm)	PART NUMBER
M20	22.00	35.00	3.50	8T-3282
M24	26.00	44.00	4.00	6V-8237
M30	33.00	56.00	6.00	9X-8399

Zinc Dichromate Plated / Hardened

BOLT DIAMETER (mm)	INSIDE DIAMETER (mm)	OUTSIDE DIAMETER (mm)	A THICKNESS (mm)	PART NUMBER
M6	6.60	12.00	2.00	9X-8256
M8	8.80	16.00	2.00	8T-4224
M10	11.00	21.00	2.50	8T4121
M12	13.50	25.50	3.00	8T-4223
M16	17.50	30.00	3.50	9X-8257
M20	22.00	35.00	3.50	8T-4123
M24	26.00	44.00	4.00	8T-4167
M30	33.00	56.00	6.00	9X-8258

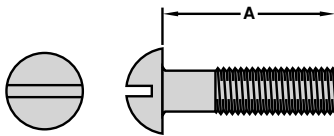


Pan Head / Machine Screws / Inch

- Made of steel and finished with a zinc plating.
- Conforms to ANSI B18.6.3 standard.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 6-32	3/8	2N-3474
	1/2	2N-3475
	3/4	2N-3476
	1	030-8838
	1 1/4	2N-3477
	1 1/2	033-4815
No. 8-32	3/4	7S-4338
	1 1/4	6V-7697
	1 1/2	7S-1198
	2	5S-9105

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 10-24	3/8	2N-3478
	1/2	2N-3479
	3/4	2N-3480
	1 1/4	2N-3162
	1 1/2	2N-7456
	1 1/2	030-9614
1/4-20	3/8	030-9614
	5/8	3K-6881
	3/4	2Y-1020
	1	7H-1246

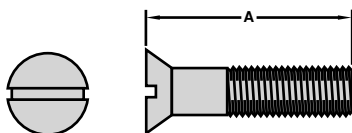


Round Head / Machine Screws / Inch

- Made of steel and finished with a zinc plating.
- Conform to ANSI B18.6.3 standard.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 6-32	1/4	4B-1218
	3/8	5S-7348
	1/2	4B-9762
	1 1/4	010-0744
	1 1/2	010-0746
No. 8-32	1/4	9B-7242
	3/8	4B-1220
	1/2	4B-1221
	3/4	5M-6668
	1	3K-8106

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 10-24	1/4	4B-1226
	3/8	4B-1227
	1/2	4B-1229
	3/4	4B-1232
	1 1/4	4B-1234
	1 1/2	011-0508
	2	032-8924
	2	032-8924



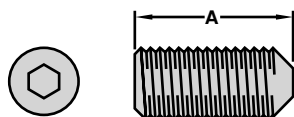
Flat Head / Machine Screws / Inch / Coarse Thread

- Made of steel and finished with a zinc plating.
- Conforms to ANSI B18.6.3 standard.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 10-24	3/8	4B-1293
	1/2	4B-1273
	5/8	4B-1274
	3/4	2H-6120
	1	1H-8456
	1 1/4	5P-5583
	1 1/2	8T-9514
	1 3/4	5P-5582
No. 6-32	3/8	5D-0853
	1/2	7K-3435

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 6-32	3/4	2D-6327
No. 8-32	1/2	4B-1268
	5/8	4B-1269
	3/4	4B-1270
	1	4B-1271
1/4-20	3/8	2M-5139
	1	4B-1284
	1 1/4	4B-1285
	1 1/2	1H-8294
	1 3/4	1H-8298
	2	1H-8299
5/16-18	1/2	4B-1286

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
5/16-18	1 1/4	1H-8293
	1 1/2	1H-8658
	1 3/4	5P-0399
3/8-16	3/4	1H-8296
	1	4B-1291
	1 1/4	5B-7431
	1 1/2	8F-6987
	1 3/4	8H-9579



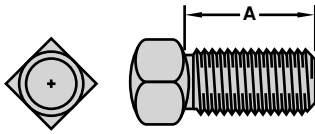
Cup Point / Set Screws / Inch / Coarse Thread UNC

- Heat treated with a black oxide finish.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
No. 10-24	1/4	5B-9324
	3/8	8C-8430
	1/2	4B-3627
1/4-20	1/4	4B-9806
	3/8	010-2570
	1/2	4B-9808
	5/8	1K-6979
	3/4	010-2573
	1	010-3575
5/16-18	1/4	010-2580

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
5/16-18	3/8	8B-7179
	1/2	010-2582
	3/4	5P-2556
	1	2H-3907
3/8-16	1/4	010-2591
	3/8	2F-5326
	1/2	3B-8601
	5/8	2F-5325
	3/4	3H-8430
	1	010-2597

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
1/2-13	1/2	010-2615
	5/8	010-2616
	3/4	4B-1771
	1	2H-3906



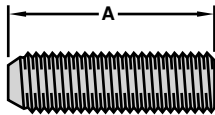
Square Head / Set Screws / Inch / Coarse Thread UNC

- Made of case-hardened steel with a full square head.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
1/4-20	3/8	4B-3565
	1/2	4B-3566
	1	4B-3569
5/16-18	1/2	4B-3570
	5/8	4B-3571
3/8-16	1/2	4B-3572
	5/8	4B-3573
	3/4	4B-3574
	7/8	4B-4994
	1	4B-3575

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
3/8-16	1 1/4	4B-3576
	1 1/2	4B-3577
	1 3/4	2H-3881
1/2-13	3/4	4B-3580
	7/8	4B-3581
	1	4B-3582
	1 1/4	4B-3583
	1 1/2	4B-3584
	1 3/4	4B-3585
	2	4B-3586

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
5/8-11	1 1/2	4B-3594
	1 3/4	4B-3595
	2	4B-3596
	2 1/2	4B-3598
	3	4B-3599
3/4-10	1 1/2	4B-3601
	1 3/4	4B-3602
	2	4B-3603
	2 1/2	4B-3604
	3	4B-3605



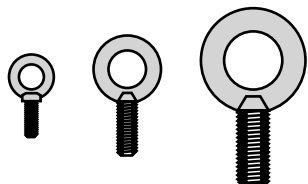
Taper Lock / Studs / Inch / Coarse Thread UNC

- Heat treated with a direct-hardening process.
- Hardened to Rockwell C 33 - 39.
- Designed with a taper point for a plug tap.
- Meet SAE grade 8 strength requirements.

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
3/8-16	1 9/16	2M-1538
	1 3/4	2M-4779
	2	1J-8668
	2 3/16	4M-2743
	2 3/8	8M-1871
	2 5/8	3M-0496
	2 13/16	7S-6719
	2 15/16	9M-3296
	3 1/8	2M-8411
	3 9/16	2M-2488
	4	6L-4428
1/2-13	1 9/16	8M-8778

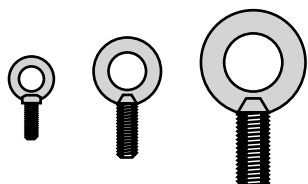
THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
1/2-13	1 3/4	2D-8153
	2	3D-0490
	2 3/16	5M-1932
	2 3/8	2D-8154
	2 5/8	4J-6925
	2 13/16	3D-0472
	2 15/16	3D-6627
	3 1/8	2D-8426
	3 9/16	2D-8155
	4	3D-0471
	4 1/2	2D-8822
5/8-11	2 3/16	3D-4639
	2 3/8	2D-8822

THREAD SIZE (in - TPI)	A SCREW LENGTH (in)	PART NUMBER
5/8-11	2 5/8	2D-5238
	2 13/16	4D-4823
	2 15/16	6L-7655
	3 1/8	3J-8154
	3 9/16	3D-5963
	4	5P-3887
	4 1/2	2D-8822
3/4-10	2 5/8	4D-6579
	2 13/16	2D-8369
	2 15/16	4D-6578
	3 1/8	4D-7246
	3 9/16	5J-6796
	4	2P-1303



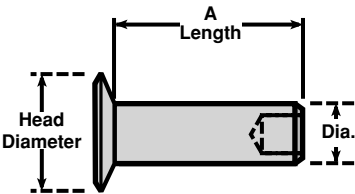
Lifting Eyebolts / Inch

THREAD SIZE (in - TPI)	MAXIMUM WORKING LOAD								PART NUMBER
	0°		30°		60°		90°		
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	
1/4-20	400	180	70	32	—	—	—	—	1P-7403
5/16-18	680	308	200	91	—	—	—	—	1P-7404
3/8-16	1000	453	375	170	200	91	155	70	1P-7405
7/16-14	1380	625	500	227	300	136	235	107	1P-7406
1/2-13	1840	835	805	365	470	213	395	179	1P-7407
5/8-11	2940	1330	1340	608	805	365	670	304	2D-1201
3/4-10	4340	1960	2115	959	1180	540	1040	472	1P-7409



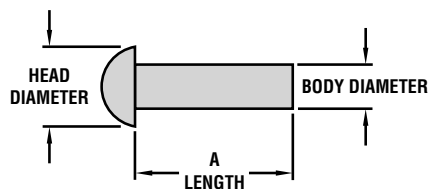
Lifting Eyebolts / Metric

THREAD SIZE (dia x pitch)	MAXIMUM WORKING LOAD				PART NUMBER
	0°		<=45°		
	(lb)	(kg)	(lb)	(kg)	
M8 x 1.25	350	160	175	80	3E-3882
M16 x 2.00	1380	630	690	315	3E-3879
M20 x 2.50	2200	1000	1100	500	3E-3880
M24 x 3.00	3520	1600	1760	800	3E-3881
M64 x 6.00	35270	16000	17635	8000	3E-3878



Rivets / Flat Head / Countersunk Shank / Inch

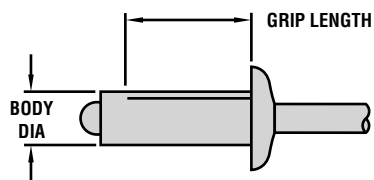
BODY DIAMETER (in)	A LENGTH (in)	HEAD DIAMETER (in)	PART NUMBER	MATERIAL
5/32	5/16	3/8	6B-4284	STEEL
3/16	9/32	3/8	7B-5048	BRASS
3/16	5/16	3/8	7B-5050	BRASS
3/16	3/8	3/8	7B-5054	BRASS
3/16	13/32	3/8	7B-5056	BRASS
3/16	15/32	3/8	7B-5060	BRASS
3/16	1/2	3/8	7B-5062	BRASS
3/16	17/32	3/8	6B-1985	STEEL
3/16	17/32	3/8	7B-5064	BRASS
3/16	19/32	3/8	6B-4594	STEEL
3/16	19/32	3/8	7B-5068	BRASS
3/16	19/32	3/8	7B-5068	BRASS
3/16	19/32	3/8	7B-5068	BRASS
3/16	3/4	3/8	6B-1369	STEEL



Rivets / Button Head / Solid Shank / Inch

- Made of cold-formed steel.
- Meets ANSI B18.1.1 requirements.

BODY DIAMETER (in)	A LENGTH (in)	HEAD DIAMETER (in)	PART NUMBER
1/8	1/4	0.23	4B-4304
1/8	3/8	0.23	4B-4306
1/8	1/2	0.23	4B-4307
3/16	3/8	0.34	4B-4310
3/16	1/2	0.34	4B-4311
3/16	5/8	0.34	4B-4312
3/16	3/4	0.34	4B-4314
3/16	7/8	0.34	1J-6280
3/16	1	0.34	4B-4315
1/4	3/8	0.45	4B-4319
1/4	1/2	0.45	4B-4320
1/4	5/8	0.45	4B-4321
1/4	3/4	0.45	4B-4322
1/4	7/8	0.56	1F-3577
1/4	1 1/8	0.45	4B-4325
5/16	5/8	0.56	4B-4334
5/16	3/4	0.56	4B-4335
5/16	7/8	0.56	4B-4336
5/16	1	0.56	4B-4337
3/8	3/4	0.67	4B-4343
3/8	7/8	0.67	4B-4344
3/8	1	0.67	4B-4345
3/8	1 1/8	0.67	4B-4346
3/8	1 1/4	0.67	4B-4347

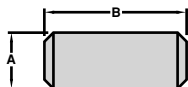


Rivets / Blind / Inch

- Contains an open-end and a steel mandrel.

BODY DIAMETER (in)	GRIP LENGTH (in)	PART NUMBER
1/8	3/8 - 1/2	6K-3273
1/8	1/8 - 3/16	7K-6536
1/8	1/16 - 1/8	8L-7905
1/8	5/16 - 3/8	9M-5731
5/32	1/4 - 3/8	034-7044
5/32	1/8 - 1/4	2N-2258
3/16	3/8 - 1/2	033-9412
3/16	1/2 - 5/8	4D-6716
3/16	1/4 - 3/8	9M-5732
3/16	1/8 - 1/4	9M-5733

Spring Pins / Roll Pin / Inch

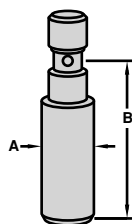


- Contains a chamfered end for easy installation.
- Made of heat-treated steel.

A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
1/16	1/4	8S-7499
	3/8	1L-5316
	1/2	8S-3157
	3/4	2L-4911
3/32	1/2	3H-1118
	5/8	2K-3455
	3/4	2L-5894
	1	5M-8009
	1 1/4	032-8870
1/8	1/2	3H-9675
	5/8	4H-1641
	3/4	3K-4897
	1	8T-0277
	1 1/4	2K-8467
5/32	3/8	8L-6565
	1/2	1T-0099
	3/4	2L-5893
	1	5H-9839
	1 1/2	6V-3259
3/16	1/2	5H-8985
	5/8	2K-5986
	3/4	4H-8380
	1	6H-3956
	1 1/4	1H-1200
	1 1/2	4H-3119

A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
3/16	1 3/4	1J-5799
1/4	1/2	6B-6863
	5/8	3H-2617
	3/4	7M-5130
	1	5H-3182
	1 1/4	5H-3193
	1 1/2	2L-1699
	1 3/4	4H-4737
	2	4H-6996
	2 1/2	1J-5353
	3/4	4H-1440
5/16	1	1T-0550
	1 1/2	2H-9445
	1 3/4	5M-1179
	2	2M-3521
	3	2K-1594
	5/8	1T-0068
	3/4	8T-5089
3/8	1	2L-3650
	1 1/4	5J-3941
	1 1/2	2J-5850
	1 3/4	5L-5711
	2	1J-8136
	3	045-7012
1/2	3/4	7K-6820

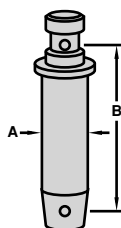
A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
1/2	1	1N-5981
	1 1/4	2K-9062
	1 1/2	5H-4905
	2 1/2	2K-8078
	3	027-3873
	3 1/2	031-0255
	4	8C-8513



TYPE 1

Drawbar and Clevis Pins / Type I

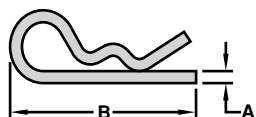
A DIAMETER (in)	PIN HOLE DIAMETER (in)	B LENGTH (in)	PART NUMBER
1 1/2	25/64	9 7/8	5H-8812
2	25/64	8 3/8	9S-8184
2	25/64	9 3/8	2R-0179
2 15/64	25/64	10 3/8	1H-4106



TYPE 2

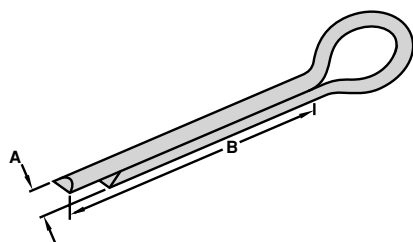
Drawbar and Clevis Pins / Type II

A DIAMETER (in)	PIN HOLE DIAMETER (in)	B LENGTH (in)	PART NUMBER
1 1/2	25/64	7	7F-9549
1 1/2	25/64	8	7F-9544
1 35/64	25/64	9	7F-9541
1 3/4	25/64	8	7F-9547
1 3/4	25/64	12	5H-2209
2	25/64	10 1/2	2M-0093



Locking Pins /Inch / Steel

A DIAMETER (in)	PIN HOLE DIAMETER (in)	B LENGTH (in)	PART NUMBER
3/32	1/4 - 1/2	1.62	5P-0372
3/32	1/2	2.00	008-3843
1/8	1/2 - 3/4	1.75	6S-6646
1/8	5/8 - 7/8	2.50	8S-6377
5/32	5/8 - 7/8	3.00	5P-0370
3/16	3/4 - 11/16	3.75	5P-8837



Cotter Pins / Inch / Zinc Plated Steel

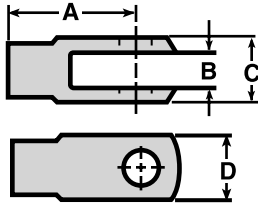
A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
1/16	3/4	3B-4605
	1 1/4	3B-4606
	1 1/2	010-3365
3/32	1/2	3B-4607
	3/4	1S-0685*
	1	3B-4611
	1	6F-3465*
	1 1/4	3B-4612
	1 1/2	3B-5312
	1 3/4	2H-3862
	2	010-3378
1/8	1/2	3B-4613
	3/4	3B-4615
	1	3B-4617
	1 1/4	3B-4618
	1 1/4	6F-5264*
	1 1/2	5H-9456*
	1 3/4	6H-5800*
	2	3B-4621
	2	7F-2002*
	2 1/4	3B-4622
	2 1/2	8B-9264
9/64	1	1S-1083*
	1 1/4	9M-6505*
5/32	1 1/4	3B-4624
	1 1/2	3B-5301
	1 3/4	7B-1331

A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
5/32	2	2H-3768
	2 1/4	010-3401
	2 3/4	3B-4625
3/16	1	3B-4627
	1 1/4	3B-4628
	1 1/2	3B-4629
	2	3B-4631
	2 1/4	3B-5302
	2 1/2	3B-4632
	2 3/4	3B-4633
	3	3B-4634
	4	3B-4636
1/4	1	2H-3769
	1 1/4	3B-4637
	1 1/2	3B-5313
	1 3/4	3B-4639
	2	3B-4640
	2 1/4	3B-5303
	2 1/2	3B-4641
	3	3B-5328
	3 1/2	3B-4643
	4	8T-1459
5/16	4 1/2	4D-8002
	1	3B-6705
	1 1/4	2H-3770
	1 1/2	2H-3771
	2	3B-5314

A DIAMETER (in)	B PIN LENGTH (in)	PART NUMBER
5/16	2 1/4	3B-5315
	2 1/2	3B-5316
	3	3B-5317
	3 1/2	2H-3772
	4	2H-3773
	4 1/2	3F-8357
3/8	5	2H-3774
	1 1/4	1S-0686
	1 1/2	3B-4644
	1 3/4	3B-4645
	2	3B-4646
	2 1/2	3B-4647
	2 3/4	3B-5319
	3	3B-5320
	3 1/2	3B-5322
	4	3B-5329
1/2	4 1/2	4J-1888
	2	3B-5323
	2 1/2	3B-5324
	2 3/4	3B-5325
	3	2H-3775
	3 1/2	3B-5326
	5	1J-2920
5/8	5 1/2	3J-2985
	3	3B-5327

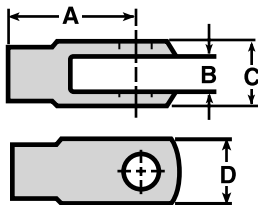
* Double head cotter pin.

Hardware



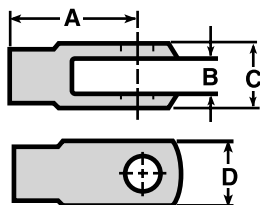
Yoke-Type Rod End / Inch

DIAMETER (in)	A LENGTH TO PIN HOLE (in)	B GAP SIZE (in)	C HEIGHT (in)	D WIDTH (in)	PART NUMBER	NUT	PIN ASSY.	CLEVIS PIN	RETAIN. CLIP	RETAIN. PIN	COTTER PIN
1/4	26.2	7.10	15.90	12.70	2M-4036	5L-4426		4B-3057			3B-4607
1/4	50.8	7.10	15.90	12.70	8B-3768	5L-4426		4B-3057			3B-4607
5/16	30.2	8.70	19.00	15.00	3D-9609	1B-4202		1A-2457			3B-4609
5/16	57.0	8.70	18.00	15.00	010-4037	1B-4202		1A-2457			3B-4609
3/8	34.9	11.10	22.20	17.50	1M-1341	1B-4203	8T-8932				
3/8	34.9	11.10	22.20	17.50	1M-1341	1B-4203		1B-0676			3B-4615
3/8	63.5	11.10	22.20	17.50	1A-9252	1B-4203		1B-0676			3B-4615
1/2	46.0	14.30	28.60	23.90	2M-8340	9S-5585		8B-1419		6S-6646	
1/2	46.0	14.30	28.60	23.90	2M-8340	9S-5585		8B-1419			3B-4617
1/2	76.2	14.30	28.60	23.90	6F-7010	9S-5585		8B-1419		6S-6646	
1/2	76.2	14.30	28.60	23.90	6F-7010	9S-5585		8B-1419			3B-4617
5/8	57.9	17.50	34.90	30.20	4M-7930	5D-3183		9S-1315			3B-4617
5/8	125.4	17.50	34.90	30.20	9S-1314	5D-3183		9S-1315			3B-4617



Yoke-Type Rod End / Metric

DIAMETER (mm)	A LENGTH TO PIN HOLE (mm)	B GAP SIZE (mm)	C HEIGHT (mm)	D WIDTH (mm)	PART NUMBER	NUT	PIN ASSY.	CLEVIS PIN	RETAIN. CLIP	RETAIN. PIN	COTTER PIN
M6	36.0	6.0	12.0	12.0	8T-4742	5C-2890	8T-4744	8T-6904	8T-6902		
M10	40.0	10.0	20.0	20.0	8T-4815	8T-4133	8T-4743	9R-2806	9R-2807		
M10-LH	60.0	10.0	20.0	20.0	8C-6955	9X-2065	8T-5381	9R-2806	9R-2807		
M10	60.0	10.0	20.0	20.0	8T-5063	8T-4133	8T-5381	9R-2806	9R-2807		
M12	48.0	12.2	24.0	24.0	8C-3393	8T-4244	8C-3394	8T-6905	8T-6903		
M12	48.0	12.2	24.0	24.0	8C-3393	8T-4244		7X-3161		6S-6646	3B-4615
M12-LH	72.0	12.0	24.0	24.0	7X-0858	8T-4244	8T-5382	8T-6905	8T-6903		
M12-LH	72.0	12.0	24.0	24.0	7X-0858	8T-4244		7X-3161		6S-6646	3B-4615
M12	72.0	12.0	24.0	24.0	8T-4650	8T-4244	8T-5382	8T-6905	8T-6903		
M12	72.0	12.0	24.0	24.0	8T-4650	8T-4244		7X-3161		6S-6646	3B-4615

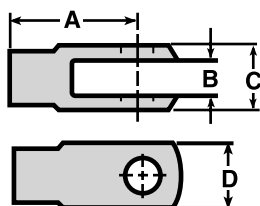


Yoke-Type Rod End / Jump Sizes / Metric

DIAMETER (mm)	A LENGTH TO PIN HOLE (mm)	B GAP SIZE (mm)	C HEIGHT (mm)	D WIDTH (mm)	PART NUMBER	NUT	PIN ASSY.	CLEVIS PIN	RETAIN. CLIP	RETAIN. PIN	COTTER PIN
M10**	40.0	10.0	20.0	20.0	3E-3826	8T-4133		1B-0676		6S-6646	3B-4615
M10*	40.0	10.0	20.0	20.0	8T-5921	8T-4133					

* 6.0 mm bore.

** 9.5 mm bore.



Yoke-Type Rod End / Forged / Metric

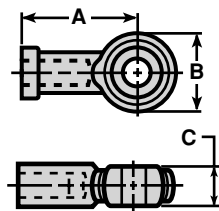
DIAMETER (mm)	A LENGTH TO PIN HOLE (mm)	B GAP SIZE (mm)	C HEIGHT (mm)	D WIDTH (mm)	PART NUMBER	NUT	PIN ASSY.	CLEVIS PIN	RETAIN. CLIP	RETAIN. PIN	COTTER PIN
M6*	45.0	7.1	15.9	13.0	7X-2496	5C-2890		7X-2618			3B-4607
M10**	34.9	11.1	22.2	17.5	8T-4968	8T-4133		1B-0676		6S-6646	3B-7615
M10**	63.5	11.1	22.2	17.5	8T-3988	8T-4133		1B-0676		6S-6646	3B-7615
M12***	46.4	14.3	28.6	23.9	7X-7660	8T-4244		8B-1419			3B-4617

* External thread.

*** 12.7 mm bore.

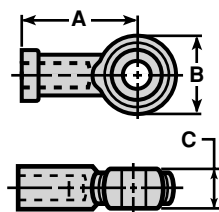
** 9.5 mm bore.

Hardware



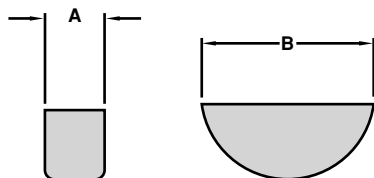
Spherical Rod End / Inch

DIAMETER (in)	A LENGTH TO PIN HOLE (in)	B DIAM. (in)	C HEIGHT (in)	PART NUMBER
1/4	1.33	0.89	0.37	6L-7751
5/16	1.37	1.02	0.44	7H-3641
3/8	1.64	1.13	0.50	4D-4064
1/2	2.12	1.39	0.63	4D-4065



Spherical Rod End / Metric

DIAMETER (mm)	A LENGTH TO PIN HOLE (mm)	B DIAM. (mm)	C HEIGHT (mm)	PART NUMBER
M6	29.0	22.0	9.0	8C-3111
M8	35.0	26.0	12.0	7X-7915
M10	42.0	30.0	14.0	8T-6431
M12	49.0	34.0	19.0	8C-3392
M16	63.0	42.0	21.0	9R-4760

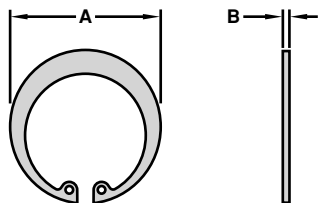


Woodruff Keys

- Made of medium carbon steel and machined to a smooth finish.

A THICKNESS (in)	B DIAMETER (in)	SAE NUMBER	PART NUMBER
1/16	5/16	206	4F-2291
1/16	3/8	211	3B-2098
1/16	1/2	1	1F-3130
3/32	5/16	207	8B-9318
3/32	3/8	212	1B-8735
3/32	1/2	2	1B-8701
3/32	5/8	4	1B-8703
1/8	3/8	213	5H-2532
1/8	1/2	3	1B-8702
1/8	5/8	5	1B-8704
1/8	3/4	7	1B-8706
5/32	5/8	6	1B-8705
5/32	3/4	8	1B-8707
5/32	7/8	10	1B-8709
3/16	3/4	9	1B-8708
3/16	7/8	11	1B-8710
3/16	1	13	1B-8712
3/16	1 1/8	16	1B-8715
7/32	1	14	3K-4723
1/4	3/4	91	2B-9373
1/4	7/8	A	1B-8736
1/4	1	15	1B-8714
1/4	1 1/8	18	1B-8716
1/4	1 1/4	21	1B-8719
1/4	1 3/8	22	1B-8720
1/4	1 1/2	24	1B-8722
5/16	1	B	1H-6627
5/16	1 1/8	C	1B-8737
5/16	1 1/4	D	1B-8738
5/16	1 3/8	23	1B-8721
5/16	1 1/2	25	1B-8723
3/8	1 1/4	E	1B-8739
3/8	1 3/8	F	1B-8740
3/8	1 1/2	G	1B-8741
3/8	2 3/4	T	1B-8743

Hardware

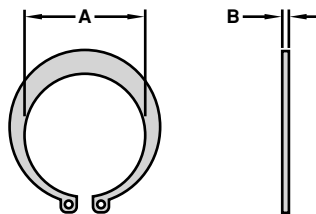


Snap Rings / Internal / Inch

- Made of tempered carbon steel.

BORE DIAMETER (in)	A FREE DIAMETER (in)	B THICKNESS (in)	PART NUMBER
0.44	0.48	0.025	3D-8358
0.50	0.55	0.035	1S-1638
0.56	0.62	0.035	2R-1256
0.69	0.76	0.035	1H-4142
0.75	0.83	0.035	2M-8191
0.81	0.90	0.042	5S-4455
0.88	0.97	0.042	2L-6726
0.90	1.00	0.042	4L-1466
1.00	1.11	0.042	4D-1322
1.12	1.25	0.050	5S-1522
1.25	1.39	0.050	2D-6398
1.38	1.53	0.050	1L-3768
1.44	1.60	0.050	2H-1142
1.50	1.66	0.062	8N-7294
1.56	1.73	0.062	3K-9879
1.65	1.83	0.062	2R-1230
1.81	2.01	0.062	2D-5826
1.85	2.05	0.078	1L-8490
2.05	2.28	0.078	6J-7855
2.31	2.54	0.078	2D-6648
2.44	2.70	0.078	6L-8797
2.50	2.77	0.078	4D-1736
2.75	3.05	0.093	6K-3531
2.83	3.12	0.093	2H-5549
3.00	3.33	0.093	2R-1236
3.16	3.52	0.109	1K-6985
3.25	3.62	0.109	8J-7636
3.50	3.89	0.109	3D-8341
3.56	3.94	0.109	1J-6472
3.88	4.29	0.109	9M-9935
4.00	4.42	0.109	7M-2275
4.33	4.76	0.109	5L-4751
4.72	5.21	0.109	067-3161

BORE DIAMETER (in)	A FREE DIAMETER (in)	B THICKNESS (in)	PART NUMBER
5.00	5.49	0.109	2L-0043
6.00	6.62	0.125	5L-4756
7.00	7.72	0.156	1L-7388
7.50	8.27	0.187	7F-6021



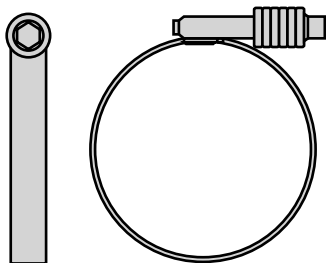
Snap Rings / External / Inch

- Made of tempered carbon steel.

SHAFT DIAMETER (in)	A FREE DIAMETER (in)	B THICKNESS (in)	PART NUMBER
0.25	0.22	0.025	6H-5829
0.38	0.34	0.025	9M-7611
0.44	0.40	0.025	4H-0094
0.47	0.43	0.025	6L-3801
0.56	0.52	0.035	3D-2975
0.59	0.55	0.035	2L-8509
0.62	0.58	0.035	8F-4610
0.75	0.69	0.042	2J-6356
0.81	0.75	0.042	9F-5444
0.94	0.87	0.042	6H-6109
0.98	0.91	0.042	1L-8497
1.00	0.93	0.042	001-5600
1.06	0.98	0.050	3K-8276
1.12	1.04	0.050	5L-4019
1.19	1.10	0.050	4M-5285
1.25	1.16	0.050	2M-4287
1.31	1.21	0.050	4D-8309
1.38	1.27	0.050	1J-6474
1.56	1.45	0.062	2L-6965
1.62	1.50	0.062	9L-2336
1.69	1.56	0.062	5L-2931
1.77	1.64	0.062	2J-7550
1.81	1.68	0.062	5K-9106
1.88	1.74	0.062	1K-6995
1.97	1.82	0.062	077-9687
2.12	1.96	0.078	1K-6984
2.16	1.99	0.078	4K-4284
2.50	2.31	0.078	5K-4627
2.56	2.38	0.078	6S-1753
2.62	2.43	0.078	1K-6992
2.75	2.54	0.093	5J-3864
2.94	2.72	0.093	7J-6580
3.16	2.92	0.093	1N-8620

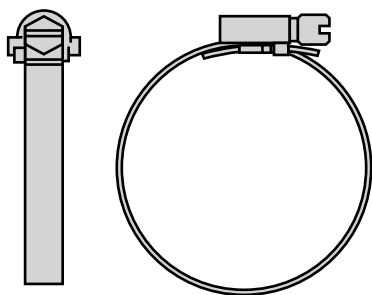
SHAFT DIAMETER (in)	A FREE DIAMETER (in)	B THICKNESS (in)	PART NUMBER
3.35	3.09	0.093	9S-4368
3.50	3.24	0.109	5L-4753
3.62	3.35	0.109	7J-6525
4.00	3.70	0.109	8F-1959
4.25	3.99	0.109	1N-5410
4.38	4.11	0.109	5H-5012
4.75	4.46	0.109	2L-0049
5.75	5.40	0.125	5L-8579
6.25	5.87	0.156	2L-0044

Hardware



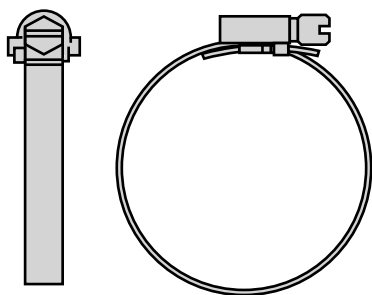
Hose Clamps / Uniform Load

	WORKING DIAMETER		PART NUMBER
	(in)	(mm)	
1	1/4-2 1/8	32-54	8T-4983
1	3/4-2 5/8	45-67	8T-6703
2	1/4-3 1/8	57-79	8T-4984
2	3/4-3 5/8	70-92	8T-6675
3	1/4-4 1/8	83-105	8T-4985
4	1/4-5 1/8	108-130	8T-4986
5	1/4-6 1/8	133-156	8T-4987
6	1/4-7 1/8	159-181	8T-4988
7	1/4-8 1/8	184-206	8T-4989
8	1/4-9 1/8	210-232	8T-4990



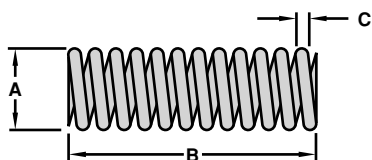
Hose Clamps

	WORKING DIAMETER		PART NUMBER
	(in)	(mm)	
	7/32-5/8	6-16	1P-4278
	9/16-11/16	16-27	5D-1026
	15/16-1 3/4	24-45	9M-7958
	1 9/16-2 1/2	40-64	9M-0164
	2 9/16-3 1/2	65-89	9M-7959
	3 5/16-4 1/4	89-108	9M-6738



Hose Clamps / Heavy Duty

	WORKING DIAMETER		PART NUMBER
	(in)	(mm)	
1	1/4-2	32-51	5P-2230
1	3/4-2 5/8	45-67	5P-0597
2	1/8-4 1/8	54-105	5P-0598
	4-6 1/8	102-156	5P-0599
	6-9	156-229	5P-0600



Springs / Compression

A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
1/4	5/16	0.031	9N-1747
	3/8	0.031	9L-9522
	1/2	0.031	091-7106
	9/16	0.031	3G-0670
	3/4	0.031	7V-3827
	13/16	0.031	090-5957
	1	0.063	4T-7794
	1 5/16	0.063	1V-8784
	1 1/2	0.031	9N-4049
	2 1/4	0.031	9N-1622
	2 13/16	0.063	8J-9273
3/8	1/2	0.031	6B-3364
	9/16	0.063	7M-3801
	5/8	0.031	7M-7446
	3/4	0.031	3K-7217
	7/8	0.063	4K-8350
	15/16	0.031	9S-1347
	1	0.031	1V-9969
	1 1/8	0.031	9L-6422
	1 1/4	0.031	3N-6233
	1 1/2	0.031	5B-1890
	1 5/8	0.031	6N-8793
	1 3/4	0.031	2V-3457
	1 7/8	0.063	6P-4993
	2 3/16	0.063	7N-0426
	2 1/4	0.031	2L-4403
	2 1/2	0.031	7F-7276
	2 5/8	0.094	2H-5062
	3 1/8	0.094	1P-9602
	3 3/8	0.094	7B-9411
	3 5/8	0.094	4M-5912
	4	0.031	034-3705
1/2	5/8	0.031	6F-0967
	1	0.031	5K-3918
	1 1/4	0.031	5F-7464
	1 1/2	0.063	6Y-0172

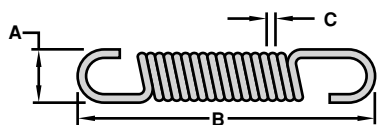
A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
1/2	1 5/8	0.031	3C-0585
	1 3/4	0.125	3G-7402
	1 7/8	0.063	9M-1986
	2	0.031	7M-7244
	2 1/4	0.063	0L-1466
	2 1/2	0.063	6P-7701
	2 5/8	0.031	3N-5738
	3 1/4	0.031	0L-1142
	3 3/4	0.063	5B-1952
	3 7/8	0.094	5J-9605
	4 1/4	0.063	5B-8858
	4 3/4	0.063	5M-6110
	4 7/8	0.094	3T-7584
	5 3/8	0.094	6T-1318
	5 7/8	0.094	9S-9876
5/8	3/8	0.094	1K-7039
	1/2	0.063	6T-8234
	5/8	0.031	9N-6249
	1	0.188	6B-3416
	1 1/8	0.094	6S-8736
	1 1/4	0.094	9M-3091
	1 1/2	0.063	5B-3754
	1 13/16	0.063	3F-8845
	1 7/8	0.094	4F-9503
	2	0.094	9W-1467
	2 1/8	0.063	2P-5700
	2 1/4	0.063	5J-1787
	2 1/2	0.063	2F-5889
	2 3/4	0.063	4F-6145
	3 1/8	0.094	4J-4051
	3 1/4	0.063	1W-6077
	3 3/8	0.125	3P-7566
	3 1/2	0.063	6P-9784
	3 3/4	0.125	4T-4033
	4 3/8	0.094	2P-4498
	4 1/2	0.125	9T-1676

Hardware

Springs / Compression

A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
3/4	7/8	0.031	4T-2684
	1	0.125	6F-4294
	1 3/8	0.031	3N-7848
	1 1/2	0.094	7M-3496
	1 5/8	0.125	5F-2201
	2	0.063	5F-9035
	2 1/4	0.094	7G-5378
	2 3/8	0.125	9S-8237
	2 1/2	0.125	1K-4476
	2 5/8	0.125	3D-2777
	2 7/8	0.063	8F-3398
	3	0.156	1K-9105
	3 1/8	0.094	6H-1649
	3 3/8	0.094	5H-7473
	3 5/8	0.094	1U-1067
	3 7/8	0.063	2H-6117
	4	0.125	1S-5646
	4 1/4	0.094	9F-6092
	4 1/2	0.031	9T-8208
	4 7/8	0.094	2S-6538
7/8	7/16	0.063	3P-8042
	15/16	0.063	9P-9211
	1 3/16	0.094	8J-6080
	2	0.094	9S-8632
	2 3/16	0.094	9H-4204
	2 7/16	0.125	4M-6012
	2 7/8	0.125	1W-9860
	3	0.125	5N-3015
	3 1/8	0.125	3P-0246
	3 3/8	0.125	1W-2208
	3 1/2	0.125	9L-9243
	4 3/8	0.063	5M-6111
	4 1/2	0.094	6K-4302
	4 5/8	0.125	6B-8809
	5 3/8	0.156	4D-7637
	5 1/2	0.094	7M-1405
	5 5/8	0.156	5D-6293
	5 15/16	0.094	4H-1221
	6 7/16	0.125	4D-9469
	7 1/4	0.125	7D-6198
1	5/8	0.063	9T-1699
	7/8	0.125	7W-2110

A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
1	1	0.094	7V-0444
	1 1/8	0.094	9P-8308
	1 1/4	0.094	6T-7221
	1 3/8	0.094	7J-0736
	1 1/2	0.125	1P-0620
	1 5/8	0.063	4N-5663
	1 3/4	0.125	1S-7592
	1 7/8	0.063	9F-1993
	2	0.094	2S-8398
	2 1/8	0.125	9T-2168
	2 1/4	0.156	8H-9488
	2 3/8	0.094	2J-0075
	2 1/2	0.125	7W-7700
	2 5/8	0.125	3V-5498
	2 3/4	0.094	8J-3819
	2 7/8	0.125	6L-2084
	3	0.094	4J-7066
	3 1/8	0.094	5J-3719
	3 1/4	0.094	8J-1705
	3 3/8	0.188	039-8820
	3 1/2	0.156	9T-1848
	3 3/4	0.094	5J-3419
	4	0.063	4B-4910
	4 1/8	0.063	1L-1098
	4 1/4	0.156	6L-4173
	4 1/2	0.156	9J-5002
	4 3/4	0.094	8J-6728
	4 7/8	0.125	5M-5526
	5	0.063	3L-4521
	5 1/4	0.094	8J-5839
	5 3/8	0.188	8M-1955
	5 1/2	0.188	6N-1320
	5 5/8	0.156	4M-0804
	6 1/8	0.156	2S-2760
	6 1/4	0.094	4F-6446
	6 1/2	0.125	6D-0314
	6 7/8	0.125	5M-7884



Springs / Extension

A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
5/16	1	0.094	039-9138
	1 1/4	0.035	7F-7613
	1 7/16	0.031	1A-3540
	1 11/16	0.031	3C-0481
	2 13/32	0.031	038-8415
3/8	1 1/2	0.063	1A-1376
	1 5/8	0.063	7L-4563
	4 9/32	0.047	5H-4291
1/2	1 1/4	0.063	8L-8491
	1 1/2	0.063	090-3006
	2	0.063	1A-0302
9/16	1 5/8	0.063	5M-9708
	4 1/4	0.063	2R-0416
5/8	1 3/8	0.063	9F-0965
	2 1/8	0.063	001-2809
	2 7/8	0.031	001-2810
	4	0.063	001-2811

A OUTSIDE DIAMETER (in)	B LENGTH (in)	C WIRE DIAMETER (in)	PART NUMBER
11/16	4	0.094	1D-1313
	6	0.094	7D-5289
3/4	2 5/32	0.063	1A-8189
25/32	3 3/4	0.094	1F-4449
7/8	2	0.094	2D-9871
	2 1/4	0.125	8L-5917
	3 1/8	0.125	5G-1684
	3 1/4	0.094	8Y-4581
	3 13/16	0.094	9S-1312
	4	0.125	7G-1251
1	4	0.094	009-2445
	5 1/8	0.094	035-7877
	5 3/8	0.156	038-2805
1 3/16	5 5/32	0.156	9P-9185
	5 3/8	0.125	091-7882
1 3/16	6 1/2	0.156	091-7881

Hardware

Hardware Bin Kits

Thirteen different Hardware Bin Kits are available for customers who want to stock hardware bins for their service departments and/or service vehicles with various quantities of popular sizes of Cat bolts, nuts and washers. Kits available:

PART NUMBER	THREAD	COATING	CONTAINS	PIECES	BOLT HEAD
3E-6640	Inch - Course	Phos. & Oil	59 Part Numbers	1735	Hex
3E-9420	Inch - Course	Phos. & Oil	38 Part Numbers	1975	Hex
3E-9421	Inch - Fine	Phos. & Oil	38 Part Numbers	1650	Hex
3E-9422	Metric - Coarse	Phos. & Oil	38 Part Numbers	1580	Hex
222-9998	Inch - Coarse	Zinc Dich.	59 Part Numbers	2175	Hex
222-9999	Inch - Coarse	Zinc Dich.	38 Part Numbers	1520	Hex
223-0000	Metric - Coarse	Phos. & Oil	56 Part Numbers	1965	Hex
223-0001	Metric - Coarse	Zinc Dich.	56 Part Numbers	1985	Hex
223-0002	Metric - Coarse	Zinc Dich.	38 Part Numbers	1510	Hex
223-0003	Inch - Coarse	Phos. & Oil	38 Part Numbers	1420	Socket
223-0004	Metric - Coarse	Phos. & Oil	38 Part Numbers	1420	Socket
222-9996	Inch - Coarse	Phos. & Oil	38 Part Numbers	1420	12-Point
222-9997	Inch - Fine	Phos. & Oil	40 Part Numbers	1570	12-Point

Hardware Shop / Field Kits

Five different Hardware Shop / Field Kits are available for small repair shops or field service vehicles. Kits contain assortments of popular sizes of Cat bolts with matching washers and nuts, in phosphate and oil coatings. The hardware is packaged in a rugged metal box with hinged metal cover and latch. Inch Hardware Kits come in two sizes, small and large, depending on the quantity of hardware in the kit. Kits available:

PART NUMBER	THREAD	COATING	SIZE	CONTAINS	PIECES
178-2207	Inch - Fine	Phos. & Oil	Large	24 Part Numbers	476
178-2208	Inch - Fine	Phos. & Oil	Small	29 Part Numbers	894
178-2209	Inch - Coarse	Phos. & Oil	Small	27 Part Numbers	502
178-2210	Inch - Coarse	Phos. & Oil	Large	34 Part Numbers	936
178-2211	Metric - Coarse	Phos. & Oil	Small	32 Part Numbers	630



Convenient Hardware Packages

- Hardware packaged in resealable plastic clamshell packages
- Product includes inch and metric bolts, nuts, washers, hose clamps, cable ties, electrical fuses, and cotter pins
- Smaller easy-to-use packages offer convenience for the service technician

RETAIL PACKAGE PART NO.	DESCRIPTION	CONSISTS OF: RETAIL PKG. QTY.	BULK PART NO.
247-0188	1/4-20 x 1/2 in Hex Head Bolt	50	0S-1614
247-0189	1/4-20 x 3/4 in Hex Head Bolt	50	0S-1615
247-0190	1/4-20 x 1 in Hex Head Bolt	50	0S-1616
247-0191	1/4-20 x 1 1/4 in Hex Head Bolt	50	7B-2742
247-0192	1/4-20 x 1 1/2 in Hex Head Bolt	25	9F-7022
247-0193	1/4-20 x 1 3/4 in Hex Head Bolt	25	1B-2713
247-0194	1/4-20 x 2 in Hex Head Bolt	25	8B-2377
247-0195	1/4-20 x 2 1/4 in Hex Head Bolt	25	1D-4533
247-0196	1/4-20 x 2 1/2 in Hex Head Bolt	25	1B-2714
247-0197	1/4-20 x 2 3/4 in Hex Head Bolt	25	2A-4781
247-0198	1/4-20 x 3 in Hex Head Bolt	25	4B-9365
247-0199	1/4 in Hard Washer	25	5P-0537
247-0200	1/4 in Lock Washer	100	3B-4504
247-0201	1/4-20 Full Nut	50	9S-8750
247-0202	5/16-18 x 1/2 in Hex Head Bolt	50	1C-0569
247-0203	5/16-18 x 3/4 in Hex Head Bolt	50	0S-1617
247-0204	5/16-18 x 1 in Hex Head Bolt	25	0S-1618
247-0205	5/16-18 x 1 1/4 in Hex Head Bolt	25	1B-7182
247-0206	5/16-18 x 1 1/2 in Hex Head Bolt	25	1A-9579
247-0207	5/16-18 x 1 3/4 in Hex Head Bolt	25	1B-9575
247-0208	5/16-18 x 2 in Hex Head Bolt	25	2B-2694
247-0209	5/16-18 x 2 1/4 in Hex Head Bolt	25	1D-4538
247-0210	5/16-18 x 2 1/2 in Hex Head Bolt	25	1D-4539
247-0211	5/16-18 x 2 3/4 in Hex Head Bolt	25	1D-4540
247-0212	5/16-18 x 3 in Hex Head Bolt	10	1D-4541
247-0213	5/16 in Hard Washer	25	9M-1974
247-0214	5/16 in Lock Washer	100	3B-4505
247-0215	5/16-18 Full Nut	50	5S-0003
247-0216	3/8-16 x 1/2 in Hex Head Bolt	50	4F-4879
247-0217	3/8-16 x 3/4 in Hex Head Bolt	25	0S-0509
247-0218	3/8-16 x 1 in Hex Head Bolt	25	0S-1594
247-0219	3/8-16 x 1 1/4 in Hex Head Bolt	25	0S-1588
247-0220	3/8-16 x 1 1/2 in Hex Head Bolt	25	0S-1591
247-0221	3/8-16 x 1 3/4 in Hex Head Bolt	25	0S-1571
247-0222	3/8-16 x 2 in Hex Head Bolt	25	0S-1590
247-0223	3/8-16 x 2 1/4 in Hex Head Bolt	10	0L-2070

RETAIL PACKAGE PART NO.	DESCRIPTION	CONSISTS OF: RETAIL PKG. QTY.	BULK PART NO.
247-0224	3/8-16 x 2 1/2 in Hex Head Bolt	10	0L-1143
247-0225	3/8-16 x 2 3/4 in Hex Head Bolt	10	0T-0573
247-0226	3/8-16 x 3 in Hex Head Bolt	10	0S-1619
247-0227	3/8 in Hard Washer	25	5M-2894
247-0228	3/8 in Lock Washer	100	3B-4506
247-0229	3/8-16 Full Nut	50	9S-8752
247-0230	1/2-13 x 1/2 in Hex Head Bolt	25	1K-6705
247-0231	1/2-13 x 3/4 in Hex Head Bolt	25	0S-1620
247-0232	1/2-13 x 1 in Hex Head Bolt	25	0S-1621
247-0233	1/2-13 x 1 1/4 in Hex Head Bolt	10	0S-1595
247-0234	1/2-13 x 1 1/2 in Hex Head Bolt	10	0S-1585
247-0235	1/2-13 x 1 3/4 in Hex Head Bolt	10	0S-1587
247-0236	1/2-13 x 2 in Hex Head Bolt	10	1A-1460
247-0237	1/2-13 x 2 1/4 in Hex Head Bolt	5	2B-0947
247-0238	1/2-13 x 2 1/2 in Hex Head Bolt	5	9S-1366
247-0239	1/2-13 x 2 3/4 in Hex Head Bolt	5	1A-5822
247-0240	1/2-13 x 3 in Hex Head Bolt	5	0L-1329
247-0241	1/2 in Hard Washer	25	5P-8245
247-0242	1/2 in Lock Washer	50	3B-4508
247-0243	1/2-13 Full Nut	25	1F-7958
247-0244	5/8-11 x 3/4 in Hex Head Bolt	10	1H-9456
247-0245	5/8-11 x 1 in Hex Head Bolt	10	0S-1624
247-0246	5/8-11 x 1 1/4 in Hex Head Bolt	10	0S-1592
247-0247	5/8-11 x 1 1/2 in Hex Head Bolt	5	0S-1566
247-0248	5/8-11 x 1 3/4 in Hex Head Bolt	5	0S-1589
247-0249	5/8-11 x 2 in Hex Head Bolt	5	1A-1135
247-0250	5/8-11 x 2 1/4 in Hex Head Bolt	5	8S-9092
247-0251	5/8-11 x 2 1/2 in Hex Head Bolt	5	0S-1625
247-0252	5/8-11 x 2 3/4 in Hex Head Bolt	5	1A-8537
247-0253	5/8-11 x 3 in Hex Head Bolt	5	1B-4367
247-0254	5/8 in Hard Washer	10	5P-8247
247-0255	5/8 in Lock Washer	25	3B-4510
247-0256	5/8-11 Full Nut	10	4K-0367
247-0583	M6 x 1, 12 mm	50	8T-0639
247-0584	M6 x 1, 16 mm	50	6V-8837
247-0585	M6 x 1, 20 mm	50	6V-8214

Hardware

RETAIL PACKAGE PART NO.	DESCRIPTION	CONSISTS OF: RETAIL PKG. QTY.	BULK PART NO.
247-0586	M6 x 1, 25 mm	50	6V-8490
247-0587	M6 x 1, 30 mm	25	8T-0640
247-0588	M6 x 1, 35 mm	50	6V-2315
247-0589	M6 x 1, 40 mm	25	2W-9499
247-0590	M6 x 1, 45 mm	25	6V-7728
247-0591	M6 x 1, 50 mm	25	8T-0275
247-0592	M6 Washer	50	9X-8267
247-0593	M6 x 1, Hex Nut	50	6V-8225
247-0594	M8 x 1.25, 16 mm	50	6V-5215
247-0595	M8 x 1.25, 20 mm	50	6V-5217
247-0596	M8 x 1.25, 25 mm	25	6V-3940
247-0597	M8 x 1.25, 30 mm	25	6V-2317
247-0598	M8 x 1.25, 35 mm	25	6V-5218
247-0599	M8 x 1.25, 40 mm	25	6V-5219
247-0600	M8 x 1.25, 45 mm	25	8T-0276
247-0601	M8 x 1.25, 50 mm	25	6V-3918
247-0602	M8 x 1.25, 60 mm	10	8T-0100
247-0603	M8 x 1.25, 70 mm	10	5P-8347
247-0604	M8 Washer	25	9M-1974
247-0605	M8 x 1.25, Hex Nut	50	5P-7970
247-0606	M10 x 1.5, 20 mm	25	6V-6317
247-0607	M10 x 1.5, 25 mm	25	6V-4248
247-0608	M10 x 1.5, 30 mm	25	6V-1820
247-0609	M10 x 1.5, 35 mm	25	6V-3822
247-0610	M10 x 1.5, 40 mm	10	6V-5842
247-0611	M10 x 1.5, 45 mm	10	6V-5843
247-0612	M10 x 1.5, 50 mm	10	6V-4249
247-0613	M10 x 1.5, 60 mm	10	6V-5230
247-0614	M10 x 1.5, 65 mm	10	8T-5035
247-0615	M10 x 1.5, 70 mm	10	6V-7981
247-0616	M10 Washer	25	6V-5839
247-0617	M10 x 1.50, Hex Nut	25	2Y-5829
247-0618	M12 x 1.75, 20 mm	10	8T-0293
247-0619	M12 x 1.75, 25 mm	25	6A-5591
247-0620	M12 x 1.75, 30 mm	10	6V-3668
247-0621	M12 x 1.75, 35 mm	10	6V-8675
247-0622	M12 x 1.75, 40 mm	10	6V-8197
247-0623	M12 x 1.75, 45 mm	10	6V-5684
247-0624	M12 x 1.75, 50 mm	10	6V-7673
247-0625	M12 x 1.75, 60 mm	5	6V-3823
247-0626	M12 Washer	25	5P-8245
247-0627	M12 x 1.75, Hex Nut	25	6V-8149
247-0698	Hose Clamp 54 mm - 105 mm	2	5P-0598
247-0699	Hose Clamp 60 mm - 82 mm	2	5P-4868
247-0700	Hose Clamp 45 mm - 67 mm	2	5P-0597

RETAIL PACKAGE PART NO.	DESCRIPTION	CONSISTS OF: RETAIL PKG. QTY.	BULK PART NO.
247-0701	Hose Clamp 16 mm - 27 mm	5	5D-1026
247-0702	Hose Clamp 6 mm - 16 mm	6	1P-4278
247-0703	Hose Clamp 108 mm - 130 mm	2	5P-1717
247-0717	Cotter Pin 1/8 in x 1 in Lg	50	3B-4617
247-0718	Cotter Pin 1/8 in x 3/4 in Lg	50	3B-4615
247-0719	Cotter Pin 3/32 in x 1/2 in Lg	50	3B-4607
247-0720	Cotter Pin 1/8 in x 2 in Lg	50	3B-4621
247-0721	Cotter Pin 1/8 in x 1 1/4 in Lg	50	3B-4618
247-0749	Fuse (10 Amp)	5	3K-8782
247-0750	Fuse (15 Amp)	5	8M-8948
247-0751	Fuse (20 Amp)	5	8M-0456
247-0752	Mini Fuse (10 Amp)	5	113-8490
247-0753	Mini Fuse (15 Amp)	5	113-8491
247-0754	Mini Fuse (20 Amp)	5	113-8492
247-0755	Mini Fuse (25 Amp)	5	113-8493
247-0762	Cable Strap 170.2 mm (6.7 in) long 4.9 mm (0.194 in) wide	20	3S-2093
247-0763	Cable Strap 355.6 mm (14 in) long 4.9 mm (0.194 in) wide	10	6K-0806
247-0764	Cable Strap 355.6 mm (14 in) long 7.9 mm (0.310 in) wide	10	7K-1181



Check-a-Thread

- Quickly identifies hardware thread diameter and pitch
- Four holes on mounting base for easy attachment to retail parts counter, service shop tool crib, or field service truck

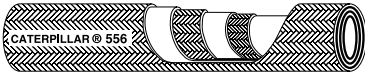
Dimensions (L x H x W)		609 mm (24 in) x 101 mm (4 in) x 76 mm (3 in)
Metric		
Media literature number		250-6866
Range		16 mm-2.0 to 4 mm-0.7
No. of bolt sizes		15
Inch		
Media literature number		250-6865
Range		3/4-16 to #6-32
No. of bolt sizes		21
Sheet metal/wood screw sizes		5

ONE SAFE SOURCE | 2006-2007



HOSE AND COUPLINGS

Hose and Couplings – Bulk Hoses



One-Wire Braid Hose – Fabric Covered (556)

- Exceeds the requirements of SAE 100R5. Note: Sold by the inch.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS ¹	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
9X-2362	0.188	4.8	-4	0.52	13.2	12,000	82738	3000	20685	3.00	76
9X-2363	0.250	6.4	-5	0.58	14.7	12,000	82738	3000	20685	3.39	86
9X-2364	0.313	7.9	-6	0.68	17.3	9000	62053	2250	15514	4.00	102
9X-2365	0.406	10.3	-8	0.77	19.6	8000	55159	2000	13790	4.61	117
9X-2366	0.500	12.7	-10	0.92	23.4	7000	48264	1750	12066	5.50	140
9X-2367	0.625	15.9	-12	1.08	27.4	6000	41369	1500	10343	6.50	165
9X-2368	0.875	22.2	-16	1.23	31.2	3200	22064	800	5516	7.36	187
9X-2369	1.125	28.6	-20	1.50	38.1	2500	17237	625	4310	9.00	229
9X-2370	1.375	34.9	-24	1.75	44.5	2000	13790	5000	3448	10.50	267

Construction: Synthetic rubber tube, textile inner braid, high tensile steel wire braid reinforcement, textile braid cover.

