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# Hand Tools (Inch)

## 8T-0461 Serviceman's Tool Set, 95 Piece Set Continued

Warranty: See individual part number

Part Number	Description	Size
<b>Combination Wrenches</b>		
8H-8501	Open End Tappet Wrench (2)	1/2 in x 9/16 in
4C-9604	Combination Wrench	1/4 in
4C-9605	Combination Wrench	5/16 in
4C-9592	Combination Wrench	3/8 in
4C-9593	Combination Wrench	7/16 in
4C-9594	Combination Wrench	1/2 in
4C-9595	Combination Wrench	9/16 in
4C-9596	Combination Wrench	5/8 in
4C-9597	Combination Wrench	11/16 in
4C-9598	Combination Wrench	3/4 in
4C-9599	Combination Wrench	13/16 in
4C-9601	Combination Wrench	7/8 in
4C-9602	Combination Wrench	15/16 in
4C-9603	Combination Wrench	1 in
1S-0253	Combination Wrench Short	3/4 in (short)
1S-0254	Combination Wrench Short	9/16 in (short)
<b>Pliers, Punches, Screwdrivers and Hammers</b>		
1F-1159	Center Punch <sup>1</sup>	3/16 in, 152.4 mm (6.00 in) long
8H-8578	Punch <sup>1</sup>	3/8 in Point, 241.3 mm (9.50 in) long
8H-8579	Punch <sup>1</sup>	5/32 in Point, 203.2 mm (8.00 in) long
1F-1160	Chisel <sup>1</sup>	3/8 in Edge, 139.7 mm (5.50 in) long
1F-1161	Chisel <sup>1</sup>	3/4 in Edge, 177.8 mm (7.00 in) long
5F-4764	Rolling Head Pry Bar <sup>1</sup>	406.4 mm (16.00 in) long

Part Number	Description	Size
<b>Pliers, Punches, Screwdrivers and Hammers Continued</b>		
6V-7933	Standard Screwdriver	5/16 in tip, 277.11 mm (10.91 in) long
6V-7937	Standard Screwdriver	239.78 mm (9.44 in) long
6V-7935	Standard Screwdriver	1/4 in tip, 212.85 mm (8.38 in) long
6V-7932	Standard Screwdriver	3/8 in tip, 342.1 mm (13.47 in) long
6V-7936	Phillips Screwdriver	No. 1 Phillips tip, 162.9 mm (6.66 in) long
6V-7934	Phillips Screwdriver	No. 2 Phillips tip, 213.6 mm (8.41 in) long
6V-6193	Heavy-Duty Diagonal Cutter	185.67mm (7.31 in)
8H-8582	Vise Grip	254 mm (10.00 in)
6V-6194	Needle Nose Pliers	181.1mm (7.13 in)
6V-6192	Slip Joint Pliers	191.8 mm (7.50 in)
6V-6195	Interlocking Joint Pliers	234.7 mm (9.25 in)
1S-0257	Ball Peen Hammer <sup>1</sup>	1 1/8 in, 340.2 g (12 oz)
1S-0258	Soft Face Hammer (Serviceable parts of the hammer, 1 Medium Tip 3S-0460, 1 Hard Tip 3S-0459) <sup>1</sup>	1 11/16 in, 907.2 g (32 oz)
8H-8580	Straight Blade Scraper <sup>1</sup>	38.1 mm (1.50 in) wide
8H-8581	Feeler Gauge <sup>1</sup>	25 blade, .0015 in to .025 in
208-6183	Hacksaw	419.0 mm (16.50 in) long
9S-1743	Ferrule Nut Wrench	3/4 in and 1 in
9S-1742	Hex Key Wrench Assembly	9 bits: .05 in, 1/16 in, 5/64 in, 3/32 in, 7/64 in, 1/8 in, 9/64 in, 5/32 in, 3/16 in

<sup>1</sup>Warranty: Six Months

<sup>2</sup>Deep length socket

<sup>3</sup>Shoulder bolt socket 12 point

# Hand Tools (Inch)

## 197-1880 Tool Set for Tree Harvesters Continued

Models: 550, 560, and 580 Tree Harvester (Skogsjan)

Part Number	Description	Size
<b>197-1880 Service Group (Tree Harvester) Continued</b>		
161-8958	Pump Wrench Assembly	—
162-8716	Ratchet Head Handle	—
163-4468	Hose Assembly, qty. 2	—
164-3171	Spanner Wrench	—
175-7546	Cutter Group	—
185-3630	Filter Strap Wrench Assembly <sup>1</sup>	—
194-3574	Metric Socket Set	—
194-3585	Hex Bit Socket Set	—

Part Number	Description	Size
<b>197-1880 Service Group (Tree Harvester) Continued</b>		
200-1929	Metric Hex Key Set	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
214-7218	Wrench	27 mm
214-7223	Combination Wrench	36.0 mm
214-7324	Torx® Bit Set	—
214-7330	Adjustable Wrench	12.00 in, 1 5/16 jaw range
214-7332	Adjustable Wrench	15.00 in
214-7333	Flex Head Ratchet	1/2 in Drive
214-7342	Screwdriver, No. 3 Phillips tip	—

<sup>1</sup>Warranty: Six Months

<sup>2</sup>Part of 1P-2855 Spanner Wrench Group

<sup>3</sup>Requires locking pin

<sup>4</sup>160-6390 Repair Kit

## 197-5088 Tool Set for Harvester Heads

Models: HH55 and HH65 Harvester Head (Skogsjan)

Essential Tool

- Used to perform routine maintenance and adjustment operations
- Service Group contains hand tools needed
- All tools are serviced separately

Part Number	Description	Size
<b>197-5088 Service Group (Harvester Head)</b>		
161-5346	Shackle, qty. 4	—
161-5347	Link, qty. 4	—
161-8953	Hex Wrench	6.00 mm
164-3171	Spanner Wrench	—
161-8956	Cleaning Hook	—

Part Number	Description	Size
<b>197-5088 Service Group (Harvester Head) Continued</b>		
164-5047	Chain Tool	—
197-3672	Saw Adjustment Wrench	Wrench opening: 3 3/4 in
224-0851	Chain	—
224-0853	Chain	—

## 197-1877 Tool Set for Forwarders

Models: 554 and 574 Forwarder (Skogsjan)

- Used to perform routine maintenance operations
- All tools are serviced separately

Part Number	Description	Size
<b>197-1877 Service Group (Forwarder)</b>		
1B-7810	Ball Peen Hammer	1 5/32 in
1U-5545	Metric Wrench Group	—
4C-9600	Wrench Tool Group	—
6V-7933	Standard Screwdriver	5/16 in tip, 277.11 mm (10.91 in) long
6V-7934	Phillips Screwdriver	No. 2 Phillips tip, 213.6 mm (8.41 in) long
6V-7935	Standard Screwdriver	1/4 in tip, 212.85 mm (8.38 in) long

Part Number	Description	Size
<b>197-1877 Service Group (Forwarder) Continued</b>		
6V-7936	Phillips Screwdriver	No. 1 Phillips tip, 162.9 mm (6.66 in) long
6V-7937	Standard Screwdriver	239.78 mm (9.44 in) long
6V-9102	Combination Wrench	22.0 mm
6V-9104	Combination Wrench	30.0 mm
6V-9124	Screwdriver	1/8 in tip
8H-8516	Combination Wrench	1 1/16 in
8H-8520	Combination Wrench	1 3/8 in (short)
9U-6533	Impact Socket	30.0 mm

Part Number	Description	Size
<b>197-1877 Service Group (Forwarder) Continued</b>		
127-2279	Open End Wrench, 1 5/8 in	1 5/8 in
160-6389	Reversible Ratchet Head <sup>1</sup>	3/4 in
162-8716	Ratchet Head Handle	—
194-3585	Hex Bit Socket Set	—
214-7218	Wrench	27 mm
214-7223	Combination Wrench	36.0 mm
214-7330	Adjustable Wrench	12.00 in, 1 5/16 jaw range

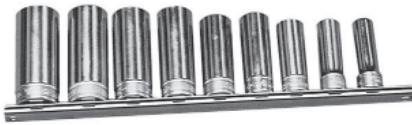
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# Hand Tools (Inch)

## 2P-5490 Deep Well Socket Set, 9 Piece, 1/2 inch Drive

Warranty: See individual part number

- 6 point
- 1/2 inch square drive
- Chrome finish
- Includes socket bar and clips



Part Number	Description	Size	Length
2P-5490	Deep Well Socket Group	—	—
<b>Deep Well Socket Set Consists of:</b>			
2P-5475	Socket	1/2 in	82.6 mm (3.25 in)
2P-5476	Socket	9/16 in	82.6 mm (3.25 in)
2P-5477	Socket	5/8 in	82.6 mm (3.25 in)
2P-5478	Socket	11/16 in	82.6 mm (3.25 in)
2P-5479	Socket	3/4 in	82.6 mm (3.25 in)
2P-5481	Socket	13/16 in	82.6 mm (3.25 in)
2P-5482	Socket	7/8 in	82.6 mm (3.25 in)
2P-5483	Socket	15/16 in	82.6 mm (3.25 in)
2P-5484	Socket	1 in	82.6 mm (3.25 in)

## 213-3086 Impact Socket Set, 11 Piece, 1/2 inch Drive

Warranty: See individual part number



- 6 point
- 1/2 inch square drive
- Standard length sockets
- Black oxide finish
- Includes socket bar and clips

Part Number	Description	Size	Length
213-3086	Impact Socket Set	—	—
<b>Impact Socket Set Consists of:</b>			
213-3087	Socket	1/2 in	38.1 mm (1.50 in)
213-3088	Socket	9/16 in	38.1 mm (1.50 in)
213-3089	Socket	5/8 in	38.1 mm (1.50 in)
213-3091	Socket	11/16 in	38.1 mm (1.50 in)
213-3094	Socket	3/4 in	38.1 mm (1.50 in)

Part Number	Description	Size	Length
<b>Impact Socket Set Consists of: Continued</b>			
213-3099	Socket	13/16 in	38.1 mm (1.50 in)
213-3102	Socket	7/8 in	38.1 mm (1.50 in)
213-3104	Socket	15/16 in	44.5 mm (1.75 in)
213-3107	Socket	1 in	44.5 mm (1.75 in)
213-3109	Socket	1 1/16	50.8 mm (2.00 in)
213-3110	Socket	1 1/8 in	50.8 mm (2.00 in)

## 213-3515 Impact Socket Set, 12 Piece, 1/2 inch Drive

Warranty: See individual part number



- 6 point
- 1/2 inch square drive
- Deep length sockets
- Black oxide finish
- Includes socket bar and clips

Part Number	Description	Size	Length
213-3515	Impact Socket Set	—	—
<b>Impact Socket Set Consists of:</b>			
213-3516	Socket	7/16 in	82.6 mm (3.25 in)
213-3517	Socket	1/2 in	82.6 mm (3.25 in)
213-3518	Socket	9/16 in	82.6 mm (3.25 in)
213-3520	Socket	5/8 in	82.6 mm (3.25 in)
213-3521	Socket	11/16 in	82.6 mm (3.25 in)

Part Number	Description	Size	Length
<b>Impact Socket Set Consists of: Continued</b>			
213-3522	Socket	3/4 in	82.6 mm (3.25 in)
213-3523	Socket	13/16 in	82.6 mm (3.25 in)
213-3524	Socket	7/8 in	88.9 mm (3.50 in)
213-3525	Socket	15/16 in	88.9 mm (3.50 in)
213-3526	Socket	1 in	88.9 mm (3.50 in)
213-3528	Socket	1 1/16 in	88.9 mm (3.50 in)
213-3530	Socket	1 1/8 in	88.9 mm (3.50 in)