Application: Medium pressure service with petroleum base hydraulic fluids, water-glycol and water-oil fire resistant hydraulic fluids, water, crude and fuel oils, not oil, diesel fuels, anti-freeze solutions, air. D.O.T. FMVSS 106 All Air Brake Approved.

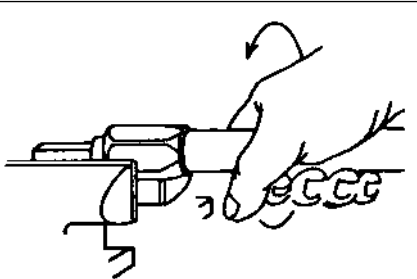
Temperature Range: -40° F to +158° F (-40° C to +70° C) for air and anti-freeze solutions. -40° F to +185° F (-40° C to +85° C) for water glycol and water-oil fire resistant hydraulic fluids, water, crude and fuel oils, hot oil, and diesel fuels. -20° F to +250° F (-29° C to +120° C) for all other applications. Usage at temperatures exceeding +200° F (+120° C) is based on reduced working pressure.

Couplings: Screw-type reusable, non-skive type, see Reusable Couplings (556, 1130) section. For related assembly equipment and tooling, see Tooling section.

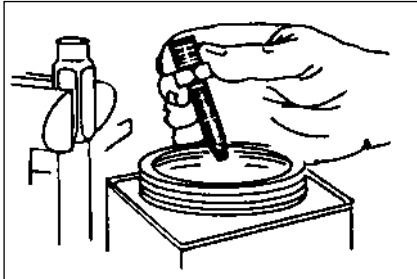
Note: Hose cover does not need to be removed before attaching couplings.

¹ Centerline of Hose

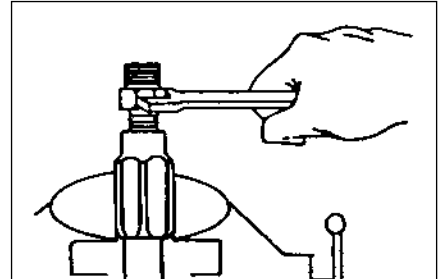
Assembly Instructions



Place socket in vise. Thread hose counterclockwise into socket until hose bottoms. Back off 1/2 turn.



Oil nipple threads and inside of hose with heavy oil. Caution: Do not oil hose cover.



Thread nipple clockwise into socket until nipple hex shoulders against socket.

Hose and Couplings – Bulk Hoses



Engine and Air Brake Hose (1130)

- Exceeds the requirements of SAE J1402. Note: Sold by the inch.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS ¹	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
9X-2371	0.188	4.8	-4	0.52	13.2	6000	41369	1500	10343	0.75	19
9X-2372	0.250	6.4	-5	0.58	14.7	6000	41369	1500	10343	1.00	25
9X-2373	0.313	7.9	-6	0.68	17.3	6000	41369	1500	10343	1.25	32
9X-2374	0.406	10.3	-8	0.77	19.6	5000	34474	1250	8619	1.75	44
9X-2375	0.500	12.7	-10	0.92	23.4	4000	27580	1000	6895	2.25	57
9X-2376	0.625	15.9	-12	1.08	27.4	3000	20685	750	5172	2.75	70
9X-2377	0.875	22.2	-16	1.23	31.2	1600	11032	400	2758	3.50	89
9X-2378	1.125	28.6	-20	1.50	38.1	1200	8274	300	2069	4.50	114
9X-2379	1.375	34.9	-24	1.75	44.5	1000	6895	250	1724	7.50	191

Construction: Synthetic rubber tube, textile inner braid, high tensile steel wire braid reinforcement, textile braid cover.

Application: Air, engine oil, water, lubricating oils, diesel fuel, petroleum base hydraulic oils D.O.T. FMVSS 106 All Air Brake approved. U.S. Coast Guard 46CFR56.60-25C approved.

Temperature Range: -40° F to +158° F (-40° C to +70° C) for air. -40° F to +185° F (-40° C to +85° C) for water based fluids.

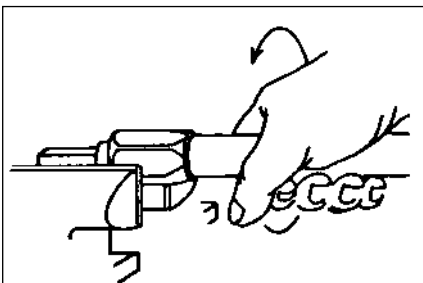
-40° F to +275° F (-40° C to +135° C) for all other applications.

Couplings: Screw-type reusable, non-skive type, see Reusable Couplings (556, 1130) section. For related assembly equipment and tooling, see Tooling section.

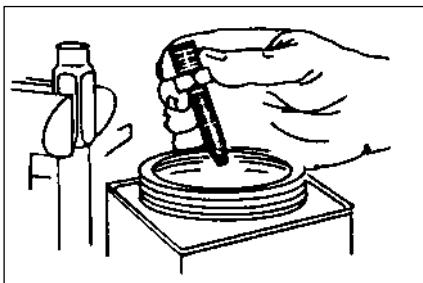
Note: Hose cover does not need to be removed before attaching couplings.

¹ Centerline of Hose

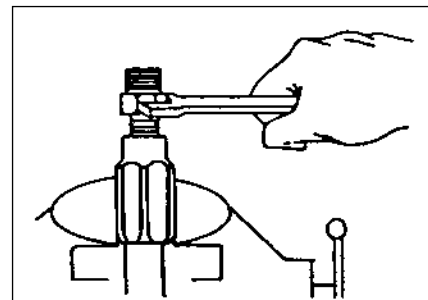
Assembly Instructions



Place socket in vise. Thread hose counterclockwise into socket until hose bottoms. Back off 1/2 turn.

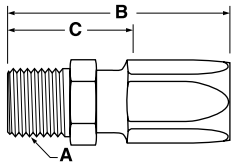


Oil nipple threads and inside of hose with heavy oil. Caution: Do not oil hose cover.



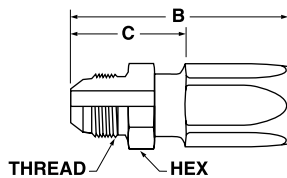
Thread nipple clockwise into socket until nipple hex shoulders against socket.

Hose and Couplings – Couplings



NPTF Male

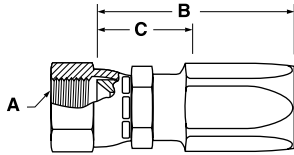
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)				(in)	(mm)	(in)	(mm)
1L-3664	0.188	4.8	-4	1/8 - 27	-2	1.69	43	0.94	24
1L-2287	0.188	4.8	-4	1/4 - 18	-4	1.85	47	1.10	28
9X-3807	0.250	6.4	-5	1/8 - 27	-2	1.77	45	0.98	25
9X-3808	0.250	6.4	-5	1/4 - 18	-4	1.97	50	1.18	30
9X-3809	0.313	7.9	-6	1/4 - 18	-4	2.13	54	1.22	31
9X-3810	0.313	7.9	-6	3/8 - 18	-6	2.13	54	1.22	31
1L-1699	0.406	10.3	-8	3/8 - 18	-6	2.48	63	1.34	34
9X-3812	0.406	10.3	-8	1/2 - 14	-8	2.72	69	1.57	40
9X-3813	0.500	12.7	-10	1/2 - 14	-8	2.87	73	1.57	40
9X-3814	0.500	12.7	-10	3/4 - 14	-12	2.95	75	1.65	42
9X-3815	0.625	15.9	-12	3/4 - 14	-12	3.23	82	1.65	42
9X-3816	0.875	22.2	-16	3/4 - 14	-12	2.80	71	1.54	39
1L-1480	0.875	22.2	-16	1 - 11 1/2	-16	2.99	76	1.73	44
3L-3870	1.125	28.6	-20	1 1/4 - 11 1/2	-20	3.23	82	1.89	48
1L-0767	1.375	34.9	-24	1 1/2 - 11 1/2	-24	3.46	88	2.05	52



JIC 37° Male

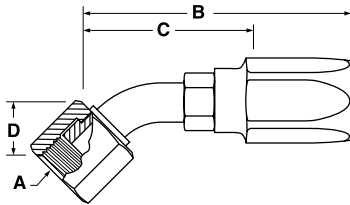
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)				(in)	(mm)	(in)	(mm)
068-0601	0.313	7.9	-6	9/16 - 18	-6	2.13	54	1.22	31
068-0554	0.406	10.3	-8	3/4 - 16	-8	2.60	66	1.42	36
9X-3947	0.875	22.2	-16	1 5/16 - 12	-16	2.95	75	1.77	45

Hose and Couplings – Couplings



JIC 37° Female Swivel

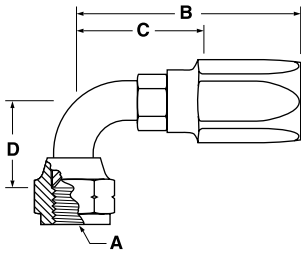
PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)
001-6285	0.188	4.8	-4	7/16 - 20	-4	1.61	41	0.98	25
9X-3821	0.250	6.4	-5	7/16 - 20	-4	1.73	44	0.94	24
053-2295	0.250	6.4	-5	1/2 - 20	-5	2.13	54	1.36	35
9X-3823	0.250	6.4	-5	9/16 - 18	-6	1.85	47	1.10	28
001-6286	0.313	7.9	-6	9/16 - 18	-6	1.97	50	1.06	27
001-6287	0.406	10.3	-8	3/4 - 16	-8	2.44	62	1.18	30
9X-3826	0.500	12.7	-10	3/4 - 16	-8	2.56	65	1.26	32
061-6746	0.500	12.7	-10	7/8 - 14	-10	2.60	66	1.30	33
9X-3957	0.500	12.7	-10	1 1/16 - 12	-12	2.56	65	1.34	34
5P-7759	0.625	15.9	-12	7/8 - 14	-10	2.87	73	1.50	38
001-6289	0.625	15.9	-12	1 1/16 - 12	-12	2.60	66	1.34	34
9X-3830	0.875	22.2	-16	1 5/16 - 12	-16	2.60	66	1.34	34
3L-9762	1.125	28.6	-20	1 5/8 - 12	-20	2.91	74	1.57	40
9X-3832	1.375	34.9	-24	1 7/8 - 12	-24	3.19	81	1.73	44



JIC 37° Female Swivel – 45° Elbow

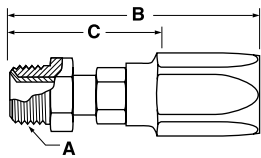
PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	D DROP (in)	D DROP (mm)
9X-3854	0.188	4.8	-4	7/16 - 20	-4	1.85	47	1.10	28	0.31	8
9X-3855	0.250	6.4	-5	1/2 - 20	-5	2.09	53	1.30	33	0.35	9
068-0599	0.313	7.9	-6	9/16 - 18	-6	2.24	57	1.38	35	0.39	10
9X-3857	0.313	7.9	-6	3/4 - 16	-8	2.68	68	1.73	44	0.55	14
068-2859	0.406	10.3	-8	3/4 - 16	-8	2.99	76	1.89	48	0.55	14
9X-3859	0.500	12.7	-10	7/8 - 14	-10	3.35	85	2.13	54	0.63	16
9X-3860	0.625	15.9	-12	1 1/16 - 12	-12	3.78	96	2.44	62	0.79	20
9X-3861	0.875	22.2	-16	1 5/16 - 12	-16	3.70	94	2.52	64	0.91	23

Hose and Couplings – Couplings



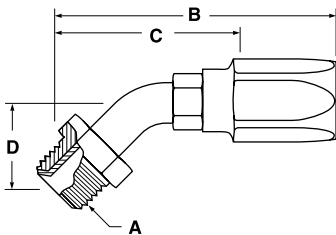
JIC 37° Female Swivel – 90° Elbow

PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	D DROP (in)	D DROP (mm)
9X-3870	0.188	4.8	-4	$\frac{7}{16}$ - 20	-4	1.73	44	0.98	25	1.81	46
068-0589	0.188	4.8	-4	$\frac{7}{16}$ - 20	-4	1.73	44	0.98	25	0.67	17
9X-3863	0.250	6.4	-5	$\frac{1}{2}$ - 20	-5	1.97	50	1.18	30	0.71	18
9X-3871	0.250	6.4	-5	$\frac{1}{2}$ - 20	-5	1.97	50	1.18	30	1.77	45
032-4872	0.313	7.9	-6	$\frac{9}{16}$ - 18	-6	2.13	54	1.22	31	2.17	55
068-0009	0.313	7.9	-6	$\frac{9}{16}$ - 18	-6	2.20	56	1.38	35	0.87	22
068-0556	0.406	10.3	-8	$\frac{3}{4}$ - 16	-8	2.83	72	1.77	45	1.10	28
111-7666	0.406	10.3	-8	$\frac{3}{4}$ - 16	-8	2.91	74	1.85	47	2.44	62
9X-3874	0.500	12.7	-10	$\frac{7}{8}$ - 14	-10	3.27	83	2.05	52	2.56	65
053-2141	0.500	12.7	-10	$\frac{7}{8}$ - 14	-10	3.19	81	1.97	50	1.22	31
9X-3867	0.625	15.9	-12	$1\frac{1}{16}$ - 12	-12	3.90	99	2.40	61	1.81	46
9X-3875	0.625	15.9	-12	$1\frac{1}{16}$ - 12	-12	3.78	96	2.28	58	3.74	95
9X-3868	0.875	22.2	-16	$1\frac{5}{16}$ - 12	-16	3.70	94	2.52	64	2.13	54
9X-3876	0.875	22.2	-16	$1\frac{5}{16}$ - 12	-16	3.54	90	2.36	60	4.33	110
9X-3869	1.125	28.6	-20	$1\frac{5}{8}$ - 12	-20	4.02	102	2.64	67	2.36	60



SAE 45° Inverted Flare Male Swivel

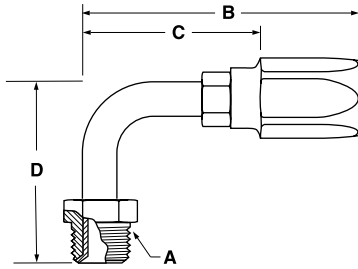
PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)
9X-3852	0.188	4.8	-4	$\frac{7}{16}$ - 24	-4	2.44	62	1.69	43
9X-3853	0.313	7.9	-6	$\frac{5}{8}$ - 18	-6	2.72	69	1.81	46
9X-3956	0.406	10.3	-8	$\frac{3}{4}$ - 18	-8	3.15	80	1.97	50



SAE Inverted Flare Male Swivel – 45° Elbow

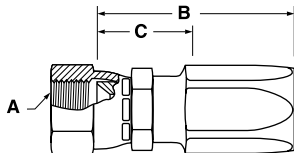
PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	D DROP (in)	D DROP (mm)
9X-3877	0.313	7.9	-6	$\frac{5}{8}$ - 18	-6	2.99	76	2.09	53	0.94	24

Hose and Couplings – Couplings



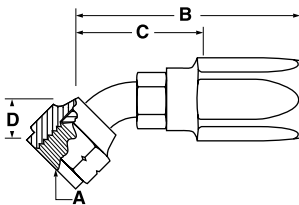
SAE Inverted Flare Male Swivel – 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)				(in)	(mm)	(in)	(mm)	(in)	(mm)
9X-3878	0.313	7.9	-6	5/8 - 18	-6	2.64	67	1.73	44	1.69	43



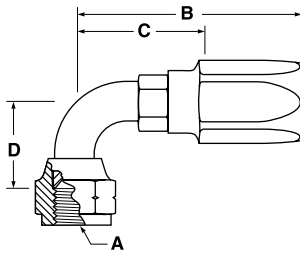
SAE 45° Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)				(in)	(mm)	(in)	(mm)
061-8863	0.313	7.9	-6	5/8 - 18	-6	2.01	51	1.10	28
053-1788	0.625	15.9	-12	1 1/16 - 14	-12	2.91	74	1.46	37



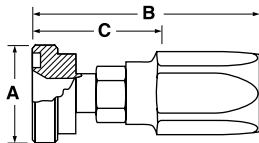
SAE 45° Female Swivel – 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)				(in)	(mm)	(in)	(mm)	(in)	(mm)
9X-3879	0.313	7.9	-6	5/8 - 18	-6	2.24	57	1.38	35	0.39	10



SAE 45° Female Swivel – 90° Elbow

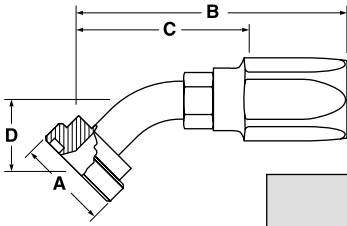
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)				(in)	(mm)	(in)	(mm)	(in)	(mm)
9X-3880	0.313	7.9	-6	5/8 - 18	-6	2.20	56	1.38	35	0.87	22



SAE Code 61 Flange

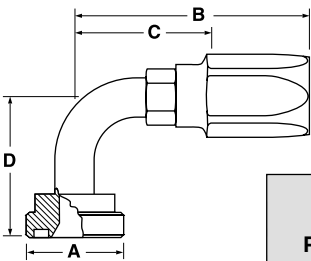
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
9X-3840	0.625	15.9	-12	1.50	38.1	-12	3.19	81	1.61	41	4J-5267
9X-3841	0.875	22.2	-16	1.75	44.5	-16	2.76	70	1.50	38	4J-0520
9X-3842	1.125	28.6	-20	2.00	50.8	-20	3.58	91	2.20	56	4J-0522
9X-3843	1.375	34.9	-24	2.37	60.3	-24	4.02	102	2.56	65	4J-0524

Hose and Couplings – Couplings



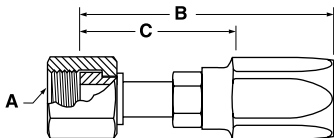
SAE Code 61 Flange – 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
9X-3844	0.625	15.9	-12	1.50	38.1	-12	4.02	102	2.52	64	0.98	25	4J-5267
9X-3845	0.875	22.2	-16	1.75	44.5	-16	3.74	95	2.56	65	1.06	27	4J-0520
9X-3846	1.125	28.6	-20	2.00	50.8	-20	4.09	104	2.83	72	1.14	29	4J-0522
9X-3847	1.375	34.9	-24	2.37	60.3	-24	4.37	111	2.99	76	1.14	29	4J-0524



SAE Code 61 Flange – 90° Elbow

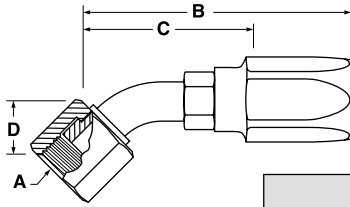
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
9X-3848	0.625	15.9	-12	1.50	38.1	-12	3.74	95	2.28	58	2.13	54	4J-5267
9X-3849	0.875	22.2	-16	1.75	44.5	-16	3.54	90	2.28	58	2.36	60	4J-0520
9X-3850	1.125	28.6	-20	2.00	50.8	-20	4.02	102	2.64	67	2.52	64	4J-0522
9X-3851	1.375	34.9	-24	2.37	60.3	-24	4.41	112	2.95	75	2.76	70	4J-0524



ORFS Female Swivel

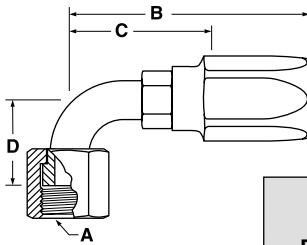
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)				(in)	(mm)	(in)	(mm)	
9X-3881	0.188	4.8	-4	$\frac{9}{16}$ - 18	-4	2.13	54	1.42	36	4J-5477
7X-1463	0.313	7.9	-6	$\frac{11}{16}$ - 16	-6	2.52	64	1.65	42	6V-8397
9X-3882	0.406	10.3	-8	$\frac{13}{16}$ - 16	-8	3.07	78	2.01	51	6V-8398
9X-3883	0.500	12.7	-10	1 - 14	-10	3.31	84	2.09	53	7J-9108
9X-3884	0.625	15.9	-12	$1\frac{1}{16}$ - 12	-12	3.74	95	2.24	57	6V-9746
9X-3885	0.875	22.2	-16	$1\frac{7}{16}$ - 12	-16	3.39	86	2.20	56	5K-9090

Hose and Couplings – Couplings



ORFS Female Swivel – 45° Elbow

PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	D DROP (in)	D DROP (mm)	O-RING SEAL
9X-3886	0.188	4.8	-4	9/16 - 18	-4	2.13	54	1.54	39	0.39	10	4J-5477
9X-3887	0.313	7.9	-6	1 1/16 - 16	-6	2.52	64	1.69	43	0.43	11	6V-8397
9X-3888	0.406	10.3	-8	1 3/16 - 16	-8	3.19	81	2.09	53	0.59	15	6V-8398
9X-3889	0.500	12.7	-10	1 - 14	-10	3.46	88	2.24	57	0.67	17	7J-9108
9X-3890	0.625	15.9	-12	1 3/16 - 12	-12	3.86	98	2.32	59	0.83	21	6V-9746
9X-3891	0.875	22.2	-16	1 7/16 - 12	-16	4.02	102	2.83	72	0.94	24	5K-9090



ORFS Female Swivel – 90° Elbow

PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A THREAD SIZE	A THREAD DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	D DROP (in)	D DROP (mm)	O-RING SEAL
9X-3892	0.188	4.8	-4	9/16 - 18	-4	1.97	50	1.54	39	0.79	20	4J-5477
9X-3898	0.188	4.8	-4	9/16 - 18	-4	1.97	50	1.73	44	1.81	46	4J-5477
9X-3893	0.313	7.9	-6	1 1/16 - 16	-6	2.40	61	1.54	39	0.91	23	6V-8397
9X-3899	0.313	7.9	-6	1 1/16 - 16	-6	2.48	63	1.65	42	2.13	54	6V-8397
9X-3894	0.406	10.3	-8	1 3/16 - 16	-8	2.91	74	1.81	46	1.14	29	6V-8398
9X-3900	0.406	10.3	-8	1 3/16 - 16	-8	2.95	75	1.89	48	2.52	64	6V-8398
9X-3895	0.500	12.7	-10	1 - 14	-10	3.15	80	1.93	49	1.26	32	7J-9108
9X-3901	0.500	12.7	-10	1 - 14	-10	3.27	83	2.05	52	2.76	70	7J-9108
9X-3896	0.625	15.9	-12	1 3/16 - 12	-12	3.74	95	2.24	57	1.89	48	6V-9746
9X-3902	0.625	15.9	-12	1 3/16 - 12	-12	3.78	96	2.28	58	3.78	96	6V-9746
9X-3897	0.875	22.2	-16	1 7/16 - 12	-16	3.98	101	2.76	70	2.20	56	5K-9090
9X-3903	0.875	22.2	-16	1 7/16 - 12	-16	3.54	90	2.36	60	4.49	114	5K-9090

Hose and Couplings – Specialty Hoses

CATERPILLAR® Heater Hose



Heater Hose (Standard)

- Meets the requirements of SAE J20R3. Note: Sold by the centimeter.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P-0767	0.625	15.9	-10	0.94	23.9	254	1750	63	437
5P-0765	0.750	19.0	-12	1.06	26.9	203	1400	51	350
8I-1362	1.000	25.4	-16	1.33	33.8	174	1200	44	300

CATERPILLAR® Heater Hose



Heater Hose (High Temperature)

- Meets the requirements of SAE 20R3 Silicone. Note: Sold by the centimeter.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
6V-8843	0.625	15.9	-10	0.90	22.8	254	1750	64	441
8T-9543	0.750	19.1	-12	1.06	27.0	203	1400	51	350

CATERPILLAR® Air Brake Hose



Air Brake Hose

- Meets the requirements of SAE J1402. Note: Sold by the centimeter.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P-0720	0.250	6.4	-4	0.63	15.9	914	6300	203	1400
5P-0721	0.375	9.5	-6	0.75	19.1	914	6300	203	1400
5P-1300	0.438	11.1	-7	0.81	20.6	914	6300	203	1400
5P-0722	0.500	12.7	-8	0.81	20.6	914	6300	203	1400

APPLICATION: Air only. Approved for use on vehicles by meeting D.O.T. FMVSS 106.

Hose and Couplings – Specialty Hoses

CATERPILLAR® Radiator Hose



Radiator Hose

- Meets the requirements of SAE J20R1. Note: Sold by the centimeter.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P-1251	1.000	25.4	-16	1.56	39.6	567	3910	142	980
5P-1252	1.125	28.6	-18	1.69	42.8	548	3780	137	945
5P-1253	1.250	31.8	-20	1.81	46.0	508	3500	127	875
5P-1254	1.313	33.3	-21	1.87	47.5	508	3500	127	875
5P-1255	1.375	34.9	-22	1.93	49.1	487	3360	122	840
5P-0763	1.500	38.1	-24	2.06	52.3	457	3150	114	784
5P-1256	1.625	41.3	-26	2.19	55.5	406	2800	102	700
5P-1257	1.750	44.5	-28	2.31	58.7	406	2800	102	700
5P-1258	1.875	47.6	-30	2.43	61.8	365	2520	91	630
5P-1259	2.000	50.8	-32	2.56	65.0	355	2450	89	616
5P-1260	2.250	57.2	-36	2.81	71.4	355	2450	89	616
5P-1261	2.375	60.3	-38	2.93	74.5	325	2240	81	560
5P-1262	2.500	63.5	-40	3.06	77.7	305	2100	76	525
5P-1263	2.750	69.9	-44	3.31	84.1	244	1680	61	420
5P-1264	2.875	73	-46	3.43	87.2	244	1680	61	420
5P-1265	3.000	76.2	-48	3.56	90.4	244	1680	61	420
5P-1266	3.250	82.6	-52	3.81	96.8	203	1400	51	350
5P-0764	3.500	88.9	-56	4.06	103.1	203	1400	51	350
5P-1267	3.750	95.3	-60	4.31	109.5	162	1120	41	280
5P-1268	4.000	101.6	-64	4.56	115.8	152	1050	39	266
7X-7895	4.250	108	-68	4.81	122.2	122	840	30	210
5P-1269	4.500	114.3	-72	5.06	128.5	122	840	30	210
5P-1270	5.000	127	-80	5.56	141.2	102	700	25	175

Hose and Couplings – Specialty Hoses

CATERPILLAR® Hydraulic Return Hose



Hydraulic Return Hose (661)

- **Note:** Sold by the centimeter.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P-2094	1.000	25.4	-16	1.62	41.1	841	5800	210	1450
8C-7304	1.125	28.6	-18	1.74	44.2	841	5800	210	1450
5P-6412	1.250	31.8	-20	1.88	47.7	841	5800	210	1450
5P-1291	1.500	38.1	-24	2.12	53.8	841	5800	210	1450
5P-1292	1.750	44.5	-28	2.38	60.4	783	5400	196	1350
5P-1293	2.000	50.8	-32	2.56	65.0	783	5400	196	1350
5P-1294	2.250	57.2	-36	2.87	72.9	609	4200	152	1050
5P-1295	2.500	63.5	-40	3.12	79.2	609	4200	152	1050
7X-7893	3.000	76.2	-48	3.62	91.9	609	4200	152	1050
7X-7894	3.250	82.6	-52	3.88	98.5	609	4200	152	1050
5P-1296	3.500	88.9	-56	4.12	104.6	609	4200	152	1050
8T-2917	4.000	101.6	-64	4.70	119.4	406	2800	102	700

APPLICATION: Low temperature, straight connections where band clamps are required.

Hose and Couplings – Hump Hoses & Clamps



ATAAC Engine — Hump Hoses & Clamps

ATAAC Hump Hose — Features & Benefits

- Custom made to fit your Cat Engine Application
- Specifically designed for high ATAAC temperatures 392° F (200° C) & high air pressures 300 kPa.
- 5 plies of silicone coating for resistance to high temperatures.
- Constant tension clamps provide superior clamping.

ATAAC Hump Hose — Straight

ATAAC HUMP HOSE- STRAIGHT PART #	HOSE ID INTERNAL DIMENSION (in)	(mm)	RECOMMENDED CONSTANT TENSION CLAMP WITH LINER PART #	CLAMP EFFECTIVE DIAMETER (in)	(mm)
7E-8630	4	101.6	9X-2201	4.6-3.7	118-95
177-0581	3	76.2	144-0367	3.6-2.8	92-70
109-5352	2.5	63.2	8T-4984	3.1-2.2	79-57

ATAAC Hump Hose — Reducer

ATAAC HUMP HOSE- REDUCER PART #	1ST HOSE REDUCER ID INTERNAL DIMENSION (in)	(mm)	2ND HOSE REDUCER ID INTERNAL DIMENSION (in)	(mm)	RECOMMENDED CONSTANT TENSION CLAMP WITH LINER PART #	1ST ID (in)	(mm)	CLAMP EFFECTIVE DIAMETER (in)	2ND ID (mm)
7E-8629	4	101.6	3	76.2	9X-2201	4.6-3.7	118-95	3.6-2.8	92-70
211-9060	3.5	88.9	3	76.2	8T-4985	4.1-3.3	105-83	3.6-2.8	92-70
159-2829	3	76.2	2.5	63.5	144-0367	3.6-2.8	92-70	3.1-2.2	79-57

For each ATAAC connection you will use 4 clamps and 1 Hump Hose.

Hose and Couplings – Hump Hoses & Clamps

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OPERATOR CONVENIENCES

Operator Conveniences



Signals

ITEM	SIZE		PART NUMBER
	(in)	(mm)	
Beacon			6T-8941
Reflector (Red)	3 5/8 x 4 1/2	92 x 114	7L-6363
Turn Signal Flasher			108-0358



Alarms

ITEM	VOLTAGE	PART NUMBER
Back-up Alarm	12 or 24	3T-1815
Excavator Travel Alarm		9P-1813
Low Air Pressure Alarm (Off-Highway Trucks)	12	8M-0479
Low Air Pressure Alarm (Off-Highway Trucks)	24	9M-8067
Low Air Pressure Alarm (Articulated Trucks, Wheel Loaders, Wheel Tractors)	24	7K-8924



Horns

ITEM	VOLTAGE	PART NUMBER
Air Horn		5D-6998
Forward Warning Horn (Low Tone)	12	7T-0635
Forward Warning Horn (Low Tone)	24	7T-0969
Forward Warning Horn (High Tone)	12	109-4575
Forward Warning Horn (High Tone)	24	7T-0970



Mud Flaps

- Reduces water spray.

ITEM	MODEL	SIZE		PART NUMBER
		(in)	(mm)	
Cat Diesel Power Mud Flap (Black With Yellow Lettering)	613, 613B, 613C	24 x 33.5	609 x 846	9J-9125
Cat Diesel Power Mud Flap (Black With Yellow Lettering)	615, 615C	30 x 40.5	762 x 1028	9J-7485
Cat Mud Flap (Black With Yellow Lettering)	On-Highway Trucks	12 x 18	304 x 457	9U-7309
Cat Mud Flap (Black With Yellow Lettering)	On-Highway Trucks	20 x 14	508 x 353	9U-7310
Cat Diesel Power Mud Flap (White With Black Lettering)	On-Highway Trucks	24 x 14	610 x 355	7X-2983
Cat Diesel Power Mud Flap (White With Black Lettering)	On-Highway Trucks	24 x 36	610 x 914	7X-2984
Cat Diesel Power Mud Flap (Black With Yellow Lettering)	On-Highway Trucks	24 x 14	610 x 355	7X-2982
Cat Diesel Power Mud Flap (Black With Yellow Lettering)	On-Highway Trucks	24 x 30	610 x 762	154-6564
Cat Diesel Power Mud Flap (Black With Yellow Lettering)	On-Highway Trucks	24 x 36	610 x 914	7X-2986
Spray Guard Rain Flap Skirt	On-Highway Trucks	6 x 48	152 x 1219	6V-3352
Black Rubber Fiber Mud Flap	Pickups, Campers, Trailers, Vans	24 x 14	610 x 355	5P-0774
Black Rubber Fiber Mud Flap	631B, 631C	24 x 14	610 x 355	7J-6214
Black Rubber Fiber Mud Flap	988B, 988F, 988G	24 x 14	610 x 355	8J-2962
Black Rubber Fiber Mud Flap	785, 785B, 785C, 789C, 793B, 793C	24 x 23.5	612 x 600	105-4727
Black Rubber Fiber Mud Flap	Large On-Highway Trucks	24 x 36	610 x 914	2P-8549
Black Rubber Fiber Mud Flap	777, 777B, 777C, 777D	38 x 48	965 x 1220	6G-3361
Black Rubber Fiber Mud Flap	777, 777B, 777C, 777D, 785C	48 x 12	1225 x 300	8W-6062
Black Rubber Fiber Mud Flap	785, 785C	49 x 13	1250 x 330	5T-5987
Black Rubber Fiber Mud Flap	785, 785C	49 x 34.5	1250 x 872	5T-5986
Black Rubber Fiber Mud Flap	797	58.5 x 39.5	1490 x 1000	153-7963
Black Rubber Fiber Mud Flap	785, 785C, 789, 789C	60 x 18	1524 x 453	5T-5988
Black Rubber Fiber Mud Flap	785, 785C, 789, 789C	60 x 39.5	1524 x 1003	5T-5989
Black Rubber Fiber Mud Flap	793B, 793C	67 x 10	1700 x 250	8X-5064
Black Rubber Fiber Mud Flap	789, 789C, 793B, 793C, 797	70.5 x 20.5	1790 x 520	5T-7275
Black Rubber Fiber Mud Flap	793B, 793C	70.5 x 23.5	1790 x 600	8X-5063
Black Rubber Fiber Mud Flap	789, 789C, 793B, 793C, 797	70.5 x 39.5	1790 x 1000	5T-7274
White Anti-Sail Mud Flap	Pickups, Campers, Trailers, Vans	24 x 14	610 x 355	7X-2983
White Anti-Sail Mud Flap	Large On-Highway Trucks	24 x 36	610 x 914	7X-2984

Operator Conveniences



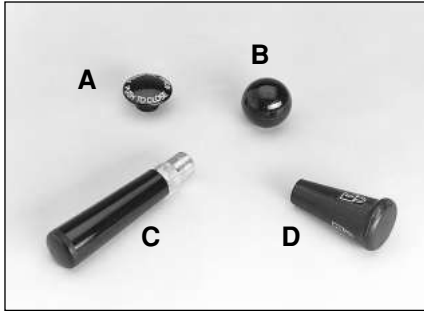
Windshield Wipers

ITEM	VOLTAGE	WIPE ANGLE	LENGTH (in)	LENGTH (mm)	PART NUMBER
Windshield Wiper Blade			10.24	260	6V-8255**
Windshield Wiper Blade			12.90	330	123-4355**
Windshield Wiper Blade			12.9	330	128-5040**
Windshield Wiper Blade			13.78	350	6V-5849**
Windshield Wiper Blade			15.75	400	6V-5851**
Windshield Wiper Blade			17.72	450	6V-5853**
Windshield Wiper Blade			17.70	450	4I-6839**
Windshield Wiper Blade			19.68	500	5C-8811**
Windshield Wiper Blade			19.68	500	161-7524****
Windshield Wiper Blade			19.80	503	6V-6543***
Windshield Wiper Blade			20.00	508	8T-6450
Windshield Wiper Blade (No Blade Holder)			22.00	559	2V-2248
Windshield Wiper Blade			22.00	560	6W-3924**
Windshield Wiper Blade			22.00	560	6C-8434**
Windshield Wiper Blade			23.62	600	5C-8813**
Windshield Wiper Blade			23.62	600	6V-6864***
Windshield Wiper Blade			27.56	700	6V-7419***
Windshield Wiper Blade (No Blade Holder)			8.00	203	4K-0353
Windshield Wiper Blade			9.00	229	5P-5376*
Windshield Wiper Blade			10.00	254	5P-5345*
Windshield Wiper Blade			11.00	279	5P-5377*
Windshield Wiper Blade			12.00	305	5P-5378*
Windshield Wiper Blade			14.00	356	9D-1242*
Windshield Wiper Blade (No Blade Holder)			16.00	406	8K-6289
Windshield Wiper Blade (No Blade Holder)			18.00	457	4K-1077
Windshield Wiper Blade (No Blade Holder)			20.00	508	5K-1028
Windshield Wiper Group	12	55°	1.00	25	7T-1033
Windshield Wiper Group	12	68°	1.00	25	7T-1032
Windshield Wiper Group	24	55°	1.00	25	6T-7293
Windshield Wiper Group	24	55°	3.00	76	6T-7249
Windshield Wiper Group	24	68°	1.00	25	6T-7295
Windshield Wiper Group	24	68°	2.00	51	6T-7296
Windshield Wiper Group	24	85°	1.00	25	6T-7297
Windshield Wiper Group	24	85°	2.00	51	6T-7299
Windshield Wiper Group	24	93°	2.00	51	6T-7300
Windshield Wiper Group	24	108°	1.00	25	6T-7301
Windshield Wiper Group	24	108°	2.00	51	6T-7302

* Wiper Arm included

Wiper Blades may be adaptable to on-highway trucks

** Hook Type Arm – *** Saddle Type Arm – **** Screw Type Arm



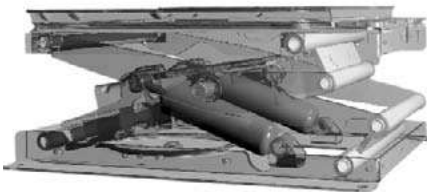
Control Knobs

ITEM	SHAPE	THREAD SIZE (in - TPI)	THREAD SIZE (dia x pitch)	HEIGHT (in)	HEIGHT (mm)	PART NUMBER
Spinner Knob	—	—	—	2.12	54	2K-9096
Brake Control Knob	A	1/4-28		1.00	25	9K-6765
Choke Knob	A	1/4-28		0.81	21	1H-4936
Choke Knob	A	1/4-28		0.88	22	5H-2624
Choke Knob	A	1/4-28		1.00	25	6P-0863
Choke Knob	A	1/4-20		1.00	25	6P-0863
Choke Knob	A	1/4-28		1.77	45	3P-4570
Choke Knob	A	1/4-20		1.77	45	3P-4570
Fuel Knob	A	1/4-28		0.81	21	4K-4597
Fuel Knob	A	1/4-28		0.88	22	1S-1310
Temperature Control Knob	A		6.4	0.63	16	1P-6509
Temperature Control Knob	A		6.4	0.75	19	2V-0099
Throttle Knob	A	1/4-28		0.81	21	1H-4937
Throttle Knob	A	1/4-28		0.88	22	5H-2625
Brake Control	A		9.0	1.17	30	9C-3408
Gearshift Knob	A	3/8-24		1.56	40	0L-1170
Gearshift Knob	B	3/8-24		1.50	38	6D-0679
Ball Knob	B		M12 x 1.75	1.30	33	8T-3984
Gearshift Knob	B	1/2-20		1.88	48	2A-1736
Ball Knob	B		M16 x 2.00	1.57	40	8T-9000
Gearshift Knob	C	3/8-24		2.50	64	7M-0706
Gearshift Knob	C		9.8	3.80	97	4N-4523
Control Knob	C	7/16-20		4.87	124	1K-2880
Control Knob	C	1/2-20		4.87	124	0L-0829
Safety Knob	D	3/8-16		3.00	71	2M-8908

Operator Conveniences

Caterpillar Comfort Seat - Toggle Link Air Suspension Retrofits

The new Cat Comfort Seat and Toggle Link Air Suspension can be installed in place of older Cat Corporate, Contour or the Isringhausen (ISRI) seat. Comfort Seat retrofits are available for Off-Highway Trucks, Large Track-type Tractors, Wheel Dozers and Wheel Loaders. Comfort Seat retrofits for Excavators or Motor Grader product lines are not available at this time. Currently, retrofits are only available for models listed (by serial number prefix) in the model matrix.



- For models manufactured from 1990 on, with Cat Corporate and Contour Series Seats, mounting dimensions are identical and space requirements are very close to those required for the new Comfort Seat.
- For non-current or older models: Consult SIS for additional information necessary in order to determine if a Comfort Seat retrofit is possible.
- Machines that currently have a mechanical suspension can be upgraded to the Air Suspension. This may require an additional electrical harness on some models (to connect to the air compressor power). Consult SIS and D&A manual for additional information.
- Seat Belts and Adjustable Seat Cushion Angle are included with all Comfort Seat Part Numbers.
- Options not included with the Comfort Seat/Suspension retrofit Part Number are:
 - o The Ride Zone Indicator [Part # 213-5170 kit] is an option. It comes with a suspension that has an adjustable shock. It can be ordered separately and is easy to install. The operator-controlled Ride Zone Indicator is included with the Comfort Seat retrofit Part number on Off-Highway Truck Models only.
 - o The Dual Shock [Part # 192-7848 kit], for more demanding applications, can be ordered separately and is easy to install. See D&A Manual for details. The Single Shock is standard.
 - o Adjustable Shock Damper Kit [Part # 212-7779] (Note: Included with OHT models)
 - o Heavy Duty Air Compressor [Part # 214-0783]

Operator Conveniences

Caterpillar Comfort Seat - Off-Highway Trucks

Models and Serial # Prefix covered by this Matrix:

793C Serial # prefix 4GX-ATY-CBR-4AR ● 793B Serial # prefix 1HL ● 777D Serial # prefix 2YW-3PR-AGC-AGY

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
200-3172	Air	Yes	Yes Short For 793 C & 777D No Left Arm Rest for 793B	Yes Short Adjustable	Gray/Black Fabric Textured "Slip Resistant"	(4) 4L-9337 bolt (All) (4) 5S-7379 Bolt (All) (8) 5P-1075 Washer (All)*
145-2894 Trainer Seat 793B & 793C Only	Air	Yes	No Not Included	No Not Included	Gray/Black Fabric Textured "Slip Resistant"	(4) 4L-9337Bolt (All) (4) 5S-7379 Bolt (793C only) (4) 0L-1351 Bolt (793B Only) (8) 5P-1075 Washer (All)
180-7310 For 793B Only	Mechanical	Yes	No Not Included	Yes Short Adjustable	Gray/Black Fabric Textured "Slip Resistant"	(4) 4L-9337 Bolt (4) 5S-7379 Bolt (8) 5P-1075 Washer*

NOTES:

* OHT Models with Isringhausen(ISRI seats will need (1) 144-4125 Support.

- The Ride Zone indicator (with adjustable shock) option is included with the Comfort Seat part number for Off-Highway Truck models only.
- Options not included with the Comfort seat number are: the Dual Shock (Part#192-7848 Kit), which can be ordered separately and is easy to install. Single Shock is standard.

Caterpillar Comfort Seat - Wheel Dozers

Models and Serial # Prefix covered by this Matrix:

824G Serial # Prefix 4SN/AWW

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
191-2996	Air	No	Yes Wide	Yes Controls *	Gray/Black Fabric-Textured "Slip resistant"	(4) 6V-7731 Bolt (4) 8T-4121 Washer
219-8092	Air	No	Yes Wide	Yes Controls*	Black Leather Grain Vinyl	(4) 6V-7731 Bolt (4) 8T-4121 Washer

***Note:** On the 824G you will need to remove the Seat Controls from the Old Seat. The Comfort Seat Part Number includes a Bracket to install the controls from the Old Seat.