# Hand Tools (Inch)

## Individual Sockets, 1/4 through 1 1/2 inch Drive Continued

Warranty: Lifetime

Part Number	Size	Length
<b>3/4 inch Drive, Standard Length Impact Sockets, 6 Point, Black Continued</b>		
214-6607	1 11/16 in	65.0 mm (2.56 in)
214-6569	1 3/4 in	65.0 mm (2.56 in)
214-6570	1 13/16 in	66.8 mm (2.63 in)
214-6571	1 7/8 in	69.9 mm (2.75 in)
214-6572	2 in	73.2 mm (2.88 in)
<b>3/4 inch Drive, Deep Length Impact Sockets, 6 Point, Black</b>		
214-6599	1 in	76.2 mm (3.00 in)
214-6600	1 1/16 in	76.2 mm (3.00 in)
227-4397 <sup>7</sup>	1 1/8 in	88.9 mm (3.50 in)
214-6601	1 1/8 in	76.2 mm (3.00 in)
5P-3053 <sup>8</sup>	1 3/16 in	101.6 mm (4.00 in)
214-6602	1 3/16 in	82.6 mm (3.25 in)
214-6603	1 1/4 in	82.6 mm (3.25 in)
214-6604	1 5/16 in	82.6 mm (3.25 in)
214-6605	1 3/8 in	82.6 mm (3.25 in)
214-6606	1 7/16 in	88.9 mm (3.50 in)
1U-5715	1 1/2 in	88.9 mm (3.50 in)
5P-3054	1 1/2 in	127.0 mm (5.00 in)
214-6608	1 9/16 in	88.9 mm (3.50 in)
214-6609	1 5/8 in	88.9 mm (3.50 in)
6V-7874	1 11/16 in	88.9 mm (3.50 in)
214-6611	1 3/4 in	88.9 mm (3.50 in)
214-6612	1 13/16 in	95.3 mm (3.75 in)
214-6613	1 7/8 in	95.3 mm (3.75 in)
214-6614	2 in	95.3 mm (3.75 in)
<b>3/4 inch Drive, Tapered Impact Sockets, 12 Point, Black</b>		
124-0662	3/4 in	127.0 mm (5.00 in)
<b>1 inch Drive, Standard Length Sockets, 12 Point</b>		
6V-0024	1 1/2 in	69.9 mm (2.75 in)
<b>1 inch Drive, Standard Length Sockets, 6 Point, Black</b>		
6V-4175	27/32 in	88.9 mm (3.50 in)
9S-6375	7/8 in <sup>9</sup>	88.9 mm (3.50 in)
5P-1745	7/8 in <sup>10</sup>	88.9 mm (3.50 in)
6V-2002	29/32 in <sup>11</sup>	57.2 mm (2.25 in)
9S-6374	15/16 in <sup>9</sup>	63.5 mm (2.50 in)
9S-6370	15/16 in <sup>11</sup>	76.2 mm (3.00 in)
5P-3579	1 3/32 in <sup>11</sup>	57.2 mm (2.25 in)
9S-6373	1 1/8 in <sup>11</sup>	57.2 mm (2.25 in)
9S-6369	1 1/8 in <sup>9</sup>	66.8 mm (2.63 in)
5P-3580	1 9/32 in <sup>11</sup>	63.5 mm (2.50 in)
9S-6372	1 5/16 in <sup>11</sup>	63.5 mm (2.50 in)
5P-3581	1 15/32 in <sup>11</sup>	63.5 mm (2.50 in)
4C-6723	1 7/16 in	63.5 mm (2.50 in)
9S-6371	1 1/2 in <sup>11</sup>	63.5 mm (2.50 in)
2P-2334	1 11/16 in	76.2 mm (3.00 in)
2P-2335	1 3/4 in	76.2 mm (3.00 in)
2P-2336	1 7/8 in	82.6 mm (3.25 in)
2P-2338	2 3/16 in	91.9 mm (3.62 in)
5P-1748	2 1/4 in <sup>12</sup>	87.1 mm (3.43 in)
5S-6077	2 3/8 in <sup>10</sup>	98.4 mm (3.87 in)
5S-6078	2 1/2 in <sup>10</sup>	104.8 mm (4.13 in)

Part Number	Size	Length
<b>1 inch Drive, Standard Length Sockets, 6 Point, Black Continued</b>		
5S-6079	2 5/8 in <sup>10</sup>	57.2 mm (2.25 in)
5S-6080	2 3/4 in <sup>10</sup>	114.3 mm (4.50 in)
2P-8262	2 7/8 in	98.6 mm (3.88 in)
5S-6081	3 in <sup>10</sup>	123.8 mm (4.87 in)
5S-6082	3 1/8 in <sup>10</sup>	127.0 mm (5.00 in)
5S-6083	3 1/4 in <sup>10</sup>	127.0 mm (5.00 in)
5S-6084	3 1/2 in <sup>10</sup>	133.4 mm (5.25 in)
5S-6085	3 5/8 in <sup>10</sup>	133.4 mm (5.25 in)
5S-6086	3 3/4 in <sup>10</sup>	136.5 mm (5.37 in)
5S-6087	4 in <sup>10</sup>	127.0 mm (5.00 in)
5P-1662	4 1/4 in	90.4 mm (3.56 in)
<b>1 inch Square Drive Standard Length Impact Sockets, 12 Point, Industrial Finish</b>		
168-7955	1 1/2 in	66.5 mm (2.62 in)
<b>1 inch Square Drive Standard Length Impact Sockets, 12 Point, Black Finish</b>		
4C-6994	1 1/2 in	57.2 mm (2.25 in)
<b>1 inch Square Drive Standard Length Impact Sockets, 6 Point, Industrial Finish</b>		
9U-6548	3/4 in	54.0 mm (2.13 in)
9U-6549	13/16 in	54.0 mm (2.13 in)
9U-6550	7/8 in	54.0 mm (2.13 in)
9U-6551	15/16 in	54.0 mm (2.13 in)
9U-6552	1 in	57.2 mm (2.25 in)
9U-6553	1 1/16 in	57.2 mm (2.25 in)
9U-6554	1 1/8 in	57.2 mm (2.25 in)
9U-6555	1 3/16 in	57.2 mm (2.25 in)
9U-6556	1 1/4 in	60.3 mm (2.37 in)
9U-6557	1 5/16 in	63.5 mm (2.50 in)
9U-6558	1 3/8 in	63.5 mm (2.50 in)
9U-6559	1 7/16 in	63.5 mm (2.50 in)
9U-6560	1 1/2 in	66.7 mm (2.63 in)
258-5686	1 1/2 in	69.9 mm (2.75 in)
9U-6561 <sup>13</sup>	1 9/16 in	66.7 mm (2.63 in)
9U-6562	1 5/8 in	69.9 mm (2.75 in)
9U-6563	1 11/16 in	73.0 mm (2.87 in)
9U-6564	1 3/4 in	73.0 mm (2.87 in)
9U-6565	1 13/16 in	74.6 mm (2.94 in)
9U-6566	1 7/8 in	74.6 mm (2.94 in)
9U-6567	1 15/16 in	74.6 mm (2.94 in)
9U-6568	2 in	82.6 mm (3.25 in)
9U-6569	2 1/16 in	82.6 mm (3.25 in)
9U-6570	2 1/8 in	82.6 mm (3.25 in)
9U-6571	2 3/16 in	84.9 mm (3.34 in)
9U-6572	2 1/4 in	84.9 mm (3.34 in)
9U-6573	2 5/16 in	88.9 mm (3.50 in)
9U-6574	2 3/8 in	92.1 mm (3.63 in)
9U-6575	2 7/16 in	92.1 mm (3.63 in)
9U-6576	2 1/2 in	92.1 mm (3.63 in)
9U-6577	2 9/16 in	95.3 mm (3.75 in)
9U-6578	2 5/8 in	95.3 mm (3.75 in)
9U-6579	2 11/16 in	98.4 mm (3.87 in)

Continued

## Combination Wrenches Continued

Warranty: Lifetime

Part Number	Size	Length
4C-9606	3/8 in	132.6 mm (5.22 in)
4C-9592	3/8 in	165.1 mm (6.50 in)
4C-9607	7/16 in	138.2 mm (5.44 in)
4C-9593	7/16 in	184.2 mm (7.25 in)
4C-9608	1/2 in	146.1 mm (5.75 in)
4C-9594	1/2 in	204.0 mm (8.03 in)
1S-0254	9/16 in (short)	165.1 mm (6.50 in)
4C-9595	9/16 in	222.3 mm (8.75 in)
4C-9609	5/8 in	157.2 mm (6.19 in)
4C-9596	5/8 in	241.3 mm (9.50 in)
4C-9611	11/16 in	167.4 mm (6.59 in)
4C-9597	11/16 in	260.4 mm (10.25 in)
1S-0253	3/4 in (short)	174.8 mm (6.88 in)
4C-9598	3/4 in	280.2 mm (11.03 in)
4C-9599	13/16 in	299.2 mm (11.78 in)
4C-9601	7/8 in	318.3 mm (12.53 in)
4C-9602	15/16 in	338.1 mm (13.31 in)
4C-9603	1 in	357.1 mm (14.06 in)
8H-8516	1 1/16 in	382.8 mm (15.07 in)
8H-8517	1 1/8 in	404.6 mm (15.93 in)
8H-8518	1 1/4 in	433.1 mm (17.05 in)
8H-8519	1 5/16 in	458.5 mm (18.05 in)
8H-8520	1 3/8 in (short)	482.6 mm (19.00 in)
8H-8424	1 1/2 in	534.5 mm (21.04 in)
8H-8423	1 5/8 in	562.4 mm (22.14 in)
9U-5130 <sup>2</sup>	46 mm (1 13/16 in)	596.0 mm (23.46 in)

<sup>1</sup> Box end is 6 point

<sup>2</sup> Black oxide finish

## 248-8810 Fractional Ratcheting Wrench Set, 8 piece

Warranty: Lifetime

- Dual pawl ratcheting box end
- 15 degrees offset box head
- Box ends are reversible
- Durable nickel chrome finish



Part Number	Size	Length
248-8811	5/16 in	135 mm (5 5/16 in)
248-8812	3/8 in	160 mm (6 5/16 in)
248-8813	7/16 in	170 mm (6 11/16 in)
248-8814	1/2 in	180 mm (7 1/16 in)
248-8815	9/16 in	190 mm (7 1/2 in)
248-8816	5/8 in	210 mm (8 1/4 in)
248-8817	11/16 in	230 mm (9 1/16 in)
248-8818	3/4 in	250 mm (9 13/16 in)

# Hand Tools (Metric)

## 214-6643 Impact Socket Set, 11 Piece, 1/2 inch Drive

Warranty: See individual part number



- 6 point
- 1/2 inch drive
- Black oxide finish
- Deep length impact sockets
- Includes socket bar and clips

Size	Part Number	Length
10.0 mm	214-6644	82.6 mm (3.25 in)
11.0 mm	214-6645	82.6 mm (3.25 in)
12.0 mm	214-6646	82.6 mm (3.25 in)
13.0 mm	214-6647	82.6 mm (3.25 in)
14.0 mm	214-6648	82.6 mm (3.25 in)
15.0 mm	214-6649	82.6 mm (3.25 in)
16.0 mm	214-6650	82.6 mm (3.25 in)
17.0 mm	214-6651	82.6 mm (3.25 in)
18.0 mm	214-6652	82.5 mm (3.25 in)
19.0 mm	214-6653	82.6 mm (3.25 in)
20.0 mm	214-7346	82.6 mm (3.25 in)

## 261-8572 Metric Swivel Impact Socket Set, 7 Piece, 3/8 inch Drive

Warranty: Lifetime



- 6 point
- 3/8 inch square drive
- Includes socket bar and clips

Size	Part Number	Length
10.0 mm	261-8573	50.8 mm (2.00 in)
12.0 mm	261-8574	53.1 mm (2.09 in)
13.0 mm	261-8575	54.1 mm (2.13 in)
14.0 mm	261-8576	55.4 mm (2.18 in)
15.0 mm	261-8577	56.4 mm (2.22 in)
17.0 mm	261-8578	62.2 mm (2.45 in)
18.0 mm	261-8579	64.0 mm (2.52 in)

## 246-8199 Metric Universal Impact Socket Set, 10 Piece, 1/2 inch Drive

Warranty: See individual part number



- 6 point
- 1/2 inch square drive
- Black oxide finish
- Standard length impact sockets
- Includes socket bar and clips

Size	Part Number	Length
10.0 mm	246-8185	73.7 mm (2.90 in)
11.0 mm	246-8186	73.7 mm (2.90 in)
12.0 mm	246-8187	73.7 mm (2.90 in)
13.0 mm	246-8188	73.7 mm (2.90 in)
14.0 mm	246-8189	73.7 mm (2.90 in)
15.0 mm	246-8190	73.7 mm (2.90 in)
16.0 mm	246-8191	73.7 mm (2.90 in)
17.0 mm	246-8192	77.8 mm (3.06 in)
18.0 mm	246-8194	77.7 mm (3.06 in)
19.0 mm	246-8197	77.7 mm (3.06 in)

# Miscellaneous Hand Tools

## 197-3672 Saw Adjustment Wrench

Model: Harvester Head



- Used to adjust saw tension on newer model saw heads
- Designed for easy access of adjustment nut
- Wrench opening: 3 3/4 inch

Part Number	Description	Size
197-3672	Saw Adjustment Wrench	Wrench opening: 3 3/4 in

## 9U-6517 Ratchet Wrench

Model: 5000 Series Mining Excavators

SMCS Code: 7063-010, 7063-017, 0602

Warranty: Lifetime



- Used to quickly remove and install bolts (Use standard wrench for initial loosening; bolts cannot be tightened to final torque with ratchet wrench.)
- For 30 mm hex bolts
- Fits 46 mm (1 13/16 in) bolt heads
- Ratcheting style wrench greatly decreases time for removing or installing the many bolts required to attach swing bearing/gear (Starting and running bolts down until seated, or removing bolts, can take a large amount of time if done with conventional hand tools.)