Operator Conveniences

Caterpillar Comfort Seat - Wheel Dozers (cont.)

Models and Serial # Prefix covered by this Matrix:
824C Serial # Prefix 85X/64G

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8096	Air	No	Yes Short	Yes Short	Gray/Black Fabric-Textured "Slip Resistant"	(4) 6V-7731 Bolt (4) 8T-4121 Washer

Models and Serial # Prefix covered by this Matrix:
834B Serial# Prefix 7BR/92Z

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
200-3174	Air	No	No Not Included	No Not Included	Gray/Black Fabric-Textured "Slip Resistant"	(4) 8T-9056 Bolt (4) 8T-4806 Washer

Models and Serial # Prefix covered by this Matrix:
844 Serial # Prefix BNN • 854G Serial # Prefix 1JW/AMP

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8090	Air	No	No Not Included	No Not Included	Gray/Black Fabric-Textured "Slip Resistant"	(4) 168-4510 (for 844 & 854G # AMP) (4) 8T-0722 Bolt (for 854G # 1JW) (4) 8T-4121 Washer (All)

Operator Conveniences

Caterpillar Comfort Seat - Wheel Loaders

Models and Serial # Prefix covered by this Matrix:

966F II Serial # Prefix 1SL/4YG/3FK/3XJ/7HL/8BG/9YJ ● 970F Serial # Prefix 7SK ● 980F Serial # Prefix 8CJ

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8096	Air	No	Yes Short	Yes Short	Gray/Black Fabric-Textured "Slip Resistant"	(4) 8T-9056 Bolt (For 980F) (4) 9X-2125 Bolt (for 966F II & 970F) (4) 8T-4806 Washer (All)

Models and Serial # Prefix covered by this Matrix:

980G Serial # Prefix AXG/AWH

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8094	Air	No	Yes Wide	Yes Controls*	Gray/Black Fabric-Textured "Slip Resistant"	(2) 209-3750 Bolt (2) 7X-2545 Washer

Models and Serial # Prefix covered by this Matrix:

980G Serial # Prefix 2SR/9CM/2KR

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
191-2996	Air	No	Yes Wide	Yes Controls*	Gray/Black Fabric-Textured "Slip Resistant"	(4) 6V-7731 Bolt (4) 8T-4121 Washer

***Note:** On 980G loaders you will need to remove seat controls from the old seat. The Comfort Seat part number includes a bracket to install the controls from the old seat.

Operator Conveniences

Caterpillar Comfort Seat - Wheel Loaders (cont.)

Models and Serial # Prefix covered by this Matrix:
988B Serial # Prefix 50W

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8091	Air	No	Yes Wide	No Not Included*	Gray/Black Fabric-Textured "Slip Resistant"	(4) 5K-9107 bolt (4) 5P-1075 Washer

Models and Serial # Prefix covered by this Matrix:
988F II Serial # Prefix 2ZR/8YG ● 988G Serial # Prefix 2TW/BNH

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
200-3174	Air	No	No Not Included	No Not Included*	Gray/Black Fabric-Textured "Slip Resistant"	(4) 8T-9056 Bolt (for 988F II) (2) 168-4510 Bolt (for 988G) (4) 8T-4896 Washer (for 988F II) (4) 8T-4121 Washer (for 988G)

Models and Serial # Prefix covered by this Matrix:
990 II Serial # Prefix BCR/4FR ● 992C Serial # Prefix 49Z ● 992G Serial # Prefix 7HR/ADZ

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
219-8090	Air	No	No Not Included	No Not Included*	Gray/Black Fabric-Textured "Slip Resistant"	(4) 8T-9056 Bolt (for 992C) (2) 168-4510 Bolt (for 990 II & 992G) (4) 8T-4896 Washer (for 992C) (4) 8T-4121 Washer (for 990 II & 992G)

*Note: The Comfort Seat Part number applies to machines with floor-mounted controls only. No Comfort Seat retrofit is currently available for 988B, 988F II, 988G, 990 II, 992C, and 992G Wheel Loaders with seat-mounted controls.

Operator Conveniences

Caterpillar Comfort Seat - Large Track-Type Tractors

All Large Track Type Tractors (1990-Current—D8/D9/D10/D11) have the same 5 Comfort Seat options Available.

Models and Serial # Prefix covered by this Matrix:

D11N Serial # 4HK & 74Z ● D11R Serial # 8ZR/9XR/9TR/AAF/7PZ ● D10N Serial # 2YD & 3SK

● D10R Serial # 3KR & AKT ● D9N Serial # 1JD & 6XJ ● D9R Serial # 8BL/7TL/JJB/ACL/ABK

● D8N Serial # 9TC/7TK/5TJ/1XJ ● D8R Serial # 9EM/7XM/6YZ/AKA

COMFORT SEAT PART NUMBER	SUSPENSION TYPE	ADJUSTABLE SHOCK DAMPER	LEFT ARMREST	RIGHT ARMREST	SEAT MATERIAL	ADDITIONAL HARDWARE NEEDED FOR INSTALLATION
159-2950	Mechanical	No	No Not Included	No Not Included	Black Leather Grain Vinyl	(4) 5M-3062 Bolt (All) (4) 5P-1075 Washer (for D11N/D11R/D10R) (4) 8T-4896 Washer (for D10N/D9N/D9R/D8N/D8R)
159-2951	Mechanical	No	No Not Included	No Not Included	Brown Tweed Fabric-Smooth	(4) 5M-3062 Bolt (All) (4) 5P-1075 Washer (for D11N/D11R/D10R) (4) 8T-4896 Washer (for D10N/D9N/D9R/D8N/D8R)
160-7186	Mechanical	No	No Not Included	No Not Included	Gray/Black Fabric-Textured "Slip Resistant"	(4) 5M-3062 Bolt (for D11N/D11R/D10N/D9N/D8N) (4) 5P-8167 Bolt (for D10R) (4) 9X-2125 Bolt (for D8R/D9R) (4) 8T-4896 Washer (for D11N/D9N/D8N) (4) 5P-1075 Washer (for D11R/D10R/D10N) (4) 7X-7729 Washer (for D8R/D9R)
200-3174	Air	No	No Not Included	No Not Included	Gray/Black Fabric-Textured "Slip Resistant"	(4) 5M-3062 Bolt (for D11N/D10N/D9N/D8N) (4) 5P-8167 Bolt (for D11R/D10R) (4) 9X-2125 Bolt (for D8R/D9R) (4) 8T-4896 Washer (for D11N/D10N/D9N/D8N) (4) 5P-1075 Washer (for D11R/D10R/D10N) (4) 7X-7729 Washer (for D8R/D9R)
220-8634	Air	No	No	No Not Included	Brown Tweed Fabric-Smooth	(4) 5M-3062 Bolt (for D11N/D10N/D9N/D8N) (4) 5P-8167 Bolt (for D11R/D10R) (4) 9X-2125 Bolt (for D8R/D9R) (4) 8T-4896 Washer (for D11N/D9N/D8N) (4) 5P-1075 Washer (for D11R/D10R/D10N) (4) 7X-7729 Washer (for D8R/D9R)

Operator Conveniences



Radios

Surviving the abuse of severe on and off-road use is a tough environment for a radio. The new Cat radio line can stand up to vibration and shock and keep on working. Cat radios can also withstand -40° to 185° F (-40° to 85° C) temperatures. They are available in: AM/FM stereo, AM/FM stereo cassette, and AM/FM stereo CD versions. All have Weather Band capability and worldwide frequency tuning capability.

ITEM	PART NUMBER	SATELLITE COMPATIBLE	ELECTRONIC TUNING WITH MEMORY PRESETS	SEEK & SCAN TUNING	ALARM / ANTITHEFT	ELECTRONIC BASE/TREBLE/BALANCE/FADE	LONG LIFE LED BACKLIGHTING	QUARTZ CLOCK	FIXED DIN MOUNTING	WORLDWIDE FREQUENCY CAPABILITY	NOAA 7 CHANNEL WEATHER BAND	POWER OUTPUT
Radio - Basic AM/FM	200-5729*		●	●		●	●	●	●	●	●	4X17W
Radio - Basic AM/FM Cassette	169-6324*	●	●	●		●	●	●	●	●	●	4X17W
Radio - Basic AM/FM CD	241-4936*	●	●	●		●	●	●	●	●	●	4X17W
Radio - Deluxe AM/FM Cassette	169-6325*	●	●	●	●	●	●	●	●	●	●	4X17W
Radio - Deluxe AM/FM CD	169-6326*	●	●	●	●	●	●	●	●	●	●	4X17W
Satellite kit - XM	200-5732**											
Satellite kit - SIRIUS	200-5733**											
24V - 12V Converter 5/7 A	205-4285											
24V - 12V Converter 10/15 A	209-0381											
24V - 12V Converter 15/25 A	239-3902											

* Some Cat machines are Radio Ready from the factory and have a designated location for the radio. A Radio Ready machine has all the components installed and wired for a radio system – speakers, antenna, coax cable, radio harness, and 24V to 12V converter. To complete the radio installation three components are needed: a radio (one of five choices above), a 200-5728 radio harness, and a bushing (20 mm 4E-1411 or 28 mm 241-4939). The bushing mounts on a stud on the rear of the radio.

** A satellite compatible radio is needed with the satellite kit to complete the installation. The satellite kit includes: an XM or Sirius satellite tuner, an antenna and coax, satellite harness, and install instructions.

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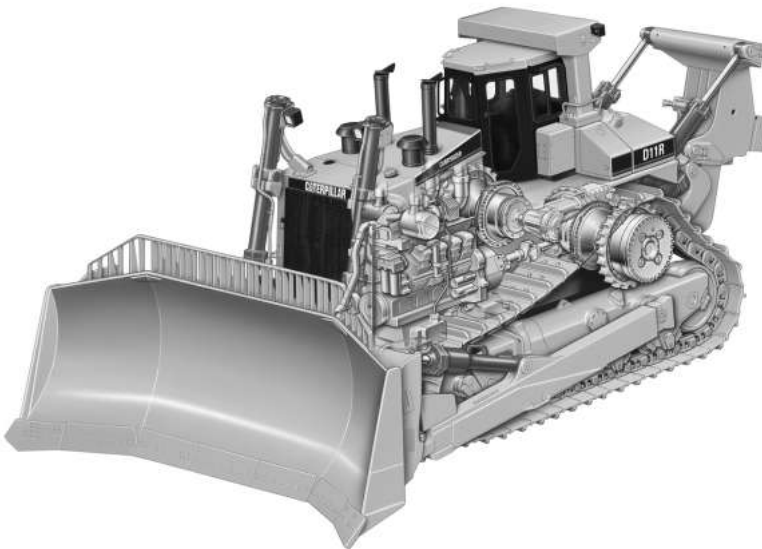


REMANUFACTURED PRODUCTS

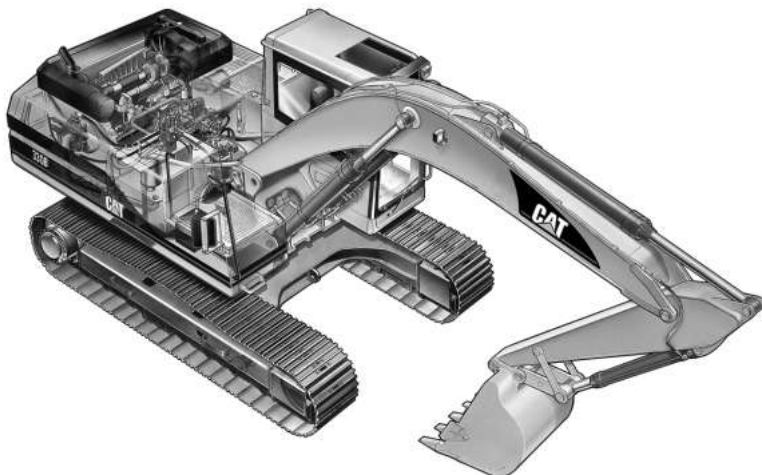
Remanufactured Products



Caterpillar remanufactured products are backed by Caterpillar's commitment to quality and performance. Our comprehensive coverage gets you back to work quickly. Plus, Cat Reman products are value priced at a fraction of new while backed by a same-as-new warranty. Products are ready to install right now, so you can minimize downtime and maintain the productivity of your Cat machine or engine.



Cat Reman



**Save Time.
Save Money.
Save the Environment.**

Earthmoving



Agricultural Tractors

- Engine Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Transmissions
- CCM (Chassis Control Modules)



Articulated Trucks

- Hydraulic Pumps, Motors & Parts
- Transmissions
- Hydraulic Cylinders and Rods
- Engine Components



Backhoe Loaders

- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Engine and Engine Components



Excavator

- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Engine Components



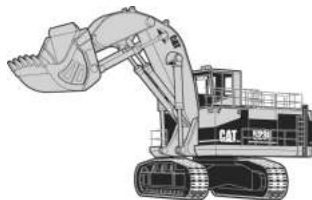
Forestry Machines

- Clutch Plates
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinder and Rods
- Final Drive Spindlers
- Engine Components

Coverages shown are typical. Please see your dealer for specific applications.

Remanufactured Products

Earthmoving



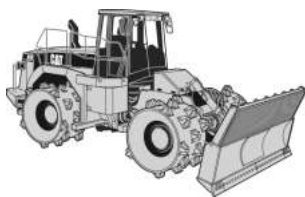
Front Shovel Excavators

- Engine and Engine Components
- Final Drive Spindles
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods



Integrated Toolcarriers

- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Engine Components



Landfill Compactors

- Brake Shoes
- Clutch Plate
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Torque Converters
- Wheel Assemblies
- Engine Components

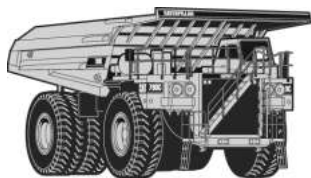


Motor Graders

- Brake Shoes
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Transmissions
- Engine Components
- Clutch Plates
- Torque Converters

Coverages shown are typical. Please see your dealer for specific applications.

Earthmoving



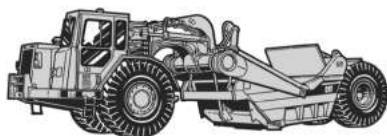
Off Highway Trucks

- Brake Shoes
- Clutch Plates
- Final Drive and Components
- Axle Housings
- Reaction Hubs
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Torque Converters
- Transmissions
- Engine and Engine Components
- Wheel Assemblies
- Brake Groups
- Front Suspension



Pipelayers

- Clutch Plates
- Hydraulic Pumps, Motors and Parts
- Engine Components



Scrapers

- Brake Shoes
- Clutch Plates
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Transmissions
- Engine Components

Coverages shown are typical. Please see your dealer for specific applications.

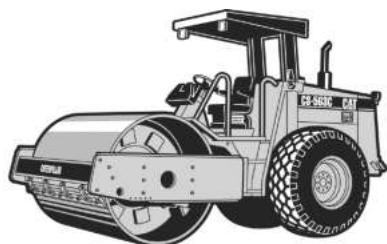
Remanufactured Products

Earthmoving



Skid Steer Loaders

- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods



Soil Compactors

- Brake Shoes
- Clutch Plates
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Engine Components



Telehandlers

- Hydraulic Cylinders and Rods
- Engine Components

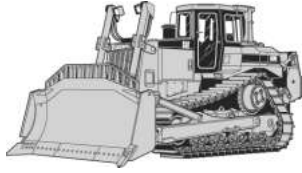


Track Loaders

- Brake Shoes
- Brake Bands
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Engine Components

Coverages shown are typical. Please see your dealer for specific applications.

Earthmoving



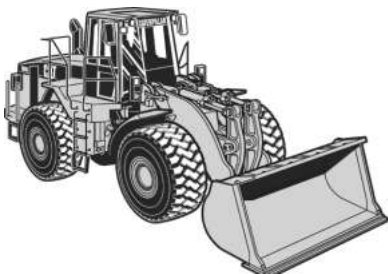
Track-Type Tractors

- Brake Bands
- Clutch Plates
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Steering Clutch and Brake Groups
- Torque Converters
- Transmissions
- Engines and Engine Components



Tractors

- Brake Shoes
- Clutch Plates
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Torque Converters
- Axle Housings
- Engines and Engine Components
- Reaction Hubs
- Wheel Assemblies
- Brake Groups
- Transmissions
- Front Suspension



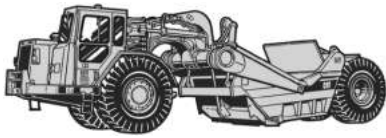
Wheel Loaders

- Brake Shoes
- Clutch Plates
- Final Drives and Components
- Hydraulic Pumps, Motors and Parts
- Torque Converters
- Transmissions
- Engines and Engine Components
- Brake Bands
- Hydraulic Cylinder and Rods
- Reaction Hubs

Coverages shown are typical. Please see your dealer for specific applications.

Remanufactured Products

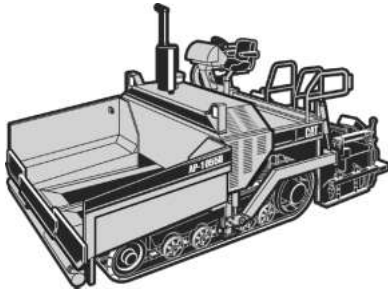
Earthmoving



Wheel Tractors

- Brake Shoes
- Clutch Plates
- Final Drive and Components
- Hydraulic Pumps, Motors and Parts
- Hydraulic Cylinders and Rods
- Transmissions
- Engine Components

Paving Products



Paving Products

- Auxiliary Pumps
- Conveyor Motors
- Cutter Pumps
- Hydraulic Motors and Pumps
- Propel Motors and Pumps
- Vibratory Motors and Pumps
- Hydraulic Cylinders and Rods
- Eccentric Weight Housing Groups

Coverages shown are typical. Please see your dealer for specific applications.

Remanufactured Products

Remanufactured Products for Engines

ENGINE FAMILY	ENGINE MODEL	AC COMPRESSORS	AIR COMPRESSORS	ALTERNATORS	CAMSHAFTS & CAMSHAFT KITS	CONNECTING RODS	CRANKSHAFT	CYLINDER HEAD GROUPS	CYLINDER PACKS	ENGINES	ENGINE DAMPERS/BALANCERS	ENGINE OVERHAUL KITS	FLYWHEELS	FUEL / AIR RATIO CONTROLS	FUEL NOZZLES / UNIT INJECTORS	FUEL PUMPS & GOVERNORS	FUEL TRANSFER PUMPS	LONG BLOCKS	OIL COOLERS	OIL PUMPS	ROCKER ARM ASSEMBLIES	SHORT BLOCKS	STARTERS	TURBOCHARGERS	VARIABLE VALVE ACTUATORS	WATER PUMPS
1.1 liter	3114		X	X	X	X	X		X				X		X				X		X		X	X		X
	3116	X	X	X	X	X	X	X	X	X			X		X		X	X	X	X	X	X	X	X		X
1.7 liter	3176	X	X	X	X	X	X	X		X		X	X		X				X	X	X		X	X		X
1100	1100			X		X									X								X			X
1600	1600		X	X		1		1															X	X		
3000	3054	X		X			X	X		X						X							X	X		X
	3056	X														X							X	X		X
3100	3126	X	X	X		X		X	X	X			X		X	X	X	X	X		X	X	X	X		X
	3160			X	X	X	X	X		X					X				X			X				X
3200	3204		X	X	X	X	X	X							X			X	X			X	X	X		X
	3208		X	X						X			X		X	X		X				X	X	3		X
3300	3304		X	X	X	X	X	X	X				X	X	X		X	X	X	X		X	X	X		X
	3306	X	X	X	X	X	X	X	X	X			X	X	2	5	X	X	X	X	X	X	X	X		X
3400	3406 ⁷	X	X	X	X	X	X	X	X	X			X	X	X		X	X	X		X		X	X		X
	3408	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X			X	X		X
	3412	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X			X	X		X
3500	3508	X	X	X	X	X	X	X	X	X	X		X		X		X		X	X		4	X	X		X
	3512		X	X	X	X	X	X	X	X	X		X		X	X	X		X	X		4	X	X		X
	3516	X	X	X	X	X	X	X	X	X	X		X		X		X		X	X		4	X	X		X
	G3508			X	X	X	X	X	X		X				X	X			X	X			X	X		X
	G3512			X	X	X	X	X	X		X				X		X		X	X			X	X		X
	G3516			X	X	X	X	X	X		X				X		X		X	X			X	X		X
3600	3606			X		X		X			X				X		X		X	X			X			X
	3608			X		X		X			X				X	X	X		X	X			X			X
	3612			X		X		X			X				X	X			X	X			X			X
	3616			X		X	X	X	X		X				X	X			X	X			X			X
C7	C7		X	X	X	X	X	X	X	6								6	X	X	X	6	X	X		X
C9	C9			X	X	X	X	X	X				X						X	X	X		X	X		X
C10	C10	X	X	X	X	X	X	X	X	X	X		X		X			X	X	X	X		X	X		X
C11	C11			X	X	X	X	X	X				X		X				X	X	X		X	X	X	
C12	C12	X	X	X	X	X	X	X	X	X	X		X		X			X	X	X	X		X	X		X
C13	C13			X	X	X	X	X	X				X		X				X	X	X		X	X	X	

1 = 1673C/1693.

2 = B Series only.

3 = T Model only.

4 = See your dealer for specific applications.

5 = Sleeve metering fuel system.

6 = 2005 availability, contact your local dealer.

7 = Uprate kit available.

Coverages shown are typical. Please see your dealer for specific applications.

Remanufactured Products

Remanufactured Products for Engines

ENGINE FAMILY	ENGINE MODEL	AC COMPRESSORS	AIR COMPRESSORS	ALTERNATORS	CAMSHAFTS & CAMSHAFT KITS	CONNECTING RODS	CRANKSHAFT	CYLINDER HEAD GROUPS	CYLINDER PACKS	ENGINES	ENGINE DAMPERS/BALANCERS	ENGINE OVERHAUL KITS	FLYWHEELS	FUEL / AIR RATIO CONTROLS	FUEL NOZZLES / UNIT INJECTORS	FUEL PUMPS & GOVERNORS	FUEL TRANSFER PUMPS	LONG BLOCKS	OIL COOLERS	OIL PUMPS	ROCKER ARM ASSEMBLIES	SHORT BLOCKS	STARTERS	TURBOCHARGERS	VARIABLE VALVE ACTUATORS	WATER PUMPS
C15	C15		X	X	6	X	X	X	X	6			X		X			X	X	X	X	6	X	X	X	6
C16	C16		X		X	X	X	X	X	X					X			X	X	X	X		X	X		X
D300	D342			X	X	X	X	X	X										X				X	X		X
	D343			X					X		X								X				X	X		
	D346		X	X		X	X	X	X					X					X				X	X		X
	D348		X	X		X	X	X	X					X					X				X	X		X
	D349		X	X		X	X		X					X					X				X	X		X
	D353			X					X		X			X			X		X				X	X		
	D379			X					X		X								X				X	X		
	D398			X	X	X	X	X	X										X				X	X		X
	D399			X	X	X	X	X	X										X				X	X		X

1 = 1673C/1693.

2 = B Series only.

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4 = See your dealer for specific applications.

5 = Sleeve metering fuel system.

6 = 2005 availability, contact your local dealer.

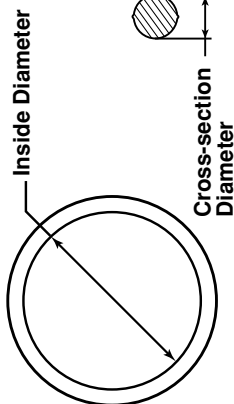
7 = Uprate kit available.

Coverages shown are typical. Please see your dealer for specific applications.

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SEALS



O-Ring

- Meet or exceed industry standards.
- Available in SAE A5568 (Dash) sizes as well as custom sizes used on Cat equipment.
- Available for different fluids, temperatures and pressures.
- Consistently meet stringent dimensional tolerances.
- Offer superior resistance to seal compression set for leak free performance.

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
1.000	6.000			107-7642									
1.020	10.030									6V-3693			
1.090	45.000				6V-1556								
1.090	64.060				6V-1555								
1.170	10.410			189-3769									
1.350	11.630								1P-8116				
1.400	6.700								085-8219				
1.400	25.630				9X-7430								
1.420	3.990			5P-9262									
1.420	4.470					9X-7379			5P-6458				
1.420	4.700	901							7M-0105			3S-2912	
1.500	4.500									3E-4288			
1.500	5.000			8C-3131									
1.500	6.500								8U-1766	3E-4289			
1.500	7.500								177-2645				
1.500	8.000									3E-4296			
1.500	8.200				8C-3076					8T-7876			
1.500	8.500			192-7111									
1.500	9.000								123-2341				
1.500	9.500								147-4214				
1.500	10.000			8U-5942						3E-4297			
1.500	11.500								7I-2750				
1.500	12.000			9X-7377									
1.500	13.500								4I-0754				
1.500	17.000				8C-3106								
1.500	17.500								112-0034				

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
1.500	19.500								122-7776				
1.500	52.000			175-0054									
1.570	12.700								5D-0834				
1.570	15.880								4M-6582				
1.570	31.040							2M-8663					
1.590	10.720								8M-8544				
1.590	12.700			2T-2893									
1.600	3.200			192-7110					146-6730				
1.600	9.500							2T-2677					
1.600	12.100				107-7640								
1.600	12.500				8C-3133								
1.600	13.100								8C-3097				
1.600	14.000			8C-3132									
1.600	25.100								8C-3102				
1.600	27.100								8C-3101				
1.600	29.100									186-0128			
1.630	6.070	902	8T-9587	5P-7812	109-9685	109-0093				4J-7533			
1.630	6.070	902		163-4565									
1.630	7.650	903	8K-0001	5P-7813	108-5803					7J-0204	1N-6001		
1.650	14.500				8C-3082								
1.780	1.780	004								085-7537			
1.780	2.570	005		8C-3095									
1.780	2.900	006							6H-9691				
1.780	3.680	007		6V-3685		150-4651			3H-0442				
1.780	4.470	008							8F-7219	2Y-2271		8M-8468	8T-2360
1.780	4.470	008								6V-5722			
1.780	5.280	009			107-3116				8F-9538	3G-1209		8M-5250	8T-2361
1.780	6.070	010		9N-1756					2D-6392	6V-5586		3L-6768	1P-7363
1.780	6.400									147-6603			
1.780	7.650	011		061-7538	9X-7680	9X-7380			5F-9144	3E-6760			
1.780	7.650	011								8C-3085			
1.780	7.650	011								4J-5477			
1.780	9.250	012	6D-7128	5P-8942	153-4907				1H-1023	161-6154		5H-8853	
1.780	9.250	012		8L-2779	033-6039					6V-8397			

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
1.780	10.820	013		033-5879	9X-7409	9X-7381			6M-5062	095-1750		7X-4800	126-6514
1.780	10.820	013			3E-6780								
1.780	12.420	014	180-8424	033-6033	6V-5758	9X-7408			4K-2039	161-6149			126-6515
1.780	12.420	014								6V-8398			
1.780	13.340					117-2983			008-5593				
1.780	14.000	015			033-6043	9X-7382			5L-4758	095-1751		5P-6620	126-6516
1.780	15.600	016	6V-5138	8L-2746	6V-5142				4D-2297	8C-3086			
1.780	15.720			136-7226	152-2938					7J-9108			
1.780	17.170	017		2P-2975	135-2652	9X-7383			8T-6447	6V-8399			
1.780	17.170	017							1S-8947				
1.780	18.770	018		5P-9757	9X-7681				8M-8997	9X-7454			
1.780	18.770	018								8C-3087			
1.780	18.940									6V-9746			
1.780	20.340	019							2Y-2272				
1.780	20.350	019		033-6044	5E-9816					6V-6580			
1.780	21.950	020		5P-5599					030-4605	8J-2413			061-8341
1.780	23.520	021		106-9586	8C-3093								
1.780	23.520	021							8C-3098	8C-3088			
1.780	23.660									5K-9090			
1.780	25.120	022		175-3135	8T-9529				5L-4759				
1.780	25.120	022		6V-9178									
1.780	26.700	023		033-6032	136-3377	9X-7384			077-3241	005-8592			
1.780	28.300	024		5P-5600					003-8137	4K-4986			
1.780	29.870	025		9X-7734					6V-0894	2Y-2347		5P-6436	
1.780	30.010									6V-8400			
1.780	31.470	026			8C-0563				8F-0212	085-7538			
1.780	33.050	027		5P-5601					5D-6539	8T-4827			
1.780	34.650	028		5P-9658	9X-7431				5D-6543	5K-5221		5P-4932	
1.780	37.820	029		7X-4782									
1.780	37.980									8T-0315			
1.780	41.000	030							3J-9015	5K-6526			
1.780	44.170	031		5E-8767					3P-1979	5K-0227		5P-7914	
1.780	47.350	032		5E-8768						5K-0216		5P-8907	
1.780	50.520	033							6V-0895				

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
1.780	53.700	034							5P-9939			3P-5859	
1.780	60.050	036							077-5843	095-1753			
1.780	63.220	037		7X-4745								3P-0815	
1.780	69.570	039								113-7820		2P-5820	
1.780	72.750	040								9J-5686			
1.780	75.920	041		6V-3865					032-9714				
1.780	78.560											5P-3114	
1.780	79.000								142-6218				
1.780	82.270	042		6V-5778					5P-2931				
1.780	88.620	043	8T-2944	8T-6717					5P-3881				
1.780	94.970	044		5E-8769					7X-9372				
1.780	101.320	045		6V-1320					7X-5494			8T-2572	
1.780	107.670	046								9X-7357			
1.780	120.370	048							8C-5237				
1.780	124.400			9X-7365									
1.780	126.720	049		3E-6799									
1.780	133.070	050		6V-1934						131-3716		5P-4969	
1.780	142.340											5P-9650	
1.780	193.370											9S-6929	
1.780	228.830											1S-7390	
1.780	271.830								6V-1919				
1.800	7.000									124-0623			
1.800	14.500			128-4004									
1.830	8.920	904	6V-9027	6V-5048	033-5853	9X-7378				3J-7354			
1.830	10.520	905		5P-7814	137-6667					1J-9671	7L-3348		
1.830	10.520	905			109-3206								
1.880	7.980									6V-5324			
1.900	2.800								095-1508	095-1571			
1.900	3.800								095-1509	7Y-5280			
1.900	4.800								095-1510	095-1572			
1.900	5.800								3T-7528	095-1573			
1.900	6.800								095-1511	095-1574			
1.900	7.800			103-8254					095-1512	095-1575			
1.900	8.800								095-1513	095-1576			

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITIRLE (60)	NBR NITIRLE (70)	NBR NITIRLE (75)	NBR NITIRLE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
1.900	9.800				189-9763				095-1514	095-1578			
1.900	16.760											6V-6921	
1.980	11.890	906	6V-3250	6V-5049	033-6042					3U-1907	7L-6385		
1.980	11.890	906		109-2333	153-4906								
2.000	6.000			9X-4626									
2.000	7.000									187-1979			
2.000	7.500				8T-9528								
2.000	9.000			9X-4617									
2.000	9.500							8U-5928					
2.000	10.000			187-8567						9T-4057			
2.000	10.500				135-3437								
2.000	12.000								123-2342	3E-4298			
2.000	14.000								8T-0116				
2.000	15.000			3E-6749				121-8112		122-9250			
2.000	16.000			173-8277									
2.000	17.000				3E-6769								
2.000	20.000									3E-6761			
2.000	30.000								092-2304				
2.000	30.200			9X-4618									
2.000	32.000							8U-4125					
2.000	36.000			192-7121									
2.000	50.000							117-1495					
2.000	57.000			125-3193									
2.000	63.500								7I-2749				
2.000	66.500							130-7114					
2.000	74.500								116-3682				
2.000	78.000			192-7120									
2.000	80.000			8T-9525									
2.000	84.000												
2.000	84.500								107-6279				
2.000	103.000								165-9448				
2.000	149.500								191-7604				
2.000	160.000								177-2553				
2.100	9.400								196-4670	6V-9028			

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
2.100	11.400									6V-6560			
2.100	13.400									8T-6850			
2.100	15.400									8T-7524			
2.100	17.400									8T-7877			
2.100	19.400									6V-7970			
2.200	9.600				9X-7317								
2.210	16.360	908	6V-6609	8L-2786	033-6028	112-5282			9X-7745	124-9346			
2.380	22.220			2T-2894									
2.390	8.970									4P-9041			
2.390	31.420								179-0793				
2.400	9.300			8T-9521									
2.400	9.800								112-0033	095-1577			
2.400	10.800								095-1515	095-1579			
2.400	11.800								095-1516	095-1580			
2.400	12.300			8T-9522						095-1581			
2.400	12.700			2T-2679					095-1517	095-1582			
2.400	13.800								095-1517				
2.400	13.800								095-1518	095-1583			
2.400	14.800			103-8255									
2.400	15.300			8U-3473									
2.400	15.800								095-1519	095-1584			
2.400	16.300				117-8766				123-2343	3E-4299			
2.400	17.800									095-1585			
2.400	18.300			8T-9523	117-8764								
2.400	19.300			9X-4619									
2.400	19.800								095-1521	095-1586			
2.400	20.300									3E-6762			
2.400	20.800				109-1294				095-1522	095-1587			119-5458
2.400	21.800								095-1524	095-1590			
2.400	25.300								123-2345	3E-6763			
2.400	27.300			9X-4625									
2.400	27.700											9X-4614	
2.400	39.700											8C-0626	
2.400	52.600									189-2624			

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
2.400	67.600								8T-6716				
2.460	19.180	910	6V-3251	136-7227	152-2939	114-4427				2M-9780	7L-2224		
2.460	19.180			6V-4589	033-6027								
2.500	5.000									170-5716			
2.500	7.000				174-5057								
2.500	8.000				174-5056								
2.500	25.000									118-2725			
2.500	26.000									113-0308			
2.500	27.500									133-9279			
2.500	32.000									9X-7447			
2.500	33.000									3E-6764			
2.500	86.000				117-8765								
2.500	90.000			192-5166									
2.500	107.000				8C-3083								
2.500	140.000							8C-3057					
2.500	195.000				3E-6770								
2.620	4.420	106								8J-1699			
2.620	5.230	107							8B-7216	5P-4933			
2.620	6.020	108		9X-7676					8J-8343	5P-5874			
2.620	7.590	109		032-8970					4J-2506	6J-3134			
2.620	9.190	110		6V-4365	107-3118				6F-5559	4J-5309		8M-8157	
2.620	9.800								7W-3983				
2.620	10.770	111		8L-2777	109-3204				5H-6005	4J-9535		8M-5127	
2.620	12.370	112		032-9313	126-7524				8F-9206	7Y-5219		8M-5251	
2.620	13.940	113		3P-0647	6V-8350	132-2072			6F-4855	4J-5268		8M-4437	
2.620	13.940	113				117-1385							
2.620	15.540	114		061-8639	107-3117	118-5068			8F-3469	5J-2974	7L-2180	8M-5260	
2.620	15.540	114		112-3102						122-8352			
2.620	17.120	115		6J-2245	6V-8351				6F-6672	4J-5351		8M-4438	
2.620	17.960									6V-5325			
2.620	18.720	116		7L-9061	109-3203				7F-8607	6V-3922		8M-5253	
2.620	20.300	117		5P-9186	033-6041				4M-8303	5P-3108		8M-4389	
2.620	20.300	117										8M-4389	
2.620	21.890	118		5P-8356	3E-6786				9H-6761	7J-9933		8M-8283	

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
2.620	23.470	119		033-6034	6V-8352				4D-9986	6V-5326		9X-4609	
2.620	25.070	120		5P-3456	6V-6339				3D-4245	6V-5556		1S-7462	6V-8958
2.620	26.640	121		6V-6228					1M-1077	7E-4846		8M-4431	
2.620	26.640	121							3D-2992	085-7539			
2.620	28.240	122		5P-7530	6V-4591				2K-8199	099-8232		8M-8514	
2.620	29.820	123		7X-4744					3S-9233	6V-8978		8M-1112	
2.620	31.420	124		9X-3979	3E-6787				2S-4663				
2.620	31.420	124		8T-5452	9X-7722								
2.620	31.720									096-3044			
2.620	32.990	125		3E-6747	6V-3550				2K-8198	6V-8218		8M-8515	
2.620	32.990	125			9X-7418								
2.620	34.590	126	9X-7545	6V-4367	166-2903				5M-2057	096-6100			
2.620	34.590	126			3E-6767					096-6100			
2.620	36.170	127		5P-8065	9X-7735	107-9570			6J-2419	7E-4847			
2.620	36.170	127								6V-5393			
2.620	36.540				131-3719								
2.620	37.770	128		8C-0624	6V-7323				4D-3107	6V-5391		6F-0249	
2.620	39.340	129		6V-5143	6V-1250				5P-8215	1R-5318			
2.620	39.340	129		7X-8592									
2.620	40.940	130		3E-6788					9X-7684	6V-5597			
2.620	42.520	131		9X-7432			4J-8268		4L-7711	085-7540			
2.620	44.120	132		3E-6790					2D-0598	5P-2568	8C-4949		
2.620	45.690	133		8C-3078					7D-9749	3E-6771			
2.620	47.290	134							032-9882				
2.620	48.900	135		6V-8676					3D-2898				
2.620	50.470	136		8C-3079					8C-3080				
2.620	52.070	137			6E-5412				005-8593				
2.620	53.640	138	8C-5196	6V-5100					3D-7805				
2.620	55.240	139		6V-3832	135-2655		5J-1808		004-1963				
2.620	56.820	140		144-7338		144-7339				7Y-5269			
2.620	58.420	141		5P-5756					7J-2036	119-7843		3S-4489	
2.620	59.990	142		009-2061					8T-7000				
2.620	61.600	143		6D-7889					8S-0768				
2.620	63.170	144		009-2062					8C-3081				

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITIRLE (60)	NBR NITIRLE (70)	NBR NITIRLE (75)	NBR NITIRLE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
2.620	63.200		8T-2929										
2.620	64.770	145		5P-5757	180-2391			117-7273				5S-4548	
2.620	66.340	146							5M-6509	131-3715			
2.620	67.940	147							107-4057			129-5701	
2.620	67.940	147							109-7412				
2.620	69.520	148							004-1964				
2.620	71.120	149							3K-4025				
2.620	72.690	150		8C-5197					5P-0908				
2.620	75.870	151		5E-8770					7R-8872	119-7844			
2.620	79.380					107-5769			1P-8362				
2.620	82.220	152		8C-3089	6V-3551				5P-3863	5P-2569			
2.620	88.570	153	8T-6340	6V-3834	136-3378				6V-2483				
2.620	92.410			185-3241									
2.620	93.120									140-7969			
2.620	94.620	154	7X-4752		107-3119	185-3503			4F-4097				
2.620	97.800			7X-4804									
2.620	101.270	155		6D-7146	107-3120				3K-0715				
2.620	101.270	155	9X-7549		133-6578					8T-5049			
2.620	107.620	156								1T-1068			
2.620	113.970	157		6V-7350					6S-3002				
2.620	120.320	158	117-3036	5E-8771						9X-7566			
2.620	126.670	159	9X-7697	117-8801					7J-6285				
2.620	126.670	159		9X-7422					7J-6285				
2.620	126.670	159		169-7442									
2.620	131.200									133-0128			
2.620	133.020	160							2P-1692				
2.620	139.370	161							5J-3886	117-7282			
2.620	139.370	161							5J-3886				
2.620	145.720	162		176-1378						9X-7358			
2.620	152.070	163		9X-4576					5P-3864				
2.620	158.420	164		9X-7286					8T-6404	119-7845			
2.620	164.800		4S-7762							9X-7391			
2.620	171.120	166							9D-8042				
2.620	177.470	167							5P-5397				

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
2.620	183.820	168							9X-7725				
2.620	190.170	169		9X-7295					9X-7683				
2.620	202.870	171			9X-7410					125-4194		7X-4799	
2.620	209.220	172							162-9997				
2.620	215.570	173							161-4102				
2.620	234.620	176		107-3114									
2.620	240.970								190-8501				
2.620	247.320	178		154-8741									
2.620	249.500								8C-5175				
2.620	260.000								8C-5177				
2.620	269.400								8C-5176				
2.620	287.910								065-2793				
2.620	330.890		194-3087										
2.650	145.720									8U-2543			
2.650	183.800									125-4189			
2.660	9.870									173-5549			
2.700	13.600								8T-0117				
2.720	19.300								006-2992				
2.800	22.700									8T-7878			
2.800	23.700									8T-7525			
2.800	29.700									8T-7526			
2.800	38.700									8C-5193			
2.950	21.920	911							9X-7692				
2.950	23.470	912	6V-5063	6V-5050	033-6036					3D-2824	7L-3385		
2.950	26.590	914		6V-1903	033-6038	119-5155				4K-1388			
2.950	29.740	916	6V-5064	5P-7701	9X-7712				9X-7744	7M-8485	7L-2229		
3.000	9.000			132-4240									
3.000	19.000			2T-2695									
3.000	19.500			150-7732									
3.000	23.000									5W-9413			
3.000	24.000								133-4771				
3.000	26.200									118-3131			
3.000	34.000									179-9013			
3.000	36.500			9X-4621									

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.000	37.460		6V-5065	5P-7815						2S-4078	7L-3386		
3.000	37.470				183-2317								
3.000	41.000							2T-2692					
3.000	43.690	924	8C-0562	5P-7816	108-5806					6K-6307	1N-6002		
3.000	49.000								121-8117				
3.000	50.000			9X-4616									
3.000	51.000							2T-2691					
3.000	53.100	928	8T-2928	9X-3978									
3.000	54.000				174-5055								
3.000	54.500				175-6715								
3.000	56.000									122-9251			
3.000	59.360	932		5P-7817						030-4606			
3.000	60.000									118-3128			
3.000	64.000									122-9252			
3.000	70.000			128-4005									
3.000	79.500								3C-5546				
3.000	84.000							125-7005					
3.000	84.500			9X-4622									
3.000	85.000				177-0344								
3.000	92.000									109-5698			
3.000	96.000							113-7822					
3.000	97.000			121-9907									
3.000	98.000								121-8094				
3.000	102.000								179-3560				
3.000	104.000							118-3122					
3.000	105.000			8T-9526									
3.000	108.860									138-2676			
3.000	115.000							125-9701					
3.000	120.000									140-0226			
3.000	128.000							118-2720					
3.000	130.000							135-7935					
3.000	144.500			192-5167									
3.000	150.000								109-5700				
3.000	179.000			192-5168									

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.000	179.500								107-5665				
3.000	190.000			132-4423									
3.000	192.000			167-1829									
3.000	200.000								109-5693				
3.000	205.000							8U-5927					
3.000	210.000								109-5694				
3.000	220.000								109-5701				
3.000	224.000								121-8132				
3.000	280.000								109-5706				
3.000	315.000								109-5705				
3.000	335.000								133-4769				
3.000	360.000								109-5695				
3.000	420.000								145-6735				
3.000	420.000								145-5935				
3.100	24.400								095-1657	095-1696			
3.100	29.400								095-1658	095-1698			
3.100	34.400								095-1659	095-1700			
3.100	39.400				109-1296					095-1701			
3.100	44.400									095-1703			
3.100	49.400								095-1662	095-1704			
3.100	49.400								3A-9280				
3.100	54.400								095-1663	095-1705			
3.100	59.400									095-1706			
3.100	64.400									095-1707			
3.100	69.400									095-1708			
3.100	74.400									095-1709			
3.100	79.400			193-1736						095-1710			
3.100	84.400								8T-3338	095-1711			
3.100	89.400									095-1712			
3.100	94.400			096-3944					095-1671	095-1713			
3.100	99.400									095-1714			
3.100	104.400								095-1673	095-1715			
3.100	109.400								095-1674	095-1716			
3.100	114.400								095-1675	095-1717			

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.100	119.400								095-1676	095-1718			
3.100	124.400								095-1678	095-1719			
3.100	129.400									095-1720			
3.100	134.400								095-1679	095-1721			
3.100	139.400								095-1680	095-1722			
3.100	144.400								095-1681	095-1723			
3.100	152.500									107-6986			
3.100	160.000									095-7384			
3.100	174.000									095-7383			
3.100	190.000									096-4377			
3.100	259.300								6V-8101				
3.100	363.680								3F-8948				
3.150	30.000			8T-9524									
3.180	21.820								179-0794				
3.180	34.110								4D-5256				
3.180	49.230								4F-2709				
3.180	200.020								3F-8333				
3.180	323.850										4S-5805		
3.180	377.820									002-6962			
3.180	419.100										4S-5804		
3.250	114.000									140-0180			
3.250	168.740									140-0236			
3.300	31.750								4F-2928				
3.300	66.680								3F-3759				
3.300	74.630								4F-3408				
3.300	106.380								4F-9174				
3.300	195.280								4F-2410				
3.400	285.600								177-8740				
3.500	21.700								096-0034	095-1589			5I-4115
3.500	22.100								095-1525	095-1591			
3.500	23.700				190-7674				095-1526	095-1592			
3.500	24.700								095-1527	095-1593			
3.500	25.700								095-1528	095-1594			
3.500	25.700									095-1595			

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.500	28.700								095-1530	095-1596			
3.500	29.700								095-1531	095-1597			
3.500	30.700								095-1532	095-1598			
3.500	31.700								095-1533	095-1599			103-8173
3.500	33.700								095-1534	095-1600			
3.500	34.700								8T-2148	095-1601			
3.500	35.700								095-1536	095-1602			
3.500	37.700				190-7673				095-1537	095-1603			
3.500	38.700								095-1538	096-5572			
3.500	39.700								095-1539	095-1604			
3.500	40.700								095-1540	095-1605			
3.500	41.700								095-1541	095-1606			
3.500	43.700									095-1607			
3.500	44.700								095-1543	095-1608			
3.500	45.700								095-1544	095-1609			
3.500	47.700									095-1610			
3.500	48.000				177-0343								
3.500	48.700								095-1545	095-1611			
3.500	49.700								095-1547	095-1613			
3.500	84.600											8C-5212	
3.500	89.600											8C-5213	
3.500	94.600											8C-5214	
3.530	5.940	202		6V-4366					2H-5001	9J-6491		8M-8281	
3.530	7.520	203		137-8101						6V-5555			
3.530	9.120	204		7X-4805	6V-3548				2J-6274	6V-0913			
3.530	10.690	205		119-9443									
3.530	10.690	205		6V-5759									
3.530	12.290	206		5P-0840									
3.530	13.210												
3.530	13.870	207		125-1372					2M-4453	5P-6300		8M-4447	
3.530	13.870	207							3H-3385			5M-1868	
3.530	15.470	208	8C-0504	5P-5598								8M-8282	
3.530	17.040	209		5P-8119					2J-0157	6J-1038		5P-9557	
3.530	18.640	210	5P-3148	5P-6718		169-7487			5F-7054	4J-5140		8M-4448	

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.530	18.660								8U-6426				
3.530	20.220	211		061-7539		9X-7385			1H-8171	008-2103			
3.530	21.820	212		3P-1156		112-3132			3H-0107	4J-8996		8M-4445	
3.530	23.390	213		6V-3683	109-3207				5H-2767			8M-4446	035-0273
3.530	24.990	214		117-8803	109-3205				5F-1678	4J-5267		8M-4988	
3.530	24.990	214		3P-1155									
3.530	25.400									141-7454			
3.530	26.570	215		5P-8118					4F-8946	180-8722		8M-4432	
3.530	26.570	215								7X-1550			
3.530	28.170	216		061-9458		121-0145			2H-3932	4J-8997		8M-5248	
3.530	29.740	217		165-4854					4F-9029	6V-0357		8M-4433	
3.530	29.740	217		5P-8883						6V-0357			
3.530	31.340	218		5P-8210	134-5691				6F-6673	4J-0519		8M-5254	
3.530	32.920	219		5P-8066	170-5715				4F-7391	4J-0520		8M-4987	
3.530	32.920	219			9X-7557								
3.530	34.520	220	7L-4774	5P-4268	3E-6766				3H-1461	4J-0521		8M-5249	
3.530	36.090	221		6V-5266	9X-7419				5F-9657	4J-8998		1S-9799	
3.530	37.690	222		061-7540	191-2962	118-7214			4F-7952	4J-0522	7L-2175	8M-4986	
3.530	39.270								2J-1826				
3.530	40.870	223		061-8561	061-8561	118-8586			6F-0711	4J-5573		8M-4992	
3.530	40.870	223			194-9584				099-0187				
3.530	40.870	223			8J-8725								
3.530	44.040	224	8T-9588	8J-4351	5P-1480	129-1653			1H-9696	4J-0523		8M-4443	
3.530	47.220	225	8T-1702	061-9455					7F-8267	4J-0524		8M-5661	
3.530	50.390	226		5P-8211					5F-8000	4J-0525		8M-4436	
3.530	50.390	226		6V-6756									
3.530	53.570	227		061-9456	8C-3077				7F-8268	4J-0526		8M-5010	
3.530	53.570	227		124-1858									
3.530	53.970									141-7452			
3.530	55.600								137-3623				
3.530	56.740	228	8T-1703	6V-4368		112-1577			8F-6711	4J-0527		8M-4390	
3.530	59.920	229		5P-4892					1H-8720	4J-0528		1S-2174	
3.530	59.920	229							175-7894				
3.530	63.090	230		061-9457					1H-5728	3P-0439		8M-4395	

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.530	65.070								5B-4399				
3.530	66.270	231		6J-2244		118-8708			8F-8882	3E-6730		8M-5252	
3.530	66.270	231				118-8706							
3.530	69.440	232	167-4407	033-6031	8T-0568	112-1574			175-7895	6J-2680		9M-7539	
3.530	69.440	232							5H-8848				
3.530	72.620	233		6V-1179					6H-3977	149-0231			
3.530	75.790	234		5P-4889					175-7896			5M-3038	
3.530	75.790	234							1H-7339				
3.530	78.970	235		153-1157	170-7098				2H-6184	3E-6732			
3.530	78.970	235							175-7897				
3.530	82.140	236	8C-3073	6V-1196	170-4821				2H-3931	6V-6707		6L-9965	
3.530	85.320	237	8C-3072	124-1859					2H-6338	117-1266		2P-3538	
3.530	85.320	237		6V-8001						2H-6338			
3.530	88.490	238		6V-8002					2H-4145	6R-0365		3S-1427	
3.530	88.490	238							175-7898				
3.530	91.670	239		131-3718					8H-7521	3E-6735		2M-2561	
3.530	92.080									5D-6618			
3.530	94.840	240		3E-6773					1H-8128	5P-6302		5K-1770	
3.530	98.020	241		6V-1197					175-7900	9X-4611		9M-9936	
3.530	98.020	241							2H-3934				
3.530	101.190	242		6V-6353					1H-6227			2S-2182	
3.530	104.370	243		5D-5957					4M-0189			7M-9909	
3.530	107.540	244		3E-6785					2H-3928		7L-3313	8S-5654	
3.530	110.720	245		6V-5053					4H-9105	3E-6703		9M-9729	
3.530	110.720	245		8T-9527					175-7902				
3.530	113.890	246		9X-7287					5H-6734	190-3011			
3.530	117.070	247		5D-5958					2J-8163			5P-1705	
3.530	120.240	248		125-9794					5F-3144	175-7903	7L-2211	8M-5255	
3.530	123.420	249		6V-8260					5F-3999			7M-6637	
3.530	126.590	250		9X-7371					5F-3106	031-4392		4S-5898	
3.530	126.590	250							175-7904				
3.530	129.770	251		130-0229					3F-5792		7L-4090	5P-3457	
3.530	129.770	251		5P-8286									
3.530	132.940	252		6V-7351					175-7905			9N-1619	