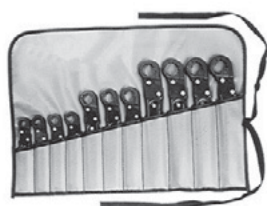
### Reference:

SENR6058, 5130 Service Manual Module, Disassembly and Assembly; SENR6108, 5230 Service Manual Module, Disassembly and Assembly; SEHS9721 Special Instruction, Assembly Procedure for Hydraulic Excavator (5130 only)

Part Number	Wrench Type	Bolt Head Size	Torque Specification	Thickness	Head Diameter	Overall Length
9U-6517	Ratcheting box end	46.0 mm (1.81 in)	up to 490 N•m (366 lb ft)	16.0 mm (0.63 in)	80.8 mm (3.18 in)	354.0 mm (14.00 in)

## 8T-3120 Straight Handle Wrench Set, 11 Piece

Warranty: Lifetime



- Available in hex sizes from 3/8 inch to 1 inch
- Ratchets in 45° increments (1/8 of a turn)
- Forged steel jaws, heat treated high carbon steel handles, and stainless steel rivets with a black corrosion-resistant finish

Part Number	Hex Size	Torque Capacity
8T-3122	3/8 in	26.0 N•m (19.18 ft-lb)
8T-3123	7/16 in	29.0 N•m (21.39 ft-lb)
8T-3124	1/2 in	34.0 N•m (25.08 ft-lb)
8T-3125	9/16 in	45.0 N•m (33.19 ft-lb)
8T-3126	5/8 in	68.0 N•m (50.15 ft-lb)

Part Number	Hex Size	Torque Capacity
8T-3127	11/16 in	86.0 N•m (63.43 ft-lb)
8T-3128	3/4 in	97.0 N•m (71.54 ft-lb)
8T-3129	13/16 in	114.0 N•m (84.08 ft-lb)
8T-3130	7/8 in	141.0 N•m (104.00 ft-lb)
8T-3131	15/16 in	159.0 N•m (117.27 ft-lb)
8T-3132	1 in	170.0 N•m (125.39 ft-lb)

## Special Large Socket Wrenches Continued

Part Number	Description	Hex Size	Usable Depth
<b>3/4 inch Drive Continued</b>			
1U-6691	Large Socket Wrench	5.50 in	7.90 in
1U-6692	Large Socket Wrench	5.75 in	7.90 in
<b>Bar Turn</b>			
9F-9963	Bar Turn	1.46 in	8.38 in

<sup>1</sup> Special for removal of solenoid valves on counter shaft transmission

<sup>2</sup> Octagon

## Lock Removal Socket

- 1/2 inch drive

Part Number	Size
5P-6587	1/2 in Hex
5P-6588	9/16 in Hex
5P-6589	3/4 in Hex



## 2P-5481 Spark Plug Wrench

### 1P-5559 Spark Plug Adapter Wrench

SMCS Code: 1555-011

Model: 5.4 inch Bore Natural Gas Engines

Warranty: Lifetime

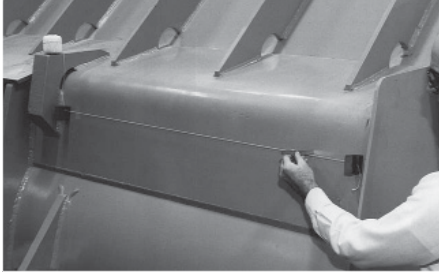


- Used to remove spark plugs and adapters on 5.4 inch Bore Natural Gas Engines (G342, G353, G379, G398)
- Especially useful because plugs and adapters are deeply recessed in top of engine
- 1P-5559 Wrench: Large end, 1.25 in; Small end, .75 in

Part Number	Description
1P-5559	Spark Plug Adapter Wrench
2P-5481	Socket

# Miscellaneous Hand Tools

## 4C-9798 Block Magnet



- Measures or checks for straight line dimensions on any large, steel structure using magnet restrained string lines
- Fast, economical means of simplifying inspection of large steel structures for alignment, position, parallelism, dimensional accuracy
- Strong enough to hold a tight string over a steel structure
- Magnets can be stacked to obtain string clearance with structure features
- String not included

Part Number	Description	Size	Weight
4C-9798	Block Magnet	25.0 mm x 25.0 mm x 50.0 mm (1.00 in x 1.00 in x 2.00 in)	0.166 kg (0.366 lbs)

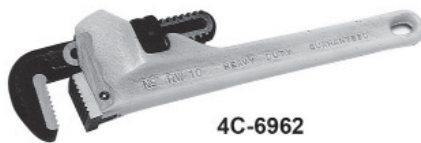
## Aluminum Pipe Wrenches



- 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 Number	Description	Pipe Capacity	Length
1	4C-6974	Aluminum Wrench	14.0 mm - 63.0 mm (.25 in - 2.00 in)	356.0 mm (14.02 in)
2	4C-6975	Aluminum Wrench	14.0 mm - 75.0 mm (.25 in - 2.50 in)	457.0 mm (17.99 in)
3	4C-6976	Aluminum Wrench	14.0 mm - 90.0 mm (1.25 in - 3.00 in)	610.0 mm (24.02 in)
Not shown	4C-6973	Aluminum Wrench	10.0 mm - 48.0 mm (.13 in - 1.50 in)	254.0 mm (10.00 in)

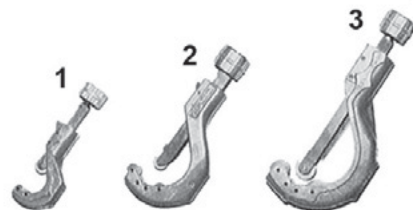
## Heavy-Duty Pipe Wrenches



- High-tensile ductile iron handle and hardened tool-steel parts
- Designed to withstand heavy demands

Part Number	Pipe Capacity	Length	Weight
4C-6962	10.0 mm - 48.0mm (.13 in - 1.50 in)	254.0 mm (10.00 in)	5.4 kg (12 lb)
4C-6963	10.0 mm - 60.0 mm (.13 in - 2.00 in)	305.0 mm (12.00 in)	8.1 kg (18 lb)
4C-6964	14.0 mm - 63.0 mm (.25 in - 2.00 in)	356.0 mm (14.00 in)	9.5 kg (21 lb)
4C-6965	14.0 mm - 75.0 mm (.25 in - 2.50 in)	457.0 mm (18.00 in)	15.0 kg (33 lb)
4C-6972	14.0 mm - 90.0 mm (.25 in - 3.00 in)	610.0 mm (24.00 in)	27.2 kg (60 lb)

## Quick Release Tubing Cutters



- Offer the best tracking and easiest cutting available anywhere
- Cut copper, aluminum and steel tubing (not steel pipe)
- With a quick wheel change, they also cut a wide variety of plastic pipe and tubing

Item	Part Number	O.D. Capacity	Length	Weight	Wheel for Copper, Aluminum, Brass, Steel	Wheel for Stainless Steel
1	4C-6977	3.0 mm - 33.0 mm (.13 in - 1.31 in)	152.0 mm (5.98 in)	0.2 kg (0.44 lb)	4C-6980	4C-6981
2	4C-6978	6.0 mm - 60.0 mm (.25 in - 2.63 in)	203.0 mm (7.99 in)	0.5 kg (1.10 lb)	4C-6980	4C-6981
3	4C-6979	10.0 mm - 90.0 mm (.38 in - 3.50 in)	279.0 mm (10.98 in)	1.1 kg (2.43 lb)	4C-6982	—

## Acid Brushes



- Genuine horsehair bristles, crimped with flat tin handle
- Chemical resistant handle

Part Number	Description	Size
1U-9977	Acid Brush	3/8 in
1U-9978	Acid Brush	1/2 in
1U-9979	Acid Brush	9/16 in

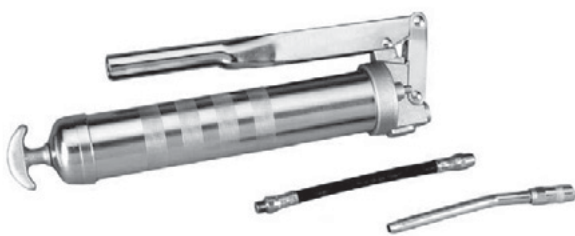
## 1U-9921 Battery Post Brush



- Stiff wire bristles thoroughly clean posts

Part Number	Description
1U-9921	Battery Post Brush

## 8F-9866 Lever Grease Gun, Model Pro "L"



- 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
- Cat branded

### 8F-9866

- Maximum operating pressure of assembly: 68,948 kPa (10,000 PSI)

### Reference

NEHS0793 Tool Operating Manual

## Pneumatic Wrench Groups Continued

194-7586 Pneumatic Wrench Group (RAD 2000)	
Torque range	571 to 2857 N•m (400 to 2000 ft lbs)
Square drive	1 inch
Air pressure for maximum torque	689 kPa (100 PSI)
Air consumption at 689 kPa (100 PSI)	20 cfm
Minimum pressure	103 kPa (15 PSI)
194-7582 Pneumatic Wrench Group (RAD 25)	
Torque range	1143 to 4285 N•m (800 to 3000 ft lbs)
Square drive	1 inch
Air pressure for maximum torque	689 kPa (100 PSI)
Air consumption at 689 kPa (100 PSI)	32 cfm
Minimum pressure	103 kPa (15 PSI)

Part Number	Description
<b>194-7586 Pneumatic Wrench Group (RAD 200) contains 194-7589 and 194-7591<sup>1</sup></b>	
194-7586	Pneumatic Wrench Group (RAD 2000)
194-7589	Pneumatic Wrench Group
194-7591	Regulator Group
<b>194-7589 Consists of:</b>	
194-7607	Snap Ring Kit
195-3500	Wrench Assembly
195-7592	Reaction Arm
<b>194-7591 Consists of:</b>	
194-7609	Hose Assembly
194-7610	Cage Assembly
194-7611	Filter Assembly
194-7612	Gauge Pressure
<b>194-7582 Pneumatic Wrench group (RAD 25) contains 194-7590 and 194-7591<sup>1</sup></b>	
194-7582	Pneumatic Wrench Group (RAD 25)
194-7590	Pneumatic Wrench Group
194-7591	Regulator Group
<b>194-7590 Consists of:</b>	
194-7605	Reaction Arm
194-7608	Snap Ring Kit
195-3501	Wrench Assembly
<b>194-7591 Consists of:</b>	
194-7609	Hose Assembly
194-7610	Cage Assembly
194-7611	Filter Assembly
194-7612	Gauge Pressure

<sup>1</sup>262-6726 Reaction Blank is available

## Air Grinders Continued

Warranty: Manufacturer's



**222-3076**



**222-3074**

Part Number	Recommended Air Pressure	Air Consumption, Free Speed	Horsepower	Sound Level, Free Speed	Air Inlet Thread Size	Recommended Hose Size, ID min.	Collet Size	Overall Length	Free Speed	Wheel Capacity	Weight	Length	Height	Sound Level	Air Consumption Under Load	Spindle Thread Size
<b>7 in Angle Grinder</b>																
222-3071	—	8 l/s (18 cfm)	—	—	—	—	—	—	6000 RPM	175 mm (7 in)	2.7 kg (5.9 lb)	315 mm (12.4 in)	—	85 dBa	17 l/s (35 cfm)	5/8 in - 11
<b>7 in Vertical Grinder</b>																
222-3072	—	28 l/s (60 cfm)	—	—	—	—	—	—	6000 RPM	175 mm (7 in)	4.1 kg (9.1 lb)	—	180 mm (7.1 in)	82 dBa	28 l/s (60 cfm)	5/8 in - 11
<b>Medium Mini Die Grinder</b>																
222-3074	620 kPa (90 PSIG)	25 SCFM (3.5 CFM) [99.11 l/min]	0.2	91 dBa	1/4 in - 18 NPT	8 mm (5/16 in)	1/4 in	165 mm (6.5 in)	—	—	1.09 kg (2.4 lb)	—	—	—	—	—
<b>Right Angle Die Grinder</b>																
222-3076	620 kPa (90 PSIG)	15 SCFM (2.1 CFM) [59.47 l/min]	0.2	93 dBa	1/4 in - 18 NPT	8 mm (5/16 in)	1/4 in	140 mm (5.5 in)	—	—	.64 kg (1.4 lb)	—	—	—	—	—
<b>Extended Die Grinder</b>																
222-3077	620 kPa (90 PSIG)	25 SCFM (3.5 CFM) [99.11 l/min]	0.2	91 dBa	1/4 in - 18 NPT	8 mm (5/16 in)	1/4 in	293 mm (11.5 in)	—	—	1.05 kg (2.5 lb)	—	—	—	—	—

## 263-7147 Lock-N-Stitch® Crack Repair Kit



- Unique threaded stitching pins and locks repair cracks in cast and ductile iron, steel, or aluminum castings
- L-Series Stitching Pins use an interference fit to seal pressure tight and can be installed at steep angles
- C-Series Stitching Pins feature Spiralhook™ threads to produce drawing pressure that pulls sides of the crack together for strength
- Locks installed across a crack; drill jigs create precise hole patterns across cracks in castings; locks driven into hole patterns creating additional strength
- Cold process—viable alternative to welding
- In many cases parts can be repaired without disassembly
- Extensive kit features specialized tools, complete instructions including six DVDs covering all aspects of crack repair, and storage case
- Provides a wide range of repair solutions

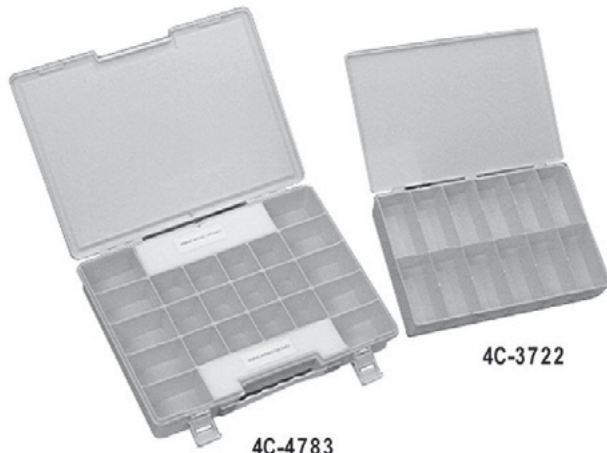
Part Number	Description	Qty.
263-7147	Crack Repair Kit	—
<b>Tools</b>		
263-7184	Magcheck™ Kit	1
263-7190	Pneumatic Tapping Tool	1
263-7253	Large Collet for 2637190	1
263-7254	Quick Change Tap Adapter	1
263-7249	Trim-Kut® 3 inch Discs (includes 1/4 inch mandrel)	10
<b>“L” Series Stitching Pins, 6.3 mm (.248 in) Thread Diameter</b>		
263-7193	Stitch Pin, 6.3 mm (.250 in) length	100
263-7194	Stitch Pin, 9.5 mm (.375 in) length	100
263-7195	Stitch Pin, 15.9 mm (.625 in) length	100
263-7196	Stitch Pin, 25.4 mm (1.00 in) length	100
263-7197	Drill Bit, wire size 7	2
263-7198	Starting Tap	1
263-7199	Bottom Tap	1
263-7200	Piloted Tap	1
263-7201	Drilling Jig	1
<b>“L” Series Stitching Pins, 8.3 mm (.326 in) Thread Diameter</b>		
263-7202	Stitch Pin, 6.3 mm (.250 in) length	100
263-7203	Stitch Pin, 12.7 mm (.500 in) length	100
263-7204	Stitch Pin, 25.4 mm (1.00 in) length	100
263-7208	Drill Bit, letter size L	2
263-7205	Starting Tap	1
263-7206	Bottom Tap	1
263-7207	Piloted Tap	1
263-7250	Drilling Jig	1
<b>“C” Series Stitching Pins, 6.0 mm (.233 in) Thread Diameter</b>		
263-7209	Stitch Pin, 6.3 mm (.250 in) length	100
263-7210	Stitch Pin, 9.5 mm (.375 in) length	100
263-7211	Stitch Pin, 12.7 mm (.500 in) length	100
263-7212	Stitch Pin, 19 mm (.750 in) length	100
263-7213	Stitch Pin, 28.6mm (1.125 in) length	100
263-7197	Drill Bit, wire size 7	2
263-7201	Drilling Jig	1

Part Number	Description	Qty.
<b>“C” Series Stitching Pins, 6.0 mm (.233 in) Thread Diameter Continued</b>		
263-7215	Finishing Tap, fine	1
263-7216	Bottom Tap, fine	1
263-7217	Spotfacer	1
263-7218	Drill Stop	1
<b>“C” Series Stitching Pins, 9.5 mm (.375 in) Thread Diameter</b>		
263-7219	Stitch Pin, 15.9 mm (.625 in) length	25
263-7220	Stitch Pin, 22.2 mm (.875 in) length	25
263-7221	Stitch Pin, 34.9 mm (1.375 in) length	25
263-7222	Stitch Pin, 50.8 mm (2.00 in) length	25
263-7226	Drill Bit, letter size O	2
263-7223	Rough Tap	1
263-7224	Bottom Tap	1
263-7225	Bottom Tap	1
263-7251	Drilling Jig	1
263-7228	Drill Stop	1
263-7227	Spotfacer	1
<b>Lock, 20 mm (.793 in) Long</b>		
263-7230	Lock, 3.2 mm (.125 in) thick	10
263-7232	Drill Bit, wire size 15	3
263-7233	Drill Stop	1
263-7234	Drilling Jig	1
<b>Lock, 36 mm (1.409 in) Long</b>		
263-7235	Bottom Lock, 2 mm (.080 in) thick	10
263-7236	Surface Lock, 4 mm (.160 in) thick	10
263-7238	Drill Bit Set, 1/8 and 3/16 inch	3 each
263-7240	Drill Stop, 1/8 inch	1
263-7241	Drill Stop, 3/16 inch	1
263-7239	Drilling Jig	1
<b>Lock, 48 mm (1.877 in) Long</b>		
263-7242	Bottom Lock, 5 mm (.190 in) thick	10
263-7243	Surface Lock, 9.5 mm (.375 in) thick	5
263-7244	Drill Bit Set, 1/8 and 1/4 inch	3 each
263-7240	Drill Stop, 1/8 inch	1
263-7246	Drill Stop, 1/4 inch	1

Hand Tools

Continued

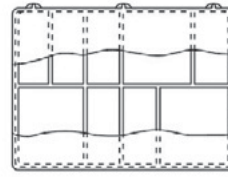
## Plastic Divided Utility Boxes with Hinged Lids Continued



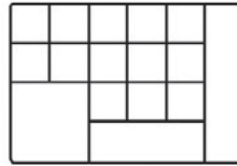
4C-4783



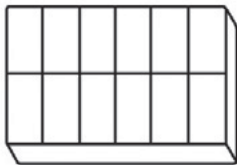
4C-3722



4C-3725



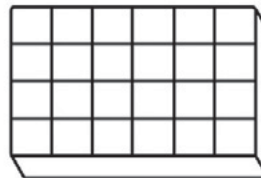
6V-3007



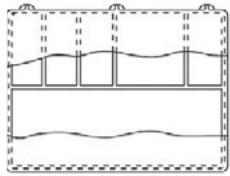
4C-3722



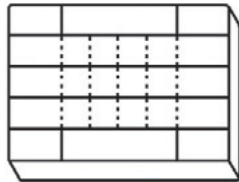
4C-3723



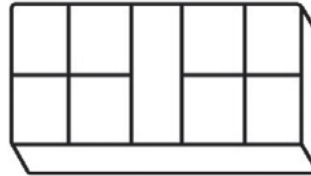
4C-3724



4C-4463



4C-4783



4C-4787

Part Number	Length	Width	Thickness	Color	Number of Compartments	Size
4C-3722	332.74 mm (13.10 in)	228.60 mm (9.00 in)	58.42 mm (2.30 in)	Yellow	12	50.80 x 104.14 mm (2.00 x 4.10 in)
4C-3723	332.74 mm (13.10 in)	228.60 mm (9.00 in)	58.42 mm (2.30 in)	Yellow	6, 12	50.80 x 101.60 mm (2.00 x 4.10 in), 50.80 x 50.80 mm (2.00 x 2.00 in)
4C-3724	332.74 mm (13.10 in)	228.60 mm (9.00 in)	58.42 mm (2.30 in)	Yellow	24	50.80 x 50.80 mm (2.00 x 2.00 in)
4C-3725	332.74 mm (13.10 in)	228.60 mm (9.00 in)	58.42 mm (2.30 in)	Yellow	3, 6	104.14 x 104.14 mm (4.10 x 4.10 in), 50.80 x 104.14 mm (2.00 x 4.10 in)
4C-4463	332.74 mm (13.10 in)	228.60 mm (9.00 in)	58.42 mm (2.30 in)	Yellow	4, 1, 1	50.80 x 104.14 mm (2.00 x 4.10 in), 104.14 x 104.14 mm (4.10 x 4.10 in), 104.14 x 317.50 mm (4.10 x 12.50 in)
4C-4783	381 mm (15.00 in)	298.5 mm (11.75 in)	63.50 mm (2.50 in)	Gray/See-through Smoke Gray	9-24	15 Removable Dividers
4C-4787	177.80 mm (7.00 in)	95.3 mm (3.75 in)	31.75 mm (1.25 in)	Opaque	8, 1	35.05 x 41.15 mm (1.38 x 1.62 in), 28.45 x 82.55 mm (1.12 x 3.25 in)
4C-4789	209.55 mm (8.25 in)	114.3 mm (8.66 in)	35.05 mm (1.38 in)	Opaque	12	31.75 x 50.80 mm (1.25 x 2.00 in)

Continued

## Brushes — Safety Requirements Continued

Brush arbor hole and spindle diameter should be the same for free fit. Spindle length should be sufficient to permit a full nut mounting. Direction of spindle nut thread should be in such relation to the direction of rotation that the nut will tend to tighten as spindle revolves. When flanges are used, they should be identical in size and radial bearing surface to avoid cross-bending pressure on the brush.

### Work Rest

On single or double end pedestal machines, work rests of rigid and adjustable design should be used to support the work piece while brushing. Adjust the work rest for a maximum opening of 1/8 inch to the brush face. This will prevent the work from being forced between the brush and rest. The work rest should be adjusted only when the brush is not in motion.

### Speed

MAXIMUM SAFE FREE SPEED (MSFS) is the maximum RPM at which the brush should be operated with no work applied (spinning fee). It is not the recommended operating speed. The application determines the recommended operating speed, which should never exceed the MSFS brush ratings marked on the brush and/or shown in this catalog. Periodic speed checks of the spindle are the responsibility of the operator and user.

In all cases where MSFS is not indicated, and on special brushes, contact Shop Supplies and Tools group for specific operating speed details.

### Protective Equipment

The potential of serious injury exists for both the brush operator and others in the work area (possibly 50 or more feet from the brush). To protect against this hazard, before rotating the brush during rotation, and until rotation stops operators and others in the area must wear SAFETY GOGGLES or FULL FACE SHIELDS WORN OVER SAFETY GLASSES WITH SIDE SHIELDS. Comply with the requirements of ANSI Z87.1-1979 "Operational Eye and Face Protection."

Appropriate protective clothing and equipment (such as gloves, respirators, etc.) shall be used where there is probability of injury that can be prevented by such clothing or equipment.

Certain brushing operations, because of their nature and location, may require an enclosure to isolate the operation from other personnel.

### Machine Guards

Rotating power brushes should be used only on machines that are equipped with safety guards, and these guards must be kept in place at all times.