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.530	132.940	252							2H-9247				
3.530	136.120	253		6V-1195					2H-3935			9N-2693	
3.530	139.290	254							8F-9516	190-3010		8M-5007	
3.530	142.470	255		161-8068		129-1609			2D-8009			6V-1904	
3.530	145.640	256	6V-3428		6V-3549				5H-3252	6J-5541			
3.530	148.820	257		161-8069		129-1610			2K-8257			3S-5135	
3.530	151.990	258		6V-5553	170-7106				8F-8733	7D-9014	2L-1778	5D-4311	
3.530	158.340	259		6V-3319					2K-4472		7L-3380	8M-4704	
3.530	158.340	259										6V-3689	
3.530	164.690	260		6V-7681	175-5077				6F-4718			1S-4974	
3.530	171.040	261		5P-8428	170-4825				9F-1399	061-9729		2S-4071	
3.530	177.390	262		6V-1902					2K-2939		7L-2181	5S-4554	
3.530	183.740	263		6V-3907	175-5088				4H-6520		7L-3314	1S-6119	
3.530	190.090	264	6V-5098			149-5461			3J-0634	5J-2383			
3.530	196.440	265	8T-2921						1H-8278	126-4003	8L-5189		
3.530	202.790	266							1J-2176	7Y-4277		9M-9545	
3.530	204.000	266								9C-3493			
3.530	209.140	267				122-3771			9M-5024	7Y-4294		9N-2694	
3.530	214.300								2M-0340				
3.530	215.490	268		156-5198		122-3772			4K-6804				
3.530	221.840	269							8F-5900				
3.530	226.000								116-7830				
3.530	228.190	270		6V-3684					8F-6230				
3.530	230.670											146-7311	
3.530	234.540	271							1T-0132			8L-3017	
3.530	238.230											146-7312	
3.530	240.890	272							2D-9572	126-4002		9N-1609	
3.530	247.240	273							5S-3676				
3.530	253.590	274							5H-4909			7D-1979	
3.530	266.290	275							8J-8879				
3.530	269.880								9H-5548				
3.530	278.990	276							2R-0239				
3.530	281.940									5D-4187			
3.530	282.370								6V-7991				

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.530	285.800									4D-5497			
3.530	291.690	277							5P-2545			9N-1520	
3.530	298.450								9X-7686				
3.530	304.390	278		165-4852					2D-6533				
3.530	307.570			5P-9035									
3.530	316.870								5P-2861				
3.530	317.910											6V-2406	
3.530	323.440									5J-1086			
3.530	329.790	279							4D-6695			9N-1552	
3.530	340.990								171-9375				
3.530	345.000								116-5897				
3.530	351.000								171-9298				
3.530	355.190	280		5D-5959					4S-5879			9N-1562	
3.530	367.890								6D-0692				
3.530	380.590	281							4D-1577				
3.530	385.340			6V-5058					8D-2714				
3.530	399.800								5P-9147				
3.530	405.260	282							7S-8561				
3.530	412.340								2P-3628				
3.530	413.490								7Y-1455				
3.530	430.660	283							4S-5924				
3.530	454.910								7X-1548				
3.530	470.000								8C-5240				
3.530	481.460								2D-6507				
3.530	484.860								6W-4310				
3.530	500.740								136-2967				
3.530	523.470								7D-7519				
3.530	535.500								6V-6204				
3.530	552.040								4D-0449				
3.530	570.000											9X-7550	
3.530	576.480								7Y-0640				
3.530	606.020								7D-5868				
3.530	669.000								129-9124				
3.530	698.090								6D-1355				

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
3.530	749.000								5P-4076				
3.530	1108.000											150-8791	
3.550	155.000				129-5426								
3.550	185.000								123-2003				
3.600	24.600			3E-6775									
3.960	11.130								4F-5675			1H-3748	
3.960	14.270											3H-2387	
3.960	22.220								4F-5676				
3.960	25.400							8B-6015					
3.960	38.1											3H-2389	
3.960	76.2											4D-6773	
3.960	88.04											7H-0538	
3.960	117.480								7F-6268				
4.000	38.000							121-7687					
4.000	45.000			121-8116									
4.000	65.000									114-8837			
4.000	75.000									112-6921			
4.000	76.000									125-7001			
4.000	80.000									135-7940			
4.000	95.000								165-8066			3E-6752	
4.000	102.000									112-6920			
4.000	112.000									118-2718			
4.000	140.000								9X-7440				
4.000	150.000								111-7052				
4.000	160.000								109-5704				
4.000	165.000								141-0749				
4.000	172.000								8C-3058				
4.000	330.000								109-5707				
4.000	375.000								109-5703				
4.000	530.000								133-4767				
4.000	595.000								109-5692				
4.290	9.520								7B-0305				
4.300	9.530											3S-5496	
4.300	9.530											3S-5496	

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
4.310	140.200		142-7072	142-6217									
4.310	140.200		6V-5121	3E-6777									
4.310	140.200			3E-6777									
4.310	141.000					110-2220							
4.390	42.880								7B-6868				
4.390	101.600								7B-2125				
4.390	113.800		3S-3977										
4.390	117.100		5S-6670										
4.700	357.380								4F-5291				
4.780	7.920								2A-3307				
4.780	25.400								2A-3854				
4.780	73.020								3F-9141				
4.780	76.200								5B-3323				
4.780	83.950										3H-2726		
4.780	93.680								5B-4484				
4.780	107.920								1Y-6637				
4.780	169.880								3F-8774				
4.780	193.680								7F-7151				
4.780	219.080								7B-5716				
4.780	249.220								9F-3384				
4.780	290.530								7F-2094				
4.780	320.680								7F-2093				
4.780	469.900								4F-2411				
4.880	84.070								6F-8509				
4.880	112.730								4F-7471				
4.880	133.800		6H-6998										
4.880	139.800		3S-3978										
4.880	152.400		6L-7812									5P-4360	
4.880	165.100		6L-7815									5P-4361	
4.880	175.000		7N-2046										
5.000	120.000									135-7933			
5.000	205.000								8C-3059				
5.000	248.000								133-4768				
5.000	780.000								109-5699				

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.000	820.000								109-5696				
5.000	900.000								109-5697				
5.260	445.500			8T-0115									
5.330	7.140			4G-4972								3H-2388	
5.330	12.070	310		8S-5011					3H-4970			1S-7104	
5.330	15.240	312		6V-3955					5H-8038			8M-4990	
5.330	18.420	314	6V-5061	6V-3348					3B-8453			1S-0004	
5.330	19.300											9M-4618	
5.330	19.990	315		5P-8870					9H-4557				
5.330	21.590	316	6V-5062	2N-3350					6H-5672			9H-6067	
5.330	23.160	317	7L-4773	5P-9890	032-8969	114-2687			8F-4994			9M-4849	
5.330	23.160	317		112-3540									
5.330	24.770	318	8T-0280	6V-4430					8B-4967			8M-5266	
5.330	24.770	318		6V-4480									
5.330	27.940	320		3P-0648					5H-7370			8M-4991	
5.330	31.120	322	7L-6580	6V-5134					4F-5607			5H-7153	
5.330	32.690	323							5M-7423				
5.330	34.290	324	5P-7204	6V-3830					5M-5860		5P-5316	1S-9544	
5.330	37.470	325	6V-9769	5P-8068		109-0078	3S-6538		4F-7389		5L-2727	9M-7002	
5.330	40.640	326	6L-7817	5P-5846		109-0072			2H-3927	8S-5953		9M-9647	
5.330	43.820	327	2N-5749	8C-5230		109-0073			4F-8824			2S-2251	
5.330	43.820	327										8S-4190	
5.330	46.200											9M-2610	
5.330	46.990	328	6V-1585	8C-3107		112-3258			4F-9653	9S-8307		6L-1648	
5.330	46.990	328										7S-3206	
5.330	50.160	329	5S-1105	3P-0650		109-0076	2H-3088		5K-5959			6L-1651	
5.330	50.170	329	171-4358	113-5304									
5.330	53.340	330	2N-5243	6V-3831		112-3260			4F-7390				
5.330	56.520	331	2N-0475	109-2332		110-7752			3H-2652	7S-4001		6L-1650	
5.330	56.520	331		3P-0649									
5.330	59.690	332		3P-0651		112-3259			6F-8146	099-4780		6L-9284	
5.330	62.870	333	8T-1919	3P-0657		112-1102			2H-2665	2R-0039		6L-1649	
5.330	66.040	334		3P-0656					2H-3933			8H-1607	
5.330	69.220	335		3P-0653		109-0075			7F-2122	006-8352		8M-4989	

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.330	72.390	336	6V-1454	3P-0655		110-7753			5F-3092			9M-4218	
5.330	75.570	337		6V-5051		109-0092			7H-2444				
5.330	78.740	338		6V-3833		109-0079			9F-4446		7L-2174	1M-6036	
5.330	81.920	339		6V-5656					4L-9564	5D-1597		6L-5359	
5.330	85.090	340	6V-5066	3P-0654					8H-2046			9M-4217	
5.330	88.270	341		6V-0973		112-8186			1H-0474				
5.330	91.440	342		5P-7818		109-0074			5F-0149			9X-7727	
5.330	94.620	343		6V-4315					5H-8624				
5.330	97.790	344	6V-5139	5S-9134		109-0080			9M-2092			6V-5188	
5.330	100.970	345		6V-3908		109-0077			4F-7387	9X-7458	7L-2197	4H-3243	
5.330	104.140	346		6V-5052					1J-2859				
5.330	107.320	347	6V-5504	6V-5101					9F-7283			1S-1225	
5.330	110.490	348		7D-7111					1S-7408				
5.330	113.670	349	6V-5140	5P-8872		112-1580			5H-5672			8S-5655	
5.330	116.840	350	6V-5067	8C-3103					5P-4326				
5.330	120.020	351		5P-8940					1P-9005				
5.330	123.190	352	8T-2903	7X-1547		109-0081			2S-8439				
5.330	123.900											107-3185	
5.330	126.360								068-9002				
5.330	129.540	354	6V-5068	6V-4314	170-7103				8J-1688				
5.330	132.720	355							5P-1979				
5.330	135.890	356		9X-7562	170-7105				9X-7375				
5.330	139.070	357	6V-6809	6V-5054					9M-3786			3S-1219	
5.330	142.240	358		6V-3835					6D-9157				
5.330	145.420	359							3S-1223				
5.330	148.590	360							6V-5657				
5.330	151.770	361		6V-5055	170-4823				7J-8956				
5.330	158.120	362		6V-4297					8T-6444			8C-3091	
5.330	164.470	363			170-4824				8J-1665			7S-8758	
5.330	170.820	364								5P-7593			
5.330	177.170	365		109-7411		107-6280			8T-7568			9X-7704	
5.330	183.520	366		6V-5102					5K-1787				
5.330	189.860	367							3F-1547				
5.330	196.220	368		6V-3349					5M-7142				

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.330	199.390									8J-4386			
5.330	202.570	369	6V-7703	177-6911					9M-5894				
5.330	208.920	370		5P-8429					4N-1230				
5.330	211.190					134-5958							
5.330	215.270	371							5P-3092				
5.330	221.620	372		6V-5141		134-5959			5H-4081	1U-3174			
5.330	227.970	373								5P-5374		5D-9344	
5.330	234.320	374		6V-5375									
5.330	240.670	375		6V-7701						5P-2235		5P-8105	
5.330	253.360	377							8L-9241				
5.330	266.070	378		5P-8871					3S-3074	109-5702		5P-5819	
5.330	266.070	378		174-3357								5P-5819	
5.330	270.210											2W-2073	
5.330	278.770	379		6V-5554						5P-2236			
5.330	287.000			8C-9023									
5.330	291.470	380		6V-5057					2M-1309				
5.330	300.420									130-9108			
5.330	304.170	381		159-8802		158-6563				6V-3263			
5.330	310.130								5H-4082				
5.330	317.240			6V-7702									
5.330	325.000		1W-0115										
5.330	329.570	382		9X-7688					7S-8554				
5.330	335.000			6V-3602									
5.330	342.900								2M-3818				
5.330	350.420									130-9109			
5.330	354.970	383		8C-3828					6V-1175				
5.330	355.190									4T-4128			
5.330	371.420									130-9110			
5.330	372.000			8T-0098									
5.330	380.370	384		118-7536					2M-3340				
5.330	383.600			9X-7428									
5.330	390.000			6V-4244									
5.330	399.420									7S-4571			
5.330	405.300								5M-6200				

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.330	411.480								5M-7329				
5.330	415.000			6V-9670									
5.330	421.700			8T-8883									
5.330	422.000								144-8299				
5.330	430.660	386							5P-9806			9L-5650	
5.330	440.690								6M-5218				
5.330	456.060	387		6V-5059					2R-0098				
5.330	481.410	388							8D-4771				
5.330	494.660			6V-5043					9H-0846				
5.330	514.650								9M-5892				
5.330	532.210	390							4H-6730				
5.330	548.640											8S-6251	
5.330	557.610	391							9H-3360				
5.330	558.000		156-5197										
5.330	582.680	392							3D-8422				
5.330	608.100								8T-3013				
5.330	621.000		154-9416										
5.330	633.480	394							9H-6832				
5.330	643.380								8D-5096				
5.330	684.280								5D-7523				
5.330	736.600			159-8752					2D-6506				
5.330	760.000								5P-4057				
5.330	786.760								3D-3295				
5.330	795.000											186-3712	
5.330	843.000											5P-9519	
5.330	870.000											143-8729	
5.330	920.000											111-1503	
5.330	940.000											6V-6557	
5.330	1146.000											113-1700	
5.330	1180.000											152-0985	
5.340	136.500							8U-5059					
5.340	380.000								144-0618				
5.500	32.000								121-8140				
5.600	130.000									140-7651			

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.700	45.600											8C-0627	
5.700	49.600								095-1546	095-1612			
5.700	51.600								096-0121	095-1614			
5.700	52.600									095-1615			
5.700	54.600								8T-6346	095-1616			
5.700	55.600									095-1617			
5.700	57.600									095-1618			
5.700	59.600								095-1549	095-1619			
5.700	61.600									095-1620			
5.700	64.600								095-1550	095-1621			
5.700	69.600								095-1551	095-1622			
5.700	74.600								095-1552				
5.700	79.600								095-1553	095-1623			
5.700	84.600								095-1554	095-1624			
5.700	89.600								095-1555	095-1625			
5.700	94.600								095-1556	095-1626			
5.700	99.600								095-1557	095-1627			
5.700	104.600								096-7041	095-8859			
5.700	109.600								095-1558	095-1628			
5.700	111.600								132-3056	095-1629			
5.700	111.600								095-1559				
5.700	114.600								095-1560	095-1630			
5.700	119.600								096-0071	095-1631			
5.700	124.600								095-1561	096-5382			
5.700	129.600								095-1562	095-1632			
5.700	139.600								095-1563	095-1633			
5.700	144.600								095-1564	095-1634			
5.700	149.300								095-1682	095-1724			
5.700	149.600									095-1635			
5.700	150.000									140-7663			
5.700	154.300								096-4921	095-1725			
5.700	159.300								095-1683	095-1726			
5.700	164.300									095-1727			
5.700	169.300								095-1684	095-1728			

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
5.700	174.300									095-1729			
5.700	179.300								095-1685	095-1730			
5.700	184.300								095-1686				
5.700	189.300								095-1687	095-1731			
5.700	194.300								095-1688				
5.700	199.300								095-1689	095-1732			
5.700	204.300							148-4642					
5.700	209.300								7U-3263	095-1733			
5.700	209.300								095-1690				
5.700	214.000					169-4833							
5.700	219.300								095-1691	095-1734			
5.700	226.000					162-7473							
5.700	229.300								095-1692	095-1735			
5.700	249.300								095-1693	095-1736			
5.700	259.300									095-1737			
5.700	270.000					169-4834			095-1694	095-1738			
5.700	279.300			9X-4623				136-2942					
5.700	289.300								095-1695	095-1739			
5.700	299.300								7U-7852				
5.700	399.300								6V-2699				
5.840	60.650								6V-2701			8T-2272	
5.840	72.390								6V-2700				
5.840	81.400								6V-2698				
5.840	87.800								6V-2475				
5.840	113.660								1F-9142				
5.840	384.180								2B-8293				
6.220	49.230												
6.220	92.720						6S-3284					3N-3095	
6.220	128.230						3S-0302					8L-5520	
6.220	143.520						5K-5129					3N-3097	
6.220	154.500						5K-1075					8L-5517	
6.350	28.580								6F-6600				
6.350	40.490								1A-2298				
6.350	53.980		6L-7816				6B-7021						

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITIRLE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
6.350	60.960								7F-9134				
6.350	350.800								4L-3579				
6.480	139.700								7B-2123				
6.940	93.000									138-2675			
6.980	32.920											9F-0096	
6.980	116.840											9M-8788	
6.980	120.020											3H-0976	
6.980	126.360											2M-5173	
6.980	139.060											6H-1995	
6.980	148.590											5D-6642	
6.980	151.760											6L-5473	
6.980	164.460											7M-6952	
6.980	202.560											6L-5360	
6.980	227.960											2S-2966	
6.990	12.700								3B-7363				
6.990	31.120	8C-5209							4H-1860			6L-4905	
6.990	37.460								7H-9959				
6.990	42.800								8S-0530				
6.990	46.990								1M-3548				
6.990	56.520			5P-6861					7D-1195			4M-0142	
6.990	61.600								5P-8432				
6.990	64.260								1T-0136				
6.990	69.220								1M-0556			4M-0141	
6.990	75.560								5H-2824			5H-9205	
6.990	81.000					125-4641						4L-8337	
6.990	81.920	7L-7459		5P-5700									
6.990	85.090								2A-3676				
6.990	88.260			130-5694		125-4642			6K-9149			5S-1188	
6.990	91.440								5S-0982				
6.990	94.610											5H-7704	
6.990	94.620	7L-7460		6V-3917									
6.990	100.960			6V-2695								5H-1039	
6.990	104.140											8H-7469	
6.990	107.310			6V-5166								6H-1871	

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
6.990	113.660											7S-1156	
6.990	113.670	425							114-9275				
6.990	116.840	426		170-5941					9S-3888	107-6259			
6.990	120.020	427	7L-2031										
6.990	123.190	428		5S-6760						6F-0671			
6.990	126.370	429	6L-9405	6V-5103					8F-4469				
6.990	132.720	431							5H-9524				
6.990	135.890	432		3E-6751					4F-7507				
6.990	139.070	433	6V-5373	6V-5167					5H-6733	143-4637			
6.990	148.590	436		5P-8861					5P-3620	003-2770			
6.990	151.770	437		5P-8862					8H-0273	6H-4162			
6.990	158.120	438				112-1579			5L-5032				
6.990	164.470	439		6V-3968	170-7100				2H-6124				
6.990	164.470	439		135-6950									
6.990	170.820	440	5P-6619						2D-1692	006-8350			
6.990	177.170	441		6V-5095					4F-9652			5D-7665	
6.990	183.520	442		7X-4810					2D-1690				
6.990	189.860	443							5F-6222				
6.990	199.260								2M-0338				
6.990	202.560	445		3P-0658					2D-1691				
6.990	208.900			170-4822									
6.990	210.900								161-4511				
6.990	215.260	446							4F-7388		2N-6037	6V-1905	
6.990	218.500			6V-3603									
6.990	224.790								4D-6548				
6.990	227.960	447							1J-2890		7L-2176		
6.990	240.660								1M-9015		1N-6000		
6.990	253.370	449							3E-6794				
6.990	266.070	450			175-5086				8F-8861				
6.990	268.440			9X-7442					5P-3487				
6.990	278.760	451							2H-6340				
6.990	287.410								129-3719				
6.990	291.460	452							8H-8257				
6.990	304.160								4M-0661				

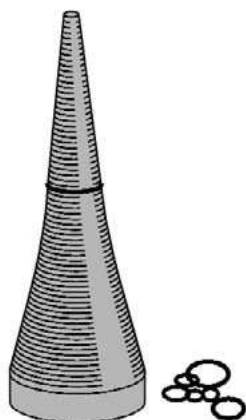
Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
6.990	304.200		1W-0118										
6.990	310.130								4M-0737				
6.990	316.860	454	8T-9047	6V-3967					4D-4508				
6.990	329.560	455							5M-4454				
6.990	342.270	456		6V-6638					5P-9217				
6.990	342.390								177-0448				
6.990	354.960	457							4J-1253				
6.990	367.670	458							6V-5862				
6.990	380.360	449							8F-9960				
6.990	386.240			137-4349									
6.990	393.070	450							5P-4342				
6.990	405.260	451							8F-6498				
6.990	417.960	452		137-4350					4D-4503				
6.990	430.660	453							3S-9896				
6.990	446.800								149-2695				
6.990	468.760	456							8T-4811				
6.990	481.460	457							5D-1071				
6.990	494.160	458		6V-5060					2D-8363				
6.990	520.070								5P-2587				
6.990	532.260	460							3D-8241			143-6387	
6.990	564.500												
6.990	582.680	462							2D-8364				
6.990	608.080	473							5D-6428				
7.000	79.000							118-3125					
7.000	89.000							125-9697					
7.000	97.500									140-0178			
7.000	99.000							118-2722					
7.000	102.250									140-0194			
7.000	106.000							135-7937					
7.000	145.400								2Y-8252				
7.000	158.120									140-0240			
7.000	234.300				175-5075								
7.160	18.470			139-6123								5P-2428	
7.980	76.960										1L-7548		

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO-CARBON (75)	FLUORO-CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY-ACRYLIC (75)	SILICONE (70)	URETHANE (90)
8.000	216.200								8T-6690				
8.400	149.500							113-2073					
8.400	154.500									095-1636			
8.400	164.500									095-1637			
8.400	176.400									095-1638			
8.400	179.500									095-1639			
8.400	184.500									095-1640			
8.400	189.500								095-1565				
8.400	194.500									095-1641			
8.400	199.500								095-1566	096-0035			
8.400	209.500									099-4846			
8.400	214.500								095-1567				
8.400	229.500									096-0036			
8.400	234.500									095-1642			
8.400	239.500									096-2163			
8.400	249.500								095-1568	095-1643			
8.400	264.500									096-0037			
8.400	284.500									095-1644			
8.400	289.500								095-1569			8F-6149	
8.400	319.500												
8.400	384.500								095-1570	096-2162			
8.400	384.500	473							095-1570				
8.480	78.380								3H-4066				
8.640	100.790												
8.790	28.170								5H-4196				
8.790	37.340								8F-2691				
9.000	80.000							093-1341					
9.000	96.000							093-1342					
9.470	48.340						8P-7003					7T-4087	
9.470	60.340						6P-8912					7T-1094	
9.470	66.090						1M-3097					2S-2181	
9.470	70.340						8P-0021					7T-1093	
9.470	76.340						8H-2262					9M-9730	
9.470	92.280						8H-2265					8S-5653	

Seals / O-Rings

CROSS SECTION DIA. (MM)	SEAL INSIDE DIA. (MM)	DASH SIZE	EPDM (70)	FLUORO- CARBON (75)	FLUORO- CARBON (90)	HNBR (72)	NBR NITRILE (60)	NBR NITRILE (70)	NBR NITRILE (75)	NBR NITRILE (90)	POLY- ACRYLIC (75)	SILICONE (70)	URETHANE (90)
9.470	102.340						6H-1309					3P-1847	
9.470	127.740											5P-2499	
9.520	70.100								1H-7683				
9.520	196.850								3K-1516				
10.000	124.700							107-9976					
10.000	140.000							093-1344					
10.000	155.000							093-1345					
10.000	175.000							093-1349					
10.000	200.000							093-1347					
10.000	230.000							101-2154					
11.430	300.610						9M-6097						
11.430	326.000						4V-4884						
12.700	147.470											3N-0801	
12.700	147.470											5P-3401	
12.700	164.470						7M-0475						
12.700	184.950						2M-0344					3N-0759	
12.700	224.900						1M-9011					5P-1606	
12.700	232.800											9W-6612	
12.700	262.690						4K-0173						
12.700	265.000						4M-0660					5P-1608	
12.700	280.030						7T-2457						
12.700	280.030						7T-2457						
12.700	317.130						4M-0736					3P-1849	
12.700	341.750								6V-2361				
12.700	353.000								6V-2362				
12.700	364.030											9W-5976	
12.700	424.650											9W-6613	
12.700	498.630											5P-8403	
12.700	660.390											6V-2305	
12.700	820.580											6Y-8213	
14.280	650.000						9J-0818						
15.880	600.000						6A-4503						
15.880	660.400						5P-3228						
15.880	751.840						8J-3699						



O-Ring Measuring Cone

- Designed to measure SAE industry standard O-Ring dimensions by cross section and dash size.
- Made of high impact, yellow plastic with 65 steps indicating the varying inside diameters.
- Contains a round base with five industry standard O-Ring cross section diameters cut into the edge.
- Makes finding the correct O-Ring replacement easier and faster.

ITEM	PART NUMBER
O-Ring Measuring Cone	9U-5155



O-Ring Seal Kits

- Include frequently used O-Ring sizes, reducing the need to order individual seals.
- Come in individual compartments with a rugged plastic container that latches shut for protection.
- Exceed SAE and other seal specifications, ensuring longer life and lower costs per hour.

KIT PART NUMBER	SEAL TYPE	CONSIST	APPLICATION
4C-4782	O-Ring Seal	32 Sizes, 580 Seals (Nitrile, 90 Duro)	SAE STOR and ORFS Fittings, SAE Code 61 and Code 62 Flanges
4C-5859	O-Ring Seal	8 Sizes, 120 Seals (Nitrile, 90 Duro)	SAE ORFS Fittings
9S-3135	O-Ring Seal	6 Sizes, 60 Seals (Nitrile, 90 Duro)	SAE Code 61 and Code 62 Flanges
4C-4784	Rectangular Seal	9 Sizes, 80 Seals (Nitrile, 90 Duro)	Cat Flanges
4C-4788	O-Ring Seal	10 Sizes, 125 Seals (Nitrile, 90 Duro)	Metric Fittings
9U-7804	O-Ring Seal	8 Sizes, 120 Seals (Nitrile, 75 Duro)	Air Conditioning Fittings (R134 Compatible)
4C-8253	O-Ring Seal	32 Sizes, 149 Seals (Silicone, 70 Duro)	Low-Pressure, High-Temperature Applications

Seals / O-Ring Materials

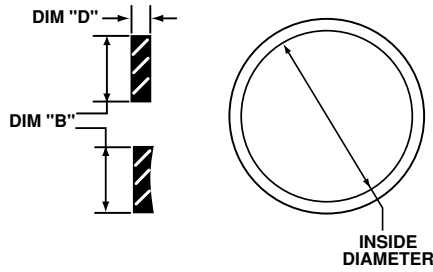
MATERIAL	HARDNESS	TEMP.	COMPATIBLE WITH	APPLICATIONS	NOT COMPATIBLE WITH
Ethylene Propylene Diene Modified (70) (EPDM)	70 Durometer	-55° – 135° C -67° – 275° F	Alcohols Automotive brake fluids Hot, cold water Ketones Ozone and sunlight Phosphate ester fluids Silicone fluids Some dilute acids Steam (200 Degree C max) Steam (400 Degree F max)	Ebullient cooled engine cooling systems	Aromatic fuels Diester lubricants Petroleum fluids
Fluorocarbon (75) (FKM)	75 Durometer	-40° – 175° C -40° – 350° F	Diester lubricants Halogenated hydrocarbons (above 100 Deg. C) Highly resistant to compression set Petroleum fluids Phosphate ester fluids Silicone fluids Some acids	High temperature applications requiring resistance to air, fuels, lubricants and hydraulic fluids	Amines Brake fluids Engine Coolant Fire Resistant Fluids Ketones Steam Water
Fluorocarbon (90) (FKM)	90 Durometer	-40° – 175° C -40° – 350° F	Diester lubricants Halogenated hydrocarbons (above 100 Deg. C) Highly resistant to compression set Petroleum fluids Phosphate ester fluids Silicone fluids Some acids	High pressure, high temperature applications requiring resistance to air, fuels, lubricants and hydraulic fluids ORFS, STORS seals	Amines Brake fluids Engine Coolant Fire Resistant Fluids Ketones Steam Water

Seals / O-Ring Materials

MATERIAL	HARDNESS	TEMP.	COMPATIBLE WITH	APPLICATIONS	NOT COMPATIBLE WITH
Highly Saturated Nitrile (78) (HNBR)	78 Durometer	-40° – 121° C -40° – 275° F	Abrasion resistant Diesel fuels Diester lubricants Ozone Petroleum oils, greases Refrigerant HFC - 134a (Non-Freon) Silicone fluids Steam Water base engine coolants	Automotive air conditioner seals High temperature flex boot seals High temperature power steering seals Higher temperature hydraulic seals Middle cylinder liner seals	Aromatic and oxygenated gasolines Automotive and aircraft brake fluids Chlorinated hydrocarbons Ethers Ketones Phosphate ester fluids
Nitrile (60)	60 Durometer	-40° – 100° C -40° – 212° F	Alpha-Olefin base synthetic lubricants Ethylene Glycol Petroleum base lubricants Silicone oils and greases Water, water base engine coolants	Ambient temperature fuel handling High and low pressure LPG service Hydraulic fluids Power steering seals Radiator thermostat seals	Automotive and aircraft brake fluids High levels of ozone Ketones Phosphate ester fluids UV Light
Nitrile (70)	70 Durometer	-40° – 100° C -40° – 212° F	Alpha-Olefin base synthetic lubricants Ethylene Glycol Hydrocarbon fuels Petroleum base lubricants Silicone oils and greases Water, water base engine coolants	Ambient temperature fuel handling High and low pressure LPG service Hydraulic fluids Power steering seals Radiator thermostat seals	Acetone Automotive and aircraft brake fluids Chlorinated hydrocarbons High levels of ozone Ketones Nitro hydrocarbons Phosphate ester fluids Strong acids UV light

Seals / O-Ring Materials

MATERIAL	HARDNESS	TEMP.	COMPATIBLE WITH	APPLICATIONS	NOT COMPATIBLE WITH
Nitrile (90)	90 Durometer	-40° – 100° C -40° – 212° F	Abrasion resistant Alpha-Olefin base synthetic lubricants Ethylene Glycol Hydrocarbon fuels Petroleum base lubricants Silicone oils and greases Water, water base engine coolants ORFS, STORS seals	Ambient temperature fuel handling High and low pressure LPG service Hydraulic fluids (to 10,335 kPa/1500 psi) Power steering seals Radiator thermostat seals	Automotive and aircraft brake fluids High levels of ozone Ketones Phosphate ester fluids Strong acids UV light
Polyacrylic (75) (ACM)	75 Durometer	-12° – 135° C +10° – 275° F	Excellent resistance to oxidation Excellent resistance to ozone Excellent resistance to sunlight & UV light Petroleum base fluids Transmission fluids Type "R" power steering fluid	Power steering seals Transmissions	Aromatic hydrocarbons Brake fluids Chlorinated hydrocarbons Ethylene Glycol Methanol Other alcohols Phosphate ester fluids Water or steam
Silicone (70)	70 Durometer	-46° – 150° C -50° – 300° F	Air Diacetone alcohol Ethylene glycol Extreme high/low temperatures High aniline point oil Iso-butyl alcohol Ozone & UV light Polyglycol	Electrical system seals High temperature air seals High temperature static grease seals	Acetone Aromatic hydrocarbons EP oil Fuel oil Gasoline Ketones Low aniline point oils Petroleum oils Steam & hot water
Urethane (90)	90 Durometer	-40° – 93° C -40° – 200° F	Ozone Petroleum base lubricants and hydraulic fluids/fuels UV light	Brake seals Hydraulic cylinder seals	Water Water base hydraulic fluids



Backup Rings

DASH SIZE	DIMENSION "B" RADIAL HEIGHT (MM)	RING INSIDE DIAMETER (MM)	DIMENSION "D" AXIAL WIDTH (MM)	PART NUMBER	MATERIAL TYPE
	1.00	11.00	0.60	115-6880	PTFE 55 (Duro Hardness)
	1.10	7.30	0.70	115-9530	Plastic
	1.22	6.60	1.30	147-6604	PTFE 65 (Duro Hardness)
		8.20	1.30	147-6605	PTFE 65 (Duro Hardness)
		196.83	3.02	126-4040	PTFE 65 (Duro Hardness)
		241.30	3.02	126-4004	PTFE 65 (Duro Hardness)
	1.26	12.57	1.55	156-2850	PTFE 60 (Duro Hardness)
	1.27	32.20	1.24	085-7530	PTFE 55 (Duro Hardness)
	1.35	5.94	1.23	126-5984	Plastic
		6.30	1.42	4T-5070	PTFE 65 (Duro Hardness)
		6.75	1.23	126-5985	Plastic
		7.90	1.42	4T-5071	PTFE 65 (Duro Hardness)
-011	1.35	8.31	1.19	187-3513	Nitrile Rubber 90 (Duro Hardness)
	1.35	8.31	1.23	3E-6017	PTFE 65 (Duro Hardness)
		9.72	1.23	6E-0381	PTFE 55 (Duro Hardness)
		9.90	1.23	030-0167	PTFE 65 (Duro Hardness)
		9.91	1.23	109-6925	Plastic
		11.56	0.74	179-7257	PTFE 65 (Duro Hardness)
		13.16	0.74	161-6161	PTFE 65 (Duro Hardness)
		13.16	1.22	100-7000	PTFE 55 (Duro Hardness)
		13.16	1.22	6V-6923	PTFE 55 (Duro Hardness)
		13.16	1.23	109-6926	Plastic
		14.73	0.74	169-1616	PTFE 65 (Duro Hardness)
		14.73	1.22	6V-6924	PTFE 55 (Duro Hardness)
		16.33	0.74	169-1617	PTFE 65 (Duro Hardness)
		16.33	0.74	161-6160	Plastic
		16.33	1.23	109-6927	Plastic
		21.08	1.23	4T-4953	Plastic
		22.68	1.25	9T-1243	PTFE 55 (Duro Hardness)
		24.38	1.23	9T-4518	PTFE 65 (Duro Hardness)
-022	1.35	25.68	1.19	115-9864	Nitrile Rubber 90 (Duro Hardness)
-023	1.35	27.43	1.19	115-9865	Nitrile Rubber 90 (Duro Hardness)
	1.40	9.20	0.50	117-0355	PTFE 55 (Duro Hardness)
		11.10	0.71	187-0541	PTFE 65 (Duro Hardness)
		11.20	0.50	117-0357	PTFE 55 (Duro Hardness)
		12.74	0.69	185-2327	PTFE 65 (Duro Hardness)

Seals / Backup Rings

DASH SIZE	DIMENSION "B" RADIAL HEIGHT (MM)	RING INSIDE DIAMETER (MM)	DIMENSION "D" AXIAL WIDTH (MM)	PART NUMBER	MATERIAL TYPE
	1.40	13.20	0.70	192-7118	PTFE 55 (Duro Hardness)
		15.20	0.50	117-0353	PTFE 55 (Duro Hardness)
		16.00	0.69	9J-6367	PTFE 60 (Duro Hardness)
		28.40	1.40	179-4177	Plastic
		36.20	1.40	179-4178	Plastic
	1.45	11.40	1.00	149-4076	Plastic
		13.00	1.00	149-4077	Plastic
		13.10	1.40	179-4176	Plastic
	1.50	10.00	1.00	117-0356	PTFE 55 (Duro Hardness)
	1.60	6.25	1.23	186-2488	PTFE 65 (Duro Hardness)
		11.00	1.23	186-2487	PTFE 65 (Duro Hardness)
	1.75	24.50	0.60	180-7460	PTFE 65 (Duro Hardness)
	1.90	26.20	0.60	180-7459	PTFE 65 (Duro Hardness)
	1.99	11.27	1.52	6E-0382	PTFE 55 (Duro Hardness)
	2.00	26.00	1.52	6E-5662	PTFE 65 (Duro Hardness)
		29.20	1.52	6E-5663	PTFE 65 (Duro Hardness)
	2.10	21.80	1.00	115-7764	PTFE 55 (Duro Hardness)
	2.18	9.91	1.23	117-3584	PTFE 55 (Duro Hardness)
		11.48	1.23	117-3581	PTFE 55 (Duro Hardness)
		14.64	1.23	9T-1862	Plastic
		14.65	1.23	101-1983	PTFE 65 (Duro Hardness)
		15.47	1.22	9T-3342	Plastic
		16.26	0.74	194-3871	PTFE 65 (Duro Hardness)
		17.40	1.52	4T-5072	PTFE 65 (Duro Hardness)
		17.83	0.74	194-3872	PTFE 65 (Duro Hardness)
		19.43	0.74	194-3873	PTFE 65 (Duro Hardness)
-117	2.18	21.11	1.19	5P-7857	Nitrile Rubber 90 (Duro Hardness)
	2.18	22.30	1.52	4T-5073	PTFE 65 (Duro Hardness)
		23.88	1.52	4T-6977	PTFE 65 (Duro Hardness)
-119	2.18	24.28	1.19	5P-7858	Nitrile Rubber 90 (Duro Hardness)
	2.18	25.48	1.52	4T-5074	PTFE 65 (Duro Hardness)
-121	2.18	27.46	1.19	183-9524	Nitrile Rubber 90 (Duro Hardness)
	2.18	29.08	1.23	1U-4835	PTFE 55 (Duro Hardness)
-123	2.18	30.63	1.19	183-9525	Nitrile Rubber 90 (Duro Hardness)
	2.18	36.63	1.52	4T-5075	PTFE 65 (Duro Hardness)
		44.50	1.52	6E-5418	PTFE 65 (Duro Hardness)
		47.67	1.52	6E-5417	PTFE 65 (Duro Hardness)
		48.08	1.19	183-9523	Nitrile Rubber 90 (Duro Hardness)
		52.45	1.52	6E-5416	PTFE 55 (Duro Hardness)
-164	2.18	159.21	1.14	177-1812	Nitrile Rubber 90 (Duro Hardness)
	2.20	30.60	1.50	193-4727	PTFE 55 (Duro Hardness)
	2.21	31.83	1.57	9T-1558	PTFE 65 (Duro Hardness)
	2.40	35.20	1.00	179-9014	PTFE 65 (Duro Hardness)
		127.73	1.09	173-3237	PTFE 65 (Duro Hardness)
	2.44	328.05	0.00	122-0440	Urethane 90 (Duro Hardness)

Seals / Backup Rings

DASH SIZE	DIMENSION "B" RADIAL HEIGHT (MM)	RING INSIDE DIAMETER (MM)	DIMENSION "D" AXIAL WIDTH (MM)	PART NUMBER	MATERIAL TYPE
	2.45	22.20	1.40	192-7114	PTFE 55 (Duro Hardness)
	2.58	35.88	1.22	170-2415	PTFE 65 (Duro Hardness)
	2.58	76.55	1.09	175-7908	PTFE 65 (Duro Hardness)
		114.41	1.09	175-7914	PTFE 65 (Duro Hardness)
		120.76	1.09	175-7915	PTFE 65 (Duro Hardness)
	2.65	16.30	1.23	3G-5233	PTFE 65 (Duro Hardness)
	2.68	63.0	1.40	180-5049	Plastic
	2.77	41.35	1.57	8J-5472	PTFE 55 (Duro Hardness)
		44.53	1.58	8J-3817	PTFE 55 (Duro Hardness)
	2.90	75.92	1.09	8J-2574	Urethane 90 (Duro Hardness)
		134.30	1.09	8C-3847	Nylon
		183.40	1.00	4T-3107	Urethan 90 (Duro Hardness)
		208.60	1.00	1U-1101	Urethan 90 (Duro Hardness)
		259.20	1.00	3G-6857	Urethane 90 (Duro Hardness)
		271.80	1.09	9X-4596	Urethane 90 (Duro Hardness)
	2.98	22.40	1.27	179-0795	PTFE 65 (Duro Hardness)
-228	3.00	57.71	1.09	9X-7552	Nitrile Rubber 90 (Duro Hardness)
-263	3.00	84.61	1.09	5P-3235	Nitrile Rubber 90 (Duro Hardness)
	3.00	99.70	1.09	168-2271	Urethane 90 (Duro Hardness)
		114.00	3.00	144-0243	Nylon
-265	3.00	197.31	1.09	5J-6444	Nitrile Rubber 90 (Duro Hardness)
	3.02	27.38	1.23	9T-3340	Plastic
		19.45	1.23	183-8068	PTFE 65 (Duro Hardness)
		25.81	1.22	9T-0118	PTFE 55 (Duro Hardness)
		41.28	1.57	4T-5076	PTFE 65 (Duro Hardness)
		44.48	1.52	3G-9725	Nylon
		45.00	1.22	6V-6793	PTFE 60 (Duro Hardness)
		104.83	1.17	6D-6783	PTFE 55 (Duro Hardness)
	3.10	79.8	4.60	125-7002	Plastic
		127.00	1.25	111-8817	PTFE 55 (Duro Hardness)
	3.92	131.46	1.52	148-6560	PTFE 65 (Duro Hardness)
		156.86	1.52	149-2092	PTFE 65 (Duro Hardness)
	4.01	258.63	1.73	7X-4757	Nylon
	4.10	48.00	1.30	195-2996	Nitrile Rubber 90 (Duro Hardness)
	4.12	150.51	1.52	162-7209	PTFE 60 (Duro Hardness)
		169.56	2.02	162-7210	PTFE 60 (Duro Hardness)
	4.17	169.57	1.78	8J-1666	Nylon
	4.22	200.91	1.78	8J-8827	Nylon
	4.30	129.91	1.52	8J-1689	Urethane 90 (Duro Hardness)
		174.25	1.50	1U-1738	Urethane 90 (Duro Hardness)
		224.75	1.52	1U-3173	Urethane 90 (Duro Hardness)
		243.75	1.52	1U-3307	Urethane 90 (Duro Hardness)
		256.40	1.52	1U-1770	Urethane 90 (Duro Hardness)
		281.70	1.50	1U-1626	Urethan 90 (Duro Hardness)
		300.64	1.50	8T-6926	Urethane 90 (Duro Hardness)

Seals / Backup Rings

DASH SIZE	DIMENSION "B" RADIAL HEIGHT (MM)	RING INSIDE DIAMETER (MM)	DIMENSION "D" AXIAL WIDTH (MM)	PART NUMBER	MATERIAL TYPE
		307.00	1.52	1U-3383	Urethan 90 (Duro Hardness)
		312.40	1.50	121-4161	Nitrile Rubber 90 (Duro Hardness)
	4.30	352.00	1.52	4T-4127	Urethane 90 (Duro Hardness)
		415.50	1.52	151-8413	Urethane 90 (Duro Hardness)
	4.32	199.52	1.52	3G-3747	Urethane 90 (Duro Hardness)
	4.35	205.65	2.44	108-0122	Urethane 90 (Duro Hardness)
		265.52	2.44	108-0129	Urethane 90 (Duro Hardness)
	4.60	118.20	1.50	9X-7279	Urethane 90 (Duro Hardness)
-346	4.65	105.49	1.65	8J-3752	Nitrile Rubber 90 (Duro Hardness)
	4.65	111.84	1.52	9X-7278	Urethane 90 (Duro Hardness)
		167.28	1.52	9X-7273	Urethane 90 (Duro Hardness)
		338.80	1.52	9X-4595	Urethane 90 (Duro Hardness)
	4.75	127.00	2.75	184-0844	PTFE 65 (Duro Hardness)
	4.76	140.49	2.44	184-0843	PTFE 65 (Duro Hardness)
	5.00	35.00	3.00	153-8586	PTFE 55 (Duro Hardness)
		40.00	3.00	153-8584	PTFE 55 (Duro Hardness)
		140.00	2.50	111-8816	PTFE 55 (Duro Hardness)
	5.40	450.00	2.40	149-2696	Urethane 90 (Duro Hardness)
	5.80	170.00	2.50	180-5050	Plastic
-440	6.00	172.06	2.61	065-7978	Nitrile Rubber 90 (Duro Hardness)
	6.00	353.20	2.45	4T-5929	Urethane 90 (Duro Hardness)
	6.23	220.89	2.40	3E-6783	Urethane 90 (Duro Hardness)
		227.20	2.40	3E-6784	Urethane 90 (Duro Hardness)
	6.25	239.20	2.40	121-4160	Nitrile Rubber 90 (Duro Hardness)
		315.48	2.44	120-5350	Urethane 90 (Duro Hardness)
	6.40	265.00	2.40	3E-6795	Urethane 90 (Duro Hardness)
	7.06	56.69	2.82	170-6712	PTFE 65 (Duro Hardness)
	8.45	63.68	4.00	8C-9140	Urethane 90 (Duro Hardness)
	9.09	101.19	4.27	7J-3864	Urethane 90 (Duro Hardness)
		126.59	4.27	9J-2548	Urethane 90 (Duro Hardness)
		139.29	4.27	8J-9450	Urethane 90 (Duro Hardness)
		154.86	4.27	7J-3866	Urethane 90 (Duro Hardness)
		183.75	4.27	4T-4804	Urethane 90 (Duro Hardness)
		190.09	4.27	7J-3867	Urethane 90 (Duro Hardness)
		196.45	4.27	121-4166	Urethane 90 (Duro Hardness)
		215.49	4.27	8J-9916	Urethane 90 (Duro Hardness)
		221.85	4.27	6E-0251	Urethane 90 (Duro Hardness)
		266.29	4.27	4T-4807	Urethane 90 (Duro Hardness)
		279.02	4.27	115-4699	Urethane 90 (Duro Hardness)
	9.16	292.45	3.90	121-4164	Urethane 90 (Duro Hardness)
		317.85	3.90	115-2136	Urethane 90 (Duro Hardness)
	10.08	164.69	5.64	9J-1186	Urethane 90 (Duro Hardness)
	11.43	129.72	3.05	3G-6536	Nylon
	14.25	238.28	3.05	7J-9062	Nylon

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SERVICE AND REPAIR KITS

Service and Repair Kits

Kit Definition

- A group of parts engineered for specific applications, packaged together, and ordered as a single part number.

Service & Repair Kits

Engine Gasket Kits

- Service repair kits designed for rebuild or repair of Caterpillar engines
- Kits contain all “soft” parts required for the specific rebuild or repair
- Primary components are gaskets and seals

Power Train Bearing Kits & Gasket Kits

- Service repair kits designed for rebuild and repair of Caterpillar transmissions, differentials, torque converters, and wheel/final drives
- Kits contain internal wear components such as bearings, thrust discs, and bushings
- Differential and wheel/final drive kits contain the necessary gaskets and seals
- Corresponding gasket kits are available for transmission and torque converter bearing kits

Hydraulic Seal Kits

- Service repair kits designed for rebuild or re-sealing of Caterpillar hydraulic cylinders
- Kits contain various seals and wear rings
- Kits are available in standard and 0.030" honed oversize

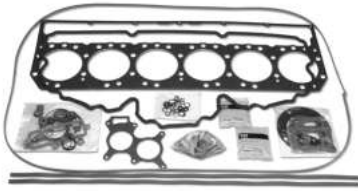
Finding Service & Repair Kits

It is not possible to list all kits and their usage because:

- Engine gasket kits are engine arrangement and serial number specific
- Power Train bearing and gasket kits are vehicle PIN specific. Transmissions and torque converters are arrangement and serial number specific, also.
- Hydraulic Cylinder seal kits are cylinder group and engineering change level specific
- Component changes lead to frequent updates to kit consists and kit part numbers

Sources to find up to date kit part numbers for specific applications:

- Service Information System (SIS)
 - Engine gasket kits
 - Power Train bearing and gasket kits
 - Hydraulic Cylinder seal kits
- Engine Technical Marketing Information (TMI)
 - Engine gasket kits
 - Power Train bearing and gasket kits (in TMI host version only)
- Hydraulic Information System (HIS)
 - Hydraulic Cylinder seal kits



Engine Gasket Kits

Upper Structure Area

- Multiple Cylinder Head
- Single Cylinder Head
- Single Fuel Injector*
- Exhaust Manifold
- Turbocharger and Lines Install
- Aftercooler and Lines Install

Cylinder Block & Oil Pan Area

- Single Cylinder Liner
- Oil Pump Install
- Central and Lower Structure

Front Cover and Housing Area

- Front Structure

Rear Cover and Housing Area

- Rear Structure

Fuel System and Lines Area

- Fuel System

Water Pump Gasket Kits

- Water Pump Install
- Auxiliary Water Pump Install
- Water Pump Rebuild
- Auxiliary Water Pump Rebuild

Accessory Groups

- Oil Cooler and Lines Install
- Water Lines Group Install
- Expansion Tank/Heat Exchanger Install
- Air Compressor Install
- BrakeSaver Gasket

* Injector seals are not included in Cylinder Head Kits.
See Jan 2000 Service Letter SEBD6731-00.

Service and Repair Kits



Power Train Bearing Kits

- Powershift Transmission
- Direct Drive Transmission
- Bevel & Gear
- Output Transfer Gear
- Torque Converter
- Differential & Gear
- Final Drive
- Wheel/Final Drive/Brake
- Final Drive & Wheel
- Planetary & Axle
- Front Wheel & Brake

Power Train Kits

Power Train Gasket Kits

- Transmission Parts & Case
- Planetary Transmission
- Transmission Hydraulic Control
- Bevel/Input Transfer Gear
- Output Transfer Gear
- Transmission Manifold & Screen
- Transmission Pump
- Transmission Filter
- Power Train Oil System
- Transmission Overhaul
- Hydrostatic Case Gp
- Hydrostatic Control
- Hydrostatic Case & Lines
- Power Control Valve Cylinder
- Replenishment Valve
- HPCU Overhaul
- Torque Converter



Hydraulic Kits

Hydraulic Cylinder Seal Kits

- Standard Size
- Oversize 0.030" (0.76 mm)

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TIRES

Tires

Cat Tires Drive Performance

Caterpillar is known for offering high quality, high performance, and durability in every piece of equipment we offer. And Cat tires are no exception. Caterpillar understands the challenging conditions and work requirements facing skid steer operators. That's why Caterpillar offers a tire line that allows customers to work efficiently in almost every application.