### Starting the Brush

Jog the machine before starting to determine if it is ready to use, and that the brush is fastened securely. Run the brush at operating speed with the safety guards in place for at least one minute before applying work. Do not stand in front of or in line with the brush during this time.

### Brush Pressure

Avoid excessive pressure against the work. This reduces the efficiency of the brush and could cause premature failure during operation.

Comply with the Safety Standards of the Industrial Division of the American Brush Manufacturers Association and the American National Standards Institute B 165.1-1985 "Safety Requirements for the Design, Care and Use of Power Driven Brushing Tools," and B 165.2-1982 "Safety Requirements for the Design, Care and Use of Power Driven Brushing Tools constructed with wood, plastic, or composition hubs and cores."

## Brushes — Terminology

### Outside Diameter

A larger brush diameter results in a more efficient finishing tool. Production economies are obtained through lower end-of-service costs. Wire brushes 304.8 mm (12 in) O.D. are a practical size whereas 304.8 to 406.4 mm (12 in to 16 in) O.D. is usually best for non-metallic types. Sizes for portable tools (6,000 RPM maximum) should not exceed 152.4 mm (6 in) O.D. in any material.

### Inside Diameter

Diameter of brush back. Increasing the inside diameter of a brush while maintaining the outside diameter results in a stiffer, less flexible brush face.

### Trim Length

Length of fill material extending beyond brush back or face plates. A short trim makes a stiff fast cutting brush, while a long trim gives a brush the flexibility to contact irregular surfaces.

### Fill Density

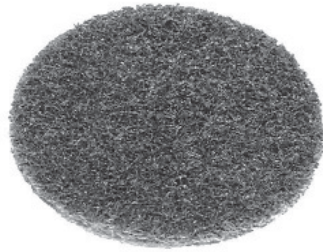
Brushes with high density are used to produce finer surface finishes, and also where fast cutting action is required; for example, burr removing operations.

Brushes with low density offer greater brush flexibility. The relatively high degree of freedom of the brush wires makes for quick and efficient removal of rust, scale and other incrustations from surfaces by the impact resulting from the whip-like impingement of the wires on the surface.

Continued

Surface Reconditioning Discs — Superior Edge Wear

Shop Supplies



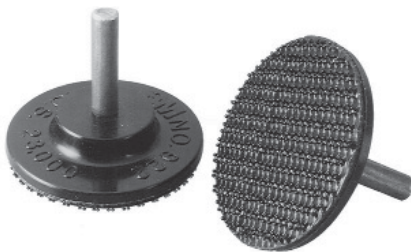
- Surface reconditioning disc used on right angle tools
- The edges of an abrasive on a right angle grinder tend to wear faster than the center and thus the disc is never fully used up. Superior edge wear discs have longer overall life than standard discs.
- Ideal for gasket removal, rust removal and general cleaning on steel parts
- Retained by hook and loop type fasteners or 7/8 inch bolt thru application
- Brown disc with gray backing

Part Number	Package Quantity	Description	Diameter	Maximum Operating Speed (RPM)	Optimum Operating Speed (RPM)	Associated Tool
9U-6921	10	SE Disc — A Coarse	177.8 mm (7 in)	6,000	4,500	Grinder
9U-6922	10	SE Disc — A Coarse	127.0 mm (5 in)	10,000	10,000	Grinder
9U-6923	10	SE Disc — A Coarse	127.0 x 22.23 mm center hole (5 x 7/8 in)	10,000	10,000	Grinder
9U-6924	10	SE Disc — A Coarse	101.6 mm (4 in)	13,000/18,000 <sup>1</sup>	10,000/15,000	Grinder/ Hand Drill
9U-6925	10	SE Disc — A Coarse	101.6 x 22.23 mm center hole (4 x 7/8 in)	13,000	10,000	Grinder/ Hand Drill
9U-6926	10	Roloc — A Coarse	76.2 mm (3 in)	18,000	15,000	Die Grinder/ Hand Drill
9U-6927	10	Roloc — A Coarse	50.8 mm (2 in)	25,000	21,000	Die Grinder/ Hand Drill

<sup>1</sup> Maximum speed is 13,000 if used with 4C-4763 Disc Pad Holder or 4C-4764 Disc Pad Holder and 155-3595 Adapter; maximum speed is 18,000 if used with 1U-7623.

Disc Pad Holders

**Safety Tip**  
Place holder on table before turning tool on—prevents pad from flying off.

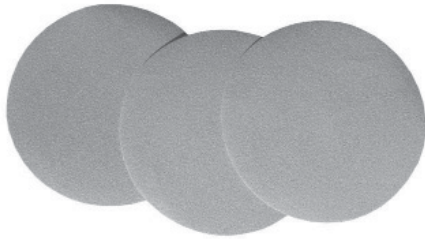


Part Number	Package Quantity	Used With	Description	Diameter	Hub/Shank	Maximum Operating Speed (RPM)
5P-9718	—	5P-9709	Pad Holder	177.8 mm (7 in)	5/8 in-11	6,000
6V-0186 <sup>1</sup>	—	150-1244	Pad Holder	127.0 mm (5 in)	5/8 in-11	10,000
4C-4763	—	1U-7622	Pad Holder 914	101.6 mm (4 in)	M14 x 2	13,000
4C-4764	—	1U-7622	Pad Holder 914	101.6 mm (4 in)	5/8 in-11	13,000
1U-7623	—	1U-7622	Pad Holder 925	101.6 mm (4 in)	6.35 mm shaft (1/4 in)	18,000

Continued

### Hook and Loop Sanding Discs

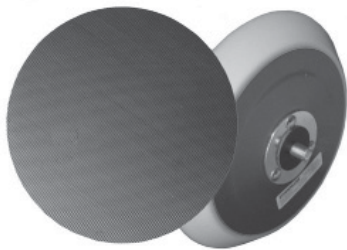
Shop Supplies



- Extremely tear resistant
- Resists loading on metal, paint and wood surfaces
- Strong backing
- Use with hook and loop sanding pads
- Material: aluminum oxide, film back resin bond
- Color: blue

Part Number	Diameter	Grit	Package Quantity
281-8271	127.0 mm (5.0 in)	100	50
281-8272	127.0 mm (5.0 in)	180	50
281-8273	152.4 mm (6.0 in)	100	50
281-8274	152.4 mm (6.0 in)	180	50
281-8275	152.4 mm (6.0 in)	220	50
281-8282	203.2 mm (8.0 in)	80	50

### Hook and Loop Sanding Pads



- Molded hook and loop sanding pad with plastic hub
- Use with hook and loop sanding discs

Part Number	Diameter	Size	Maximum Operating Speed (RPM)
275-5264	127.0 mm (5.0 in)	5/16 -24	10,000
275-5265	152.4 mm (6.0 in)	5/16 -24	10,000
275-5266	203.2 mm (8.0 in)	5/8 -11	4800

**Mandrel for Small Abrasive Wheels**

Shop Supplies



- Simple, quick change design
- Used with small cut-off wheels with either a 1/4 inch or 3/8 inch hole
- Not recommended for wheels thicker than 1/8 inch
- Safe to use in die grinders up to 30,000 RPM
- Flush head for confined work
- Stress relieved, high tensile steel
- Includes two screws, one for 1/4 inch and one for 3/8 inch holes

Part Number	Description	Dimensions	Package Quantity
236-8038	Mandrel	2 inch OAL x 1/4 inch shank	Bulk

**Drill Sharpening Wheels (Type 1)**



- Used on drill sharpening machines to form or resharpen drills
- Use aluminum oxide for all types of steel
- Use silicone carbide for tungsten carbide, non-ferrous metals such as brass, bronze and aluminum

Part Number	Grit Spec.	Wheel Size (O.D. x Thickness x I.D.)	Package Quantity
4C-3766	A80-H Aluminum Oxide	152.4 mm x 19 mm x 15.88 mm (6 in x 3/4 in x 5/8 in)	1
4C-3768 <sup>1</sup>	C80-I Silicon Carbide	152.4 mm x 19 mm x 15.88 mm (6 in x 3/4 in x 5/8 in)	1

<sup>1</sup> Used to sharpen cobalt or carbide drill bits and tools

**Portable Wheels — Reinforced (Type 1)**



4C-3777

- Manufactured by Norton for Caterpillar
- These reinforced wheels are to be used on grinders to clean up and blend
- Straight wheels are to be used on portable horizontal shaft or straight shaft machines

Continued

**Carbide Burs**

- For use with aluminum non-ferrous metals and non-metallic materials
- Wide clearance and end mill type geometry of the flutes promotes fast stock removal with minimum loading
- Material: tungsten carbide

Part Number	Size	Shape	Package Quantity
236-8103	9.53 mm x 19 mm (3/8 in x 3/4 in)	Round Nose	1
236-8104	9.53 mm x 19 mm (3/8 in x 3/4 in)	Cylindrical	1

**Spira Bands and Mandrels**

- Ideal for grinding, blending, deburring, finishing and polishing flat and contoured surfaces
- Design eliminates lap bumping marks, provides chatter free operation
- Good alternative tools for flap wheels

Part Number	Grit	Size	Package Quantity
4C-3778	60	19 mm x 25.4 mm (3/4 in x 1 in)	1
4C-3779	60	25.4 mm x 25.4 mm (1 in x 1 in)	1
4C-3780	60	38.1 mm x 38.1 mm (1 1/2 in x 1 1/2 in)	1
4C-3781	60	50.8 mm x 25.4 mm (2 in x 1 in)	1
4C-3782	Mandrel 1/4 in	19 mm x 25.4 mm (3/4 in x 1 in)	1
4C-3783	Mandrel 1/4 in	25.4 mm x 25.4 mm (1 in x 1 in)	1
4C-3784	Mandrel 1/4 in	38.1 mm x 38.1 mm (1 1/2 in x 1 1/2 in)	1
4C-3785	Mandrel 1/4 in	50.8 mm x 25.4 mm (2 in x 1 in)	1

**Screen-Bak Durite Rolls**



- Use for superfast makeready of copper pipe joints
- Removes scale, corrosion and oxidations without clogging — sanding residue falls through the backing
- Long abrasive life and clean, tight connections are ensured
- Silicon carbide abrasive grain is coated on both sides of an open weave, cloth backing

Part Number	Grit	Size
4C-8522	80	11/2 in x 25 ft
4C-8523	120	11/2 in x 25 ft
4C-8524	180	11/2 in x 25 ft

**Decal Remover**



- Fast and easy method to remove vinyl decals, graphics, tapes, films and adhesives without damaging paint — no fire danger because the discs are non combustible
- Unique construction of the disc assures long life and allows easy conformability to contours
- Discs are flexible and have no sharp edges — will not damage acrylic, enamel or urethane paint. (Not recommended for use on acrylic lacquer paints or plexiglass.)
- Faster and cleaner to use than solvent or chemical adhesive removers
- RPM is critical for product performance — maximum RPM is 4500; recommended RPM is 3,000 to 4,000

Continued

**4C-3385 Drill Index**



- Empty drill index for storing 29 different sizes of jobber length drill bits from 1/16 inch to 1/2 inch in 1/64 inch increments
- Typical use: left hand drills

**4C-4426 Drill Extension**



- Extends drill reach 304.8 mm (12 in)
- Accepts up to 1/4 inch diameter shank

**Recommended Drill Sizes for Metric Thread**

Thread Size	Drill Diameter	Part Number
M1.6	1.4 mm	1U-8123
M2	1.7 mm	1U-8125
M2.5	2.2 mm	1U-8130
M3	2.6 mm	1U-8134
M4	3.4 mm	1U-8140
M5	4.3 mm	1U-8146
M6	5.2 mm	1U-8152
M8	7.0 mm	1U-8159
M10	8.7 mm	1U-8165
M12	10.5 mm	1U-8169
M14	12.2 mm	1U-8173
M20	18.0 mm	1U-8184
M24	21.5 mm	1U-8190
M27	23.0 mm	214-3634
M30	27.0 mm	1U-8194
M36	32.5 mm	1U-8201

Master Thread Repair Sets Continued

Shop Supplies

Thread Size x Length	Insert Package Part Number	Qty.	Tap Part Number	Drill Size	Installation Tool Part Number	Inserts/Kit	Insert Package Part Number	Drill Part Number
<b>4C-8365 - Inch Fine Master Thread Repair Set Continued</b>								
7/16 in-20 x .656 in	4C-8437	6	4C-9691	29/64 in	8T-2739	—	—	—
1/2 in-20 x .750 in	4C-8438	6	4C-9692	33/64 in	8T-2742	—	—	—
<b>Optional Inch Coarse Thread Repair Kits</b>								
1/4 -20 x .375 <sup>1</sup>	4C-8368	12	4C-9681	17/64 in	8T-2692	24	4C-8419	1U-5634
5/16 -18 x .469 <sup>1</sup>	4C-8369	12	4C-9682	21/64 in	8T-2695	24	4C-8420	1U-5638
3/8 -16 x .562 <sup>1</sup>	4C-8370	12	4C-9683	25/64 in	8T-2698	12	4C-8421	1U-5642
7/16 -14 x .656 <sup>1</sup>	4C-8371	6	4C-9684	29/64 in	8T-2703	12	4C-8422	1U-5646
1/2 -13 x .750 <sup>1</sup>	4C-8372	6	4C-9685	17/32 in	8T-2706	12	4C-8423	1U-5682
9/16 -12 x .844	4C-8373	6	4C-9700	19/32 in	8T-2709	6	4C-8424	1U-5684
5/8 -11 x .938 <sup>1</sup>	4C-8374	6	4C-9686	21/32 in	6V-9083	6	4C-8425	1U-5686
3/4 -10 x 1.125	4C-8375	4	4C-9725	25/32 in	6V-9081	4	4C-8426	1U-5690
7/8 -9 x 1.312	4C-8376	1	4C-9724	29/32 in	8T-2712	6	4C-8427	1U-5694
1-8 x 1.500	4C-8377	1	4C-9723	1 1/32 in	8T-2715	6	4C-8428	1U-5698
1 1/8 -7 x 1.688	4C-8378	1	4C-9722	1 5/32 in	8T-2718	5	4C-8429	1U-5702
1 1/4 -7 x 1.875	4C-8379	1	4C-9721	1 9/32 in	8T-2721	4	4C-8430	1U-5706
1 3/8 -6 x 2.062	4C-8380	1	4C-8468	1 13/32 in	4C-8485	4	4C-8431	1U-5710
1 1/2 -6 x 2.250	4C-8381	1	4C-9720	1 17/32 in	8T-2724	4	4C-8432	1U-5704
<b>Optional Fine Thread Repair Kits</b>								
10-32 x .285 <sup>1</sup>	4C-8382	12	4C-9687	13/64 in	8T-2727	24	4C-8433	1U-5630
1/4 -28 x .375 <sup>1</sup>	4C-8383	12	4C-9688	17/64 in	8T-2730	24	4C-8434	1U-5634
5/16 -24 x .469 <sup>1</sup>	4C-8384	12	4C-9689	21/64 in	8T-2733	24	4C-8435	1U-5638
3/8 -24 x .562 <sup>1</sup>	4C-8385	12	4C-9690	25/64 in	8T-2736	12	4C-8436	1U-5642
7/16 -20 x .656 <sup>1</sup>	4C-8386	6	4C-9691	29/64 in	8T-2739	12	4C-8437	1U-5646
1/2 -20 x .750 <sup>1</sup>	4C-8387	6	4C-9692	33/64 in	8T-2742	12	4C-8438	1U-7433
9/16 -18 x .844	4C-8388	6	4C-8469	37/64 in	4C-8486	6	4C-8497	1U-7434
5/8 -18 x .938	4C-8389	6	4C-9701	41/64 in	8T-2745	6	4C-8439	4C-8480
3/4 -16 x 1.125	4C-8390	4	4C-9702	49/64 in	6V-9082	4	4C-8440	4C-8481
7/8 -14 x 1.312	4C-8391	1	4C-9703	57/64 in	8T-2748	6	4C-8441	4C-8482
1-14 x 1.500	4C-8392	1	4C-9704	1 1/64 in	8T-2751	6	4C-8442	4C-8483
1-12 x 1.500	4C-8393	1	4C-8470	1 1/64 in	4C-8487	6	4C-8443	4C-8483
1 1/8 -12 x 1.688	4C-8394	1	4C-9706	1 5/32 in	8T-2754	5	4C-8444	1U-5702
1 1/4 -12 x 1.875	4C-8395	1	4C-9707	1 9/32 in	8T-2757	4	4C-8445	1U-5706
1 3/8 -12 x 2.062	4C-8396	1	4C-8471	1 13/32 in	4C-8488	4	4C-8446	1U-5710
1 1/2 -12 x 2.250	4C-8397	1	4C-9709	1 17/32	8T-2760	4	4C-8447	1U-5704

<sup>1</sup> Also included in Master Thread Repair Set - 4C-8365

**4C-8366 Metric Master Thread Repair Set**

- Contains repairs for the most commonly used thread sizes: M5, M6, M8 and M10 x 1.50
- Set has a drill bit, tap, installation tool, a quantity of inserts for each size, and complete instructions

Thread Size x Length	Part Number	Qty.	Tap Part Number	Drill Size	Installation Tool Part Number
M5 x 0.8 7.5	4C-8448	12	4C-9727	13/64 in	8T-3121
M6 x 19.0	4C-8449	12	4C-9728	1/4 in	8T-2784
M8 x 1.25 12.0	4C-8451	12	4C-8475	21/64 in	8T-2790
M10 x 1.515.0	4C-8452	12	4C-9730	13/32 in	8T-2793

**Installation Tools and Thread Inserts Continued**

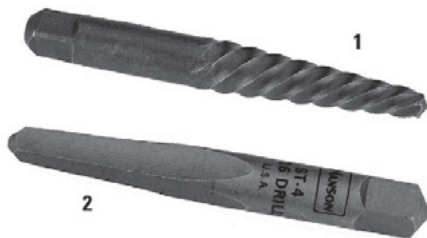
SMCS Code: 7564

Models: 141-7250-416C, 426C, 428C, 436C, and 438C Backhoe Loader; 178-7635—E529, E523, E530, E524, E531, E525, and various other models; 179-3571-various

Shop Supplies

Part Number	Description	Hex Size	Length	Bolt Thread	Body Diameter	Flange Diameter	Thread	Pilot Hole Diameter	Grip Range
<b>Installation Tools</b>									
141-7250	Installation Tool	9/16 in	12.7 mm (0.50 in)	M6 x 1.0	—	—	—	—	—
178-7635	Installation Tool	9/16 in	10.2 mm (0.40 in)	8-32	—	—	—	—	—
179-3571	Installation Tool	9/16 in	13.3 mm (0.52 in)	1/4 -20	—	—	—	—	—
206-4499	Installation Tool (M6)	9/16 in	12.7 mm (0.50 in)	M6 x 1.0	—	—	—	—	—
206-4496	Installation Tool (M4)	9/16 in	12.7 mm (0.50 in)	M4 x 0.7	—	—	—	—	—
<b>Threaded Inserts</b>									
140-9921	Threaded Insert		14.0 mm (0.55 in)	—	9.5 mm (0.37 in)	10.0 mm (0.39 in)	M6 x 1.0	—	—
176-1691	Fastener		9.4 mm (0.37 in)	—	6.3 mm (0.25 in)	6.8 mm (0.27 in)	8-32	—	—
178-1628	Threaded Insert		13.1 mm (0.52 in)	—	9.5 mm (0.37 in)	10.2 mm (0.40 in)	1/4 -20	—	—
206-7047	Threaded Insert (M4)		10.7 mm (0.42 in)	—	6.7 mm (0.26 in)	7.9 mm (0.31 in)	M4 x 0.7	6.8 mm (0.27 in)	0.50 to 2.00 mm (.020 to .079 in)
206-7048	Threaded Insert (M6)		14.7 mm (0.58 in)	—	9.9 mm (0.39 in)	11.6 mm (0.46 in)	M6 x 1.0	10.0 mm (0.39 in)	0.70 to 4.20 mm (.028 to .165 in)

**Individual Extractors**



- Useful in maintenance departments, machine shops, garages, workshops, etc., to remove broken screws, bolts or other threaded parts
- First, drill a hole into the broken part. Insert the extractor. By twisting to the left, the extractor will grip into the wall of the hole and the broken part can be backed out without damaging threads.

Extractor Size	Part Number	Used with Drill Size	Used to Remove Screws and Bolts	Used to Remove Pipe
<b>Left Hand Spiral Tapered Flutes (Item 1)</b>				
1	4C-3364	5/64 in	2.5 mm - 6.0 mm (3/16 in - 1/4 in)	—
2	4C-3365	7/64 in	6.0 mm - 8.0 mm (1/4 in - 5/16 in)	—
3	4C-3366	5/32 in	8.0 mm - 12.0 mm (5/16 in - 7/16 in)	—
4	4C-3367	1/4 in	12.0 mm - 14.0 mm (7/16 in - 9/16 in)	—
5	4C-3368	17/64 in	14.0 mm - 20.0 mm (9/16 in - 3/4 in)	1/8 in
6	4C-3369	13/32 in	20.0 mm - 24.0 mm (3/4 in - 1 in)	—
7	4C-3370	17/32 in	24.0 mm - 35.0 mm (1 in - 1 3/8 in)	—
8	4C-3371	13/16 in	35.0 mm - 44.0 mm (1 3/8 in - 1 3/4 in)	3/4 in

Continued

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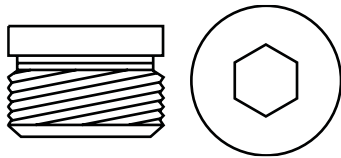
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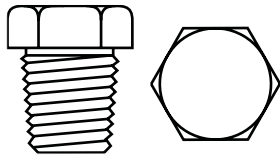
## Straight Thread O-Ring - Allen Drive Plugs



- Used to help protect against damage, dirt and moisture contamination, and corrosion during shipping and storage

Part Number	Thread Size (in - TPI)	O-Ring Seal
5P-7684	1 7/8 - 12	6K-6307
9S-8001	5/16 - 24	4J-7533
9S-8002	7/16 - 20	3J-7354
9S-8003	1/2 - 20	1J-9671
9S-8004	9/16 - 18	3J-1907
9S-8005	3/4 - 16	3K-0360
9S-8006	7/8 - 14	2M-9780
9S-8007	3/8 - 24	7J-0204
9S-8008	1 1/16 - 12	3D-2824
9S-8009	1 3/16 - 12	4K-1388
9S-8010	1 5/8 - 12	2S-4078
9S-9334	1 5/16 - 12	7M-8485

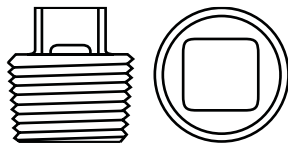
## Pipe - Hex Head Plugs



- Used to help protect against damage, dirt and moisture contamination, and corrosion during shipping and storage

Part Number	Thread Size (in - TPI)
090-9019	1 - 11 1/2
2S-7905	1/16 - 27
3J-5390	3/8 - 18
3M-7045	3/4 - 14
4J-4382	1/2 - 14
5M-6213	1/4 - 18
5M-6214	1/8 - 27

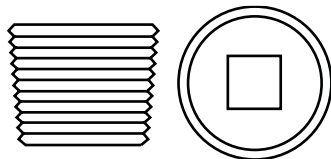
## Pipe - Square Head Plugs



- Used to help protect against damage, dirt and moisture contamination, and corrosion during shipping and storage

Part Number	Thread Size (in - TPI)
068-0710	1 1/4 - 11 1/2
2B-7408	1/8 - 27
2B-7409	1/4 - 18
2B-7457	3/8 - 18
4B-8586	2 - 11 1/2
5P-3320	3/4 - 14
5B-9169	1/2 - 14
7L-2505	1 - 11 1/2

## Pipe - Square Drive Plugs



- Used to help protect against damage, dirt and moisture contamination, and corrosion during shipping and storage

Part Number	Thread Size (in - TPI)
1B-5170	1 1/4 - 11 1/2
1B-5174	3/4 - 14
2B-0858	1/2 - 14
3B-0551	1 - 11 1/2
4B-4845	3/8 - 18
6V-1897	2 - 11 1/2
6V-3257	3 1/2 - 8

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## Combination Pipe and Bench Vises