Tires play a key role in productivity. They must be stable, yet agile; durable, yet economical. As one of the highest volume replacement parts of a skid steer loader, a tire's wear life directly affects operating costs and profitability. And tire choices affect the world in which we live today.

The expanded line of Cat tires reflects extensive research and engineering expertise that only Caterpillar can deliver. No matter what the application, there is a Cat tire that will improve your productivity.



Premium Conventional

Cat Premium Conventional tires are engineered to deliver the trademark Caterpillar durability — which says a lot. Equipped with the industry's deepest tread depth, thickest side wall (on a premium conventional model), and heaviest rim guard, Cat tires outperform the competition.

Advantages

- Self-cleaning, open tread design for reduced maintenance time
- Extra-large, tapered lugs improve traction and extend wear life
- Dual side wall construction for puncture and tear protection
- An advanced blend of natural and synthetic rubber and a reinforced bead area for maximum wear life
- Heavy rim guard reduces potential for damage to tire bead and wheel flange

TIRE SIZE TIRE WIDTH X WHEEL DIAMETER ITEM #	LOAD RATING	RIM WIDTH in (mm)	SECTION WIDTH in (mm)	OUTSIDE DIA. in (mm)	MAX. INFLATION psi (kPa)	SUGGESTED INFLATION psi (kPa)	MAX. LOAD lb (kg)	TIRE WEIGHT lb (kg)	TREAD DEPTH in (mm)	TIRE TREAD CODE
		INFLATED DIMENSIONS			LOAD SPEC @ 5 mph					
Skid Steer										
10 x 16.5 NHS 185-9932	8 ply	8.25 (210)	10.70 (272)	30.90 (785)	60 (413)	45 (310)	4140 (1880)	52.5 (24)	24/32 (19)	R-4
12 x 16.5 NHS 185-9933	10 ply	9.75 (248)	12.30 (312)	33.00 (838)	65 (448)	45 (310)	5600 (2542)	77.5 (35)	26/32 (21)	R-4
Telehandler										
13.00-24 TG NHS 208-8513	12 ply	9.00 (229)	14.20 (361)	54.82 (1392)	65 (448)	58 (400)	12,300 (5584)	161.0 (73)	29/32 (23)	G-2
14.00-24 TG NHS 208-8514	12 ply	9.00 (229)	15.39 (391)	54.82 (1392)	62 (427)	54 (372)	13,900 (6311)	203.0 (92)	32/32 (25)	G-2
14.00-24 TG NHS 208-8515	16 ply	9.00 (229)	15.39 (391)	54.82 (1392)	80 (551)	73 (503)	16,100 (7309)	225.0 (102)	32/32 (25)	G-2
15.00-25 TG NHS 208-8512	12 ply	12.00 (305)	16.74 (425)	51.82 (1316)	58 (400)	54 (372)	12,300 (5584)	195.0 (89)	29.8/32 (24)	G-2/L-2
Backhoe Loader										
12.5 x 18 216-9111	10 ply	9.00 (229)	12.00 (305)	38.80 (986)	46 (320)	40 (276)	4710 (2138)	85.0 (39)	31/32 (25)	I-3
16.9 x 28 216-9113	12 ply	15.00 (381)	17.40 (442)	54.60 (1,387)	38 (262)	33 (227)	7600 (3450)	187.0 (85)	34/32 (27)	R-4
18.4 x 26 216-9112	12 ply	16.00 (406)	18.80 (478)	55.80 (1,417)	32 (220)	28 (193)	8800 (3995)	217.0 (99)	35/32 (28)	R-4

Tires



Premium Conventional Flotation

For work in soft underfoot conditions such as at a nursery, in sand, or some landscape sites, use Cat Premium Conventional Flotation tires. The flotation design can replace the use of tracks in some applications. Cat Premium Conventional Flotation tires are constructed with the same rugged durability as Cat Premium Conventional tires, but are engineered specifically to create low ground pressure.

Advantages

All the advantages of premium conventional tires plus:

- Wider footprint for better load distribution
- Stable ride in soft underfoot conditions without sinking
- Heavier, 12-ply rating for greater load carrying capacity

TIRE SIZE TIRE DIAMETER X TIRE WIDTH X WHEEL DIAMETER CAT PART #	LOAD RATING	RIM WIDTH in (mm)	SECTION WIDTH in (mm)	OUTSIDE DIA. in (mm)	MAX. INFLATION psi (kPa)	SUGGESTED INFLATION psi (kPa)	MAX. LOAD lb (kg)	TIRE WEIGHT lb (kg)	TREAD DEPTH in (mm)	TIRE TREAD CODE
INFLATED DIMENSIONS				LOAD SPEC @ 5 mph						
Skid Steer										
31 x 15.5 x 16.5 NHS 199-5436	8 ply	12.00 (305)	15.00 (394)	31.00 (787)	35 (241)	30 (207)	4480 (2034)	62.0 (28)	24/32 (19)	HF-3
33 x 15.5 x 16.5 NHS 199-5440	12 ply	12.00 (305)	15.00 (394)	33.00 (838)	55 (379)	45 (310)	6490 (2946)	85.0 (39)	26/32 (21)	HF-3



Low Side Wall (LSW)

For applications in rough underfoot conditions, Caterpillar LSW technology offers a smooth, stable ride. Its unique design allows use on a flat — usually until the end of a shift when repair time doesn't cut into production time. The strength of the side wall is the key to this tire's performance. It is achieved by combining a lower profile, considerably thicker side wall, and a unique flange and bead design. The bead resists becoming unseated from the flange after a puncture as it does with most premium conventional tires, thus reducing costly downtime.

Advantages

- Self-cleaning, open tread design for reduced maintenance time
- Extra-large, tapered lugs for traction in slippery conditions and maximum wear life
- An advanced blend of natural and synthetic rubber and a reinforced bead area for maximum wear life
- Smooth, stable ride on uneven work surfaces
- Reduced impact and side wall damage due to the heaviest and largest rim guard in the industry and extra rubber that makes the side wall up to three times heavier than other tires
- Higher carcass strength for greater resistance to impact failures and other abusive treatment
- Available in polyurethane fill for flat prevention

TIRE SIZE TIRE WIDTH X WHEEL DIAMETER CAT PART #	LOAD RATING	RIM WIDTH in (mm)	SECTION WIDTH in (mm)	OUTSIDE DIA. in (mm)	MAX. INFLATION psi (kPa)	SUGGESTED INFLATION psi (kPa)	MAX. LOAD lb (kg)	TIRE WEIGHT lb (kg)	TREAD DEPTH in (mm)	TIRE TREAD CODE
		INFLATED DIMENSIONS			LOAD SPEC @ 5 mph					
Skid Steer										
10 x special 265 x 521 185-9934	8 ply	8.50 (216)	10.20 (259)	31.20 (792)	60 (413)	45 (310)	4140 (1880)	57.5 (26)	24/32 (19)	R-4
12 x special 305 x 546 185-9935	10 ply	9.75 (248)	11.80 (300)	33.50 (851)	65 (448)	45 (310)	5600 (2542)	77.4 (35)	26/32 (21)	R-4
Telehandler*										
LSW 330-851 208-8662	12 ply	10.00 (254)	13.00 (330)	51.90 (1318)	65 (448)	45 (310)	12,300 (5584)	168.0 (76)	29/32 (23)	G-2/L-2

* Only for use with polyurethane fill

Tires



XD

The XD design is tough through and through. From the extra-deep tread and rugged side walls to the extra-large rim guard, the XD equips your skid steer loader to maneuver effectively in the most extreme applications. In fact, the features that make the XD so tough also make it 26 percent heavier. Concrete and demolition, quarries, and asphalt recycling jobs are just some of the rigorous environments where the XD is the clear choice.

Advantages

- Special compound assures long life and durability
- 40 percent deeper tread depth than Premium Conventional model ensures long tire life on rough terrain
- Less void between the tread lugs reduces wear by spreading it across a larger surface area
- Superior carcass strength allows the tire to bear up to 1,300 pounds more weight than competitive models
- Pneumatic ride in extreme conditions
- More than doubles tire life in extreme applications

TIRE SIZE TIRE WIDTH X WHEEL DIAMETER CAT PART #	LOAD RATING	RIM WIDTH in (mm)	SECTION WIDTH in (mm)	OUTSIDE DIA. in (mm)	MAX. INFLATION psi (kPa)	SUGGESTED INFLATION psi (kPa)	MAX. LOAD lb (kg)	TIRE WEIGHT lb (kg)	TREAD DEPTH in (mm)	TIRE TREAD CODE
		INFLATED DIMENSIONS			LOAD SPEC @ 5 mph					
Skid Steer										
10 x 16.5 NHS 222-3962	10 ply	8.25 (210)	10.40 (264)	30.60 (777)	65 (448)	40 (276)	4340 (1970)	81.0 (38)	44/32 (35)	L-5
12 x 16.5 NHS 222-3963	14 ply	9.75 (248)	12.30 (312)	32.70 (830)	65 (448)	50 (345)	5600 (2542)	105.0 (48)	44/32 (35)	L-5



Extreme Duty Solid — Flexport™

This solid tire has the capability of running on unimproved surfaces while delivering a more comfortable ride that doesn't sacrifice the strength supplied by a solid tire. Its innovative design features Flexport, a series of holes molded through the outer ring of the side wall. These ports result in greater tire flexibility for a more cushioned ride than solid tires. They also serve as a means of absorbing shock that would have otherwise been transferred to the machine and the operator.

Advantages

- Tread depth of 75/32" delivers excellent traction
- Less lops than pneumatic tires
- Long-wearing tread compound resists cutting and chunking
- Extremely stable on improved and unimproved surfaces
- Eliminates flats in the worst conditions
- Extra-large, tapered lugs for traction in slippery conditions and maximum wear life
- One-piece molded assembly eliminates the need for specialized tire service

Flexport White

- Non-marking, durability of a solid
- Eliminates flats in the worst conditions
- Excellent traction

All Flexport tire and wheel assembly units provided as one piece

TIRE SIZE TIRE DIAMETER X RUBBER THICKNESS X SECTION WIDTH CAT PART #	RIM WIDTH in (mm)	SECTION WIDTH in (mm)	OUTSIDE DIA. in (mm)	RUBBER THICK in (mm)	MAX. LOAD lb (kg)	TIRE WEIGHT lb (kg)	TREAD DEPTH in (mm)
Black							
31 x 6 x 10 226-3736, 226-3737	9.00 (229)	10.00 (254)	31.00 (787)	6.30 (160)	7530 (3419)	230.0 (104)	2.00 (51)
33 x 6 x 11 226-3734, 226-3735	10.50 (267)	11.00 (279)	33.00 (838)	6.20 (157)	8980 (4077)	275.0 (125)	2.30 (58)
Non-marking							
31 x 6 x 10 250-2275, 250-2276	9.00 (229)	10.00 (254)	31.00 (787)	6.30 (160)	7530 (3419)	230.0 (104)	2.00 (51)
33 x 6 x 11 250-2277, 250-2278	10.50 (267)	11.00 (279)	33.00 (838)	6.20 (157)	8980 (4077)	275.0 (125)	2.30 (58)

Tires



Flat Prevention

Reduce the #1 cause of downtime.

Tire Fill

The cost of flat tires really adds up. Beyond the frequent expense of repairing or replacing the tire, there's the lost productivity of the machine and, potentially, work interruption for other equipment as well. A polyurethane tire fill provides complete flat prevention for any pneumatic tire — nearly eliminating tire repair costs.

Tire fill also delivers other valuable advantages:

- Maximizes tire service hours by allowing multiple retreads
- Enhances shock absorption by evenly distributing the load throughout the tire carcass
- Delivers the ride of an air-filled tire
- Accommodates typical tire carcass growth with expansion capability

Mounted Assemblies

Cat tires enhance productivity with design innovations — and with the valuable option of purchasing your tires complete as mounted assemblies. This allows installation of the highest performance tires with the least amount of downtime and expense. It is an especially beneficial strategy for emergency field repairs. So you're back to work — and more productive — in no time. In addition to convenience and efficiency, mounted assemblies provide:

- A perfect, airtight fit
- Assurance of no bent rim flanges, wallowed bolt holes, or distorted pilot holes from previous use
- Compliance with OEM specifications

Cat Dealers and Cat tire retailers stock wheel types, sizes, and offsets to accommodate any Caterpillar model or most competitive models.

What Tire Best Fits My Needs?

Choosing the right tire for your skid steer loader is an important business decision. While price is an important factor, two of the most important factors to consider are the working environment and the application. The following charts should be used as a general guideline when selecting tires.

What is your working environment?

	Glass	Asphalt	Brushed Concrete	Smooth Concrete	Brick	Rock & Shale	Quarry	Scrap Yard	Sandstone	Gravel	Rocky Soil	Dry Soil	Wet Soil	Sandy Soil	Mud	Snow
Premium Conventional									■	■	■	■	■	■		
Premium Conventional Flotation										■	■	■	■	■	■	■
Low Side Wall						■	■	■	■	■	■	■	■	■		
XD			■	■	■	■	■	■	■	■	■	■				
Extreme Duty Solid — Flexport™	■	■	■	■	■	■	■	■	■	■	■					
Flexport™ White	■	■	■	■	■	■	■	■	■	■	■					■

What is your application?

	Loading	Load & Carry	Digging	Hammering	Dozing	Trenching	Landscaping	Industrial & Waste	Building & Framing	Curb & Rain Gutters	Quarry Cleanup	Pavement Profiling
Premium Conventional	■	■	■	■	■	■	■	■	■	■		
Premium Conventional Flotation							■	■	■			
Low Side Wall	■	■	■	■	■	■	■	■	■	■		
XD	■	■		■			■		■	■	■	■
Extreme Duty Solid — Flexport™	■	■		■			■	■	■	■	■	■
Flexport™ White	■						■		■	■		



Hand Tools



Socket Set, 17 Piece, 1/4 inch Drive 213-4443

- 12 point
- 1/4 inch square drive
- Standard length sockets
- Chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
3/16	9S-1711	0.88	22.2
7/32	9S-1712	0.88	22.2
1/4	9S-1713	0.88	22.2
9/32	9S-1714	0.88	22.2
5/16	9S-1715	0.88	22.2
11/32	9S-1716	0.88	22.2
3/8	9S-1717	0.88	22.2
7/16	9S-1718	0.88	22.2
1/2	9S-1719	0.88	22.2

ACCESSORIES INCLUDED		
PART NO.	DESCRIPTION	SIZE
9S-1720	Socket Extension	2.00 in (50.8 mm)
9S-1721	Socket Extension	4.00 in (101.6 mm)
9S-1722	Socket Driver	1/4 in
239-6823	Reversible Ratchet	1/4 in
9S-1724	Universal Joint	
213-4437	Adapter (not shown)	1/4 in female to 3/8 in male
261-0443	Adapter (not shown)	3/8 in female to 1/4 in male
9S-1725	Case	



Socket Set, 11 Piece, 3/8 inch Drive 9S-1746

- 12 point
- 3/8 inch square drive
- Chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
3/8	8S-2274	0.91	23.0
7/16	8H-8567	0.91	23.0
1/2	8H-8568	0.94	23.8
9/16	8H-8569	0.97	24.6
5/8	8H-8570	1.03	26.2
11/16	9S-1728	1.06	27.0
3/4	8H-8571	1.09	27.8

ACCESSORIES INCLUDED			
PART NO.	DESCRIPTION	SIZE (in)	SIZE (mm)
239-6824	Reversible Ratchet		
8H-8573	Speeder Handle		
8H-8574	Socket Extension	3.00	76.2
8H-8575	Socket Extension	6.00	152.4

For additional sockets see GECJ0001.



Twist Socket Set, 13 Piece, 3/8 inch Drive 241-0873

- SAE/Metric impact sockets quickly and easily remove damaged or rounded nuts and bolts
- 6 fluted sockets grip onto fastener and tighten as more torque is applied (no hammering required to install socket over fastener)
- Applications include oil pan drain plugs, exhaust manifold nuts, studs, pipe nipples, and corroded marine fasteners
- Shallow depth
- Fits sizes from 10 to 19 mm (3/8 to 3/4 inch)
- 3/8 inch square drive
- Standard length
- Industrial black finish
- Includes plastic tray, socket bar, and clips
- Can be ordered by set or individual

SIZE	PART NO.	LENGTH (in) (mm)	
10 mm	241-0860	1 1/4	31.8
12 mm	241-0861	1 1/4	31.8
13 mm	241-0862	1 1/4	31.8
14 mm	241-0863	1 1/4	31.8
15 mm	241-0864	1 1/4	31.8
17 mm	241-0865	1 1/4	31.8
3/8 in	241-0866	1 1/4	31.8
7/16 in	241-0867	1 1/4	31.8
1/2 in	241-0868	1 1/4	31.8
9/16 in	241-0869	1 1/4	31.8
5/8 in	241-0870	1 1/4	31.8
11/16 in	241-0871	1 3/8	34.9
3/4 in	241-0872	1 3/8	34.9



Socket Set, 16 Piece, 1/2 inch Drive 9S-1748

- 12 point
- 1/2 inch square drive
- Chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
1/2	1S-0259	1.50	38.1
9/16	8H-8549	1.50	38.1
5/8	8H-8550	1.50	38.1
11/16	8H-8551	1.50	38.1
3/4	8H-8552	1.50	38.1
13/16	8H-8553	1.50	38.1
7/8	8H-8554	1.50	38.1
15/16	8H-8555	1.50	38.1
1	8H-8556	1.50	38.1
1 1/16	9S-1729	1.63	41.3
1 1/8	9S-1730	1.75	44.5
1 1/4	9S-1731	1.88	47.6

ACCESSORIES INCLUDED			
PART NO.	DESCRIPTION	SIZE (in) (mm)	
239-6826	Reversible Ratchet		
168-0383	Breaker Bar		
8H-8559	Socket Extension	11.00	279.0
9S-1732	Socket Extension	5.00	127.0

Hand Tools



Impact Socket Set, 11 Piece, 1/2 inch Drive 213-3086

- 6 point
- 1/2 inch square drive
- Standard length sockets
- Black oxide finish
- Includes socket bar and clips

SIZE (in)	PART NO.	LENGTH (in) (mm)	
1/2	213-3087	1.50	38.1
9/16	213-3088	1.50	38.1
5/8	213-3089	1.50	38.1
11/16	213-3091	1.50	38.1
3/4	213-3094	1.50	38.1
13/16	213-3099	1.50	38.1
7/8	213-3102	1.50	38.1
15/16	213-3104	1.75	44.5
1	213-3107	1.75	44.5
1 1/16	213-3109	2.00	50.8
1 1/8	213-3110	2.00	50.8



Impact Socket Set, 12 Piece, 1/2 inch Drive 213-3515

- 6 point
- 1/2 inch square drive
- Deep length sockets
- Black oxide finish
- Includes socket bar and clips

SIZE (in)	PART NO.	LENGTH (in) (mm)	
7/16	213-3516	3.25	82.6
1/2	213-3517	3.25	82.6
9/16	213-3518	3.25	82.6
5/8	213-3520	3.25	82.6
11/16	213-3521	3.25	82.6
3/4	213-3522	3.25	82.6
13/16	213-3523	3.25	82.6
7/8	213-3524	3.50	88.9
15/16	213-3525	3.50	88.9
1	213-3526	3.50	88.9
1 1/16	213-3528	3.50	88.9
1 1/8	213-3530	3.50	88.9



Universal Socket Set, 7 Piece, 3/8 inch Drive 9S-1747

- 12 point
- 3/8 inch universal drive
- Polished chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
3/8	8S-2284	1.58	40.1
7/16	8H-8562	1.58	40.1
1/2	8H-8563	1.66	42.1
9/16	8H-8564	1.69	42.8
5/8	8H-8565	1.75	44.5
11/16	9S-1727	1.95	49.6
3/4	8H-8566	1.98	50.4



Universal Impact Socket Set, 7 Piece, $\frac{3}{8}$ inch Drive 261-8581

- 6 point
- $\frac{3}{8}$ inch square drive
- Includes socket bar and clips

SIZE (in)	PART NO.	LENGTH (in) (mm)	
$\frac{3}{8}$	261-8583	1.97	50.0
$\frac{7}{16}$	261-8585	1.97	50.0
$\frac{1}{2}$	261-8586	2.13	54.1
$\frac{9}{16}$	261-8587	2.19	55.6
$\frac{5}{8}$	261-8589	2.25	57.2
$\frac{11}{16}$	261-8590	2.53	64.3
$\frac{3}{4}$	261-8591	2.59	65.8



Universal Impact Socket Set, 14 Piece, $\frac{1}{2}$ inch Drive 246-8184

- 6 point
- $\frac{1}{2}$ inch square drive
- Black oxide finish
- Standard length impact sockets
- Includes socket bar and clips

SIZE (in)	PART NO.	LENGTH (in) (mm)	
$\frac{1}{2}$	214-6521	2.91	73.8
$\frac{9}{16}$	214-6522	2.91	73.8
$\frac{5}{8}$	214-6523	2.91	73.8
$\frac{11}{16}$	214-6524	3.06	77.8
$\frac{3}{4}$	214-6526	3.06	77.8
$\frac{13}{16}$	246-8173	3.06	77.8
$\frac{7}{8}$	246-8175	3.06	77.8
$\frac{15}{16}$	246-8176	3.06	77.8
1	246-8177	3.06	77.8
$1\frac{1}{16}$	246-8178	3.16	80.17
$1\frac{1}{8}$	246-8179	3.34	84.93
$1\frac{3}{16}$	246-8180	3.34	84.93
$1\frac{1}{4}$	246-8181	3.41	86.52
$1\frac{5}{16}$	246-8182	3.41	86.52

Hand Tools



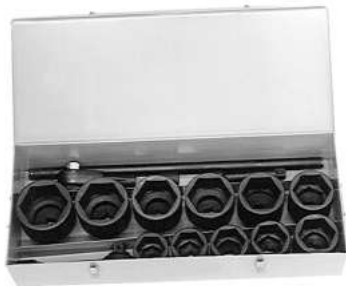
Socket Set, 21 Piece, 3/4 inch Drive 9S-1749

- 12 point
- 3/4 inch drive
- Chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
3/4	8H-8529	2.00	50.8
7/8	8H-8530	2.00	50.8
15/16	8H-8531	2.00	50.8
1	8H-8532	2.06	52.4
1 1/16	8H-8533	2.13	54.0
1 1/8	8H-8534	2.19	55.5
1 1/4	8H-8535	2.25	57.2
1 5/16	8H-8536	2.31	58.7
1 1/2	8H-8537	2.50	63.5
1 5/8	8H-8539	2.63	66.7
1 11/16	8H-8538	2.75	69.9
1 3/4	8H-8540	2.75	69.9
1 7/8	8H-8541	3.13	79.4
2	8H-8542	3.13	79.4
2 1/8	8H-8543	3.25	82.6
2 5/16	8H-8544	3.25	82.6
2 1/4	8H-8504	3.25	82.6

ACCESSORIES INCLUDED			
PART NO.	DESCRIPTION	SIZE (in) (mm)	
160-6389	Ratchet Head ¹		
8H-8546	Breaker Bar Head		
162-8716	Wrench Handle		
8H-8548	Socket Extension	8.00	203.2

¹ 160-6390 Repair Kit (4S-7327 Repair Kit is available for former 8H-8545 Ratchet Head.)



Heavy-Duty Socket Set, 17 Piece, 1 inch Drive 5S-6093

- 6 point
- 1 inch square drive
- Black oxide finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
2 3/8	5S-6077	3.88	98.4
2 1/2	5S-6078	4.13	104.8
2 5/8	5S-6079	2.25	57.2
2 3/4	5S-6080	4.50	114.3
3	5S-6081	4.88	123.8
3 1/8	5S-6082	5.00	127.0
3 1/4	5S-6083	5.00	127.0
3 1/2	5S-6084	5.25	133.4
3 5/8	5S-6085	5.25	133.4
3 3/4	5S-6086	5.38	136.5
4	5S-6087	5.00	127.0

ACCESSORIES INCLUDED			
PART NO.	DESCRIPTION	SIZE (in) (mm)	
5S-6092	Tool Box		
5S-6088	Sledge Socket Wrench		
161-3983	Ratchet Head ¹		
5S-6089	Wrench Handle		
5S-6076	Socket Extension	8.00	203.2
5S-6090	Sliding T Wrench Head		

¹ 161-3985 Repair Kit (5S-6094 Repair Kit is available for former 5S-6091 Ratchet Head.)



Socket Set, 15 Piece, 12 Point Shoulder Bolt 8S-1603

SIZE (in)	DRIVE (in)	PART NO.	LENGTH (in)	LENGTH (mm)
1/4	3/8	8S-1589	1.25	31.8
5/16	3/8	8S-1590	1.25	31.8
3/8	3/8	8S-1591	1.50	38.1
7/16	3/8	8S-1592	1.50	38.1
1/2	1/2	8S-1593	1.75	44.5
9/16	1/2	8S-1594	1.75	44.5
5/8	1/2	8S-1595	1.75	44.5
11/16	1/2	8S-1596	1.75	44.5
3/4	3/4	8S-1597	3.25	82.6
13/16	3/4	8S-1598	3.25	82.6
7/8	3/4	8S-1599	3.25	82.6
15/16	3/4	8S-1600	3.25	82.6
1	3/4	8S-1601	2.25	57.2

ACCESSORIES INCLUDED	
PART NO.	DESCRIPTION
8S-1602	Tool Box
261-0444	Adapter, 1/2 in Female to 3/8 in Male



Hex Driver Set, 10 Piece 214-6142

- Seven 3/8 inch drive hex sockets and three 1/2 inch drive hex sockets
- Includes socket bar and clips

HEX SIZE (in)	SQ. DRIVE SIZE (in)	PART NO.	OVERALL LENGTH (in)	OVERALL LENGTH (mm)
1/8	3/8	2P-8263	2.06	52.39
5/32	3/8	2P-8264	2.06	52.39
3/16	3/8	2P-8265	2.06	52.39
7/32	3/8	8T-3042	2.06	52.39
1/4	3/8	2P-8266	2.06	52.39
5/16	3/8	2P-8267	2.06	52.39
3/8	3/8	2P-8268	2.09	53.18
1/2	1/2	214-7320	2.09	53.18
9/16	1/2	214-7327	2.09	53.18
5/8	1/2	214-7328	2.09	53.18

INDIVIDUAL HEX SOCKETS AND REPLACEMENT HEX BITS			
SOCKET HEX SIZE	REPLACEMENT DRIVE	ASSEMBLY	HEX BIT
1/8	3/8	2P-8263	2P-8269
5/32	3/8	2P-8264	2P-8271
3/16	3/8	2P-8265	2P-8272
7/32	3/8	8T-3042	8T-3043
1/4	3/8	2P-8266	2P-7274
5/16	3/8	2P-8267	2P-7274
3/8	3/8	2P-8268	2P-8275
9/16	3/8	5P-7253	5P-7252
1/2	1/2	214-7320	214-7321
9/16	1/2	214-7327	1P-3566
5/8	1/2	214-7328	214-7331

Hand Tools



Hex Ball Driver Socket Set, 8 Piece 246-8499

- Four ¼ inch drive hex ball sockets and four ⅜ inch drive hex ball sockets
- Material: steel
- Includes socket bar and clips

HEX SIZE (in)	SQ. DRIVE SIZE (in)	PART NO.	OVERALL LENGTH (in) (mm)	
⅛	¼	243-5178	1⅞	47.63
9/64	¼	243-5179	1⅞	47.63
5/32	¼	243-5180	1⅞	47.63
3/16	¼	243-5181	1⅞	47.63
7/32	⅜	243-5175	2⅞	52.39
¼	⅜	243-5177	2⅞	52.39
5/16	⅜	243-5173	2⅞	52.39
3/8	⅜	243-5174	2⅞	52.39



TORX® Driver Set, 10 Piece 194-3584

- Ten pieces, ¼ inch and ⅜ inch square drive
- TORXALIGN® design grips TORX® fasteners for easier fastener starting (TORX® and TORXALIGN® are registered trademarks of Camcar, Inc.)
- Includes socket bar and clips

TORXALIGN® BITS				
TORX SIZE	SQ. DRIVE SIZE (in)	PART NO.	OVERALL LENGTH (in) (mm)	
T10	¼	194-3531	1.56	39.6
T15	¼	194-3532	1.56	39.6
T20	¼	194-3533	1.56	39.6
T25	¼	194-3534	1.56	39.6
T30	⅜	194-3535	1.75	44.5
T40	⅜	194-3536	1.75	44.5
T45	⅜	194-3537	2.06	52.3
T50	⅜	194-3538	2.06	52.3
T55	⅜	194-3539	2.03	51.6
ONE PIECE, ¼ INCH SQUARE DRIVE TORX® SOCKET INCLUDED				
E8	¼	194-3540	0.88	22.2



Socket Set, 13 Piece, 1/4 inch Drive 200-8413

- 6 point
- 1/4 inch drive
- Standard length sockets
- Polished chrome finish
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
4.0	200-8415	0.87	22.2
5.0	200-8417	0.87	22.2
5.5	200-8418	0.87	22.2
6.0	200-8419	0.87	22.2
7.0	200-8420	0.87	22.2
8.0	200-8421	0.87	22.2
9.0	200-8422	0.87	22.2
10.0	200-8423	0.87	22.2
11.0	200-8424	0.87	22.2
12.0	200-8426	0.87	22.2
13.0	200-8427	0.87	22.2
14.0	200-8428	0.87	22.2
15.0	200-8429	0.91	23.0

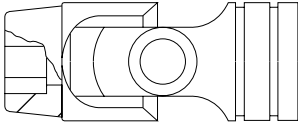


Socket Set, 12 Piece, 3/8 inch Drive 194-3574

- 12 point
- 3/8 inch drive
- Standard length sockets
- Polished chrome finish
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
8.0	194-3480	0.91	23.0
9.0	194-3483	0.91	23.0
10.0	194-3488	0.91	23.0
11.0	194-3490	0.91	23.0
12.0	194-3492	0.94	23.8
13.0	194-3494	0.97	24.6
14.0	194-3495	1.03	26.2
15.0	194-3496	1.06	27.0
16.0	194-3497	1.09	27.8
17.0	194-3498	1.13	28.6
18.0	194-3499	1.13	28.6
19.0	194-3500	1.19	30.2

Hand Tools



Universal Metric Socket Set, 9 Piece, 3/8 inch Drive 9U-6124

SMCS Code: 1251-010, 0601

Model: 3066 Engine

- 9U-6128 used to remove and install fuel injection pump
- Standard length, 12 point universal socket set
- Specially forged and heat treated for toughness and long life – meets rigid industry standards
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
10.0	9U-6125	1.71	43.5
12.0	9U-6126	1.79	45.5
13.0	9U-6127	1.79	45.5
14.0	9U-6128	1.89	47.9
15.0	9U-6129	1.89	47.9
16.0	9U-6130	1.89	47.9
17.0	9U-6131	2.00	50.7
18.0	9U-6132	2.00	50.7
19.0	9U-6133	2.07	52.5



Socket Set, 13 Piece, 1/2 inch Drive 199-6156

- 12 point
- 1/2 inch drive
- Standard length sockets
- Polished chrome finish
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
12.0	199-6149	1.50	38.1
13.0	199-6150	1.50	38.1
14.0	8T-3041	1.50	38.1
15.0	6V-9110	1.50	38.1
16.0	6V-9111	1.50	38.1
17.0	6V-9112	1.50	38.1
18.0	6V-9113	1.50	38.1
19.0	6V-9114	1.50	38.1
20.0	199-6152	1.50	38.1
21.0	6V-9115	1.50	38.1
22.0	6V-9116	1.50	38.1
23.0	199-6153	1.50	38.1
24.0	199-6154	1.53	38.8



Impact Socket Set, 12 Piece, ½ Inch Drive 213-6923

- 6 point
- ½ inch drive
- Black oxide finish
- Standard length impact sockets
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
10.0	213-6926	1.50	38.1
11.0	213-6927	1.50	38.1
12.0	213-6928	1.50	38.1
13.0	213-6929	1.50	38.1
14.0	213-6930	1.50	38.1
15.0	213-6932	1.50	38.1
16.0	213-6933	1.50	38.1
17.0	213-6934	1.50	38.1
18.0	213-6935	1.50	38.1
19.0	213-6936	1.50	38.1
20.0	213-6924	1.50	38.1
21.0	213-6937	1.50	38.1



Impact Socket Set, 11 Piece, ½ inch Drive 214-6643

- 6 point
- ½ inch drive
- Black oxide finish
- Deep length impact sockets
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
10.0	214-6644	3.25	82.6
11.0	214-6645	3.25	82.6
12.0	214-6646	3.25	82.6
13.0	214-6647	3.25	82.6
14.0	214-6648	3.25	82.6
15.0	214-6649	3.25	82.6
16.0	214-6650	3.25	82.6
17.0	214-6651	3.25	82.6
18.0	214-6652	3.25	82.6
19.0	214-6653	3.25	82.6
20.0	214-7346	3.25	82.6



Metric Swivel Impact Socket Set, 7 Piece, ¾ inch Drive 261-8572

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
10.0	261-8573	2.0	50.8
12.0	261-8574	2.09	53.1
13.0	261-8575	2.13	54.1
14.0	261-8576	2.18	55.4
15.0	261-8577	2.22	56.4
17.0	261-8578	2.49	62.2
18.0	261-8579	2.52	64.0

Hand Tools



Metric Universal Impact Socket Set, 10 Piece, 1/2 inch Drive 246-8199

- 6 point
- 1/2 inch square drive
- Black oxide finish
- Standard length impact sockets
- Includes socket bar and clips

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
10.0	246-8185	2.90	73.7
11.0	246-8186	2.90	73.7
12.0	246-8187	2.90	73.7
13.0	246-8188	2.90	73.7
14.0	246-8189	2.90	73.7
15.0	246-8190	2.90	73.7
16.0	246-8191	2.90	73.7
17.0	246-8192	3.06	77.8
18.0	246-8194	3.06	77.7
19.0	246-8197	3.06	77.7



Impact Socket Set, 24 Piece, 3/4 inch Drive 9U-6547

- 6 point
- 3/4 inch drive
- Black oxide finish
- Standard length impact sockets

SIZE (mm)	PART NO.	LENGTH (in) (mm)	
17.0	9U-6523	1.75	44.5
19.0	9U-6524	1.75	44.5
20.0	9U-6525	1.75	44.5
21.0	9U-6526	1.88	47.8
22.0	9U-6527	1.87	47.6
23.0	9U-6528	1.88	47.8
24.0	9U-6529	1.87	47.6
26.0	9U-6530	2.00	50.8
27.0	9U-6531	2.00	50.8
28.0	9U-6532	2.12	53.8
30.0	9U-6533	2.12	53.8
31.0	9U-6534	2.13	54.0
32.0	9U-6535	2.12	53.8
33.0	9U-6536	2.12	53.8
34.0	9U-6537	2.13	54.0
35.0	9U-6538	2.25	57.2
36.0	9U-6539	2.25	57.2
38.0	9U-6540	2.25	57.2
40.0	9U-6541	2.63	66.7
41.0	9U-6542	2.62	66.5
42.0	9U-6543	2.62	66.5
43.0	9U-6544	2.62	66.5
46.0	9U-6545	2.63	66.7
50.0	9U-6546	2.88	73.2



Metric Hex Driver Set, 9 Piece 194-3585

- Includes socket bar and clips

HEX SIZE (mm)	DRIVE SIZE (in)	PART NO.	BIT LENGTH (mm)	OVERALL LENGTH (in) (mm)	
4.0	$\frac{3}{8}$	194-3541	25.4	2.06	52.3
5.0	$\frac{3}{8}$	194-3542	25.7	2.07	52.6
6.0	$\frac{3}{8}$	194-3543	25.7	2.07	52.6
7.0	$\frac{3}{8}$	194-3544	25.7	2.07	52.6
8.0	$\frac{3}{8}$	194-3545	25.1	2.05	52.1
10.0	$\frac{3}{8}$	194-3546	25.5	2.07	52.5
12.0	$\frac{1}{2}$	194-3547	—	3.19	81.0
14.0	$\frac{1}{2}$	194-3548	—	3.19	81.0
17.0	$\frac{1}{2}$	194-3549	—	3.69	93.7

Individual Metric Hex Drivers

HEX SIZE (mm)	DRIVE SIZE (in)	PART NO.	BIT EXT. LENGTH (mm)	OVERALL LENGTH (in) (mm)	
6.0	$\frac{3}{8}$	8T-3040	25.4	2.09	53.1
10.0	$\frac{1}{2}$	6V-9085	23.9	2.44	62.0
14.0	$\frac{1}{2}$	6V-9086	35.0	3.19	81.0
17.0	$\frac{3}{4}$	1U-6151	47.0	3.62	92.0
19.0	$\frac{3}{4}$	9U-7418	47.7	4.39	111.3
22.0	1	1U-9474	32.0	3.31	84.0
24.0		140-8780 ¹	50.8	2.00	50.8
27.0	1	129-4552	72.0	5.08	129.0

¹ Hex bit only

Hand Tools



Metric Hex Ball Driver Socket Set, 8 Piece 243-5182

- Four 1/4 inch drive hex ball sockets and four 3/8 inch drive hex ball sockets
- Material: steel
- Includes socket bar and clips

HEX SIZE (mm)	DRIVE SIZE (in)	PART NO.	BIT LENGTH (mm)	OVERALL LENGTH (in)	OVERALL LENGTH (mm)
3	1/4	243-5190	—	1.88	47.7
4	1/4	243-5184	—	1.87	47.6
5	1/4	243-5185	—	1.89	47.9
6	1/4	243-5186	—	1.89	47.9
7	3/8	243-5187	25.6	2.07	52.5
8	3/8	243-5188	25.6	2.07	52.5
9	3/8	243-5189	25.6	2.07	52.5
10	3/8	243-5183	25.6	2.07	52.5



Socket Extensions

DRIVE SIZE (in)	PART NO.	LENGTH (in)	LENGTH (mm)
1/4	9S-1720	2.00	50.8
1/4	9S-1721	4.00	101.6
3/8	8H-8574	3.00	76.2
3/8	3P-2240	12.00	304.8
3/8	8H-8575	6.00	152.4
1/2	5P-8676	3.00	76.2

DRIVE SIZE (in)	PART NO.	LENGTH (in)	LENGTH (mm)
1/2	9S-1732	5.00	127.0
1/2	8H-8559	11.00	279.0
3/4	8H-8548	8.00	203.2
3/4	8T-9265 ¹	10.00	254.0
3/4	8T-5183 ¹	16.00	406.4
1	5S-6076	8.00	203.2

¹ Requires locking pin



Universal Joint

DRIVE SIZE	PART NO.
1/4 in	9S-1724
3/8 in	6V-0094
1/2 in	8H-8560

Socket Drive Adapters



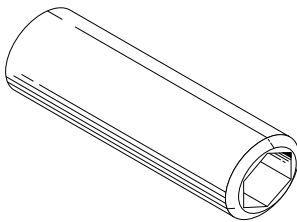
PART NO.	DESCRIPTION
213-4437	Adapter, ¼ in Female to ⅜ in Male
261-0443	Adapter, ⅜ in Female to ¼ in Male
8H-8576	Adapter, ⅜ in Female to ½ in Male
261-0444	Adapter, ½ in Female to ⅜ in Male
8H-8561	Adapter, ½ in Female to ¾ in Male
261-0445	Adapter, ¾ in Female to ½ in Male
2P-8261	Adapter, ¾ in Female to 1 in Male
5P-3588	Adapter, 1 in Female to ¾ in Male
261-8569	Adapter, 1 in Female to 1½ in Male
261-8570	Adapter, 1½ in Female to 1 in Male



Impact Wrench Socket Adapters

- Heavy-duty adapter and extensions can be used with 1½ inch drive impact wrenches
- Allows the use of 1 inch drive sockets instead of the higher priced 1½ inch drive sockets

ITEM	PART NO.	DESCRIPTION
1	9S-4028	Extension, 1 in drive both ends, 5.25 in (133.4 mm) long
2	9S-4026	Adapter, 1½ in to 1 in drive
3	9S-4027	Extension, 1 in drive both ends, 2.38 in (60.3 mm) long



Spark Plug Socket 216-1685

SMCS Code: 1555-010

Model: G3516B (50 Hz), G3516B (60 Hz), G3520B (50 Hz), and G3500C

- Thin wall design eliminates possible socket interference
- ½ inch drive, 103 mm overall length, 13/16 inch, 6 point hex



Spark Plug Socket 4C-4601

- ⅝ inch hex, ½ inch square drive, 6 point
- 4.06 in (103.1 mm) long
- Special thin wall for use on G3500 and G3600 Engines



Metric Ratchet Set, 17 Piece 233-1642

- Socket contacts the fastener on the flats rather than on the corners, preventing rounding of the fastener and allowing for more torque to be applied
- Concentric or uniform wall thickness eliminates weak spots while allowing for a thin wall design for greater accessibility
- Creates positive engagement with the drive tool for a tight/slop-free driving system. Detents are located on all four inner walls ensuring positive engagement with the drive tool in any orientation.
- Hex and drive ends of the socket are countersunk or funnel-shaped, making engagement with the fastener or drive tool quicker and easier
- Nickel chrome plating provides a durable, corrosion resistant coating and a brilliant tool finish

DRIVE SIZE	PART NO.	LENGTH		DESCRIPTION
		(in)	(mm)	
4.0 mm	200-8415	0.87	22.2	Socket (1/4 in Drive)
5.0 mm	200-8417	0.87	22.2	Socket (1/4 in Drive)
5.5 mm	200-8418	0.87	22.2	Socket (1/4 in Drive)
6.0 mm	200-8419	0.87	22.2	Socket (1/4 in Drive)
7.0 mm	200-8420	0.87	22.2	Socket (1/4 in Drive)
8.0 mm	200-8421	0.87	22.2	Socket (1/4 in Drive)
9.0 mm	200-8422	0.87	22.2	Socket (1/4 in Drive)
10.0 mm	200-8423	0.87	22.2	Socket (1/4 in Drive)
11.0 mm	200-8424	0.87	22.2	Socket (1/4 in Drive)
12.0 mm	200-8426	0.87	22.2	Socket (1/4 in Drive)
13.0 mm	200-8427	0.87	22.2	Socket (1/4 in Drive)
14.0 mm	200-8428	0.87	22.2	Socket (1/4 in Drive)
15.0 mm	200-8429	0.91	23.0	Socket (1/4 in Drive)
1/4 in	239-6823	4.42	112.3	Ratchet
1/4 in	9S-1720	2.00	50.8	Socket Extension
1/4 in	9S-1721	4.00	101.6	Socket Extension
1/4 in	9S-1724			Universal Joint



Ratchets

- Sealed heads protect internal components from outside environment which leads to longer product life and reduced maintenance, and prevents gear slippage
- High strength internal mechanism provides longer tool life
- Nickel chrome plating provides a durable, corrosion resistant coating and a brilliant tool finish

SIZE (in)	PART NO.	LENGTH (in)	LENGTH (mm)	SMALLEST WORKING ARC	REPAIR KIT
¼	239-6823	4.42	112.3	12°	230-0812
⅜	239-6824	7.38	187.0	12°	230-0813
⅝	194-4944 ³	10.25	260.4	5°	—
½	239-6825	10.31	261.9	10°	214-7339
½	214-7340 ¹	11.31	287.3	4.5°	214-7341
½	239-6826	15.00	381.0	10°	214-7339
½	214-7333 ²	17.66	448.6	10°	—

¹ Round head

² Long flex handle

³ Offset round swivel head

REPAIR KITS FOR DISCONTINUED RATCHETS	
PART NO.	REPAIR KIT
5P-7443	5P-7444 (20 tooth gear) 5P-7445 (30 tooth gear)
8H-8572	4S-7325
8H-8557	4S-7326



Combination Wrench Set, Standard Length, 11 Piece 4C-9600

- Polished chrome finish
- Includes vinyl bag

SIZE (in)	PART NO.	LENGTH (in)	LENGTH (mm)
⅜	4C-9592	6.50	165.1
7/16	4C-9593	7.25	184.15
½	4C-9594	8.03	204.0
9/16	4C-9595	8.75	222.3
5/8	4C-9596	9.50	241.3
11/16	4C-9597	10.25	260.4
¾	4C-9598	11.03	280.2
13/16	4C-9599	11.78	299.2
7/8	4C-9601	12.53	318.3
15/16	4C-9602	13.31	338.1
1	4C-9603	14.06	357.1

Hand Tools



Fractional Ratcheting Wrench Set, 8 piece 248-8810

- Dual pawl ratcheting box end
- 15 degrees offset box head
- Box ends are reversible
- Durable nickel chrome finish

SIZE (in)	PART NO.	LENGTH (in) (mm)	
5/16	248-8811	5 5/16	135
3/8	248-8812	6 5/16	160
7/16	248-8813	6 11/16	170
1/2	248-8814	7 1/16	180
9/16	248-8815	7 1/2	190
5/8	248-8816	8 1/4	210
11/16	248-8817	9 1/16	230
3/4	248-8818	9 13/16	250



Open End Wrench Set, 30° and 60° Offset, 14 Piece 1P-3515

SIZE (in)	PART NO.	LENGTH (in) (mm)	
3/8	1P-3501	4.84	122.9
7/16	1P-3502	5.41	137.4
1/2	1P-3503	5.97	151.6
9/16	1P-3504	6.56	166.6
5/8	1P-3505	7.12	180.8
11/16	1P-3506	7.78	197.6
3/4	1P-3507	8.28	210.3
13/16	1P-3508	8.88	225.6
7/8	1P-3509	9.44	239.8
15/16	1P-3510	10.00	254.0
1	1P-3511	10.59	269.0
1 1/16	1P-3512	11.16	283.5
1 1/8	1P-3513	11.75	298.5
1 1/4	1P-3514	12.88	327.2
1P-3516 Tool Kit Bag (not serviced)			
Optional Wrenches (not included in 1P-3515)			
1 3/8	127-2277	14.04	356.6
1 1/2	127-2278	15.19	385.8
1 5/8	127-2279	16.34	415.0
1 7/8	127-2280	18.63	473.2



Combination Wrench Set, 14 Piece 1U-5545

- Metric, 6.0 mm through 19.0 mm
- Polished chrome finish
- Includes storage pouch

SIZE	PART NO.	LENGTH (in) (mm)	
6.0	1U-5546	4.45	113.0
7.0	1U-5547	4.65	118.0
8.0	1U-5548	4.84	123.0
9.0	1U-5549	6.26	159.0
10.0	6V-9090	6.73	171.0
11.0	6V-9091	7.24	184.0
12.0	6V-9092	7.68	195.0
13.0	6V-9093	8.15	207.0
14.0	6V-9094	8.62	219.0
15.0	6V-9095	9.17	233.0
16.0	6V-9096	9.53	242.0
17.0	6V-9097	10.08	256.0
18.0	6V-9098	10.51	267.0
19.0	6V-9099	11.02	280.0



Metric Ratcheting Wrench Set, 12 piece 248-8819

- Dual pawl ratcheting box end
- 15 degrees offset box head
- Box ends are reversible
- Durable nickel chrome finish

SIZE	PART NO.	LENGTH (in) (mm)	
8.0	248-8820	5.47	135
9.0	248-8822	5.91	150
10.0	248-8823	6.3	160
11.0	248-8824	6.7	170
12.0	248-8825	6.9	175
13.0	248-8826	7.1	180
14.0	248-8827	7.5	190
15.0	248-8828	7.9	200
16.0	248-8829	8.27	210
17.0	248-8830	9.1	230
18.0	248-8831	9.4	240
19.0	248-8832	9.8	250



Open End Wrenches

- Tappet wrench
- For low torque applications

SIZE (in)	PART NO.	LENGTH (in)
1/2 x 9/16	8H-8501	9.50

Hand Tools



Adjustable Wrenches

PART NO.	JAW RANGE		LENGTH		FINISH
	(in)	(mm)	(in)	(mm)	
214-7322	0.94	24.0	8.00	203.2	Black Oxide
214-7323	1.13	29.0	10.00	254.0	Black Oxide
214-7330	1.31	33.0	12.00	304.8	Black Oxide
214-7332	1.66	42.0	15.00	381.0	Black Oxide



Wrench for Special Applications 1U-8760

- Used for holding cylinders and other irregularly shaped objects – works for parts of most any size and shape
- Special head design for turning wrench in either direction
- Ratcheting action makes it possible to regrip without removal
- Chain wrench capacity: ½ inch to 4¾ inch O.D



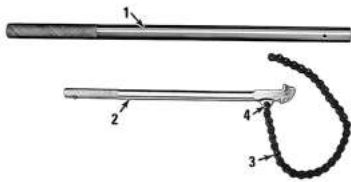
Chain Wrench 1U-7608

SMCS Code: 5102-017

Model: D6H, D7H and motor graders prior to April 1987 G-Series production

- Used to remove and install threaded crowns on hydraulic cylinders
- Grips cylindrical objects for assembly or disassembly
- Black oxide finish, high carbon steel
- Has ¾ in (19 mm) square drive
- Can be used with breaker bars, ratchets and torque wrenches
- Can be used on threaded crowns up to 8 in (203 mm) in diameter
- Tool is capable of withstanding in excess of 1000 ft-lb of torque

Head length	4½ in	114.3 mm
Head length	2⅝ in	53.97 mm
Head thickness	1⅝ in	34.92 mm
Chain length	28 in	711.2 mm
Weight	1.90 lb	0.86 kg
Rated capacity	1000 ft-lb	1360 N·m



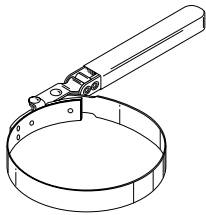
Chain Wrench Group 3P-1535

SMCS Code: 4303-017, 5105-017, 5309-017, 5102-017

Model: 16G, 518, 613C, 615, 910

- Used to remove and install threaded crown, which is used to retain head on later hydraulic cylinders
- General purpose tool that can be used in many applications