Warranty: Manufacturer's

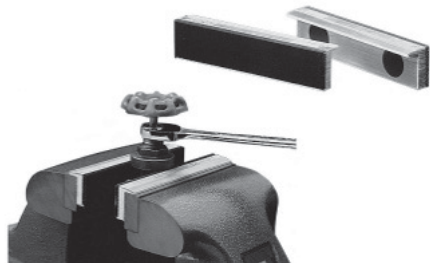
- Stressed parts made of 60,000 PSI tensile strength ductile iron
- Replaceable hardened steel jaw inserts
- Hardened, replaceable steel pipe jaws
- Alloy steel slide bar



Shop Supplies

Part Number	Wilton Part Number	Jaw Width	Pipe Capacity	Throat Depth	Max. Opening Width	Shipping Weight	Replacement Jaw Insert	Replacement Pipe Jaw Inserts
4C-3744	C-1	4 1/2 in	1/8 in- 3 1/2 in	4 3/4 in	6.00 in	80.0 lb	4C-4394	4C-4401
4C-3745	C-2	5 in	1/8 in- 4 1/2 in	5 5/16 in	7.00 in	113.0 lb	4C-4395	4C-4402
4C-3746	C-3	6 in	3/8 in-6 in	6 5/8 in	9.00 in	209.0 lb	4C-4396	4C-4403

### Model R — Rubber Face Magnefix Jaw Caps



- Aluminum alloy with synthetic rubber cover
- Jaw cap conforms to workpiece and grips firmly without slipping
- Designed to prevent cushioning during use
- Use in combination with Prism Jaw Caps to clamp taper pins or tapered work-pieces
- Mar-free
- Jaw caps sold separately

Part Number	Jaw Width	Use with these Vises or any other with the same Jaw Width
4C-6830	4 in	4C-3741, 4C-3752
4C-6831	4 1/2 in	4C-3753, 4C-3744
4C-6832	5 in	4C-3742, 4C-3754, 4C-3745
4C-6833	6 in	4C-3743, 4C-3746

### Model P — Prism Magnefix Jaw Caps



- Jaw construction includes a 120° horizontal Vee-Groove, 3 vertical Vee-Grooves and a 90° groove for marking out and center punching
- Ideal for light tapping and thread cutting applications
- Capable of clamping a block of material in a vise to be utilized as a surface plate for light duty work
- Jaw caps sold separately

Part Number	Jaw Width	Use with these Vises or any other with the same Jaw Width
4C-6834	4 in	4C-3741, 4C-3752
4C-6835	4 1/2 in	4C-3753, 4C-3744
4C-6836	5 in	4C-3742, 4C-3754, 4C-3745
4C-6837	6 in	4C-3743, 4C-3746



Premium High Output (PHO) batteries are manufactured to Caterpillar design specifications for vibration resistance, deep discharge, long life in all climates, and heavy-duty life cycle capability. PHO batteries are used as original equipment in all Caterpillar machines. They are available worldwide in Maintenance Free or Dry configurations.

### Premium High Output Batteries

- **Cold Starting:** Thicker internal Terminal Posts provide lower electrical resistance resulting in higher output under starting conditions. Extra-heavy Grids... with denser lead within Plates... Provides more life and power in extreme cold or heat. True all-weather performance.
- **Starting/Deep Cycle Capability:** Starting batteries have Polyethylene Envelope Separators to protect against shorts. Cycling batteries have Glass Mat Separators that are double insulated for longer deep cycle life.
- **Discharge Cycles:** Positive and Negative Plates have a higher paste density allowing them to better resist material shedding during discharge cycles. An enveloped Negative Plate protects against shorts.
- **Water Loss:** Calcium lead alloy is used on both the positive and negative plates to reduce gassing. Calcium technology allows for minimal water loss over the life of the battery.
- **Corrosion Resistance:** Forged terminal post bushings provide maximum strength and resistance to acid seepage that causes corrosion and black posts. Thicker internal terminal posts are used for lower electrical resistance and higher output under starting conditions. Less maintenance is needed because extra corrosion resistance and overcharge protection are built in.
- **Flame Arrestor Safety Vents:** Built into the manifold cover, they reduce the possibility of explosion from external sparks. They direct corrosive gases away from the battery and hold-downs. Allows for remote venting out of the battery compartment.
- **Robust Design:** Thicker, more robust container resists the demanding, rugged treatment typical of heavy-duty commercial use—especially in temperature extremes. The outside of the robust case identifies this as a Caterpillar Battery. Maintenance Free Flat Top Design allows - easy mounting and power washing - no vent caps falling off. Side brickwork and waffle design on bottom of the case resist punctures. Raised Caterpillar Part Number and descriptors won't wear off and provide for easy and accurate replacement by technicians.

### Cat 4D and 8D Batteries - Premium High Output



- Exclusive flat top design—Maintenance Free
- Designed by Caterpillar to meet demanding off-road performance tests—100-hour vibration tested
- Industry's highest cold cranking Amps (CCA's) for 4D and 8D batteries—sure starts
- Built in flame arrester vents
- Calcium lead alloy on both positive and negative plates for minimal water loss

Application	BCI Group Size	Part Number	Cold Cranking Amps	Reserve Capacity (minutes)
Bus/RV/Concrete Mixers	4D	153-5700	1125	305
Bus/RV/Concrete Mixers	4D	153-5710	1400	425
Bus/RV/Concrete Mixers	8D	153-5720	1500	465

**Ratchet Light**

Warranty: Manufacturer's



- 120 Volt/60 Hz light made from yellow, unbreakable aerospace plastic with a 10 amp tool-tap-plug
- 10,000 hour life, 13 Watt rough-service fluorescent bulb delivers output of a 60 Watt incandescent bulb
- STOW type cord — used for heavy duty service and with oil-resistant, thermo-plastic jacket, is weather resistant for outdoor use
- Two year warranty on workmanship and material defects (not including bulb)
- Handy magnetic base so you can position the light where you need it
- UL Approved

Part Number	Description	Cord Type
179-7043	Ratchet Light	STOW Type Cord - 7.62 m (25 ft) long, made from 16/3 wire
Parts <sup>1</sup>		
179-7044	Bulb	—
179-7045	Lens	—

<sup>1</sup> Sold Separately

**Angle Light Reel**

Warranty: Manufacturer's



- 120 Volt/60 Hz light (yellow) includes shatter/scratch resistant lens, 10 amp tool-tap-plug, and Velcro magnet
- 10,000 hour life, 13 Watt rough service fluorescent bulb delivers output of a 60 Watt incandescent bulb
- Black reel made from shatter resistant ABS plastic
- STOW type cord — used for heavy duty service and with oil-resistant, thermo-plastic jacket, is weather resistant for outdoor use
- Two year warranty on workmanship and material defects (not including bulb)
- UL Approved

Part Number	Description	Cord Type
179-7046	Angle Light Reel	STOW Type Cord - 15.2 m (50 ft) long, made from 16/3 wire
Parts <sup>1</sup>		
179-7048	Lens	—
179-7049	Bulb	—
179-7050	Velcro Magnet	—

<sup>1</sup> Sold Separately

First Aid Kit Continued

Shop Supplies

150-1579 Consists of:		
Water resistant nylon container	228.6 x 76.2 x 127 mm (9 x 3 x 5 in)	1
Scissors	152.4 mm (6 in)	1
Stainless steel splinter forceps	114 mm (4.5 in)	1
First aid booklet		1
Cloth bandaids	22.2 x 76.2 mm (.87 x 3 in)	10
Finger tip bandaids		5
Knuckle bandaids		5
Alcohol swabs		18
Wet wipes		6
Sting stop swabs		6
Antiseptic swabs		16
Adhesive tape	4.6 m x 12.7mm (5 yd x 1 in)	1
Sterile gauze pads	50.8 x 50.8 (2 x 2 in)	8
Sterile gauze pads	101.6 x 101.6 mm (4 x 4 in)	2
Sterile abdominal pad	127 x 228.6 mm (5 x 9 in)	2
Sterile pressure bandage	101.6 mm (4 in)	1
Conform gauze roll	4.57 m x 50.8 mm (5 yd x 2 in)	2
Triangular bandage		1
Safety pins		6
Vinyl gloves		1 pair
Multi-purpose pad	431.8 x 609.6 mm (17 x 24 in)	1
Tensor bandage	50.8 mm (2 in)	1
Instant cold pack (in box)	1016 x 152.4 mm (4 x 6 in)	1
Emergency Mylar blanket		1

Part Number	Description
150-1579	First Aid Kit

First Aid Kits, 25 and 50-person

- Kits for your safety and first aid requirements
- 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
- Soft shell case

Continued

### Welding Blanket

Warranty: Manufacturer's



- Made of a fiberglass textile material
- Light gold neoprene coating on one side to reduce fraying
- Hemmed and seamed with Kevlar thread
- Retains heat
- Protects welding area

Part Number	Description	Dimensions
4C-9616	Blanket	183 cm x 183 cm (6 ft x 6 ft)
4C-9617	Blanket	183 cm x 244 cm (6 ft x 8 ft)
4C-9618	Blanket	183 cm x 305 cm (6 ft x 10 ft)

### Wraparound Safety Glasses



**European Union Compliant, CE marked**

- Visitor disposable safety glasses
- Can be worn over prescription glasses
- 99.9% UVA and UVB protection
- Meets or exceeds all ANSI, CSA, and CE specifications

Part Number	Description	Package Quantity
239-1085	Wraparound Safety Glasses	1

### Safety Glasses



**European Union Compliant, CE marked**

- Polycarbonate lens
- Universal bridge, plastic frame
- Meets ANSI Z87.1-1979

Part Number	Package Quantity	Lens Type	Frame Color	Size	Lens Features
4C-8093	10	Clear	Mocha	54	Eyebrow and side-shield
4C-4120	10	Clear	Mocha	58	Eyebrow and side-shield
4C-8351	10	Gray	Mocha	58	Eyebrow and side-shield

Tyvek Coveralls

Shop Supplies



- 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 Number	Size	Qty.
267-8539	Large	1
267-8540	Medium	1
267-8541	Small	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 0.35 mm (.014 in) 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
- Non-conductive hardware
- 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

Part Number	Chest Size	Waist Size	Size
<b>Rain Jacket</b>			
311-2983	Medium, 101.6-106.68 cm (40-42 in)	—	—
311-2984	Large, 111.76-116.84 cm (44-46 in)	—	—
311-2985	XLarge, 121.92-127 cm (48-50 in)	—	—
<b>Rain Pants</b>			
311-2986	—	Medium, 91.44-96.52 cm (36-38 in)	—
311-2987	—	Large, 101.6-106.68 cm (40-42 in)	—
311-2988	—	XLarge, 111.76-116.84 cm (44-46 in)	—

Continued

**Nylon Gloves with Nitrile Coating Continued**

Part Number	Size	Qty.
247-6412	Large	Single Pair
247-6413	Extra-Large	Single Pair
247-4449	Large	Bulk - 12 Pair
247-4450	Extra-Large	Bulk - 12 Pair

Shop Supplies

**Small Spill Response Cart**

Warranty: Manufacturer's

Shop Supplies



- Absorbs oils, coolant, solvents, and water
- Ideal for spill-prone areas
- Comes with a variety of socks and pillows along with a roll of universal mat
- Products in cart can absorb up to 53 liters (14 gallons)
- Eight-inch rubber wheels on board and handles on both top and bottom
- Cleanup instructions on cart door
- Shelves and compartments inside cart for easy organization
- Cart can be locked for security
- Helps to comply with 40 CFR 112.7(c) (1) (vii) where absorbents can be used to control oil discharges
- Material Safety Data Sheets (MSDS) available
- Supplier-branded product

Consist	Qty.	Reorder Part No.
Absorbent socks, 8 cm x 122 cm (3 in x 48 in)	5	235-0844
Universal mat pads, 38 cm x 18 m (15 in x 60 ft)	1	
Absorbent pillows, 25 cm x 25 cm (10 in x 10 in)	4	235-0845
Disposable bags and ties	5	
Nitrile gloves	1	4C-5522, 4C-5523, or 4C-5526
Safety goggles	1	233-8583
Repair putty, 178 mm (7 in) tube	1	
"When the Spill Strikes" poster	1	

Part Number	Description	Weight
254-3770	Small Spill Response Cart	18.0 kg (39.68 lb)