ITEM	PART NO.	DESCRIPTION
1	3P-1536	Handle
2	1U-8792	Chain Wrench Assembly, Handle Length 19.00 in (482.6 mm)
3	1U-8791	Chain – part of 1U-8792, 3.00 in (76.2 mm) O.D. Minimum and 6.75 in (171.5 mm) O.D. Maximum
4	3P-1537	Pin – part of 1U-8792



Filter Wrench 187-2718

SMCS Code: 5050-011

Model: Various Models – including Skid Steer Loaders, Compact Wheel Loaders, and Mini-Hex Excavators

- Used to remove spin-on oil and fuel filters
- Makes filter removal quick and easy
- Fits filter diameters between 3.50 to 3.88 in (88.9 to 98.6 mm)



Filter Strap Wrench 185-3630

SMCS Code: 0602

Model: Caterpillar Engines

- Provides quick, efficient service when removing or installing all spin-on type fuel and oil filters

- Capable of applying higher torques required on larger filters without denting filter can

ITEM	PART NO.	DESCRIPTION
1	6H-7378	Retaining Ring
2	1P-0551	Spring Pin
3	2P-8253	Strap

Hand Tools



Hex Bit Set, 7 Piece 200-1931

- Black oxide finish bits
- Chrome plated case
- 3.00 in (76.2 mm) long bits
- Bit sizes: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm



Hex Bit Set, 9 Piece 9S-1742

- Black oxide finish
- 3 inch bits
- 3½ inch cadmium case
- Sizes: 0.05 inch, 1/16 inch, 5/64 inch, 3/32 inch, 7/64 inch, 1/8 inch, 9/64 inch, 5/32 inch, 3/16 inch



“L” Shaped Hex Allen Key Wrench Group, Inch, 13 Piece 200-1928

- Sizes: 0.05 inch, 1/16 inch, 5/64 inch, 3/32 inch, 7/64 inch, 1/8 inch, 9/64 inch, 5/32 inch, 3/16 inch, 7/32 inch, 1/4 inch, 5/16 inch and 3/8 inch
- Cat® branded plastic holder included



“L” Shaped Hex Allen Key Wrench Group, Metric, 9 Piece 200-1929

- Sizes: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, 8.0 mm, and 10.0 mm
- Cat® branded plastic holder included



Hex Key Wrenches, Standard and Metric

- Extra length hex keys
- Inch and metric sizes

PART NO.	SIZE (mm)
1U-7559	1.5
1U-7560	2
1U-7561	2.5
1U-7562	3
1U-7563	4
1U-7564	5
1U-7565	6
1U-7566	8
1U-7567	10
1U-7568	12
1U-7569	14
1U-7570	17
1U-7571	19
4C-4067	22

PART NO.	SIZE (in)
1U-7572	1/16
1U-7573	5/64
1U-7574	3/32
1U-7575	1/8
1U-7576	5/32
1U-7577	3/16
1U-7578	7/32
1U-7579	1/4
1U-7580	5/16
1U-7581	3/8
1U-7582	7/16
1U-7583	1/2
1U-7584	9/16
1U-7585	5/8
1U-7632	3/4
1U-7586	1

Hand Tools



Aluminum Pipe Wrenches

- 10 inch through 24 inch
- 35% lighter than cast iron wrenches
- Heat treated titanium – aluminum alloy handle
- Forged hook jaw
- Heat-treated alloy steel parts interchangeable with iron wrenches

ITEM	PART NO.	DESCRIPTION	PIPE CAPACITY		LENGTH	
			(in)	(mm)	(in)	(mm)
1	4C-6974	Aluminum Wrench	0.25 – 2.00	14.0 – 63.0	14.00	356.0
2	4C-6975	Aluminum Wrench	0.25 – 2.50	14.0 – 75.0	18.00	457.0
3	4C-6976	Aluminum Wrench	1.25 – 3.00	14.0 – 90.0	24.00	610.0
Not shown	4C-6973	Aluminum Wrench	0.13 – 1.50	10.0 – 48.0	10.00	254.0



Heavy-Duty Pipe Wrenches

- High-tensile ductile iron handle and hardened tool-steel parts
- Designed to withstand heavy demands

PART NO.	PIPE CAPACITY		LENGTH		WEIGHT	
	(in)	(mm)	(in)	(mm)	(lb)	(kg)
4C-6962	0.13 in – 1.50	10.0 – 48.0	10.00	254.0	12	5.4
4C-6963	0.13 in – 2.00	10.0 – 60.0	12.00	305.0	18	8.1
4C-6964	0.25 in – 2.00	14.0 – 63.0	14.00	356.0	21	9.5
4C-6965	0.25 in – 2.50	14.0 – 75.0	18.00	457.0	33	15.0
4C-6972	0.25 in – 3.00	14.0 – 90.0	24.00	610.0	60	27.2
4C-6962	0.13 in – 1.50	10.0 – 48.0	10.00	254.0	12	5.4
4C-6963	0.13 in – 2.00	10.0 – 60.0	12.00	305.0	18	8.1
4C-6964	0.25 in – 2.00	14.0 – 63.0	14.00	356.0	21	9.5
4C-6965	0.25 in – 2.50	14.0 – 75.0	18.00	457.0	33	15.0
4C-6972	0.25 in – 3.00	14.0 – 90.0	24.00	610.0	60	27.2



Style A



Style B

Click Type Torque Wrenches

Style A

- The 8T-9293, 162-8718 and 4C-5492 Torque Wrenches work only in the right-hand or clockwise direction, and are guaranteed to be accurate within 4% of setting of the top 80% of the scale
- Easily adjusted by a small calibrated dial along the wrench arm
- Eliminates the need to reduce the torque setting to the low end of the scale for storage in order to retain accuracy
- The 162-8718 Torque Wrench can be disassembled into three components for storage in a tool box

Style B

- The 9U-5019, 9U-5020, 9U-5018, 9U-5006 and 9U-5007 Torque Wrenches work in both right and left-hand (clockwise and counter-clockwise) directions
- Micrometer handle style adjustment
- These wrenches are labeled in both ft-lb and N·m

STYLE	TORQUE RANGE MIN. MAX.	DRIVE SIZE (in)	PART NO.	ACCU- RACY	HEADSTYLE	INCRE- MENTS	LENGTH	HEAD WIDTH	HEAD DEPTH	CASE	SERVICE KIT
A	40 ft-lb 252 ft-lb	½	8T-9293	±6%	Flex-Ratchet	5 ft-lb	22½ in (561.97 mm)	1½ in (41.27 mm)	¾ in (19.05 mm)	Yes	5P-7429
A	200 ft-lb 600 ft-lb	¾	162-8718	±6%	Detach-Ratchet	10 ft-lb	48 in (1219.2 mm)	2¾ in (60.32 mm)	1¼ in (31.75 mm)	—	160-6390
A	20 ft-lb 100 ft-lb	⅝	4C-5492	±6%	Flex-Ratchet	2 ft-lb	17⅞ in (447.67 mm)	1½ in (28.57 mm)	⅝ in (14.28 mm)	Yes	4C-5819
B	(5 ft-lb) 6.8 N·m (75 ft-lb) 101.8 N·m	⅝	9U-5019	±6%	Fixed Ratchet	0.5 ft-lb (0.7 N·m)	15.5 in (393.7 mm)			Yes	
B	(10 ft-lb) 13.6 N·m (100 ft-lb) 135.7 N·m	⅝	9U-5020	±6%	Fixed Ratchet	0.5 ft-lb (0.7 N·m)	15.5 in (393.7 mm)			Yes	
B	(20 ft-lb) 27.1 N·m (150 ft-lb) 203.6 N·m	½	214-7349	±6%	Fixed Ratchet	1 ft-lb (1.4 N·m)	18.5 in (469.9 mm)			Yes	214-7350
B	(30 ft-lb) 40.7 N·m (250 ft-lb) 339.3 N·m	½	9U-5006	±6%	Fixed Ratchet	1 ft-lb (1.4 N·m)	21.25 in (539.6 mm)			Yes	
B	(100 ft-lb) 135.7 N·m (600 ft-lb) 814.2 N·m	¾	9U-5007	±6%	Fixed Ratchet	5 ft-lb (7 N·m)	45 in (1092.2 mm)			Yes	

For additional wrenches see GECJ0001.



Torque Multipliers

- Used to apply torques above the capability of torque wrenches with an accuracy of $\pm 5\%$
- The 6V-6080 Multiplier has a maximum torque capacity of 3200 ft-lb (4335 N·m)
- The 6V-7820 Multiplier has a maximum capacity of 1200 ft-lb (1620 N·m)
- Both multipliers are designed for use with a $\frac{1}{2}$ inch square drive torque wrench
- The 6V-6080 Multiplier features a directional clutch which holds the windup and provides ratcheting action so that the multiplier is usable in close quarters where movement of the input wrench is limited
- Both multipliers are designed to provide 360° continuous rotation in both directions
- They also have an angle of turn protractor which measures the angle of rotation in 5° increments for torque turn specifications
- Overload protection is provided by the square output drive which shears at a torque slightly above the maximum output rating
- Decals providing torque input and output values are located on the multiplier

PART NO.	SQUARE INPUT	SQUARE OUTPUT	POWER RATIO	RATED INPUT CAPACITY		MAXIMUM RATED OUTPUT		WEIGHT	
				(ft-lb)	(N·m)	(ft-lb)	(N·m)	(lb)	(kg)
6V-7820	$\frac{1}{2}$ in	$\frac{3}{4}$ in	6 to 1	200	271	1200	1620	9	4
6V-6080	$\frac{1}{2}$ in	1.0 in	18.5 to 1	177	240	3200	4335	18	8.2

For pneumatic and hydraulic torque tools see GECJ0001.



Impact Wrenches, 3/8 inch

CE Compliant

- Reverse bias air motor provides greater power in reverse for extra break away torque
- Molded ergonomic handle grip reduces vibration and operator fatigue
- Built in power regulator allows power output to be adjusted to operating conditions
- Repair kits available

PART NO.	222-3048
Drive size	3/8 in
Recommended air pressure	90 PSIG (620 kPa)
Air consumption, free speed	1.9 CFM (14 SCFM) [53.8 l/min.]
Air consumption, working	3.5 CFM (25 SCFM) [99.11 l/min.]
Free speed, forward	8000 RPM
Free speed, reverse	9000 RPM
Sound level, free speed	84.6 dBa
Sound level, working	95.6 dBa
Blows per minute	1170
Torque range	50-185 ft-lb (68-251 N·m)
Maximum torque	185 ft-lb (251 N·m) Forward 210 ft-lb (285 N·m) Reverse
Air inlet thread size	1/4 in – 18 NPT
Recommended hose size, ID min.	3/8 in (10 mm)
Overall length	6.25 in (159 mm)
Height	7 in (179 mm)
Width	2.24 in (57 mm)
Weight	3.75 lb (1.70 kg)

For additional pneumatic tools see GECJ0001.



Impact Wrenches, ½ and ¾ inch

CE Compliant

- Aluminum housing reduces weight and provides durable long life
- Steel nose front for extra protection, easy service access
- Power speed regulator allows power output to be adjusted to operating conditions
- Variable speed trigger allows operator versatility over wide range of fasteners
- Repair kits available

PART NO.	222-3050	222-3053
Drive size	½ in	¾ in
Recommended air pressure	90 PSIG (620 kPa)	90 PSIG (620 kPa)
Air consumption, free speed	4.2 CFM (30 SCFM) [118.9 l/min.]	5.8 CFM (41 SCFM) [164.2 l/min.]
Free speed, forward	8000 RPM	4500 RPM
Free speed, reverse	8000 RPM	5000 RPM
Sound level, free speed	108 dBa	92 dBa
Torque range	25-300 ft-lb (35-408 N·m)	300-800 ft-lb (407-1085 N·m)
Maximum torque	425 ft-lb (578 N·m) Forward 425 ft-lb (578 N·m) Reverse	1200 ft-lb (1626 N·m)
Air inlet thread size	¼ in – 18 NPT	¾ in – 18 NPT
Recommended hose size, ID min.	5/16 in (8 mm)	¾ in (10 mm)
Overall length	7.3 in (185 mm)	10.2 in (259 mm)
Weight	5.8 lb (2.63 kg)	14.5 lb (6.59 kg)

For additional pneumatic tools see GECJ0001.



Impact Wrenches, 1 inch

CE Compliant

- Power speed regulator allows power output to be adjusted to operating conditions
- Variable speed trigger allows operator versatility over wide range of fasteners
- Repair kits available

PART NO.	222-3054	222-3055
Drive size	1 in	1 in
Recommended air pressure	90 PSIG (620 kPa)	90 PSIG (620 kPa)
Air consumption, free speed	3.6 CFM (26 SCFM)	8.3 CFM (41 SCFM) [164.2 l/min.]
Air consumption, working	5.3 CFM (38 SCFM) [150.1 l/min.]	5.3 CFM (38 SCFM) [150.1 l/min.]
Free speed, forward	4000 RPM	4000 RPM
Free speed, reverse	4000 RPM	4000 RPM
Sound level, free speed	92 dBa	92 dBa
Sound level, working	103 dBa	103 dBa
Blows per minute	500	505
Torque range	600-1400 ft-lb (813-1898 N·m)	600-1400 ft-lb (813-1898 N·m)
Maximum torque	2800 ft-lb (3796 N·m)	3000 ft-lb (4067 N·m)
Air inlet thread size	½ in – 14 NPT	½ in – 14 NPT
Recommended hose size, ID min.	½ in (13 mm)	½ in (13 mm)
Overall length	11.8 in (302 mm)	21 in (535 mm)
Height	10.6 in (270 mm)	6.8 in (172 mm)
Width	4.37 in (111 mm)	4.33 in (110 mm)
Weight	26.5 lb (12.05 kg)	27 lb (12.27 kg)

For additional pneumatic tools see GECJ0001.

Hand Tools



Screwdriver Set 9U-7290

- Exclusive high-tech handle design for a more comfortable grip and more powerful performance
- Includes a flat $\frac{1}{4}$ inch tip and #1 Phillips



Black Plastic Handle Screwdriver Set, 6 Piece 162-7804

- Black plastic handles
- 6-piece set
- Includes vinyl pouch

TIP SIZE	PART NO.	DESCRIPTION
$\frac{1}{4}$	6V-7935	Standard
$\frac{3}{16}$	6V-7937	Standard
$\frac{5}{16}$	6V-7933	Standard
$\frac{3}{8}$	6V-7932	Standard
No. 1	6V-7936	Phillips
No. 2	6V-7934	Phillips



Ratcheting Screwdriver, 5 Bits 9U-7291

- $8\frac{3}{4}$ in (222.25 mm) long overall; $3\frac{25}{32}$ in (96.04 mm) stainless steel shank length
- $\frac{3}{16}$ inch and $\frac{9}{32}$ inch flat tips, #1 and #2 Phillips, and #2 Pozidriv store in hollow handle



Tool Bit Set, 6-piece 9U-7328

- Includes #1, #2, and #3 Phillips and 6.5 mm x 1.2 mm, 6.0 mm x 1.0 mm, and 5.5 mm x 0.8 mm flat tips
- High impact, pocket-sized ABS plastic case
- Convenient magnetic bit holder (to fit power drills or for use with the case as a hand-held screwdriver) is included



Hacksaws

PART NO.	DESCRIPTION	LENGTH (in) (mm)		USE
194-3552	Hacksaw	13.78	350.0	for use with 12 inch blade; blade tensioning device in handle
208-6183	Hacksaw	16.50	419.1	for use with 12 inch blade

Replacement Hacksaw Blade Sets

PART NO.	TEETH	MATERIAL	QUANTITY
1U-9234	12 in-18	Bi-Metal	5
1U-9236	12 in-24	Bi-Metal	10
1U-9238	12 in-32	Bi-Metal	5
1U-9240	12 in-18	High Carbon Steel	5
1U-9242	12 in-24	High Carbon Steel	5
1U-9244	12 in-32	High Carbon Steel	5



Pry Bars

- Flat taper at one end and pointed taper on the other end

PART NO.	DESCRIPTION	SIZE (in) (mm)	
1U-7587	Rolling Head Pry Bar	6.00	152.4
194-3553	Rolling Head Pry Bar	12.00	304.8
5F-4764	Rolling Head Pry Bar	16.00	406.4
194-3556	Rolling Head Pry Bar	21.00	533.4
1U-7591	Pry Bar	0.63 x 18.00	0.625 x 457.2
1U-7592	Pry Bar	0.75 x 24.00	0.75 x 609.6
1U-7593	Pry Bar	0.88 x 30.00	0.875 x 762.0
4F-5166	Pry Bar	30.00	762.0
4C-5742	Long Pry Bar	46.00	1168.4
4C-5647	Long Pry Bar	54.00	1371.6

Hand Tools



Hammers

ITEM	PART NO.	SIZE	HEIGHT		LENGTH		WEIGHT
		(in)	(in)	(mm)	(in)	(mm)	
BALL PEEN HAMMERS							
1	1S-0257	1⅝ in			11.75	298.5	12 oz (340 g)
2	1B-7810	1⅝ ₃₂ in	4.47	113.5	16.00	406.4	1½ lb (680 g)
3	8H-8577	1¼ in	5.06	128.6	16.00	406.4	2 lb (900 g)
SOFT FACE HAMMERS							
4	1S-0258	1⅞ ₁₆ in	4.63	117.5	13.00	330.2	2 lb (900 g)
5	Replacement Tips for 1S-0258: 3S-0460 Medium Tip 3S-0459 Hard Tip						



Multiple Use Hammers

ITEM	PART NO.	DESCRIPTION	FACE DIAMETER (in) (mm)		OVERALL LENGTH (in) (mm)		WEIGHT (lb) (kg)	
1	223-1697	Double Face Sledge	1.88	47.75	35.00	889.0	9.62	4.36
2	223-1694	Dead Blow Sledge	2.75	69.85	20.00	508.0	5.50	2.50
3	223-1693	Hand Drilling (Short Handle)	1.50	38.10	10.75	273.05	4.00	1.82
Not shown								
	223-1698	Double Face Sledge	2.13	53.98	35.63	905.0	10.92	4.95
	245-9823	Double Face Sledge	2.88	73.00	36.00	914.0	16.00	7.25
	223-1695	Dead Blow Sledge	3.25	82.55	36.00	914.40	12.00	5.45

Replacement handles available.



Shovels and Spades

- Ergonomically engineered for balance and safety
- Latest technology fiberglass handles
- Super-duty, pultruded core with reinforcement sections adds strength
- Molded-exterior, polymer clad jacket for handling comfort

ITEM	PART NO.	DESCRIPTION
1	157-2264	Shovel, Round Point with 48 in (122 cm) long handle
2	157-2276	Spade, Drain with 48 in (122 cm) long handle
3	157-2268	Shovel, Square with 48 in (122 cm) long handle
4	157-2273	Scoop, #12 Aluminum
5	157-2278	Spade, Drain with 27 in (69 cm) "D" handle
6	157-2269	Shovel, Square Point with 27 in (69 cm) "D" handle
7	157-2266	Shovel, Round Point with 27 in (69 cm) "D" handle



Universal Level 9U-7329

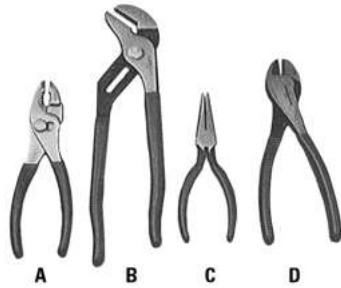
- Made of high-impact ABS
- Has two easy-to-read Plexiglas vials, one a vertical angle dial adjustable from 0° to 180°
- Includes a clear plastic gift box

Yellow Grip Pliers Set, 3 Piece 233-1639

- Hardened cutting edges stay sharper longer and cut with less effort
- Machined cutter heads for matched blades
- Black oxide finish
- Vinyl grip

PART NO.	DESCRIPTION	LENGTH	
		(in)	(mm)
6V-6192	Combination Pliers	7.50	190.5
6V-6193	Diagonal Cutter Pliers	7.30	185.7
6V-6194	Needle Nose Pliers	7.10	181.0

Hand Tools



Combination and Multiple Position Pliers

TYPE	PART NO.	DESCRIPTION	LENGTH		FINISH	VINYL GRIP
			(in)	(mm)		
A	6V-6192	Combination Pliers	7.50	190.5	Black Oxide	Yes
A	213-1983	Combination Pliers	6.30	159.3	Chrome	Yes
A	1S-0255	Combination Pliers	6.40	163.5	Chrome	No
B	214-7347	Multiple Position Pliers	12.00	304.8	Chrome	Yes
B	6V-6195	Multiple Position Pliers	9.30	235.0	Black Oxide	Yes
B	236-1169	Multiple Position Pliers	16.0	400.0	Chrome	Yes
C	6V-6194	Needle Nose Pliers	7.10	181.0	Black Oxide	Yes
D	6V-6193	Diagonal Cutter Pliers	7.30	185.7	Black Oxide	Yes
Not shown						
	212-3607	End Cutter Pliers	7.40	187.3	Black Oxide	Yes
	8H-8582	Vise Grip, Straight Jaw	9.80	250.0	Chrome	No
	214-7348	Vise Grip, Curved Jaw	9.80	250.0	Chrome	No
	246-5128	Locking Pliers, Straight Jaw	5.00	127.0	Black/Yellow	No
	246-5129	Locking Pliers, Curved Jaw	7.00	177.8	Black/Yellow	No
	246-5131	Locking Pliers, Long Rounded Jaw	10.00	254.0	Black/Yellow	No
	246-5132	Locking Pliers, Curved Jaw w/cotter	10.00	254.0	Black Yellow	No
	246-5133	Locking Pliers, Straight Jaw	10.00	254.0	Black Yellow	No
	246-5134	Locking Pliers Set, 5 piece				
	236-1169	Multiple Position Pliers	16.00	400.0	Chrome	Yes



Straight Tips

Retaining Ring Pliers

ITEM	PART NO.	TIP SIZE (in)	TYPE
1	1P-1863 (No. 26)	0.12	External
2	1P-1861 (No. 25)	0.09	Internal
3	1P-1857 (No. 23)	0.07	Internal
4	1P-1855 (No. 22)	0.04	External
5	1P-1859 (No. 24)	0.07	External
6	1P-1853 (No. 21)	0.04	Internal



Right Angle Tips

ITEM	PART NO.	TIP SIZE (in)	TYPE
1	1P-1864 (No. 26-90)	0.12	External
2	1P-1862 (No. 25-90)	0.09	Internal
3	1P-1858 (No. 23-90)	0.07	Internal
4	1P-1856 (No. 22-90)	0.04	External
5	1P-1860 (No. 24-90)	0.07	External
6	1P-1854 (No. 21-90)	0.04	Internal



External Pliers 5P-5197

- Use to compress or expand large retaining rings
- A double ratchet locks to hold the handles at any given point without hand pressure
- Gap between the plier tips ranges from 0.50 in (12.7 mm) fully closed to 3.00 in (76.0 mm) fully open

ITEM	PART NO.	DESCRIPTION
1	5P-5197	External Pliers
2	136-1452	Internal Pliers
3	1U-6728	Tip Set
4	1U-6728	Tip Set
Not shown	6V-2062	Tip Set, 90° (Used for 5P-5197)



Internal Retaining Ring Pliers 1U-8758

- Used to remove and install the large internal retaining rings in power shift transmissions
- Overall length: 29.00 in (737.0 mm)
- Double ratchet lock
- Pliers include 0.15 in (3.8 mm) diameter tips
- Service Part: 1U-8759 Replacement Tips (2 per package)



External Retaining Ring Pliers 2P-8312

- Used to remove and install tempered steel retaining rings used in many applications
- Right angle tips to provide the necessary clearance where the lock ring is accessible only from a perpendicular position



Pin Punch Set, 7 Piece 226-1900

- Replaces discontinued 1U-7250 Pin Punch Set, 7 Piece
- Individually heat treated for uniform hardness
- Includes pouch

PART NO.	POINT SIZE (in)	LENGTH (in)	LENGTH (mm)
226-1901	1/16	4.0	102
226-1902	3/32	4.5	114
226-1903	1/8	5.0	127
226-1904	5/32	5.5	140
226-1905	3/16	5.5	140
226-1906	7/32	7.0	178
226-1907	1/4	7.0	178

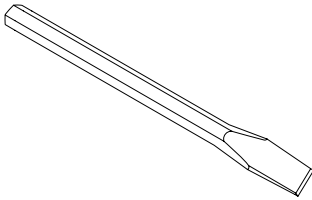
Hand Tools



Drift Punch Set, 5 Piece 227-3129

- Replaces discontinued 1U-7260 Drift Punch Set, 5 Piece
- Material: high carbon steel
- Individually heat treated for uniform hardness
- Includes pouch

PART NO.	POINT SIZE (in)	LENGTH (in)	LENGTH (mm)
227-3130	1/8	9.0	229
227-3131	3/16	11.0	279
227-3132	7/32	12.0	305
227-3133	1/4	12.0	305
227-3134	5/16	12.0	305



Chisel Group, 5 Piece 227-3795

- Individually heat-treated for uniform hardness
- Resharpened and polished after blasting for a sharper cutting edge
- Includes pouch

PART NO.	SERVICE PARTS PUNCH SIZE (in)	LENGTH (in)	LENGTH (mm)
227-3796	5/16	4.50	114.3
227-3797	3/8	5.00	127.0
227-3798	7/16	5.50	139.7
227-3799	1/2	5.75	146.1
227-3800	5/8	6.00	152.4



Individual Chisels and Punch Pieces

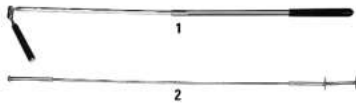
- Hot-formed from fine alloy steel and heat treated for maximum hardness – they hold their edges and points

ITEM	PART NO.	PUNCH SIZE (in)	LENGTH (in)	LENGTH (mm)	TYPE
1	8H-8578	3/8	9.50	241.3	Punch
2	1F-1161	3/4	7.00	177.8	Cold Chisel
3	1F-1159	3/16	6.00	152.4	Center Punch
Not shown					
	8H-8579	5/32	8.00	203.2	Punch
	1F-1160	13/32	5.50	139.7	Cold Chisel
	1U-7296	3/16	6.25	158.8	Center Punch
	8T-0832	1/4	5.63	142.7	Cape Chisel



Feeler Gauges

ITEM	PART NO.	DESCRIPTION
1	1U-7234	Feeler Gauge, 25 Blade, 0.0015 in – 0.040 in
2	8H-8581	Feeler Gauge, 25 Blade, 0.0015 in – 0.025 in
Not shown	1B-9660	Valve Clearance Gauge, 6 Blade, 0.005 in – 0.010 in



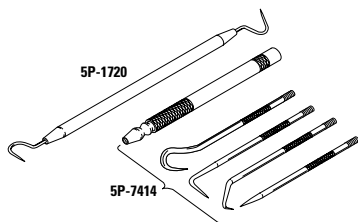
Retrieval Tools

ITEM	PART NO.	DESCRIPTION
1	1U-7262	Telescoping Magnet
2	146-2728	Flexible Pickup Tool



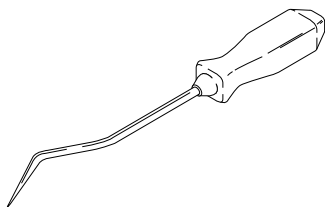
Putty Knife/Scraper

PART NO.	DESCRIPTION	SIZE	
		(in)	(mm)
8H-8580	Scraper	1.50 wide	38.1 wide



Seal Pick 5P-1720 Seal Pick Kit 5P-7414

- Used to remove and install all types of oil seals
- One end of pick is pointed for prying out flexible seals
- Blunt, hook end is used to align seals for installation and to eliminate the twist that occurs when installing O-ring or quad-ring seals
- Both ends of the pick are hardened and provide much greater strength than would normally be expected from a tool this size



Seal Pick 195-4609

Model: All Hydraulic Cylinders

- Used to remove cylinder rod seals
- Large size allows faster and easier removal of seals from large hydraulic cylinders
- Heavy-duty design
- Overall length: 9.80 in (248.0 mm)

Hand Tools



Utility Knife and Blades

- “Slick lock” push-button knife that includes 2 blades stored in the handle

4C-4870 UTILITY KNIFE		
Length	6 in	152.4
4C-4871 UTILITY KNIFE BLADES		
Thickness	0.025	0.635
Quantity	100 blades per box	



Scratch Brushes

- Hand scratch brushes are excellent for removing rust, scale, old paint, chips and dirt, and for cleaning castings and metal parts
- Provide long, effective service at extremely low cost

PART NO.	DESCRIPTION	SIZE
1U-9915	Curved Handle Brush	0.014 in (3 x 19 Row)
1U-9916	Curved Handle Brush	0.012 in (4 x 19 Row)
1U-9917	Shoe Handle Brush	0.014 in (4 x 16 Row)
1U-9918	Inspection Stainless Brush	0.006 in (3 x 7 Row)



Corner Cleaner Wire Brush 160-0774

- Quickly removes flaking paint, rust, and scale
- Handy small size with pointed end works well in hard to reach areas
- Full size handle with finger grips and thumb rest provides added control and comfort
- Made of tough polypropylene
- Overall length: 10.00 in (254.0 mm)



Longneck Wire Brush 160-0772

- Excellent for removing rust, scale, old paint, chips, or dirt
- Unique wrap-around handle protects your fingers
- Full size handle and molded finger grips add control and reduce fatigue
- Over 80 yards of wire for maximum performance
- Made of tough polypropylene
- Heavy-duty steel scraper has a baked-on, rust resistant finish
- Scraper is permanently secured to brush
- Scraper width: 3.00 in (76.2 mm)
- Overall length: 13.00 in (330.2 mm)



Industrial Wire Scrubber 160-0775

- Quickly removes flaking paint, rust, and scale
- Dual grip design reduces fatigue – grasp either the handle or specially molded block
- Made of tough polypropylene
- Overall length: 7.00 in (177.8 mm)



Parts Cleaning Brushes

ITEM	PART NO.	DESCRIPTION	WIRE SIZE	WIRE ROW
1	1U-9920	11 in O.A.L.	Size #10	Black Polypropylene
2	1U-9919	11 in O.A.L.	Size #10	Tampico
3	1U-9922	11 in O.A.L.	Size #10	Unitized
4	2B-4317	10¾ in O.A.L.	Paint Style 1½ in	Black Nylon



Paint Brushes

- Use with interior or exterior paints, stains, varnishes, and urethanes
- Quantity: one box of 12 brushes

PART NO.	SIZE (W X L) (in) (mm)		MATERIAL
262-9749	1 x 7	25 x 178	nylon brush, metal ferrule, plastic handle
262-9750	2 x 8	51 x 203	nylon brush, metal ferrule, plastic handle
262-9752	3 x 8	76 x 203	hog bristle brush, metal ferrule, wood handle

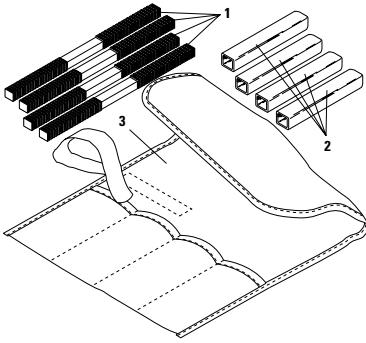


Acid Brushes

- Genuine horsehair bristles, crimped with flat tin handle
- Chemical resistant handle

PART NO.	DESCRIPTION	SIZE (in)
1U-9977	Acid Brush	¾
1U-9978	Acid Brush	½
1U-9979	Acid Brush	9/16

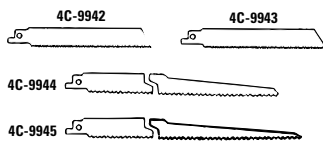
Hand Tools



Thread File Group 154-9315

- Used to renew damaged external threads on any diameter shaft (right or left handed).
- Cross-cut and thread proportional to thread pitch (helps eliminate file skipping or jumping out of fine pitches).
- Each file has eight separate pitches.
- Red plastic handle protects hands.

ITEM	DESCRIPTION	PITCH
1	Metric Thread File Inch Thread File Inch Thread File Pipe Thread File	0.75, 1.00, 1.25, 1.50, 1.75, 2.00, and 3.00 11, 12, 13, 14, 16, 18, 20, and 24 tpi 9, 10, 12, 16, 20, 27, 28, and 32 tpi 8, 10, 11 ½, 14, 16, 18, 24, and 27 tpi
2	Plastic handle	
3	Roll-up Pouch	



Saw Blades – designed for use on most saws

BI-METAL ALL-PURPOSE TIGER™ SAW BLADES				
PART NO.	LENGTH	TEETH/INCH	QTY/PKG	RECOMMENDED USE
4C-9942	6 in (152 mm), flexible	18	5	Heavy gauge (non-ferrous metals) – bar and angle stock-stainless-galvanized pipe-tubing (over 18 ga.)
4C-9943	6 in (152 mm), flexible	14	5	Heavy gauge (non-ferrous metals) – bar and angle stock-cast aluminum- copper-brass-galvanized pipe-tubing (over 18 ga.)
4C-9944	9 in (229 mm)	5/7	5	General roughing-in wood
4C-9945	12 in (305 mm)	6	5	General roughing-in wood

BIM AND HCS SAW BLADES (NOT SHOWN)				
PART NO.	LENGTH	TEETH	QTY/PKG	TEETH SPECS
1U-9234	12 in (305 mm)	18 in (457 mm)	5	Raker BIM ¹
1U-9236	12 in (305 mm)	24 in (610 mm)	10	Wavy BIM
1U-9238	12 in (305 mm)	32 in (813 mm)	5	Wavy BIM
1U-9240	12 in (305 mm)	18 in (457 mm)	5	Raker HCS ²
1U-9242	12 in (305 mm)	24 in (610 mm)	5	Wavy HCS
1U-9244	12 in (305 mm)	32 in (813 mm)	5	Wavy HCS

¹ BIM – All purpose blade, highly flexible, for the most difficult materials.

² HCS – High carbon steel blade, for non-hard materials.



214-6152
53" Combo



214-6146
30" Combo

Tool Storage Units

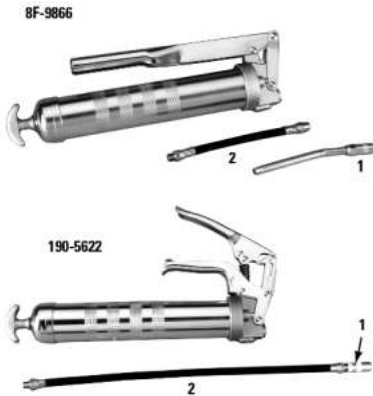
- 40 inch and 30 inch top chests have a top compartment – gas spring in 40 inch top chest and slide lock on 30 inch top chest allow top compartment to open easily
- Double-wall steel construction provides strength and durability to support loaded drawers so they stay level
- Full length stiffener under the cover is welded to sides of the cover to provide the strongest top cover available and to minimize racking
- Extra deep drawer pulls give more finger room (almost 1 inch) to comfortably pull the drawer
- Rolled edges on drawers add strength, rigidity, and safety
- Ball-bearing slides provide extra weight support with smooth, one-hand operation
- Ergonomic handle design provides comfortable gripping and ease of maneuvering
- Gussets on corners improve cabinet strength so the cabinet stays square
- Drawer liners included
- Caster plates and weldnuts keep casters tight for smooth rolling – caster screws pass through double thick steel plates and pre-threaded weldnuts

PART NO.	DESCRIPTION
214-6144	30 inch Roller Cabinet
214-6145	30 inch Top Chest
214-6146	30 inch Combo (Roller Cabinet and Top Chest) ¹
214-6147	40 inch Roller Cabinet
214-6148	40 inch Top Chest
214-6149	40 inch Combo (Roller Cabinet and Top Chest) ¹
214-6150	53 inch Roller Cabinet
214-6151	53 inch Top Chest
214-6152	53 inch Combo (Roller Cabinet and Top Chest) ¹
214-7344	Side Cabinet (bulk)
214-7345	Side Cabinet (6 drawer)

¹ Combo part numbers available for sale only in North and South America

For additional tool boxes, tool chests, cases and accessories see GECJ0001.

Shop Supplies



Lever Grease Gun, Model Pro “L” 8F-9866 Pistol Grip Grease Gun 190-5622

- Heavy-duty construction
- Cast iron head equipped with a check valve and an air-bleed valve.
- Spring primed
- Two way loading
- Uses standard Cat Grease cartridges (14.5 oz).
- Lever gun will operate with partial lever strokes for use in close quarters.
- Zinc plated

ITEM	PART NO.	DESCRIPTION
1	190-1668	Coupler
2	190-1669	Hose Assembly, 12 in long
Not shown	190-5623	Hose Assembly, 18 in long (optional)
Maximum operating pressure of assembly		10,000 psi (68,948 kPa)

ITEM	PART NO.	DESCRIPTION
1	190-1668	Coupler
2	190-5623	Hose Assembly, 18 in long
Not shown	190-1669	Hose Assembly, 12 in long (optional)
Maximum operating pressure of assembly		4500 psi (31,026 kPa)

For additional grease guns see GECJ0001.



Suction Gun 1U-7683

- Used for removing oil from filter housings and other compartments.



Grease Gun Holder 1U-7684

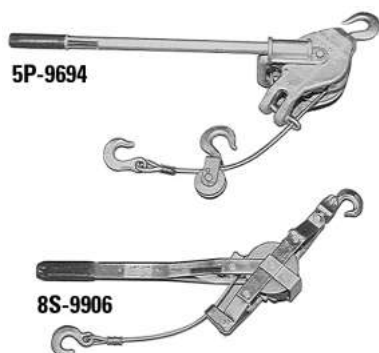
- Mounts on wall or on machinery.
- Holds any standard size grease gun.



Hydraulic Service Jack, 2 Ton 1U-9744

- Removable handle for easy transportation and compact storage.
- Flanged and ribbed sideplates.
- Long handle for less lifting effort.
- Full swivel rear casters and large lifting cap for handling ease.
- Hydraulic unit is sealed to keep out grit, grime and moisture.
- Automatic valve prevents overloading.
- Chassis longer and wider to provide superior stability.
- Picks up lower – raises higher to add value to your investment.
- Adjusts to more models and gives you more working room.
- Lifting cap totally behind center-line of axle for safety and stability.
- In-line pump assembly and cast-iron handle socket permit direct alignment of pump with handle. No off-center forces.
- Fully repairable

PART NO.	CAPACITY	LOW PICKUP HEIGHT	HIGH LIFTING POINT	CAP SIZE	HANDLE LENGTH	CHASSIS LENGTH	CHASSIS HEIGHT (MAX.)	WHEEL (DIA.)	MIN. PSI FOR RATED LOAD
1U-9744	4000 lb (1814 kg)	3¾ in (10 cm)	20 in (51 cm)	6⅞ in (16 cm)	50 in (127 cm)	26½ in (67 cm)	6¾ in (17 cm)	3¾ inch Front 2½ inch Caster	—



Ratchet Puller 8S-9906 Ratchet Puller 5P-9694

- Used for many pulling operations within their capability.
- Capacities are given below.

8S-9906 RATCHET PULLER (USED WITH TRACK TOOL CART)	
Lifting capacity	1000 lb

5P-9694 RATCHET PULLER	
Single line capacity	1700 lb
Double line capacity	3400 lb

Shop Supplies



Tow Straps

- Ability to take shock – the stretching of the tow strap allows a cushion against sudden shock. When loaded at rated capacity, a nylon strap will stretch 6-8%. They will return to normal length when not loaded.
- Lightweight – tow straps are lightweight, tough, woven nylon which withstands grease, water and multiple folding.
- Flexible – tow strap flexibility makes handling in cold weather a snap.
- Storage – coiling and storing in vehicle or tool box is simple and easy.
- Alloy hooks – tow strap's alloy hooks are an integral part of the strap.

PART NO.	STRAP WIDTH (in)	LENGTH (ft)	PLY	BREAKING STRENGTH (lb)	HOOK SIZE (in)
4C-3049	2	20	Single	19,600	3/8
4C-3050	2	25	2	39,200	1/2



Automatic Power Tapes

5P-3277, 1U-9366, 1U-9367, and 1U-9368

- 2-color
- Handsome, chrome-finished case
- Removable belt clip

232-5041

- Ergonomically designed
- Magnetic tip holds tape in place and makes long distance measuring much easier
- Yellow and black plastic



PART NO.	BLADE WIDTH (in) (mm)		BLADE LENGTH (ft) (m)		GRADUATIONS IN ENGLISH	GRADUATIONS IN METRIC	LOCKING FEATURE
5P-3277	1/2	12.7	10	3	1 in, 1/10 in	1.0 cm, 1.0 mm	Yes
1U-9366	3/4	19.05	16	5	1 in, 1/16 in	1.0 cm, 1.0 mm	Yes
1U-9367	1	25.4	26	8	1 in, 1/16 in	1.0 cm, 1.0 mm	Yes
1U-9368	1	25.4	30	9	1 ft, 1 in, 1/16 in	—	Yes
232-5041	1	25.4	26	8	1 ft, 1 in, 1/16 in	1.0 cm, 1.0 mm	Yes



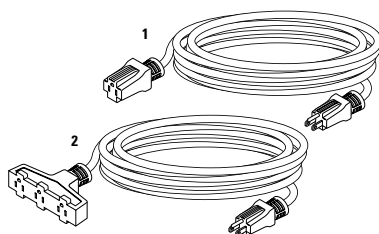
Tape Measures

9U-7327 Tape Measure, 1/2 inch x 10 ft

- Can read dimensions directly on the tape by looking in a see-through window
- Great for inside measurements such as window dimensions
- Readings in mm and inches

9U-7326 Tape Measure, 1/4 inch x 6 ft

- Black ABS-encased steel tape
- Slim and contemporary – fits easily in your pocket
- Has auto stop and return
- Readings in mm and inches



Heavy-duty Contractor and Industrial Application Extension Cords

- Designed for heavy-duty use by contractors and industrial applications
- Outer jacket protects against rough handling and extreme weather conditions
- Provides superior resistance to sunlight, ozone, cracking, oils chemicals, and moisture
- All cords have CAT logo printed on cord
- All extension cords are UL (Underwriters Laboratory) listed and meet OSHA (Office of Safety and Health Administration) requirements
- All plugs and outlets are NEMA (National Electrical Manufacturers Association) designated – 5-15P plug and 5-15R outlet

ITEM	PART NO.	LENGTH (ft)	MATERIAL	OUTLET	WIRE SIZE	RATING	VOLTAGE RATING	MAXIMUM VOLTAGE	OPERATING TEMPERATURE	WEIGHT
1	241-8522 241-8529 241-8530	25 50 100	all weather	single	12 gauge, 3 conductor	SJTOW	—	300 volts	—	—
2	243-1874 243-1875 243-1876	25 50 100	all-weather vinyl	triple	12 gauge, 3 conductor	SJTOW	300 volts	—	-31 to 140°F (-35 to 60°C)	one-third lighter than ordinary cords
2	243-1877 243-1878 243-1879	25 50 100	all-weather vinyl	triple	10 gauge, 3 conductor	SJTOW	300 volts	—	-31 to 140°F (-35 to 60°C)	one-third lighter than ordinary cords

¹ (S) Hard Surface, Flexible Cord, General Use; (J) 300 Volt cord or smaller; (E) Elastic Synthetic Rubber, Good Low Temperature Cord; (W) Watertight Cord; (O) Oil Resistant; (A) Low Temperature Rated; (T) Thermo Grade Plastic

Shop Supplies



Triple-Tap Extension Cord 179-7053

- 120 Volt/60 Hz reel extension cord is 50 ft (15.2 m) long, made from 16/3 wire with a built-in 10 amp circuit breaker.
- Case is made from shatter resistant ABS plastic.
- Two year warranty on workmanship and material defects.
- UL Approved



Padlocks

MEDIUM SECURITY	1U-9782	1U-9781	1U-9777	1U-9779
TYPE	SOLID BRASS	SOLID BRASS	LAMINATED BRASS	LAMINATED BRASS
Pin tumblers	5	4	4	4
Body width	2 in (50.8 mm)	1 $\frac{9}{16}$ in (39.68 mm)	1 $\frac{3}{4}$ in (44.45 mm)	1 $\frac{1}{2}$ in (38.1 mm)
Shackle diameter	$\frac{9}{32}$ in (7.14 mm)	$\frac{1}{4}$ in (6.35 mm)	$\frac{5}{16}$ in (7.94 mm)	$\frac{5}{32}$ in (7.14 mm)
Horizontal shackle clearance	1 in (25.4 mm)	1 $\frac{3}{16}$ in (20.63 mm)	$\frac{3}{4}$ in (19 mm)	$\frac{5}{8}$ in (15.88 mm)
Vertical shackle clearance	1 in (25.4 mm)	$\frac{7}{8}$ in (22.23 mm)	1 $\frac{5}{16}$ in (23.81 mm)	$\frac{3}{4}$ in (19 mm)

HIGH SECURITY STEEL BODY	1U-9776	1U-9772	1U-9773	1U-9770	1U-9775	1U-9771	1U-9774 ¹
TYPE	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
Pin tumblers	4	4	4	4	4	4	4
Body width	1 $\frac{1}{8}$ in (28.58 mm)	1 $\frac{1}{2}$ in (38.1 mm)	1 $\frac{1}{2}$ in (38.1 mm)	1 $\frac{3}{4}$ in (44.45 mm)	2 in (50.8 mm)	1 $\frac{3}{4}$ in (44.45 mm)	1 $\frac{1}{2}$ in (38.1 mm)
Shackle diameter	$\frac{3}{16}$ in (4.76 mm)	$\frac{9}{32}$ in (7.14 mm)	$\frac{9}{32}$ in (7.14 mm)	$\frac{5}{16}$ in (7.94 mm)	$\frac{3}{8}$ in (9.5 mm)	$\frac{5}{16}$ in (7.94 mm)	$\frac{9}{32}$ in (7.14 mm)
Horizontal shackle clearance	$\frac{1}{2}$ in (12.7 mm)	$\frac{5}{8}$ in (15.88 mm)	$\frac{5}{8}$ in (15.88 mm)	$\frac{3}{4}$ in (19 mm)	1 $\frac{5}{16}$ in (23.81 mm)	$\frac{3}{4}$ in (19 mm)	$\frac{5}{8}$ in (15.88 mm)
Vertical shackle clearance	$\frac{9}{16}$ in (14.29 mm)	$\frac{3}{4}$ in (19 mm)	1 $\frac{1}{2}$ in (38.1 mm)	1 $\frac{5}{16}$ in (23.81 mm)	1 in (25.4 mm)	2 $\frac{1}{2}$ in (63.5 mm)	$\frac{3}{4}$ in (19 mm)

¹ The 1U-9774 is 4 padlocks keyed alike.



Combination Padlocks

Choose the convenience of keyless locks.

1U-9783

- Strong double-armored construction with smooth 3-number dialing
- Black dial face – easy-to-read
- Self-locking, automatically disarranging tumblers
- Permanently lubricated rust resistant inner working parts

1U-9784

- Resettable combination lock makes it easy for owners to give employees or friends temporary access, and then restore private control in seconds by simply changing combination
- Multiple padlock users also can set whole groups of locks “combination-alike” for added convenience
- Corrosion resistant solid brass case
- Both locks carded for display

CARDER FOR DISPLAY	1U-9783	1U-9784
Combination type	Fixed	Resettable
Lock mechanism	3-digit dialing	4-digit dialing
Body width	1 $\frac{7}{8}$ in (47.63 mm)	2 in (50.8 mm)
Shackle diameter	$\frac{9}{32}$ in (7.14 mm)	$\frac{5}{16}$ in (7.94 mm)
Horizontal shackle clearance	$1\frac{3}{16}$ in (20.64 mm)	1 in (25.4 mm)
Vertical shackle clearance	$\frac{3}{4}$ in (19 mm)	1 in (25.4 mm)



Oil Absorbent Pads 245-5836

- Exclusive “micro-webs” absorbs up to 100% more oil than other leading melt-blown oil absorbents
- Improved absorbency means more liquid pickup, with less product, which can result in lower costs for the user
- Very little lint to minimize contamination
- One bale picks up an average of 25 gallons of oil
- Comes as one bale of 50, 17 x 19 in (43.2 x 48.3 cm) pads

Shop Supplies



Absorbent Socks

- Tubular absorbent socks absorb and contain leaks and spills around machinery (hydraulic oil, coolants, non-aggressive fluids, water, and even hazardous fluids, such as PCB oils and solvents)
- Fine-grade vermiculite filler (non-biodegradable) quickly soaks up leaks and drips
- Reusable for water spills only
- Meets OSHA regulation 29 CFR 1910.22(a)(2) for dry and clean workplace floors
- Material Safety Data Sheets (MSDS) available

PART NO.	QUANTITY PER BOX	ABSORPTION PER BOX		ABSORPTION PER SOCK		SIZE	SHIPPING WEIGHT	
		(gal)	(L)	(gal)	(L)		(lb)	(kg)
235-0844	40	30	113	0.7	2.8	3 in (75 mm) diameter x 48 in (121 cm) long	50	23
254-3969	8	15	57	1.8	6.8	3 in (75 mm) diameter x 10 ft (3 m) long	25	11



Absorbent Pillows

- Absorbent pillow soaks up small to medium-size spills of oil and other non-aggressive fluids (works best once a spill has been contained)
- High absorption/fast-wicking cellulose fibers begin to work when pillow contacts liquid and continue until fully saturated
- Strong, polypropylene cover will not tear when handling
- Meets OSHA regulation 29 CFR 1910.22(a)(2) for dry and clean workplace floors
- Material Safety Data Sheets (MSDS) available



PART NO.	QUANTITY PER BOX	ABSORPTION PER BOX		ABSORPTION PER SOCK	SIZE	SHIPPING WEIGHT
		(gal)	(L)			
235-0845	40	20	76	64 oz (1.9 L)	10 x 10 x 2 in (25 x 25 x 5 cm)	23 lb (10 kg)
193-0768	14	14	53	1 gal (3.7 L)	20 x 8 1.5 in (51 x 20 x 3.8 cm)	15 lb (6.8 L)

Reference

NELG5036



Heavyweight Absorbent Material for Most Oil, Water-Based Fluids, and Chemicals

- Heavyweight, gray, absorbent material designed to absorb chemicals, solvents, oils, coolants, petroleum products, water, water-based fluids, and even acids and bases
- Made from flame-resistant material which can be used around spark-prone areas, such as welding or grinding equipment
- Material will not degrade or have a chemical reaction to a wide variety of chemicals and strong solvents
- Material: 100% polypropylene
- Meets OSHA regulation 29 CFR 1910.22(a)(2) for dry and clean workplace floors
- Material Safety Data Sheets (MSDS) available

PART NO.	DESCRIPTION	QUANTITY PER BOX	ABSORPTION PER BOX/ROLL		ABSORPTION PER PAD		SIZE	PLY	SHIPPING WEIGHT	
			(gal)	(L)	(oz)	(mL)			(lb)	(kg)
235-0847	Absorbent roll	1 roll	41	155	—	—	30 in (76 cm) wide 150 ft (46 m) long perforated to 10 in (25 cm) x 15 in (38 cm)	8	30	14
235-0848	Absorbent pad	100 pads	24	91	31	917	16 x 20 in (41 x 51 cm)	8	19	9
235-0865	Absorbent pad (in dispenser box)	100 pads	21	80	27	798	17 x 19 in (43 x 48 cm)	3	17	8
235-0866	Absorbent pad, Overseas only	100 pads	2	80	27	798	17 x 19 in (43 x 48 cm)	3	17	8
235-0867	Absorbent roll	1 roll	43	163	—	—	38 in (96 cm) wide 144 ft (44 m) long	3	34	15
235-0868	Absorbent roll, Overseas only	1 roll	43	163	—	—	38 in (96 cm) wide 144 ft (44 m) long perforated every 10 in (25 cm)	3	34	15
261-0114	Absorbent mat	1 roll	14	53.06	—	—	30 in (76.2 cm) wide 50 ft (15.25 m) long	8	11	5

Absorbs the following fluids and chemicals

Acetone	Cyclohexanone	Isopropanol	Propylene Glycol
Acetonitrile	Dichloromethane	Jet Fuel (JP-5)	Sodium Hydroxide (50%)
Aluminum Salts	Diethylamine	Kerosene	Styrene
Ammonium	Dimethylformamide	Methanol	Sulfuric Acid (50%)
Hydroxide	Ethyl Acetate	Methyl Ethyl Ketone	Sulfuric Acid (98%)
Barium Salts	Formaldehyde	Mineral Oil	Tetrachloroethylene
Benzyl Alcohol	Gasoline	Mineral Spirits	Tetrahydrofuran
Boric Acid	Glycol Ether	Naphtha	Thionyl Chloride
Butanol	Hexane	Nitric Acid (70%)	Toluene
Calcium Chlorite	Hydrazine	Nitric Acid fuming (90%)	1, 1, 1-Trichloroethane
Carbon Disulfide	Anhydrous	Nitrobenzene	Trichloroethylene
Carbon Tetrachloride	Hydrochloric Acid (37%)	Perchloroethylene	Triethylamine
Chloroform	Hydrogen Peroxide (30%)	Phenol	Turpentine
Cupric Chloride	Hydrofluoric Acid (48%)	Potassium Hydroxide 50%	Water

Shop Supplies



High-Visibility Yellow Mat 261-0115

- Absorbs oils, coolants, solvents and water
- Absorbs a wide range of chemicals without degrading or causing a dangerous chemical reaction
- Flame-resistant – safe for spark-prone areas such as welding robots

Absorbency	33 gal (125 L) per bag
Length	150 ft (46 m)
Width	24 in (61 cm)
Weight	24 lb (10.9 kg)
Material	100% polypropylene
Ply	8



Oil-Only Absorbent Material

- Heavyweight, white, absorbent material used for spill cleanup and everyday maintenance absorption of non-flammable petroleum products and petroleum-based fluids, such as oil, gasoline, kerosene, diesel fuel, solvents, etc.
- Absorbs petroleum-based fluids only – ideal for situations where water absorption is not necessary
- Material will not react to petroleum-based fluids
- Material: 100% polypropylene
- Meets OSHA regulation 29 CFR 1910.22(a)(2) for dry and clean workplace floors
- Material Safety Data Sheets (MSDS) available

PART NO.	DESCRIPTION	QUANTITY PER BOX	ABSORPTION		ABSORPTION		SIZE	SHIPPING WEIGHT		PLY	COLOR
			PER BOX/ROLL (gal)	(L)	PER PAD (oz)	(mL)		(lb)	(kg)		
235-0850	Oil-Only Absorbent Roll	1 roll	41	155	—	—	30 in (76 cm) wide 150 ft (46 m) long	30	14	8	White
235-0853	Oil-Only Absorbent Pad	50 pads	12	45	31	917	16 x 20 in (41 x 51 cm)	9	4	8	White
235-0869	Oil-Only Absorbent Pad	100 pads	20	76	25	739	17 x 19 in (43 x 48 cm)	17	8	3	White
235-0870	Oil-Only Absorbent Pad, Overseas Only	100 pads	20	76	25	739	17 x 19 in (43 x 48 cm)	17	8	3	White
235-0871	Oil-Only Absorbent Roll	1 roll	40	151	—	—	38 in (96 cm) wide 144 ft (44 m) long	34	15	3	White
235-0872	Oil-Only Absorbent Roll, Overseas Only	1 roll	40	151	—	—	38 in (96 cm) wide 144 ft (44 m) long	34	15	3	White



Lightweight Absorbent Roll 235-0849

- Ideal for light machine overspray and small, annoying leaks of oils, coolants, solvents, and water
- Cross roll perforations – easily and quickly tear to any size sheet, as small as 10 x 24 in (25 x 61 cm)
- Meets OSHA regulation 29 CFR 1910.22(a)(2) for dry and clean workplace floors
- Material Safety Data Sheets (MSDS) available

QUANTITY PER BOX	1 ROLL
Absorption per box	33 gal (125 L)
Size	24 in (61 cm) wide by 300 ft (91 m) long
Material	100% polypropylene
Ply	8
Shipping weight	23 lb (11 kg)

¹ Equivalent – not an exact replacement



WypAll® X60 254-3422

- Designed to outperform rags with Hydroknit technology in lightweight wiper
- Reinforced for extra scrubbing and cleaning power
- Leaves no residue
- Good on grease and oil, adhesive cleaning and cable lubricant removal
- Good for applying thinners and solvents

Size	9.1 x 16.8 in (23.1 x 42.7 cm)
Color	white
Quantity	126 wipers per box, 10 boxes per case



Low Lint Task Wipers 265-2256

- For lab environments where clean rooms require low lint
- Excellent for surface wiping in clean manufacturing environments – fuel systems, hydraulics, diagnostic equipment and precision instruments
- Continuous filament rayon/polyester spun-like blend for cloth-like feel
- Excellent absorption rate and capacity
- Solvent resistant
- Double wrapped in anti-stat packaging

Size	8 x 8 in (20.3 x 20.3 cm)
Color	white
Quantity	100 wipers per pack, 3 packs per case

Shop Supplies



WypAll® Disposable Wipers 1U-9579

- General purpose wiper for industrial cleaning, maintenance and personal use
- Sponge-like inner layer for quick absorbency
- Soft, touchable outer layer
- Easily absorbs large water-based liquid, lubricant and oil spills
- Removes soil and liquid from face and hands
- Use with 1U-5432 Paper Wiper Dispenser

Size	12.5 x 14.4 in (31.8 x 36.6 cm)
Color	white
Quantity	56 wipers per bundle, 18 bundles per case



WypAll® Disposable Pop-up Wipers

- General purpose wiper for industrial cleaning, maintenance and personal use
- Sponge-like inner layer for quick absorbency
- Soft, touchable outer layer
- Easily absorbs large water-based liquid, lubricant and oil spills
- Removes soil and liquid from face and hands
- Sturdy, corrugate pop-up dispenser carton for extra protection
- Use with 1U-5353 Paper Wiper Grabber – ideal for service truck or outdoor use

PART NO.	WIPER SIZE	COLOR	QUANTITY
1U-9580	10 x 16 in (25.4 x 40.6 cm)	white	100 wipers per carton, 9 cartons per case
1U-9581	10 x 16 in (25.4 x 40.6 cm)	blue	100 wipers per carton, 9 cartons per case



Hard Roll Towels 263-0892

- Towels compressed on roll so more towels fit in same space – no sacrifice in performance, change roll less often
- Size: 8 in x 1000 ft (20.3 cm x 304.8 m) roll
- Color: white
- Material: paper
- Package quantity: 12 rolls



Shop Towel 162-5791

- Excellent absorbency
- Perfect to use on grease or oil
- Low-lint, 100% polypropylene construction
- Good for cleaning and disinfecting surface
- Stands up well to spirits and solvents
- Use with 1U-5432 Paper Wiper Dispenser

Size	12.1 x 16.8 in (30.7 x 42.7 cm)
Quantity	180 per box



Paper Cups 263-0884

- Two-piece construction with tightly rolled rim
- Fully wax coated inside and out with a satin finish
- Capacity: 8 oz (236.8 mL)
- Quantity: 2000 per case



Engine Cover 1U-7427

- Protects engine from dirt and debris
- Can be used as drop cloth or dust cover
- Affordable and disposable

Size	48 x 72 in (122 x 183 cm)
Quantity	50 sheets per case



Film Guard

- Clear poly sheeting protects equipment, machinery, and materials from dust, moisture, and dirt
- More economical than drop cloths
- Material: plastic

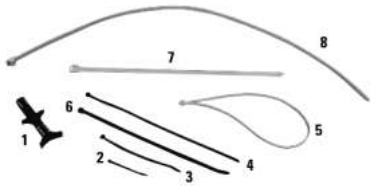
PART NO.	THICKNESS	SIZE
263-0889	4 mil	8 ft x 100 ft (2.4 m x 30.5 m) roll
263-0890	6 mil	20 ft x 100 ft (6 m x 30.5 m) roll

Shop Supplies



Utility Knife 4C-4870

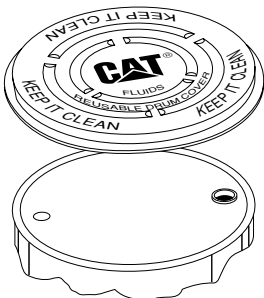
- A “slide lock” pushbutton knife
- 6 in (152 mm) long
- Includes 2 blades stored in the handle
- Service Part: 4C-4871 Replacement Blade Set, 0.025 in (0.635 mm), Qty: 100



Cable Ties and Applicators

- Used to secure wires, cables, tubes, etc.

ITEM	PART NO.	BUNDLE DIAMETER RANGE		LENGTH		STRAP WIDTH		PKG. QTY.	INSTALLER (ITEM 1)
		(in)	(mm)	(in)	(mm)	(in)	(mm)		
2	1S-9593	0.06-0.62	1.5-15.7	3.50	88.9	0.100	2.5	100	1U-5228
2	8L-8413	0.06-1.12	1.5-28.4	5.3	134.6	0.150	3.8	200	1U-5228
3	3S-2093	0.06-1.75	1.5-44.5	6.7	170.2	0.194	4.9	500	1U-5228
4	6K-0806	0.06-4.00	1.5-101.6	14.0	355.6	0.194	4.9	250	1U-5228
5	34-1432	0.06-8.00	1.5-203	27.5	698.5	—	—	1	—
6	7K-1181	0.19-4.00	4.8-101.6	14.0	355.6	0.310	7.9	100	1U-5227
7	5P-5148	1.75-4.75	44.5-120.6	20.1	510.5	0.500	12.7	100	—
8	6V-7555	1.75-12.00	44.5- 305	40.1	1018.5	0.500	12.7	1	—
Not shown	240-1678	0.5-3.125	12.7-79.4	11	279	0.190	4.8	1000	—



Barrel Cover 1U-6156

- Used to cover open or closed top drums – cover snaps onto top of drum
- Supports the Caterpillar contamination control efforts
- Protects drum contents from water induction when stored outside
- Keeps drum top clean and contents ready for use
- Made of long lasting, low density polyethylene – resistant to petroleum-based fluids and ultraviolet rays
- 10 covers per package

Material thickness	0.06 in (1.5 mm)
Inside diameter	22.5 in (571 mm)
Color	Yellow



Sealant Repair Kits

PART NO.	PART NO. (EAME ONLY)
173-0531	185-4005

KIT CONSIST				
PART NO.	PART NO. (EAME ONLY)	DESCRIPTION	SIZE	
			(fl oz)	(mL)
4C-9507	185-3988	Retaining Compound	1.69	50
7M-7456	185-3994	Bearing Mount	1.69	50
9S-3263	185-3996	Thread Lock	1.69	50
5P-3413	185-3992	Pipe Sealant	1.69	50
169-5464	185-4004	Quick Cure Primer	4.5	133



High Vibration No-Mix Adhesive Kits

- Bond wood, metal, glass, most rubbers and plastics – bond serial number plates to engine blocks, transmission, etc.; bond rear view mirrors
- Fast curing – handling strength in minutes; full strength in 2-4 hours
- Heat resistant to 250° F (121° C)
- High strength, vibration and oil resistant
- Adhesive quantity: 0.85 fl oz (25 mL)

PART NO.	PART NO. (EAME ONLY)
154-8874	185-4003



Thread Lock

- Removable strength
- Breakaway torque – 115 in lb (12.995 N•m)
- Prevail torque – 53 in lb (5.989 N•m)
- Service temperature up to 300° F (149° C)
- Medium Gap fill, up to 0.005 in (0.13 mm)
- 10 minute fixture – 24 hour full cure time

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(fl oz)	(mL)
4C-4030	N/A	0.34	10
9S-3263	185-3996	1.69	50

Specialty Chemicals



High Strength Thread Lock

- High strength – permanent
- Breakaway torque – 230 in lb (25.99 N•m)
- Prevail torque – 320 in lb (36.16 N•m)
- Service temperature up to 300° F (149° C)
- Medium Gap fill, up to 0.007 in (0.15 mm)
- 10 minute fixture – 24 hour full cure time

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(fl oz)	(mL)
154-9731	N/A	0.34	10
155-0695	185-3998	1.69	50



High Strength/High Temperature Retaining Compounds

- High temperature capacity – 450° F (232° C)
- Large gap fill 0.015 in (0.38 mm)
- High shear strength – 3000 PSI (21 mPa)
- Medium cure speed – cure time 2-4 hours

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
4C-9506	N/A	0.34	10	10
4C-9507	185-3988	1.69	50	5



Bearing Mounts

- High shear strength – 3000 PSI (21mPa)
- Service temperature up to 300° F (149° C)
- Medium gap fill, up to 0.005 in (0.13 mm)
- Fast cure speed – full cure time 1-2 hours at room temperature

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
4C-4032	N/A	0.34	10	10
7M-7456	185-3994	1.69	50	5



Wicking Sealant

- Locks and seals fasteners after assembly
- Low viscosity approximately 12 cP's (12 mPa)
- Small gap Fill 0.004 inch (0.1 mm) diametral
- High shear strength 3000 PSI (21 mPa) on steel
- Fast cure time 1 hr to full cure
- High heat resistance – up to 400° F (204° C)

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
4C-9508	N/A	0.34	10	5
4C-9509	N/A	1.69	50	10



Cyanoacrylate Adhesive, Clear 157-7228

- Use for instant bonding on mated metal, plastic or rubber parts and assemblies
- Provides impact resistance and good gap filling viscosity for specific bonding requirements with engineered substrates
- Good general purpose “super glue”
- Fast curing and high strength
- Store between 35.6° F to 46.4° F (2° C and 8° C)
- Viscosity: 45 cP's (45 mPa)
- Gap fill: 0.003 inch (0.0762 mm)
- Size: 0.105 oz (3 g)
- See Material Safety Data Sheet (MSDS) for additional information



Cement

- Bond, seal or patch
- Bond cork, leather, rubber, metal – bond headliners and wall insulation in cabs
- Contains flammable solvent

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
5H-2471	185-4591	8	236	12

Specialty Chemicals



General Purpose Spray Adhesive 222-3113

- Works on metal, foam, or decals
- Does not require a catalyst
- Short open time
- Convenient aerosol application
- Excellent general purpose adhesive
- Quickly fixes problems in the shop or field
- Size: 12 oz (340 g)



Epoxy Mixer Cup Kit 5P-3321

- 10 pre-measured mixer packets in each can – each one contains the correct ratio of resin and catalyst
- General purpose, high strength, bonding and sealing
- Size: 1.5 oz (42.5 g)
- Quantity: 10



Pipe Sealant w/Teflon

- Very low shear strength; large gap fill
- Service temperature up to 300° F (149° C)
- Very slow cure speed
- Seal and lock tapered pipe plugs, nipples, and fittings

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
5P-3413	185-3992	1.69	50	10



Quick Cure Primer

- Removes grease and oil from surface
- Reduces cure time on anaerobic sealants and adhesives such as thread lock, retaining compound, and bearing mount
- Convenient aerosol application
- Single-component, non-CFC solvent-based surface activator
- Use when temperature is below 59° F (15° C)

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(fl oz)	(mL)
169-5464	185-4004	4.5	133



RTV Silicone Adhesive Sealant

- Makes formed-in-place gaskets of any size and shape filling voids and irregular surfaces for a positive seal
- Pressurized dispenser produces a consistent and even bead size
- Ready-to-use, no mixing and cures at room temperature
- Excellent weather resistance and extreme flexibility – will not harden or crack
- Adheres to metal, glass, natural and synthetic rubbers, wood, ceramic, other silicone rubbers, painted surfaces, and many plastics
- Resistant to most chemicals, solvents, and oils
- Works for electrical insulating applications
- Non-sag – can be applied to horizontal or vertical surfaces
- Low odor, non corrosive sealant
- Will not harm oxygen sensors

PART NO.	SIZE		COLOR
	(oz)	(g)	
141-5830	7.25	205	Black
141-5831	8.75	248	Blue



Gasket Maker

- Medium strength for rigid flanges where extra shear strength is desired
- Service temperature up to 350° F (175° C)
- Large gap fill, up to 0.020 in (0.5 mm)
- Fast cure speeds

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(fl oz)	(mL)
6V-6640	185-3985	1.69	50



Flexible Gasket Makers

- Moderate strength for thin flexible flanges
- Service temperature up to 350° F (177° C)
- Large gap fill, up to 0.020 in (0.5 mm)
- Fast cure speed

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(fl oz)	(mL)
1U-8846	185-3983	1.69	50
4C-5300	185-3984	10.3	300

Specialty Chemicals

Standard cure
for most
applications



Room Temperature Vulcanizing (RTV) Silicone Adhesive/Sealants

- General purpose bonding and sealing applications
- Resists cracking, shrinking, and migration
- Excellent temperature range
- Can be used for some low pressure gasketing applications
- Minimum temperature: -100° F (-73° C)

High Temperature
Adhesive Sealant



Electronic application RTV
(non-corrosive cure);
Sensor Safe RTV;
Glass to glass bonding —
Windshield seam RTV

Part No.	Part No. (EAME only)	Qty.	Color	Max. Temp. (intermittent)		Max. Temp. (continuous)		Size	
				(°F)	(°C)	(°F)	(°C)	(fl oz)	(mL)
Standard cure for most applications:									
8T-9022	185-3987	10	Blue	500	260	500	260	10.15	300
8T-9014	205-8858	10	Clear	480	249	400	204	10.15	300
4C-9613	N/A	1	Clear	480	249	400	204	3	82.8
3S-6252	185-3986	1	Black	500	260	400	204	3	82.8
High Temperature Adhesive Sealant									
8T-9013	205-8857	10	Red	650	343	600	316	10.15	300
4C-9614	N/A	1	Red	650	343	600	316	3	82.8
Electronic application RTV (Non-corrosive cure)									
8T-0065	186-1527	1	White	500	260	400	204	3	82.8
Sensor Safe RTV									
4C-9612	N/A	1	Ultra-Black	500	260	400	204	3	82.8
Glass to glass bonding – Windshield seam RTV									
119-0781		1	Clear	480	249	400	204	10.15	300



Superior E-Z Thrust Caulker 4C-6922

- Holds any 12 oz. (340 g) tube designed for use with a caulking gun
- Recommended for all grades of caulks, sealants and adhesives from heavy to light consistencies
- Size of cartridge: $\frac{1}{10}$ Gal



Super Ratchet-Type Caulker 4C-6923

- Designed for the professionals who prefer ratchet guns
- Will outlast, outperform all other ratchet guns
- Engineered to withstand heavy use
- Equipped with ladder hook, built-in spout cutter, seal puncture tool, and convenient “D” ring and wrist strap
- Size of cartridge: $\frac{1}{10}$ Gal



Windshield Cleaner 222-3120

- Good for all types of glass
- Safe for plastics, vinyl, tile, and all hard surfaces
- Non-streaking
- Dries completely
- Does not leave a film
- Size: 12 oz (340 g)



Plastic and Rubber Protectant 222-3122

- Contains no silicone
- Formulated with UV inhibitors to protect surface area
- Cleans and protects
- Size: 12 oz (340 g)

Specialty Chemicals



Oil Dyes

- Highly concentrated oil soluble dyes for adding color to lubricating oils, transmission oils, hydraulic oils and fuels
- Visible at concentrations of 1 part in 10,000 or more. It only takes 30 mL (1 oz) to color 473 l (125 gal) of light color oil
- Use it to color code oils to prevent mixups
- Use it to identify the source of leaks when more than one source is possible
- Hint: For sumps with dark colored oil, use oil dyes which are visible in black light (ultraviolet) such as 1U-5572 through 1U-5575

PART NO.	PART NO. (EAME ONLY)	COLOR	SIZE (fl oz) (mL)		QTY.
9U-5031	185-4779	Red	8	240	1
9U-5032	185-4781	Blue	8	240	1

Toolmaker's Ink/Layout Blue

- Use to check fit on fuel injectors/sleeves
- Check fits between engine valves and valve seats
- Allow to dry and use for sheet metal layout
- Deep blue color makes scribed lines stand out

PART NO.	QTY.	DESCRIPTION	SIZE
9U-6075	12	Toolmaker's Ink/Layout Blue	339 g (12 oz) Aerosol
9U-6076	12	Toolmaker's Ink/Layout Blue	222 mL (7.5 fl oz) Brush Top Can

Aerosol Liquid Penetrant and Developer

- Checks for surface cracks in ferrous and non-ferrous parts with regular light
- Contains no chlorene or sulphur bearing solvent
- Conforms to MIL-1-25135, RDT F-3-6T standard and other military specifications
- Simple and easy to use

CROSS REFERENCE CHART FOR LIQUID PENETRANT KIT						
DESCRIPTION	CAT/CROWN FAULT FINDER	MAGNAFLUX SPOT CHECK	TURCO BY CHECK	SHERWIN DUBL-CHECK	MET-L- CHECK	MIN. SHIP. QTY.
Penetrant, Aerosol	4C-4804	SKL-S	By Check	DP-40	VP-31	12 each
Developer, Aerosol	4C-4805	SKD-NF	By Check	D-100	D-70	12 each



Brake Cleaner Low VOC

- Cleans parts of dust, dirt, grease, oil, and brake fluid residue
- Non-chlorinated formula
- Fast acting cleaner for all metal parts
- Dries quickly
- Low level of volatile organic chemicals
- Approved for sale in California

PART NO. (NACD ONLY)	PART NO. (LACD/APD/EAME ONLY)	SIZE	
		(oz)	(g)
222-3117	222-3118	12	340



Electrical Component Cleaner

- Leaves no residue
- Cleans and dries quickly—no need for rinsing
- Will not cause corrosion
- Non-flammable material

PART NO. (NACD ONLY)	PART NO. (LACD/APD/EAME ONLY)	SIZE	
		(oz)	(g)
222-3124	222-3119	12	340

Mineral Spirits

- For use in solvent stands, immersion tanks, and manual cleaning equipment
- Can be used with brush, rags, or spray
- Has minimum flash point of 205° F (96° C) COC
- High quality product with excellent solvency and is capable of being recycled indefinitely through a solvent reclaiming still
- If used in spray equipment, follow recommendations of spray equipment manufacturer
- Always follow precautions from Material Safety Data Sheet

PART NO.	PART NO. (EAME ONLY)	SIZE		QUANTITY
		(gal)	(L)	
4C-6796	185-4756	5	18.93	1
4C-6797	185-4757	55	208	1

Specialty Chemicals



Rust Preventative 222-3121

- Provides a hard film surface with good corrosion and rust resistance
- Protects equipment stored outside
- Helps protect equipment used around salty environments
- Provides protection in humid environments
- Size: 12 oz (340 g)

Note: Read and follow all manufacturer's directions and safety precautions when using this product.



Light Penetrating and Lubricating Oil 222-3123

- Use on anything that squeaks, sticks, or binds, like door hinges and hand tools
- Lubricates tight fitting or stubborn bolts, nuts, keys, and pins
- Displaces water
- Can be used to dry wet electrical system
- Loosens nuts, bolts, fittings, battery cables, and hinges
- Rust and corrosion inhibitor
- Size: 12 oz (340 g)



Heavy Duty Penetrating Oil 222-3115

- Quickly loosens stubborn parts—frozen nuts, bolts, pipe fittings, heat valves, rolling pins, press fit parts, and key ways
- Heavy-duty
- Enhanced penetration action
- Size: 12 oz (340 g)



Dry Film Lubricant 222-3116

- Dry, low-friction lubricant
- Does not attract dust or dirt
- For use with sliding surfaces, such as motor grader blades circles and backhoe loader extended stick and side shift mechanisms
- Size: 340 g (12 oz)



Battery Cleaner 222-3111

- Dissolves and neutralizes battery acid and harmful corrosion from all battery parts, terminals, cables, hold-downs, and boxes
- Recommended for all construction and industrial equipment batteries
- Can be used on automobile, marine, and industrial batteries
- Size: 12 oz (340 g)



Battery Saver 222-3112

- Creates a protective coating, giving maximum battery protection
- Recommended for use on all battery installations
- Keeps dirt and other contaminants from interfering with the flow of power
- Prolongs battery, cable, and clamp life
- Size: 12 oz (340 g)



Chain and Cable Lubricant

- Good corrosion and rust resistance
- Reduces and protects chain against wear—increases life of chain and cable
- Foaming action that helps cover all surfaces
- Fast penetrating action
- Resists high temperature breakdown

PART NO.	SIZE	QUANTITY
222-3110	12 fl oz (340 g)	12
4C-4081 (not shown)	5 gal (18.9 L)	1



Plastic Spray Bottle 264-4356

- For general application cleaning solutions
- Trigger-type atomizer cap with adjustable spray
- Capacity: 16 fl oz (473 mL)
- One or two ounce gradations
- Color: opaque

Specialty Chemicals



Thread Lubricant

- Moderate temperature
- High torque
- Prevents galling; eases disassembly
- Completely transparent to S•O•S analysis
- Use inside engines, transmissions, etc. where S•O•S will be used and all highly torqued undercarriage components
- Extremely economical to use
- Comes in brush-top can

PART NO.	PART NO. (EAME ONLY)	SIZE	QUANTITY
4C-5591	N/A	4 oz (113 g)	12
4C-5592	N/A	8 oz (227 g)	12
4C-5593	185-3989	40 oz (1.13 kg)	12



High Temperature Anti-Seize

- Allows easy loosening of joined parts in high temperature environments
- Matches Caterpillar production specifications
- Heavy-duty

PART NO.	PART NO. (EAME ONLY)	DESCRIPTION	SIZE	QUANTITY
4C-5598	N/A	Brush-top can	4 oz (113 g)	12
4C-5599	N/A	Brush-top can	8 oz (227 g)	12
5P-3931	185-3990	Brush-top can	40 oz (1.13 kg)	12
222-3114		Aerosol	12 oz (340 g)	



Molybdenum Paste

- Prevents bushing to thrust ring galling on elevated track model tractors
- On head bolts on some model engines

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(oz)	(g)	
6V-4876	186-1531	17.6	500	1



Camshaft and Follower Lubricant

- Prevents galling on camshafts with slipper type followers
- Apply during engine buildup to provide necessary lubrication at startup

PART NO.	PART NO. (EAME ONLY)	SIZE		QTY.
		(fl oz)	(mL)	
8T-2998	185-4758	8	236	12

Air Conditioning Pump Lubricants—PAG Oil

- Specially formulated lubricants for use with R-134a Refrigerants
- Size: 250 mL
- Pkg quantity: 1

4C-2959 PAG Oil (206-1990 EAME only)

- Polyalkylene glycol oil for Sanden compressors
- High viscosity refrigerant oil for R-134a
- Meets GM spec 9985752

9U-7551 PAG Oil (185-5155 EAME only)

- Polyalkylene glycol oil
- Low viscosity refrigerant oil for R-134a

4C-2960 POE Oil (185-5141 EAME only)

- Polyol ester oil
- ISO viscosity 150° F (66 ° C) refrigerant oil for R-134a



A/C Refrigerant Flushing Solvent

- Flushes lubricant contaminants and solids from A/C system lines
- Compatible with CFC, HCFC and HFC refrigerants
- Compatible with mineral, ester and PAG oil lubricants
- Use in 153-8537 Air Conditioning Component Flusher (solvent recycler)
- See flushing unit operators manual for instructions on use

PART NO.	PART NO. (EAME ONLY)	SIZE	
		(gal)	(L)
153-8538	185-5131	1	3.785

Specialty Chemicals



V.C.I. Oil

- Use for storing vehicles and vehicle components such as engines and transmissions for periods of up to one year
- Protects all ferrous parts when maintained at the proper concentration in a closed container
- Has a vapor phase that is more strongly attracted to bare ferrous metals than water
- Will continue to perform indefinitely as long as it stays sealed in the compartment
- Meets Mil-P-46002A

PART NO.	PART NO. (EAME ONLY)	QTY.	DESCRIPTION
4C-6792	N/A	12	1 qt (0.95 L)
4C-6793	185-4769	4	1 gal (3.78 L)
4C-6794	185-4770	1	5 gal (18.93 L)
4C-6795	N/A	1	55 gal (208 L)



O-Ring Assembly Compound

- Retains O-rings in the groove in O-ring face seal (ORFS) fittings during assembly
- Holds in both horizontal and vertical positions
- Non-toxic
- Will not harm hydraulic system components
- Not for use on air conditioning systems



Automatic Transmission Fluid (ATF)

- Automatic transmission fluid – Type F

PART NO.	PART NO. (EAME ONLY)	QTY.	SIZE
9U-7251	N/A	12	1 qt (0.94 L)
9U-7252		4	1 gal (3.79 L)
9U-7253		1	5 gal (18.9 L)
9U-7254		1	55 gal (208 L)



Hydraulic Oil Additive and Oil Supplement

- Low friction additive for some hydraulic systems
- Relieves “stick-slip” on noisy hydraulic cylinders
- Not for use on machines which have a common sump for hydraulics, brake, and transmissions

PART NO.	PART NO. (EAME ONLY)	DESCRIPTION	SIZE		QUANTITY
			(qt)	(L)	
1U-9891	185-4771	Hydraulic Oil Additive	1	0.95	12
9U-7062 (not shown)		Oil Supplement	1	0.95	12



Brake Fluid

- Meets DOT and SAE requirements

DOT 3

- Use where DOT 3 brake fluid is specified by service manual or operators guide
- Loaders, lift trucks, and service trucks

DOT 5

- DOT 5 is for extreme service conditions where higher than normal temperatures will be encountered or where moisture absorption is a problem
- High performance cars and offroad vehicles

PART NO.	PART NO. (EAME ONLY)	QTY.	SIZE
DOT 3			
4C-5585	N/A	12	1 qt (0.94 L)
4C-5586	185-4663	4	1 gal (3.79 L)
DOT 5			
4C-5588	N/A	12	1 qt (0.94 L)
4C-5589	185-4664	4	1 gal (3.79 L)

Radiator Repair 8T-9018

- Fills seams and holes in radiators
- For temporary in field repairs
- Cures in 15 minutes
- Withstands normal cooling system operating pressures
- Also see Iron-Stitch Repair Kit in Salvaging Equipment Section
- Size: 0.5 oz (14 g)
- Quantity: 10



Specialty Chemicals



Caterpillar Manifold Sealer

- Seals and bonds at temperatures up to 2000° F (1093° C)
- Seals male/female joints in segmented exhaust manifolds

PART NO.	PART NO.	SIZE		QTY.
	(EAME ONLY)	(fl oz)	(mL)	
2P-2333	207-7529	16	473	1



Ether Cylinder

- Cold weather starting aid
- Heavy-duty construction
- Quick starts from -50° F (-45.5° C)
- Easy to install, hand tighten

7N-0296

- Fits most 3400 series and smaller engine applications
- For measured shot systems

7X-1062

- Fits most 3500 series engine applications
- Comes with specially designed filter and foam disc collar to keep impurities out of the system

PART NO.	PART NO. (EAME ONLY)	QTY.	SIZE
130-8414	N/A	12	8 oz (227 g)
7N-0296	187-4851	24	18 oz (509 g) – 3 in (7.6 cm) diameter
7X-1062	187-4852	12	21 oz (594 g) – 4 in (10 cm) diameter



Fuel Tank Repair 8T-9019

- Fill seams and holes in fuel tanks
- For temporary in field repairs
- Hardens in 15 minutes
- Will adhere to fuel wetted surfaces
- Also see 1U-8118 Fuel Tank Repair Kit for Plastic Fuel Tanks
- Size: 0.25 oz (7 g)
- Quantity: 10

Orange Hand Cleaner



- Excellent hand cleaning for dirty, oily, greasy hands. For exceptionally dirty or greasy hands, use Hand Cleaner with Pumice
- Mild citrus smell
- Contains Corn Huskers Lotion, aloe, lanolin and jojoba to help prevent dermatitis
- Contains NO petroleum solvents
- Biodegradable
- Works with or without water

PART NO.	PART NO. (EAME ONLY)	DESCRIPTION	SIZE	QTY.
9U-5026	N/A	Orange Hand Cleaner (smooth)	7.5 fl oz (225 mL)	12
9U-5027	185-4000	Orange Hand Cleaner (smooth)	1 gal (3.8 L)	4
9U-5028	N/A	Orange Hand Cleaner (w/ pumice)	7.5 fl oz (225 mL)	12
9U-5029	185-4001	Orange Hand Cleaner (w/ pumice)	1 gal (3.8 L)	4
9U-5030		Wall Mount Bracket for 1 gal container		1

All 1 gallon (3.8 L) jugs come with individual pumps included. 7.5 fl.oz. (225 mL) bottles have self-sealing flip top caps.

Heavy-Duty Hand Cleaners



- Heavy-duty hand cleaner for oil, grease, tar, grime, soil, resins, printer's ink, epoxies, paint, and cements
- Works faster than standard orange hand cleaner
- Fine ground pumice provides a deep scrubbing action to remove difficult grease and grime
- Pleasantly scented, containing lanolin and aloe
- Will not irritate most hands and does not leave a greasy residue

ITEM	PART NO.	DESCRIPTION	SIZE
1	191-6310	Heavy-Duty Hand Cleaner	15 oz (443 mL)
2	191-6311	Heavy-Duty Hand Cleaner	128 oz (3.78 L)

Specialty Chemicals



Orange Hand Wipes

- Premoistened, heavy-duty towel with pumice like performance
- Removes grease, adhesive, oil, lubricant, ink, wax, sealant, paint, and much more
- Quickly absorbs dirt and grease from your hands
- Contains germ fighting Triclosan and hand conditioners
- Available in two sizes – 72 count bucket and 250 count counter display which includes one bucket
- Individually packaged towels are easy to store and carry (works great for field repair trucks, etc.) – keep in a pocket in freezing temperatures

PART NO.	TOWEL SIZE	QUANTITY	UNITS PER CASE	MINIMUM PURCHASE
144-3393	10.5 x 12.25 in (266 x 311.2 mm)	72 per bucket	6	1 case
144-3394	8.0 x 12.25 in (203 x 311.2 mm)	250 per display	—	250 count counter display and one bucket



Solvent & Water Reducible Enamel Topcoats

Category A, E, F, G & N

- Caterpillar Enamel Paint is a pure, lead-free industrial enamel suitable for exterior or interior use on earthmoving, construction and material handling equipment, trucks, engines, machinery and metal buildings. This enamel is formulated to produce a finish that sets up in minutes, is tack-free in a few hours and dries overnight to a hard film resistant to fading, chalking and chipping. It can be applied directly to either metal or wood without using a primer.



Primer Paint

Category H & C

- Caterpillar Yellow Primer Paint is a pure, lead-free rust-inhibiting industrial primer sealer with excellent adhesion and durability. It is specially formulated to resist rusting, peeling and fading. It dries tack-free in a few hours and overnight to a hard, durable coating with excellent weather resistance. It should be recoated with Caterpillar enamel topcoat paint.



Yellow Urethane Paint

Category K

- Caterpillar Yellow High-gloss Urethane Paint is a specially formulated lead-free industrial 2K polyurethane for repairing or touching up urethane finishes. It provides excellent adhesion to a urethane finish when the surface is properly sanded and prepared. It produces a finish that sets up in minutes, is tack-free in a few hours, and dries overnight to a hard, high-gloss finish very resistant to fading, chalking, cracking and chipping. It is recommended for equipment exposed to the elements where long-term outdoor durability is required.



Paint & Primer Thinner

Category O

- Caterpillar Paint & Primer Thinner is an excellent solvent for use with Caterpillar enamel paint and primer. It leaves the film quickly and will not impair the setting-up or tack-free time of the enamel or primer paint. This thinner's rapid evaporation makes it less likely to cause sagging and running. Due to its high solvency, a relatively small amount is needed to reduce paint to a spray consistency.

Paint



Paint & Primer Thinner with Retarder

Category P

- Caterpillar Paint & Primer Thinner with Retarder is an excellent solvent for use with Caterpillar enamel paint and primer. It leaves the film slowly to provide flow and leveling in hot or dry conditions and on large equipment where slower drying is desired. This thinner evaporates slowly, making it less likely to cause dry over-spray. Due to its high solvency, a relatively small amount is needed to reduce paint to a spray consistency.

Urethane Paint Reducer

Category M

- Caterpillar Urethane Paint Reducer is specially formulated for use with Caterpillar urethane paint. It is an excellent thinner for cleaning and flushing spray equipment after application use. Due to its high solvency, a relatively small amount is needed to reduce paint to a spray consistency.

Paint & Decal Remover

Category B

- Caterpillar Paint & Decal Remover quickly removes paint, decals, varnishes, lacquers, enamels and synthetic finishes on metal and wood without damaging the surface. It is formulated for use as packaged; no further dilution is necessary. Do not use on plastics, vinyl, linoleum, fiberglass or synthetic fibers.



Black Muffler Paint

Category D

- Caterpillar Black Muffler Paint is formulated to resist temperatures up to 1,000° F. Once properly cured, it forms a hard, lasting finish that resists salt spray and will not chip or peel. It is ideal for use on mufflers, exhaust systems or any surface exposed to very high heat.

CATEGORY	PRODUCT NAME	SIZE		SIZE		PART NUMBER
		(oz)	(g)	(gal)	(L)	
A	Yellow Paint High Gloss	12	340			4C-4200 (12)
A	Hiway Yellow Paint High Gloss	12	340			206-6417 (12)
A	Mojave Brown Paint Medium Gloss	12	340			4C-4202 (12)
A	White Paint High Gloss	12	340			4C-4203 (12)
A	Black Paint Medium Gloss	12	340			4C-4198 (12)
A	Black Paint Flat	12	340			4C-5842 (12)
A	Black Paint High Gloss	12	340			4C-5843 (12)
A	Bright Red Paint High Gloss	12	340			4C-5844 (12)
A	Bright Beige Paint Medium Gloss	12	340			9U-7946 (12)
A	Dawn Gray Paint Medium Gloss	12	340			9U-7948 (12)
A	Green Paint High Gloss for Barber-Greene Equipment	12	340			9U-7950 (12)
A	Medium Gray Paint High Gloss	12	340			127-4965 (12)
A	Dark Gray Paint Medium Gloss	12	340			127-4966 (12)
A	Slate Gray Paint High Gloss	12	340			127-4967 (12)
A	Matterhorn White Paint High Gloss	12	340			140-2576 (12)
A	Charcoal Gray Paint High Gloss	12	340			173-4060 (12)
B	Paint & Decal Remover	12	340			4C-4204 (12)
C	Yellow Primer Paint	12	340			4C-4205 (12)
D	Black Muffler Paint	12	340			4C-4199 (12)
E	Yellow Paint High Gloss Fast Drying			1	3.8	4C-4184 (4)
E	Yellow Paint High Gloss Fast Drying			5	19	4C-4192 (1)
E	Yellow Paint High Gloss Fast Drying			55	208 L	4C-4207 (1)
F	Yellow Paint High Gloss			1	3.8	4C-6129 (4)
F	Yellow Paint High Gloss			5	19	4C-6122 (1)
F	Yellow Paint High Gloss			55	208 L	4C-6127 (1)
F	Hiway Yellow Paint High Gloss			1	3.8	4C-4185 (4)
F	Hiway Yellow Paint High Gloss			5	19	4C-4193 (1)
F	Hiway Yellow Paint High Gloss			55	208 L	4C-4208 (1)
F	Mojave Brown Paint Medium Gloss			1	3.8	4C-4186 (4)
F	White Paint High Gloss			1	3.8	4C-4187 (4)
F	White Paint High Gloss			5	19	4C-4194 (1)
F	White Paint High Gloss			55	208 L	4C-4209 (1)
F	Black Paint Medium Gloss			1	3.8	4C-4183 (4)
F	Black Paint Medium Gloss			5	19	4C-4191 (1)
F	Black Paint Medium Gloss			55	208 L	4C-4206 (1)
F	Bright Beige Paint Medium Gloss			1	3.8	9U-7947 (4)
F	Dawn Gray Paint Medium Gloss			1	3.8	9U-7949 (4)
F	Charcoal Gray Paint High Gloss			1	3.8	171-9773 (4)
F	Green Paint High Gloss for Barber-Greene Equipment			1	3.8	9U-7951 (4)
F	Matterhorn White Paint High Gloss			1	3.8	140-2577 (4)
F	Matterhorn White Paint High Gloss			5	19	140-2578 (1)
F	Black Paint High Gloss			1	3.8	225-6502 (4)
F	Black Paint Flat			1	3.8	9U-7714 (4)

Number in parentheses () after the part number indicates the quantity per package.

Paint

CATEGORY	PRODUCT NAME	SIZE		SIZE		PART NUMBER
		(oz)	(g)	(gal)	(L)	
G	Yellow Paint High Gloss 3.5 VOC			1	3.8	9U-7719 (4)
G	Yellow Paint High Gloss 3.5 VOC			5	19	9U-7720 (1)
G	White Paint High Gloss 3.5 VOC			1	3.8	9U-7715 (4)
G	White Paint High Gloss 3.5 VOC			5	19	9U-7716 (1)
G	Black Paint Medium Gloss 3.5 VOC			1	3.8	9U-7717 (4)
G	Black Paint Medium Gloss 3.5 VOC			5	19	9U-7718 (1)
H	Yellow Primer Paint			1	3.8	4C-4190 (4)
H	Yellow Primer Paint			5	19	4C-4197 (1)
H	Yellow Primer Paint			55	208 L	4C-4211 (1)
J	Paint & Decal Remover			1	3.8	4C-4188 (4)
K	Yellow Urethane Paint High Gloss			1	3.8	9U-7721 (4)
L	Urethane Paint Hardener			1	3.8	9U-7723 (4)
M	Urethane Paint Reducer			1	3.8	9U-6360 (6)
N	Yellow Paint High Gloss Water Reducible 3.4 VOC			1	3.8	4C-6131 (4)
N	Yellow Paint High Gloss Water Reducible 3.4 VOC			5	19	4C-6124 (1)
N	Yellow Paint High Gloss Water Reducible 2.8 VOC			1	3.8	9U-7725 (4)
N	Yellow Paint High Gloss Water Reducible 2.8 VOC			5	19	9U-7726 (1)
N	Mojave Brown Paint Medium Gloss Water Reducible 3.4 VOC			1	3.8	9U-7727 (4)
N	Black Paint High Gloss Water Reducible 3.4 VOC			1	3.8	9U-7729 (4)
N	Black Paint High Gloss Water Reducible 3.4 VOC			5	19	9U-7730 (1)
N	Black Paint Medium Gloss Water Reducible 2.8 VOC			1	3.8	9U-7731 (4)
N	Black Paint Medium Gloss Water Reducible 2.8 VOC			5	19	9U-7732 (1)
N	White Paint High Gloss Water Reducible 2.8 VOC			1	3.8	9U-7733 (4)
N	White Paint High Gloss Water Reducible 2.8 VOC			5	19	9U-7734 (1)
O	Paint and Primer Thinner			1	3.8	4C-4189 (6)
O	Paint and Primer Thinner			5	19	4C-4196 (1)
O	Paint and Primer Thinner			55	208 L	4C-4210 (1)
P	Paint and Primer Thinner with Retarder			1	3.8	4C-6130 (6)

Number in parentheses () after the part number indicates the quantity per package.



First Aid Kits

SMCS Code: 0000

Model: All

- Small, portable kits for service trucks, tool boxes, or for personal use in family home, car, camper, or boat
- Soft shell case made of water resistant nylon
- Uses “Book Style” construction with zippered internal compartments (makes it easy to access items)

DESCRIPTION	150-1578 FIRST AID KIT SIZE	QUANTITY
Water resistant nylon container	7.5 x 1 .5 x 4.25 in (190.5 x 38.1 x 107.95 mm)	1
Scissors	4.0 in (102 mm)	1
Tweezers	3 in (76.2 mm)	1
First aid booklet	—	1
Band-aids	0.75 x 3 in (19.05 x 76.2 mm)	20
Alcohol swabs	—	4
Wet wipes	—	4
Sting stop swabs	—	2
Antiseptic swabs	—	12
Adhesive tape	2.50 yd x 0.5 in (2.3 m x 12.7 mm)	1
Sterile gauze pads	2 x 2 in (50.8 x 50.8 mm)	4
Sterile gauze pads	4 x 4 in (101.6 x 101.6 mm)	2
Sterile abdominal pad	5 x 9 in (127 x 228.6 mm)	1
Sterile pressure bandage	2 in (50.8 mm)	1
Conform gauze roll	5 yd x 2 in (4.57 m x 50.8 mm)	1
Triangular bandage	—	1
Safety pins	—	6
Vinyl gloves	—	1 pair
Acetaminophen	—	1 (2 per pack)

DESCRIPTION	150-1579 CONTENTS SIZE	QUANTITY
Water resistant nylon container	9 x 3 x 5 in (228.6 x 76.2 x 127 mm)	1
Scissors	6 in (152.4 mm)	1
Stainless steel splinter forceps	4.5 in (114 mm)	1
First aid booklet	—	1
Cloth band-aids	0.87 x 3 in (22.2 x 76.2 mm)	10
Finger tip band-aids	—	5
Knuckle band-aids	—	5
Alcohol swabs	—	18
Wet wipes	—	6
Sting stop swabs	—	6
Antiseptic swabs	—	16
Adhesive tape	5 yd x 1 in (4.6 m x 12.7 mm)	1
Sterile gauze pads	2 x 2 in (50.8 x 50.8 mm)	8
Sterile gauze pads	4 x 4 in (101.6 x 101.6 mm)	2
Sterile abdominal pad	5 x 9 in (127 x 228.6 mm)	2
Sterile pressure bandage	4 in (101.6 mm)	1
Conform gauze roll	5 yd x 2 in (4.57 m x 50.8 mm)	2
Triangular bandage	—	1
Safety pins	—	6
Vinyl gloves	—	1 pair
Multi-purpose pad	17 x 24 in (431.8 x 609.6 mm)	1
Tensor bandage	2 in (50.8 mm)	1
Instant cold pack (in box)	4 x 6 in (101.6 x 152.4 mm)	1
Emergency mylar blanket	—	1

Safety Equipment



First Aid Kits, 25 and 50-person

- Metal kits for your safety and first aid requirements
- Weather-proof kits mount on a wall, bolt on a service truck or stow under a desk
- Comply with OSHA 1910.151 for industry, and OSHA 1926.50 for construction
- 163-0798 contains supplies for 25 people; 163-0799 contains supplies for 50 people

CONTENTS	163-0798 25-PERSON	163-0799 50-PERSON
Metal Case, 6.25 in H x 9.5 in L x 2.4 in W	1	—
Metal Case, 9 in H x 9 in L x 2.4 in W	—	1
Adhesive Strips, ¾ in x 3 in	50	100
Adhesive Tape Roll, ½ in x 5 yd	1	1
Alcohol Wipes	10	20
Ammonia Inhalants	3	3
Instant Cold Pack	1	1
Combine Pad, 5 in x 9 in	1	1
Sterile Cotton, ½ oz roll	1	1
Disposable Gloves	1 pr	2 pr
Eye Irrigate Solution, 1 oz bottle	1	1

CONTENTS	163-0798 25-PERSON	163-0799 50-PERSON
Eye Pads, oval, 1.75 in x 2.5 in	2	4
Gauze Pads, 4 in	2	4
Gauze Pads, 3 in	4	8
First Aid Cream, ¾ oz	1	2
Sting Relief Pads	3	3
Triangular Bandage	1	1
Gauze Bandage, 2 in x 5 yd	2	2
Gauze Bandage, 4 in x 5 yd	—	1
Elastic Bandage, 2 in	—	1
Scissors	1	1



Disposable Foam Plugs 239-1090

CE Compliant

- Tapered disposable plug for excellent fit
- Light comfortable foam
- Smooth surface to repel dirt
- Excellent protection at 29dB
- Package quantity: 1



Reusable Uncorded Plugs 239-1089

CE Compliant

- Super-soft washable reusable plugs
- Flip-top case included
- Non-toxic FDA-approved material
- Excellent protection at 28dB
- Package quantity: 1

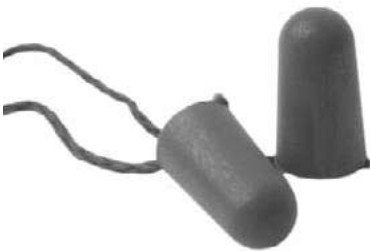


Disposable Plugs

CE Compliant

- Bell-shaped polyurethane foam for maximum comfort
- Smooth soil-resistant skin
- Noise reduction rating: 33dB
- Color: neon

PART NO.	DESCRIPTION	QUANTITY
260-4783	Uncorded Disposable Plugs	200 per box/10 boxes per case
260-4785	Corded Disposable Plugs	100 per box/10 boxes per case



Corded Disposable Foam Plugs 237-8092

CE Compliant

- Tapered disposable plug for excellent fit
- Light comfortable foam
- Smooth surface to repel dirt
- Corded for long wear and cost savings
- Excellent protection at 29dB
- Package quantity: 1

Safety Equipment



Rad Band and Replacement Plugs

CE Compliant

- High-density construction, lightweight and durable
- Non-toxic FDA approved material earplugs
- Comfortable and cool on hot days
- Noise reduction rating: 23dB
- Engineered angled earplug for maximum sound protection and comfort
- Package quantity: 1

PART NO.	DESCRIPTION
233-8585	Rad Band
233-8586	Replacement Plugs



Performance Kit 233-8588

CE Compliant

PART NO.	CONSISTS OF	
	DESCRIPTION	PACKAGE QUANTITY
233-8580	Glasses	1
233-8587	Ear Muffs	1



Silencer Ear Muffs 233-8587

CE Compliant

- Comfortable adjustable padded headband
- Soft foam padded earcups—comfortable when wearing with glasses
- Rugged and lightweight
- Dielectric
- Excellent protection at 26dB



Ear Muffs 4C-6581

CE Compliant

- Hard hat-mounted ear muffs feature large, lightweight ear cups that attach to a variety of hard hats for convenience
- Recommended for moderately high noise situations (up to 95 dBA TWA)
- Noise reduction rating: 23dB
- Package quantity: 2 pair muffs



Multipositional Ear Muff 239-1088

CE Compliant

- Adjustable steel headband
- Foam filled ear cushions with a soft breathable surface
- NRR at various positions:
26dB over-the-head
26dB behind-the-head
23dB under-the-chin



Wraparound Safety Glasses 239-1085

CE Compliant

- Can be worn over prescription glasses
- 99.9% UVA and UVB protection
- Meets or exceeds all ANSI, CSA, and CE specifications



Safety Glasses

CE Compliant

- Polycarbonate lens
- Universal bridge, plastic frame
- Meet ANSI Z87.1-1979

PKG. PART NO.	LENS QTY.	FRAME TYPE	COLOR	LENS SIZE	FEATURES
4C-8093	10	Clear	Mocha	54	Eyebrow and sideshield
4C-4120	10	Clear	Mocha	58	Eyebrow and sideshield
4C-8351	10	Gray	Mocha	58	Eyebrow and sideshield

Safety Equipment



Safety Glasses

CE Compliant

- Soft non-slip rubber nosepiece
- Adjustable temple length
- Full UVA and UVB protection
- Meets or exceeds all ANSI, CSA, and CE specifications

PART NO.	LENS TYPE
233-8576	Clear (packaged for retail)
233-8577	Clear
233-8578	Gray (packaged for retail)
233-8579	Gray



Safety Glasses

CE Compliant

- 5-position ratchet and 4-position telescoping temples
- Soft non-slip rubber nosepiece
- Anti-scratch hard-coated lenses
- 99.9% UVA and UVB protection
- Ventilation between lens and frame
- Meets or exceeds all ANSI, CSA, and CE specifications

PART NO.	LENS TYPE
233-8580	Gray (packaged for retail)
249-7265	Clear (packaged for industrial; 12 per package)



Safety Glasses

CE Compliant

- 5-position ratchet and 4-position telescoping temples
- Stylish one-piece lens with shields
- Hard-coated lenses
- 99.9% UVA and UVB protection
- Meets or exceeds all ANSI, CSA, and CE specifications

PART NO.	LENS TYPE	FRAME
239-1079	Clear	Black
239-1082	Clear	Yellow/black
239-1083	Gray	Black
239-1084	Gray	Yellow/black
233-8581	Blue	Mirror-black
233-8582	Blue	Mirror-yellow/black



Aviator-Style Safety Glasses

- Popular aviator-style frames with clear or gray tinted polycarbonate lenses and side shields
- Fold-flat frame design has 2.3 in (58 mm) lens size and 6 in (150 mm) temple length
- Nose pad is adjustable and constructed of soft, pliable PVC
- Side shields are permanently attached
- Temples are made of brass alloy for easy adjustment
- Impact resistant lenses meet ANSI Z87.1-1989

PART NO.	FRAME COLOR	LENS TINT
262-4864	Black	Gray
263-0858	Gold	Clear
263-0868	Black	Clear

Safety Equipment



Uvex Astrospec 3000™ Safety Glasses

CE Compliant

- Contemporary styling; frames have CAT® logo on temple
- Fully adjustable – patented lens inclination and adjustable temple length provide ultimate comfort
- Comes with impact resistant polycarbonate lenses
 - anti-fog (improves visibility in humid work areas)
 - anti-static (minimizes attraction of small dust and dirt particles)
 - anti-scratch (increases scratch resistance and extends lens life)
 - anti-UV coating (absorbs 99.9% of harmful UV light)
- Replacement lenses available
- Meet industry standards:
ANSI Z87.1 – 1989
CSA Z94.3 – 1992
Model 3000 with clear or gray lens also CE Certified
- Clear tint for indoor applications; gray and mirror gray tint for outdoor applications where sunlight and glare cause eye strain
- Universal nose bridge

PART NO.	FRAME COLOR	LENS TINT
139-2645	Black	Clear
139-2647	Yellow/Black	Gray
139-2648	Black	Gray
139-2650	Yellow/Black	Mirror Gray
139-2651	Black	Mirror Gray

REPLACEMENT LENS	
PART NO.	LENS TINT
139-2670	Clear
139-2671	Gray
139-2672	Mirror Gray

NOTE: Mirror gray lens coated for scratch resistance only.



Universal Clip-On Safety Shields 262-4861

- Provide optimal lateral coverage on medium to large frames with lens measuring 1.65 to 2 in (42 to 51 mm) in height
- Semicircle configuration provides enhanced coverage that shields eye from impact and airborne foreign bodies
- Patented design allows simple attachment or removal without tools in less than one minute
- Easily replaces most original equipment side shields
- Each universal side shield dispensing unit contains 20 pair of side shields and 20 care and mounting instructions to assist and inform first time users
- Dispensing units can be placed at strategic locations for convenience of employees or visitors
- Made from molded high-impact polycarbonate
- OSHA compliant and meets ANSI Z87.1-2003
- UV shield barrier protects against harmful UV radiation
- Package quantity: 20 pair



Safety Goggles 233-8584

CE Compliant

- Provides excellent ventilation and indirect protection
- Fits over most prescription eyewear
- Clear optical-grade polycarbonate lens
- Adjustable headband
- Meets or exceeds all ANSI, CSA, and CE specifications



Safety Goggles 233-8583

CE Compliant

- Perforated goggle with excellent ventilation and protection
- Fits over most prescription eyewear
- Clear optical-grade polycarbonate lens
- Adjustable headband
- Meets or exceeds all ANSI, CSA, and CE specifications

Safety Equipment



All-purpose Wipers 263-0867

- Cleaning tissues for safety glasses
- Size: 5 in x 8 in (127 mm x 203 mm) wipers
- Quantity: 300 tissues per box, 60 boxes per case



Lens Cleaning Towelettes 239-1086

CE Compliant

- Excellent disposable moisturized towels for lens cleaning
- Can be used on plastic, glass and polycarbonate lenses, face shields, and goggles
- Towelettes are pre-moistened with anti-fog, anti-static formula
- Individually foil wrapped towelettes are great for service trucks and tool boxes
- Each dispenser contains (100) 5 in x 8 in (127 mm x 203 mm) towelettes



Lens Cleaning Station 239-1087

CE Compliant

- May be used on safety glasses, face shields, goggles, and full face respirators
- Economical lens cleaning station provide lens cleaning needs in shop or office
- Promotes proper lens cleaning, extending life of safety glasses
- Specially formulated solution cleans greasy and oily glasses while providing an anti-fog/anti-static coating
- Low lint non-abrasive tissues leave lenses clear and streak free
- Easily mounted on wall or table top
- Each station contains 8 oz anti-fog/anti-static solution and 600 low lint, non-abrasive tissues



Hard Hats

CE Compliant

- Replaces canceled 173-1941 Protective Hard Hat, White and 173-1942 Protective Hard Hat, Yellow
- High density, polyethylene protective hard hats with Cat logo
- Self-sizing, four-point suspension with brow pad
- Rain trough brim provides extra protection against snow, rain, dust, and dirt
- Accessory slots provide attachment points for earmuffs, face shields, flashlights, etc.
- 239-4964 and 239-4966 meets or exceeds ANSI Z89.1-1997 Standard for Industrial Head Protection, Type 1, Class E, helmet requirements
- 239-4965 and 239-4967 meets or exceeds EN 397:1995 Amendment (A1 2000 Standard) for Industrial Safety Helmets, Optional Classes -20 degrees C, 440 VAC requirements

PART NO.	DESCRIPTION
239-4964	Hard Hat, White U.S. Version (ANSI standard)
239-4965	Hard Hat, White European Version (EN standard)
239-4966	Hard Hat, Yellow U.S. Version (ANSI standard)
239-4967	Hard Hat, Yellow European Version (EN standard)



Hard Hat Winter Liner 1U-8091

CE Compliant

- Wear with 239-4964, 239-4965, 239-4966, and 239-4967 Hard Hat
- Dark blue cotton twill with fleece lining
- Comes with a Velcro chin strap fastener
- Will work with other similar hard hats

Safety Equipment



Safety Vests

262-9176 Orange Mesh Safety Vest

262-9301 Lime Green Mesh Safety Vest

- Non-reflective
- Single front hook and loop closure with black cloth binding
- One size fits all
- Material: 100% polyester mesh
- Conforms to OSHA standards



Tyvek Coveralls

- White coveralls with zipper front
- For general maintenance work, fiberglass handling, spray painting, and sand blasting
- Offers splash protection against many liquids
- Lightweight and soft
- Strong, whether wet or dry
- Resistant to abrasion, tears, and punctures
- 100% Polyethylene construction
- Unaffected by most chemicals
- Blocks out 99.9% of all dry particulate down to 0.5 microns

PART NO.	SIZE	QTY.
267-8541	Small	1
267-8540	Medium	1
267-8539	Large	1
267-8542	X Large	1
267-8543	XX Large	1
267-8544	XXX Large	1
267-8545	XXXX Large	1



Rain Jackets and Pants

- Made with a 0.014 in (0.35 mm) PVC exterior laminated to a polyester interior [PVC is a synthetic thermoplastic elastomer (TPE) which provides excellent ozone and weather resistance]
- Double-lapped heat-welded construction
- Meets California Proposition 65

Rain Jacket

- Yellow rain jacket with a detachable hood and two patch pockets
- Full snap front
- Inner storm fly prevents rain and debris from penetrating front opening
- Corduroy collar
- Raglan sleeves for maximum mobility (a raglan sleeve is attached to a garment body at a 45 degree angle helping it to stretch from neckline to underarm)
- Take-up snaps at cuff
- Back yoke ventilation

Rain Pants

- Yellow rain pants with fly front overall and pockets with flaps
- Fabric/elastic suspender and elastic waist band
- Take-up snaps at ankle

RAIN JACKET PART NO.	CHEST SIZE
263-0876	Medium, 40-42 in (101.6-106.68 cm)
263-0888	Large, 44-46 in (111.76-116.84 cm)
263-0967	XLarge, 48-50 in (121.92-127 cm)

RAIN PANTS PART NO.	WAIST SIZE
263-0875	Medium, 36-38 in (91.44-96.52 cm)
263-0882	Large, 40-42 in (101.6-106.68 cm)
263-0895	XLarge, 44-46 in (111.76-116.84 cm)



Mechanic's Glove

- Dexterity for intricate tasks
- Snug fitting
- Double-elastic wrist cuff
- For work around heat or cold
- Bulk – 5 pair

PART NO.	SIZE
197-7677	Medium
197-7678	Large
197-7679	Extra Large
240-5130	XX Large

Safety Equipment



Premium Mechanic's Gloves

- Anti-vibration palm padding
- For work around heat or cold
- For handling vibration tools and abrasive surfaces
- Bulk – 5 pair

PART NO.	SIZE
197-7674	Medium
197-7675	Large
197-7676	Extra Large
240-5140	XX Large



Winter Work Gloves

- Full grain leather used on entire palm area, ensuring Free Flex
- Neoprene knuckle and index finger protection
- 3 mm shock-absorbing “Gel” palm padding
- Single pair

PART NO.	SIZE
247-2911	Medium
247-2912	Large
247-2913	Extra Large
247-2914	XX Large



Fingerless Gloves

- Shock-absorbing palm padding
- Tough spandex top material resists snags
- Good fit and great finger dexterity for intricate tasks
- Bulk – 5 pair

PART NO.	SIZE
247-2915	Medium
247-2916	Large
247-2917	Extra Large
247-2918	XX Large



Unlined Grain Leather Driver's Gloves

- For drivers, utility and warehouse workers
- Gunn cut pattern
- Keystone thumb
- Pull-strap closure

PART NO.	SIZE	QUANTITY
246-5141	Medium	Single pair
246-5143	Large	Single pair
246-5145	Extra Large	Single pair
246-5142	Medium	Bulk – 12 pair
246-5144	Large	Bulk – 12 pair
246-5146	Extra Large	Bulk – 12 pair



Lined Leather Driver's Gloves

- For drivers, utility and warehouse workers
- Extra warmth
- Elastic shirred back holds glove securely to hand
- Gunn cut pattern

PART NO.	SIZE	QUANTITY
246-5151	Medium	Single Pair
246-5149	Large	Single Pair
246-5147	Extra Large	Single Pair
246-5152	Medium	Bulk – 12 Pair
246-5150	Large	Bulk – 12 Pair
246-5148	Extra Large	Bulk – 12 Pair



Split Leather Driver's Gloves

- For drivers, utility and warehouse workers; light welding
- Elastic shirred back holds glove securely to hand
- Gunn cut pattern

PART NO.	SIZE	QUANTITY
246-5153	Large	Single Pair
246-5154	Large	Bulk – 12 pair

Safety Equipment



Split Leather Palm Gloves

- For tough rugged jobs
- Full leather index finger
- Lined palm and leather tips
- Gauntlet cuff style
- Elastic on back with knuckle strap

PART NO.	SIZE	QUANTITY
246-5155	Large	Single Pair
246-5156	Large	Bulk – 12 Pair



Split Leather Palm Gloves 268-8795

- Grain leather palm with palm patch
- Gunn cut
- Water-proof safety cuff
- Wing thumb
- Full leather index finger and tips with elastic
- Size: men's large



Split Cowhide Palm Gloves

- For medium- to heavy-duty work
- Gunn cut pattern
- Full leather index finger
- Wing thumb

PART NO.	SIZE	QUANTITY
246-5159	Medium	Single Pair
246-5157	Large	Single Pair
246-5161	Extra Large	Single Pair
246-5160	Medium	Bulk – 12 Pair
246-5158	Large	Bulk – 12 Pair
246-5162	Extra Large	Bulk – 12 Pair



Traditional All-purpose Gloves 246-5163

- For general work
- Cotton blend
- Knit wrist cuff
- Plastic dots on inner side and back of index finger
- Size: large
- 12 pair per package



Jersey Gloves

- For general purpose use
- Soft knit fabric
- Stretch to provide excellent fit

PART NO.	SIZE	QUANTITY
246-5165	Large	Single Pair
246-5166	Large	Bulk – 12 Pair



Fleeced Gloves

- For outside work
- Knit wrist cuff
- Double layer of fabric

PART NO.	SIZE	QUANTITY
246-5167	Large	Single Pair
246-5168	Large	Bulk – 12 Pair



Reversible Gloves 246-5169

- For work where grip is important
- String knit glove
- Black dots on both sides
- Knit wrist
- Size: large
- 12 pair per package

Safety Equipment

Leather Welding Gloves

- One piece back fully welted
- Color: gold

PART NO.	SIZE	QUANTITY
185-0153	Medium	Bulk – 12 Pair
247-4447	Large	Single Pair
247-6410	Large	Bulk – 12 Pair



Chemical-resistant Nitrile Gloves

- Protect against cuts, abrasions, punctures, and snags
- Embossed texture improves grip
- Will not swell or weaken like rubber or neoprene in solvents and fats

NOTE: When using gloves as Personal Protection Equipment (PPE), always consult the Material Safety Data Sheet (MSDS) for the chemical that is being handled for the most appropriate glove.

PART NO.	SIZE	QUANTITY	APPLICATION	CHEMICAL RESISTANCE
4C-5522	9	Bulk – 6 Pair	Chemical Handling Acids, Solvents, Caustics Oils, Grease, Degreasing Machine operations using cutting oil, metal fabrication	Sodium Hydroxide, Freon, Xylene, Hydro-chloric Acid, Stoddard Solvent, Potassium Hydroxide, Perchloroethylene, Phosphoric Acid
4C-5523	10	Bulk – 6 Pair	Chemical Handling Acids, Solvents, Caustics Oils, Grease, Degreasing Better protection than 4C-5522 due to thickness.	Sodium Hydroxide, Freon, Xylene, Hydro-chloric Acid, Stoddard Solvent, Potassium Hydroxide, Perchloroethylene, Phosphoric Acid



Neoprene-coated Gloves 246-5164

- For working with acids, solvents, oils, caustics and greases
- High cut resistance compared to rubber and vinyl
- Good from -50° F to 300° F (46° C to 149° C)
- Size: large

NOTE: When using gloves as Personal Protection Equipment (PPE), always consult the Material Safety Data Sheet (MSDS) for the chemical that is being handled for the most appropriate glove.



Nitrile-coated Knit-lined Gloves 4C-5526

- For dry and light oil applications
- Superior resistance to cuts and abrasions
- Porous coating is soft and flexible
- Excellent grip

NOTE: When using gloves as Personal Protection Equipment (PPE), always consult the Material Safety Data Sheet (MSDS) for the chemical that is being handled for the most appropriate glove.

PART NO.	SIZE	QUANTITY	APPLICATION	CHEMICAL RESISTANCE
4C-5526	Large	12 pair per package	Light to Medium duty, general purpose, fabrication, assembly, maintenance, shipping and receiving. Superior abrasion. Excellent grip in light oil application.	Oil, Grease



Neox Gloves with Neoprene Coating 4C-5527

- Resistance to cuts, abrasions, and chemicals
- Interlock knit lining enhances puncture and snag resistance
- Two-piece lining eliminates irritating seams

NOTE: When using gloves as Personal Protection Equipment (PPE), always consult the Material Safety Data Sheet (MSDS) for the chemical that is being handled for the most appropriate glove.

PART NO.	SIZE	QUANTITY	APPLICATION	CHEMICAL RESISTANCE
4C-5527	One size fits most	12 pair per package	Resists Heat, Cutting, Use in Plating, Galvanizing Degreasing, Petrochemicals	Acids, Solvents, (Ex.: Glycol Ether), Oils, Caustics, Soaps, Alcohols

Safety Equipment



Neoprene-coated Knit-lined Gloves 4C-5529

- For full-arm protection when using chemicals
- Broad protection against cuts and abrasions
- Resist oils, caustics, acids, alcohol, and solvents
- Fabric lining enhances puncture and snag resistance

NOTE: When using gloves as Personal Protection Equipment (PPE), always consult the Material Safety Data Sheet (MSDS) for the chemical that is being handled for the most appropriate glove.

PART NO.	SIZE	QUANTITY	APPLICATION	CHEMICAL RESISTANCE
4C-5529	One size fits most	Single Pair	Resists Heat, Cutting, Use in Plating, Galvanizing, Sandblasting Cabinet	Acids, Solvents, (Ex: Glycol Ether), Oils Caustics, Soaps, Alcohols



Disposable Nitrile Gloves

- Perfect for people allergic to rubber latex
- Resistant to punctures and chemicals
- Fits either hand
- 100 per box, 6 mil thick, 9 ½ in (241.3 mm) long

PART NO.	DESCRIPTION	SIZE
260-1776	Powdered	Small
259-7005	Powdered	Medium
246-5179	Powdered	Large
259-7006	Powdered	Extra Large
260-1802	Powder-Free	Small
259-7007	Powder-Free	Medium
246-5180	Powder-Free	Large
259-7008	Powder-Free	Extra Large



Disposable Rubber Latex Gloves

- For working with chemicals
- Seamless construction
- 100 per box, 5 mil thick, 10 in long

PART NO.	SIZE
260-1777	Small
260-1778	Medium
246-5181	Large
260-1779	Extra Large

Safety Equipment



Nylon Gloves with Nitrile Coating

- For maintenance/assembly and shipping/receiving
- Excellent cut and abrasion resistances

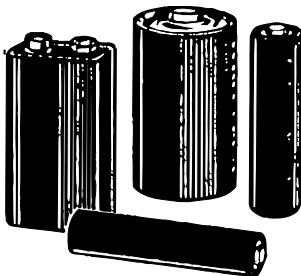
PART NO.	SIZE	QUANTITY
247-6412	Large	Single Pair
247-6413	Extra-Large	Single Pair
247-4449	Large	Bulk – 12 Pair
247-4450	Extra-Large	Bulk – 12 Pair



Lantern Batteries

- Recommended for all industrial lanterns

PART NO.	DESCRIPTION	PKG. QTY.
1U-9547	Lantern Batteries, Spring Terminal, 6 Volt	12



Heavy Duty Alkaline Industrial Batteries

SIZE	ALKALINE	PKG. QTY.	HEAVY-DUTY	PKG. QTY.
C, 1.5 Volt	1U-9531	72	1U-9536	72
D, 1.5 Volt	1U-9532	72	1U-9537	72
AA, 1.5 Volt	1U-9533	96	1U-9538	96
9 Volt	1U-9534	72	1U-9539	72
AAA, 1.5 Volt	1U-9535	96	—	—
AAAA, 1.5 Volt	245-3224	6	—	—



Inspection Light 141-1655

- Molded in Lexan®, designed to stand up to almost any punishment
- Lightweight, super compact light source
- Water-tight to 2000 ft (609.6 m)
- Shock proof, corrosion proof
- Economical, 30-hour long life lamp module
- Includes two AA batteries
- Includes 90° light bender
- Service Part: 4C-6741 Replacement Lamp Module (Qty. 12)

Safety Equipment



Pen Light, White LED 238-8244

Pen Light, Blue LED 269-3123

CE Compliant

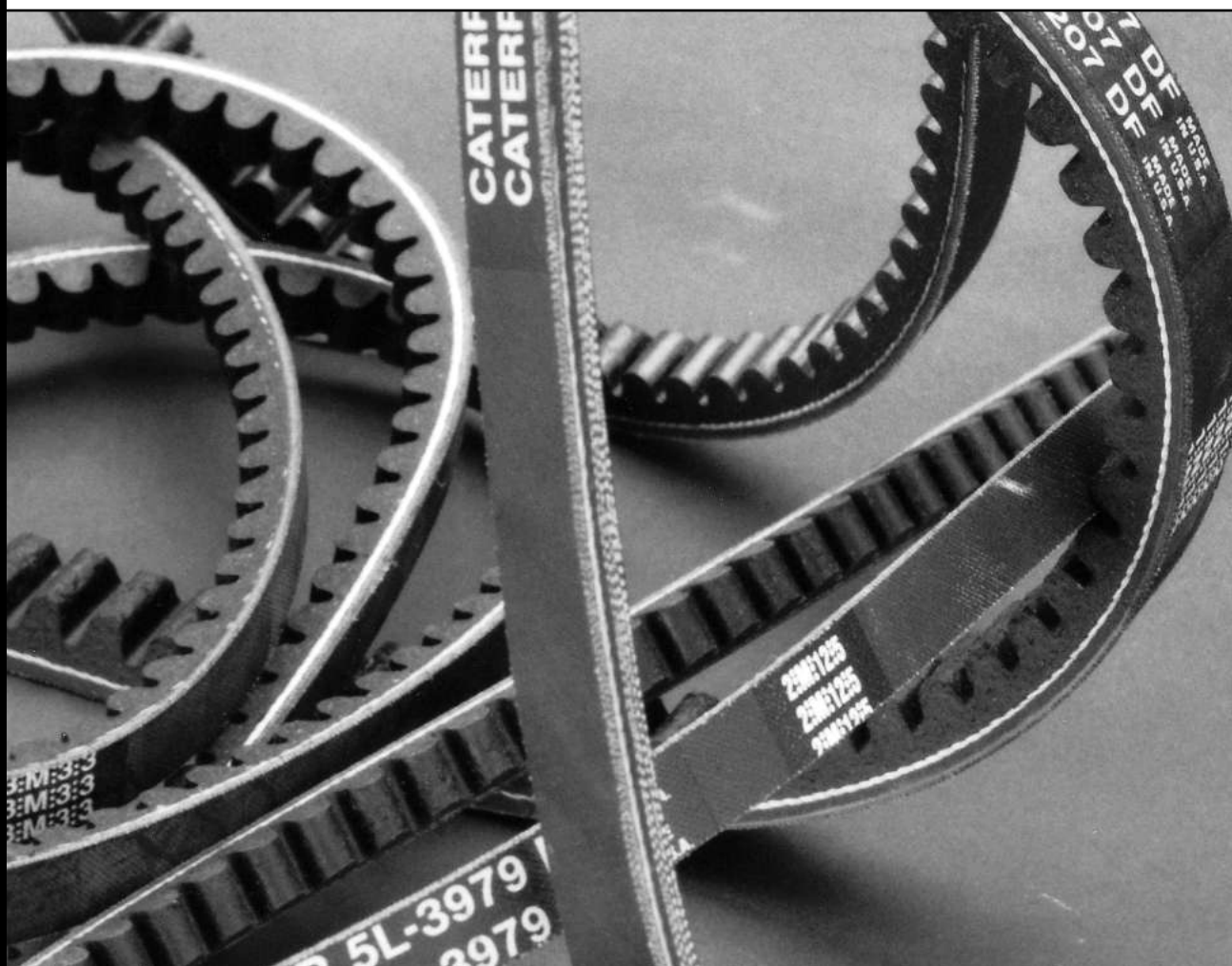
- Made from tempered aircraft aluminum
- 100,00 hour lifetime, hi-intensity light emitting diode (LED) bulb
- Batteries last up to 60 hours
- Includes 3 AAAA batteries
- Push end of pen light to momentarily illuminate or twist end clockwise for constant “on”
- Waterproof

Flashlight Bulbs

- Ultra high intensity Krypton
- Use for increased brightness and visibility
- Built with integral lens providing an even distribution of light with excellent focusing characteristics
- Use with alkaline batteries for best economy

PART NO.	DESCRIPTION	APPLICATION
4C-9464	Bulb	2 cell C and D flashlights
4C-9465	Bulb	3 cell C and D flashlights
4C-9466	Bulb	4 cell C and D flashlights
SPECIAL FLASHLIGHT BULBS		
4C-9463	Mini MagLite (Qty. 2)	
4C-9470	Mag Charg Rechargeable Flashlight	
4C-6741	Lamp Module (Qty. 12)	

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V-BELTS

V-Belts



V-Belt Sizing Guide

- Belt size refers to the pulley groove width (B) for belts under and equal to 1/2".
- Belt size refers to the belt top width (A) for belts over 1/2".

BELT SIZE (in)	(mm)	A		B	
		BELT TOP WIDTH (in)	(mm)	PULLEY GROOVE WIDTH (in)	(mm)
3/8	9.6	0.422	10.72	0.380	9.65
1/2	12.7	0.547	13.89	0.500	12.70
11/16	17.5	0.688	17.48	0.625	15.88
3/4	19.1	0.750	19.05	0.690	17.53
7/8	22.2	0.847	21.51	0.785	19.94
15/16	23.8	0.938	23.83	0.878	22.30
1 1/16	27.0	1.062	26.97	1.003	25.48
1 1/4	31.8	1.297	32.94	1.253	31.83

SAE effective length for COG and NON-COG belts equals:

Outer circumference minus 0.38" (9.65 mm) for 3/8" and 1/2" belt sizes

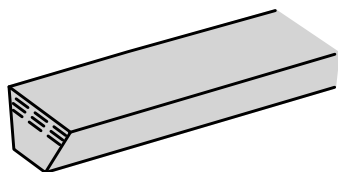
Outer circumference minus 0.57" (14.48 mm) for 11/16" and larger belt sizes.

V-Belt Maintenance Tips

Keep the V-Belts on your engine in good condition. V-Belt failure can cause malfunctions of the charging system and overheating. Regularly do the following:

- Check for cracked, worn, or frayed belts. On matched belt sets, always replace the complete set. If just one belt is bad, uneven load on belts, pulleys, bearings, and shafts can occur.
- Check pulley grooves to make sure they are not worn, damaged, or aligned incorrectly. Poor belt to pulley contact will result in rapid wear and short life.

Using a tension gauge, check belt tension after installation and at every oil change. Adjust to ensure proper belt seating.



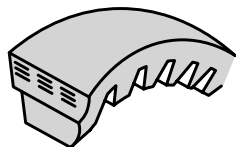
Non-Cog Type

SIZE (in) (mm)	LENGTH (in) (mm)	SET PART NUMBER	SINGLE BELT NUMBER
3/8 9.5	43.5 1105	9Y-7159 (2)	2W-2531
1/2 12.7	31.0 787		7C-2163
	40.0 1016		7C-8236
	41.5 1054		1P-9744
	43.0 1092		4N-7335
	43.5 1105	9N-1330 (3)	9N-1329
	44.0 1118		1N-3743
	45.0 1143	9N-1322 (2)	2P-6820
	46.0 1168		2P-6819
	46.5 1181		4N-9891
			9Y-1131
	47.0 1194		2P-6818
	47.5 1206		1W-2934
	48.5 1232	9N-1323 (2)	1P-3085
	49.0 1245		4P-0454
	49.5 1257	4N-8580 (2)	1P-4334
	50.0 1270	9L-6128 (2)	3P-0130
	50.5 1283		2P-6212
	51.0 1295		9Y-6117
	51.5 1308	4N-8597 (2)	4N-6130
	52.5 1334	7W-3896 (2)	2P-4191
	53.0 1346		068-0610
	54.0 1372	9L-6126 (2)	9L-6125
			9L-6125
	55.0 1397		8N-0503
	55.5 1410		2P-4685
		114-3542 (3)	2S-2743
	56.5 1435		4N-7610
	57.5 1460	7N-8518 (2)	2P-4230
	61.0 1549	9N-3483 (2)	1P-6868
	62.5 1588	6N-0724 (2)	1P-4313
	63.0 1600		2P-6161
		068-8546 (2)	9L-4479
	65.5 1664	9L-6130 (2)	2P-8720
		9L-2850 (3)	2P-8720
	66.5 1689		1N-4556
	67.5 1714		2P-6532
	68.0 1727		166-3354

SIZE (in) (mm)	LENGTH (in) (mm)	SET PART NUMBER	SINGLE BELT NUMBER
1/2 12.7	69.0 1753	166-3360 (3)	166-3352
	71.0 1803		1W-6039
		166-3359 (3)	166-3351
	72.0 1829		7W-5207
	72.5 1842	166-3363 (3)	166-3355
		127-4767 (2)	127-4766
	73.0 1854		1N-3795
	74.0 1880		1W-9693
	75.0 1905	166-3361 (3)	166-3353
	78.0 1981		8M-0760
	82.0 2083		9Y-1954
	84.0 2134		7E-3898
	86.0 2184		1W-8908
	90.0 2286		4W-5825
	90.1 2288		117-0030
11/16 17.5	60.0 1524	9N-1326 (3)	9N-1321
	65.5 1664		7C-9001
		9N-1327 (2)	9N-1320
		9N-2802 (3)	9N-1320
	68.5 1740		6N-7721
	74.5 1892	166-3365 (3)	166-3357
	77.0 1956	166-3366 (3)	166-3358
	81.0 2057	166-3364 (3)	166-3356
	90.0 2286	1W-8043 (2)	1W-8044
15/16 23.8	54.5 1384	9Y-8864 (2)	9Y-8865
	57.5 1460	9Y-0291 (2)	9Y-0290
	64.5 1638	6N-3637 (2)	6N-3636
	79.5 2019	5R-7276 (2)	
		7M-0305 (3)	
	82.0 2083	6L-1987 (2)	3L-9489

Number in parentheses () after the set part number indicates the quantity of belts per set.

V-Belts



Cog Type

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
3/8	9.5	29.0	737	6L-6213 (2)	6L-6212
		36.0	914	1N-8405 (2)	1N-8404
		40.0	1016	7L-4528 (2)	030-2630
		49.5	1257	2N-0159 (2)	1N-9310
		50.5	1283	7N-3157 (2)	
		51.5	1308	7L-5091 (2)	7L-5090
		55.5	1410	7N-3158 (2)	7N-3159
1/2	12.7	28.0	711		4H-0552
		29.0	737		2L-1478
		31.5	800	9L-2267 (2)	9L-2266
		33.0	838		004-0909
		33.5	851		061-8384
		34.0	864		036-6775
		34.5	876		7E-0744
		35.0	889		030-3289
		35.5	902		037-2448
		36.0	914		036-2176
		37.0	940		030-3291
		37.5	952	5L-3980 (2)	5L-3979
		39.0	991	2W-0237 (2)	1N-4635
		39.5	1003		8N-3504
		40.0	1016		9L-4896
		40.5	1029		001-5645
		41.0	1041	9L-1125 (2)	9L-1126
		41.5	1054	9L-4226 (2)	4M-6291
		42.5	1080	2N-1493 (2)	061-7139
		43.0	1092	9L-4013 (2)	9L-4012
		43.5	1105	1N-4223 (2)	1W-5555
		44.0	1118		068-5990
		44.5	1130	5L-3826 (2)	5L-3834
		45.0	1143	3N-4658 (2)	4L-6060
		46.0	1168	6L-7954 (2)	9M-1091
		47.0	1194		8L-8646
		47.5	1206	6L-8161 (2)	6L-3408
		48.0	1219	9L-0619 (2)	9L-2248
		48.5	1232		6N-3113
				111-0575 (2)	6N-3113
		49.0	1245	5N-6350 (2)	3K-3408

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
1/2	12.7	49.5	1257		6F-1992
		50.0	1270	8L-8984 (2)	5M-8137
		50.5	1283	5L-4995 (2)	5L-4996
		51.5	1308	3N-1491 (2)	5M-8135
				9S-6760 (3)	5M-8135
		52.0	1321	9L-0895 (2)	9L-0894
				9L-1554 (3)	9L-0894
		52.5	1334	3S-8447 (2)	3S-8448
				3N-4079 (3)	3S-8448
		53.0	1346	5L-3308 (2)	5L-3307
		53.5	1359	4N-8771 (2)	3S-6272
				8L-4526 (3)	3S-6272
		54.0	1372		061-7140
				130-3216 (2)	061-7140
		55.0	1397	9L-1557 (2)	9L-1553
				9L-4034 (3)	9L-1553
		55.5	1410	2S-2756 (2)	2S-2743
		56.0	1422	5N-9303 (2)	3S-3964
		57.0	1448	9L-1127 (2)	9L-1128
				9L-3047 (3)	9L-1128
		57.5	1460	4W-6025 (2)	3S-3961
		58.0	1473	9L-1226 (2)	7L-5001
		58.5	1486	2S-9779 (2)	2S-5218
				5N-6098 (3)	2S-5218
		59.0	1499	2N-2297 (2)	6L-5115
				6L-5117 (3)	6L-5115
		59.5	1511	7E-5799 (3)	7E-5798
		60.0	1524	9L-1106 (2)	2S-9506
				9L-3599 (3)	2S-9506
					4N-2745
		61.0	1549	6L-4100 (2)	5N-4692
				5N-4693 (3)	5N-4693
		62.0	1575	8M-8341 (2)	8M-8336
				9L-4325 (3)	8M-8336
		63.0	1600	9L-4480 (3)	9L-4479
		64.0	1626	8M-8340 (2)	8M-8335
				9L-3474 (3)	8M-8335
		64.5	1638		2P-7333

Number in parentheses () after the set part number indicates the quantity of belts per set.

Cog Type

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
1/2	12.7	65.0	1651	8S-5154 (2)	4S-6209
				5N-4876 (3)	4S-6209
		65.5	1664	1S-4700 (2)	1S-4699
		66.5	1689	4W-8729 (2)	5S-5249
		67.0	1702	9L-1129 (2)	9L-1130
				9L-2527 (3)	9L-1130
		68.0	1727	1S-1187 (2)	3S-9652
				3S-9653 (3)	3S-9652
		68.5	1740	4W-8655 (2)	4W-8654
		69.0	1753	4W-8662 (2)	5S-5052
				9L-2526 (3)	5S-5052
		70.0	1778	2S-2481 (2)	
				9L-5280 (3)	
		70.5	1791	2P-5618 (2)	2P-5617
				4N-6999 (3)	2P-5617
		71.0	1803	1S-1208 (2)	6F-2590
		71.5	1816		7E-6158
		72.0	1829	6L-6557 (2)	9L-2519
				9L-2520 (3)	9L-2519
		72.5	1842	1S-4760 (2)	1S-4761
				5N-2088 (3)	1S-4761
		73.0	1854	9L-6080 (3)	8N-2814
		74.0	1880	9L-1630 (3)	9L-1629
				7L-5093 (4)	9L-1629
		75.0	1905		5M-0923
		75.5	1918	6N-3843 (2)	1N-4555
		76.5	1943	9L-2350 (3)	9L-2349
		77.0	1956		8M-3092
				136-3646 (2)	8M-3092
		77.5	1968	9L-4266 (3)	9L-4265
		78.0	1981	7C-7204 (2)	8M-0760
		79.0	2007	7E-6192 (2)	
		86.1	2187		117-0036
11/16	17.5	35.0	889		1L-6557
		42.5	1080		6B-5653
		45.5	1156		8P-3064
		48.5	1232		6B-2746
		49.0	1245	9L-6654 (2)	9L-6653
		51.0	1295	9L-0361 (2)	5B-8473
		51.5	1308		6N-0341
		53.5	1359	7N-3949 (2)	7N-3948
				2N-8612 (3)	7N-3948
		54.0	1372	8L-5137 (3)	8L-5136
		55.5	1410	7L-7020 (3)	4L-4648

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
11/16	17.5	56.0	1422	4N-8217 (2)	4N-8216
				9L-6640 (2)	9L-6639
		57.0	1448	9N-1324 (3)	9L-6639
					6N-7135
		57.5	1460		
		58.5	1486	4N-6373 (2)	4N-8220
				9N-1325 (3)	4N-8220
		59.0	1499	9L-6642 (2)	9L-6641
		60.0	1524	4P-1667 (2)	4P-1666
		61.0	1549	9L-6644 (2)	9L-6643
				6N-6798 (3)	9L-6643
				6N-9159 (4)	9L-6643
		61.5	1562	4N-2532 (2)	4N-2531
				5N-0414 (3)	4N-2531
		62.5	1588	9L-6646 (2)	9L-6645
		63.5	1613	8N-0539 (2)	6N-6657
				6N-6656 (3)	6N-6657
				6N-6653 (4)	6N-6657
		64.5	1639	9L-6724 (2)	4N-8218
				4N-6423 (3)	4N-8218
				6N-0388 (4)	4N-8218
		65.5	1664	4P-8397 (2)	4P-8398
		66.5	1689	9L-6648 (2)	9L-6647
				6N-6652 (3)	9L-6647
		68.5	1740	9L-6650 (2)	9L-6649
				6N-9158 (3)	9L-6649
		69.0	1752	7E-7646 (3)	7E-7645
		70.0	1778	3R-9346 (2)	6N-6654
				6N-6655 (3)	6N-6654
		71.0	1803	3N-8848 (3)	4N-8221
		71.5	1816	9L-6652 (2)	9L-6651
				5N-2346 (4)	9L-6651
		72.0	1829	5N-4751 (3)	6N-0073
		73.0	1854	9L-6725 (2)	4N-8277
				4N-8278 (3)	4N-8277
				7W-3222 (4)	4N-8277
		74.5	1892	6N-6651 (3)	6N-6650
		75.0	1905	3R-9090 (4)	3R-9089
		75.5	1918	6N-9144 (2)	4N-8219
				4N-6302 (3)	4N-8219
		77.0	1956	4P-8087 (3)	4P-8088
		78.0	1981	6N-7053 (3)	6N-7054
				1W-0422 (4)	6N-7054
		79.0	2007	4W-9051 (4)	4W-6256
		80.0	2032	7C-2500 (3)	7W-6129

Number in parentheses () after the set part number indicates the quantity of belts per set.

V-Belts

Cog Type

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
11/16	17.5	80.0	2032	4W-8510 (4)	7W-6129
		81.0	2057	8N-5509 (2)	6N-5338
				6N-5337 (3)	6N-5338
				7W-8137 (6)	6N-5338
		82.0	2083	7N-7055 (4)	7N-7056
		83.0	2108	118-2018 (3)	7W-8132
				7W-8135 (6)	7W-8132
		84.0	2134	1W-3711 (2)	4N-8197
				4N-8198 (3)	4N-8197
				8N-6710 (4)	4N-8197
		85.0	2159	7N-6602 (2)	7N-8538
				7N-4148 (4)	7N-8538
		86.0	2184	129-2416 (3)	1N-3464
				1N-3463 (2)	1N-3464
		87.0	2210	7N-4829 (2)	7N-4828
				8N-6696 (4)	7N-4828
				8N-6702 (6)	7N-4828
		88.0	2235	1W-0530 (2)	7N-2143
		89.0	2261	7N-9417 (2)	8N-6693
				8N-6708 (4)	8N-6693
				8N-6699 (6)	8N-6693
		90.0	2286	7W-5228 (6)	1W-8044
		92.0	2337	1N-3713 (6)	1N-3714
		94.0	2388	8N-6718 (4)	8N-6717
				8N-6700 (6)	8N-6717
		95.0	2413	5L-7426 (4)	5L-7425
				7L-7882 (6)	5L-7425
		96.0	2438	8N-6707 (4)	8N-6709
				8N-6705 (6)	8N-6709
		97.0	2464	8N-6713 (4)	8N-6719
				8N-6711 (6)	8N-6719
		98.0	2489	7N-3122 (5)	7N-3121
		99.0	2515	4W-0752 (3)	2W-5092
				7W-5229 (6)	2W-5092
		102.0	2591	7N-3118 (5)	7N-3117
		103.0	2616	1N-4480 (4)	1N-4092
				1N-4097 (6)	1N-4092
		105.0	2667	8N-6716 (6)	8N-6698
		106.0	2692	8N-6720 (6)	1N-4090
		107.0	2718	7N-3120 (5)	7N-3119
				1N-4095 (6)	7N-3119
		110.0	2794	8N-6694 (6)	1N-4093
		111.0	2819	1N-4098 (6)	1N-4089
3/4	19.1	41.5	1054		5M-5344

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
3/4	19.1	45.0	1143		5L-1584
		45.5	1156		9S-9010
		46.5	1181		1S-5138
		47.5	1206		5M-5345
		48.5	1232	5L-4660 (2)	3L-9717
		49.5	1257		8F-2434
		52.5	1334		7M-0169
		54.0	1372		3S-8402
		55.0	1397	7M-4691 (2)	5M-0924
		56.5	1435	7M-0298 (2)	7M-2097
		57.0	1448		8M-3646
		58.0	1473		4M-9678
		58.5	1486		3R-2689
		59.5	1511		7M-3921
		60.0	1524	8S-3199 (2)	
		61.5	1562	7M-6104 (2)	3P-0025
		62.0	1575	7S-9807 (2)	4M-6292
		62.5	1588	2P-6142 (2)	2P-6141
		63.0	1600	7M-6105 (2)	8H-9832
		63.5	1613	1P-2423 (2)	1P-2421
		64.0	1626	7M-6100 (2)	2M-8502
		64.5	1638	4S-7754 (2)	4S-7757
		65.0	1651	7S-9811 (2)	5M-2733
		66.0	1676	7S-9860 (2)	7S-9859
		66.5	1689	8M-1714 (2)	8M-1715
				3N-8258 (3)	8M-1715
		67.0	1702	1S-1126 (2)	2L-2991
		68.0	1727	5S-9078 (2)	5S-9505
		69.0	1753	5S-9079 (2)	5S-9506
		69.5	1765	7S-1690 (2)	7S-1691
		70.0	1778	7S-9810 (2)	7S-9809
		70.5	1791	5M-5343 (2)	5M-6096
		71.0	1803	7M-5535 (2)	4M-9386
				4N-4105 (4)	4M-9386
		72.5	1842	9M-6933 (2)	9M-6934
		73.0	1854	2P-6140 (2)	2P-6139
		74.0	1880	2P-2357 (2)	2P-2356
		74.5	1892	6N-2348 (2)	6N-2349
		76.0	1930	7S-8350 (2)	7S-8349
		76.5	1943	8S-6178 (2)	9M-5146
		77.0	1956		9M-3633
		79.0	2007	5R-2455 (3)	4M-9072
		79.5	2019	4N-4773 (4)	4N-4789
		80.0	2032	5S-0291 (3)	

Number in parentheses () after the set part number indicates the quantity of belts per set.

Cog Type

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
3/4	19.1	81.0	2057	2S-8268 (3)	2S-9911
		82.0	2083	4N-1745 (3)	7M-7373
		83.0	2108	3S-9646 (3)	2S-5279
		86.0	2184	7N-7502 (2)	5S-1762
		103.7	2633	115-2460 (4)	115-2459
		106.0	2692	127-5563 (4)	127-5564
		109.0	2769	169-0147 (4)	169-0146
7/8	22.2	74.5	1892	221-7007 (2)	221-7006
		91.0	2311	124-5113 (2)	110-0375
		94.0	2388	123-3995 (2)	110-0376
		100.0	2540	7M-4720 (2)	6B-9737
		107.0	2718	102-9928 (6)	4W-5092
				180-4526 (4)	4W-5092
		109.0	2769	123-5889 (4)	123-5890
				133-6445 (4)	133-6444
15/16	23.9	114.0	2895	119-6374 (6)	119-6373
		48.5	1232		5F-7676
		50.0	1270		5H-2896
		51.5	1308		5H-9857
		54.0	1372	7E-5097 (2)	7E-5096
		55.0	1397	7E-5113 (2)	7E-5114
		55.5	1410	7M-4711 (2)	9F-1899
		56.0	1422	1S-1127 (2)	1L-5514
		57.0	1448	4N-6529 (2)	5L-9902
		58.5	1486	7M-4715 (2)	8F-5164
		59.0	1499		8M-9708
		59.5	1511		4M-8218
		61.0	1549	2P-2369 (2)	3S-2347
		62.0	1575	8N-4128 (2)	5M-5347
		62.5	1588	2P-2696 (2)	5M-5965
		63.0	1600	7M-4716 (2)	4F-6390
		63.5	1613		6B-8536
		64.0	1626	2P-1388 (2)	2P-1272
		65.0	1651	7M-0981 (2)	1L-5681
		66.0	1676	4N-3587 (2)	7M-7477
				7M-7476 (3)	7M-7477
		66.5	1689	7L-7099 (2)	3L-7540
		67.0	1702	7M-7864 (3)	2H-1383
		67.5	1714	5L-5015 (2)	2M-8183
		69.0	1753	9M-7221 (2)	9M-7220
				2S-6913 (3)	9M-7220
		69.5	1765	3P-0071 (2)	5H-4207
		70.0	1778	7M-4706 (2)	4M-5429
		71.0	1803	7M-4707 (2)	4M-5413

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
15/16	23.9	71.0	1803	5L-5656 (3)	4M-5413
		71.5	1816	7M-4719 (2)	7B-0344
		72.5	1842	7M-4705 (2)	5H-1678
		73.0	1854	7M-4702 (2)	5H-7448
		73.5	1867	3P-0098 (2)	3P-0099
		74.0	1880	7M-0185 (2)	
		75.5	1918	8S-1475 (2)	2M-8255
				7M-4947 (3)	2M-8255
		76.0	1930	7M-4717 (2)	7H-9806
		76.5	1943	7M-4703 (2)	2M-7863
				7M-4704 (3)	2M-7863
		77.0	1956	7M-4718 (2)	1H-6929
		77.5	1968	5L-5014 (2)	3L-7539
				2S-6168 (3)	3L-7539
		78.5	1994	7M-4721 (2)	8B-3546
		79.0	2007	8M-0934 (2)	8M-0959
		80.0	2032	9M-7801 (2)	9M-7800
				2S-5653 (3)	9M-7800
		81.0	2057	8M-8681 (2)	3L-6052
				3S-7520 (3)	3L-6052
				6N-1551 (4)	3L-6052
		83.0	2108	4S-9791 (3)	4S-7796
		85.0	2159	7M-4710 (2)	5H-7371
		85.0	2159	2P-8624 (3)	5H-7371
		86.0	2184	7C-3559 (2)	7C-3560
		87.0	2210	2W-8951 (2)	1M-7303
				7M-4701 (3)	1M-7303
		88.0	2235	2W-6766 (2)	2W-6765
		89.0	2261	2W-8952 (2)	2S-5279
				7N-3965 (4)	7N-3966
		90.0	2286	1S-1207 (2)	5B-9790
				6N-7575 (4)	5B-9790
		92.0	2337	4W-7508 (2)	4W-7507
		100.0	2540	7W-6471 (6)	6B-9737
		102.0	2591	7W-1665 (4)	7W-1664
		107.0	2718	4W-5091 (5)	4W-5092
		113.0	2869	9Y-8467 (6)	9Y-8466
1 1/16	26.9	45.5	1156		6B-1039
		49.0	1245		7B-4032
		50.0	1270		4F-7956
		52.5	1334		5H-4239
1 1/8	28.6	41.5	1054		100-3725
		43.0	1093		7E-4841
1 1/4	31.8	60.5	1537		7B-2774

Number in parentheses () after the set part number indicates the quantity of belts per set.

V-Belts

Cog Type

SIZE (in) (mm)		LENGTH (in) (mm)		SET PART NUMBER	SINGLE BELT NUMBER
1 1/4	31.8	61.5	1562		8H-7180
		62.5	1588	5L-6672 (2)	3B-8904
		65.0	1651	6L-6552 (2)	1H-3592
		69.0	1753	7M-4948 (2)	1H-5899
		74.0	1880	7M-4953 (2)	5H-4462
1 3/8	34.9	59.3	1506		114-6414

Number in parentheses () after the set part number indicates the quantity of belts per set.

Serpentine Type

SIZE	LENGTH (in) (mm)		SINGLE PART NUMBER
SECTION	36.1	917	218-9823
	41.5	1054	100-3725
	43.0	1093	141-7116
	46.1	1170	186-4195
	48.4	1230	236-3842
	73.2	1860	219-3303
	85.8	2180	183-4494
	87.0	2210	211-5022
	88.4	2246	190-4155
	93.5	2376	189-2218
	97.4	2475	253-4012
	97.7	2481	219-3304
	100.6	2555	219-8689
	104.6	2658	239-5944
	111.0	2820	260-6106
	111.8	2840	226-9381
	112.6	2860	174-9690

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