**Large Spill Response Kit**

Warranty: Manufacturer's



- Absorbs oils, coolants, solvents, and water
- Comes with a variety of socks, mats, pillows, and loose absorbents
- Products in cart can absorb up to 144 liters (38 gallons)
- Polyethylene container with hinged lid stores and protects absorbents from moisture, dirt, and damage
- Equipped with eight-inch rubber wheels and built-in handles for easy mobility in tight spaces
- Helps to comply with 40 CFR 112.7(c) (1) (vii) where absorbents can be used to control oil discharges
- Material Safety Data Sheets (MSDS) available
- Supplier-branded product

Continued

**TileTop Sponge-Cote Floor Mats**

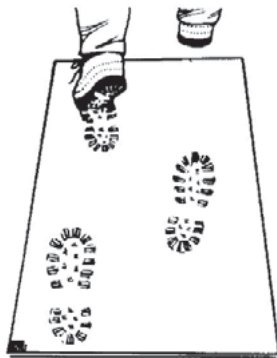
Shop Supplies



- Ultimate cushioned support for employees who stand at work
- Unlimited uses in industrial, professional, laboratory and commercial settings
- Buoyant sponge dramatically reduces stress and back fatigue, improving efficiency
- Comfortable 12.7 mm (1/2 in) thickness is beveled for safety
- Marbleized rubber stays beautiful, is easy to maintain
- Not for use with spike heels, casters or stool legs

Part Number	Size
4C-8108	45.7 cm x 76.2 cm (18 in x 30 in)
4C-8109	45.7 cm x 121.9 cm (18 in x 48 in)
4C-8110	61 cm x 91.4 cm (24 in x 36 in)
4C-8111	91.4 cm x 152.4 cm (36 in x 60 in)

**Clean Walk Mats**



SMCS Code: 7951-580

- Used to remove dirt and contamination from shoes, wheels, and other passing objects — keeps dirt and grease from being tracked into office area
- Comes in three sizes
- Provides an inexpensive way to keep carpets and office areas clean
- Ideal for shop-to-office, paint, or cleaning areas
- Mat has 30 peelable layers, providing a fresh cleaning surface with each exposed layer

Part Number	Size
138-3852	457.2 mm x 914.4 mm (18 x 36 in)
138-3855	457.2 mm x 1143 mm (18 in x 45 in)
138-3856	609.6 mm x 1143 mm (24 in x 45 in)

**Portable Microfiche Reader with One Lens and 120 VAC Transformer**

Warranty: Manufacturer's



- Combines the portability of a personal size reader with the quality and features of larger desktop models
- Features a floating lens mount for positive focus, an auto opening carrier for precise indexing and a distortion free image

Continued

## Pump Oil Can

Shop Supplies



Part Number	Capacity	Size
1B-7763	0.3 L (10 oz)	76.2 mm (3 in) diameter, 254 mm (10 in) tall

## Funnel Kit

Warranty: Manufacturer's



**Includes:**

- one 1-pint funnel
- two 1-quart funnels

Part Number	Description
268-5809	Funnel Kit

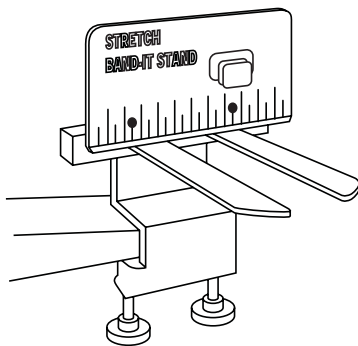
**Stretch Band-it Tool**



- “Hand Squeeze” control
- No assembly, no maintenance, no additional adhesives
- Use with 4C-4880 Film

Part Number	Description
4C-4780	Stretch Band-it Tool

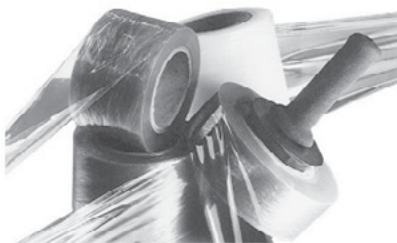
**Stretch Band-it Stand**



- Portable
- Mounts on any table surface
- Accommodates up to 16 kg (35 lbs)
- Adjustable zinc-plated support
- Allows wrapping of smaller items using 4C-4880 Film and 4C-4779 or 4C-4780 Stretch Band-it Tools

Part Number	Description
4C-4781	Stretch Band-it Stand

**Heavy-Duty Master Wrap Film**



- Holds anything, any shape, anywhere
- Applicator packed in all cases
- Heavy-duty gauge

Part Number	Rolls/Case	Film Gauge	Film Width	Roll Length	Film Color
4C-4880	12	135	127.0 mm (5.00 in)	198.0 m (649.60 ft)	Blue

# Hardware and Seal Kits

## Hardware Bin Kits

- Thirteen kits 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
- Hardware packaged in resealable plastic clamshell packages
- Smaller easy-to-use packages offer convenience for the service technician

Shop Supplies

Part Number	Thread	Coating	Contains	Qty.	Head Type
3E-6640	Inch - Coarse	Phosphate and oil	59 Part Numbers	1735	Hex
3E-9420	Inch - Coarse	Phosphate and oil	38 Part Numbers	1975	Hex
3E-9421	Inch - Fine	Phosphate and oil	38 Part Numbers	1650	Hex
3E-9422	Metric - Coarse	Phosphate and oil	38 Part Numbers	1580	Hex
222-9998	Inch - Coarse	Zinc dichromate	59 Part Numbers	2175	Hex
222-9999	Inch - Coarse	Zinc dichromate	38 Part Numbers	1520	Hex
223-0000	Metric - Coarse	Phosphate and oil	56 Part Numbers	1965	Hex
223-0001	Metric - Coarse	Zinc dichromate	56 Part Numbers	1985	Hex
223-0002	Metric - Coarse	Zinc dichromate	38 Part Numbers	1510	Hex
223-0003	Inch - Coarse	Phosphate and oil	38 Part Numbers	1420	Socket
223-0004	Metric - Coarse	Phosphate and oil	38 Part Numbers	1420	Socket
222-9996	Inch - Coarse	Phosphate and oil	38 Part Numbers	1420	12-Point
222-9997	Inch - Fine	Phosphate and oil	40 Part Numbers	1570	12-Point

## Hardware Shop/Field Kits



- Five kits for small repair shops or field service vehicles
- Contain assortments of popular sizes of Cat bolts with matching washers and nuts, in phosphate and oil coatings
- Hardware 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

Part Number	Thread	Coating	Size	Contains	Qty.
178-2207	Inch - Fine	Phosphate and oil	Large	24 Part Numbers	476
178-2208	Inch - Fine	Phosphate and oil	Small	29 Part Numbers	894
178-2209	Inch - Coarse	Phosphate and oil	Small	27 Part Numbers	502
178-2210	Inch - Coarse	Phosphate and oil	Large	34 Part Numbers	936
178-2211	Metric - Coarse	Phosphate and 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

Continued



## Cat® NGEO™



### Recommended Use

- Designed for engines using gaseous fuels.
- Compatible with exhaust catalyst applications that require a low-phosphorus oil.
- Provides optimum engine and oil life with low-sulfur gaseous fuels that contain less than 0.43 mg hydrogen sulfide per mega Joule (0.35 mg hydrogen sulfide per BTU).

### Discover the Difference

- Cat NGEO is formulated from select base stocks blended with special additives to provide an economical engine oil for natural gas applications. Cat NGEO is developed, tested and approved by Caterpillar to meet the same high standards as all Genuine Cat Parts.
- High-Endurance Lubrication - Performs throughout the long oil change intervals common for gaseous fuel engines.
- Reduced Piston and Cylinder Wear - Anti-oxidation and anti-nitration properties prevent carbon deposit buildup to minimize scuffing, scoring and wear.
- Increased Valve Life - Protects against damage to guide faces and seals.
- Corrosion Protection - Neutralizes acids to prevent rust and copper corrosion.
- High-Temperature Performance - Provides excellent thermal stability and resists foaming and sludge formation.

Typical Characteristics {A}	
SAE Viscosity Grade	SAE 40
Gravity, API	28
Flash Point, °C (ASTM D92)	252
Pour Point, °C (ASTM D97)	-15
Viscosity cSt @ 40°C (ASTM D445)	126.2
Viscosity cSt @ 100°C (ASTM D445)	13.2
Viscosity Index (ASTM D567)	98
Sulfated Ash, % wt. (ASTM D874)	0.52
TBN, mg KoH/g (ASTM D2896)	5.6
Phosphorus, % wt. (Spectro or AA)	0.030
Calcium, % wt. (Spectro or AA)	0.12
{A} The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.	

Chemicals, Lubricants, Adhesives, and Paints

English Volume (gal)	Metric Volume (L)	Part Number
<b>SAE 30</b>		
—	19	121-0326
—	205	9X-8526
<b>SAE 40</b>		
—	19	121-0327
—	200	197-6911
—	205	9X-8527
—	208	105-3336
—	209	166-3491
—	1000	159-8156

## Cat® NGEO EL250™

### Applications

- 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.

Continued

## Cat® HYDO™ Continued

Typical Characteristics {A}	
SAE Viscosity Grade	SAE 30
Gravity, 16°C API (ASTM D287)	28.2
Vickers Vane Pump Test (35VQ25)	Pass
Viscosity cSt @ 40°C (ASTM D445)	102
Viscosity cSt @ 100°C (ASTM D445)	11.5
Flash Point, °C (ASTM D92)	252
Pour Point, °C (ASTM D97)	-18
Viscosity Index (ASTM D2567)	100
Zinc, % (ASTM D4591)	0.12
Phosphorus, % (ASTM D1091)	0.110
Foam Test Seq. 1 ml. (ASTM D892) {B}	25/0
Foam Test Seq. 2 ml. (ASTM D892) {B}	50/0
Foam Test Seq. 3 ml. (ASTM D892) {B}	25/0
{A} The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.	
{B} New oil, as received, with 0.1% water by volume added.	

Chemicals, Lubricants, Adhesives, and Paints

English Volume (gal)	Metric Volume (L)	Part Number
<b>SAE 10W</b>		
(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
<b>SAE 30<sup>1</sup></b>		
—	18	100-7017
—	20	127-5454
—	200	122-6627
—	208	127-5453
—	Bulk	231-3801

<sup>1</sup> Available in Argentina, Botswana, Ecuador, Indonesia, Kenya, Lebanon, Malaysia, Morocco, Pakistan, Philippines, Singapore, Thailand, and Venezuela.

## Cat® NGECTM Continued

English Volume (gal)	Metric Volume (L)	Part Number
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.

#### Features

- Removes scale or lime deposits.

#### Benefits

- Cleans cooling system while the machine works.

English Volume (gal)	Metric Volume (L)	Part Number
0.500 (2 qt.)	—	6V-4511 <sup>1</sup>
—	1.89	185-5121 <sup>2</sup>

<sup>1</sup>NACD - North America

<sup>2</sup>EAME - Europe, Africa, Middle East

### 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.

#### Features

- Removes limes, scale and solder bloom.

#### Benefits

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

English Volume (gal)	Metric Volume (L)	Part Number
0.125 (1 pt)	—	4C-4609
0.250 (1 qt.)	—	4C-4610
1	—	4C-4611
5	—	4C-4612
55	—	4C-4613

### Cooling Conditioner Test Kit



#### Applications

- Simple dip test takes just minutes to perform.

#### Features

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

#### Benefits

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

Continued

## Cat® Hammer Paste

- Specially formulated for high impact hydraulic attachments.

English Volume (gal)	Metric Volume (L)	Part Number
<b>NLGI #2</b>		
14 oz (cartridge)	397 g (cartridge)	130-6951
11 lbs (tub)	5 kg (tub)	133-8807

## High Vacuum Grease

- Applications where maintaining a seal under vacuum or pressure is required.

English Volume (gal)	Metric Volume (L)	Part Number
4 oz (cartridge)	113 g (cartridge)	186-1530

## Ultra Synthetic Generator Grease

- Clay-thickened, synthetic based oil, multi-service grease.
- Provides low temperature breakaway performance.

English Volume (gal)	Metric Volume (L)	Part Number
<b>NLGI #1.5</b>		
14 oz (cartridge)	397 g (cartridge)	108-8611

## Heavy-Duty Air Powered Caulking Gun



- Easy twist-lock loading
- Smooth uniform bead dispensing
- No after-dripping
- Pistol handle grip for comfort
- All metal construction

Part Number	Description	Air Line Length	Required Air Pressure
4C-6507	Caulking Gun	10 ft with standard 1/4 inch fittings	5-100 PSI

## Super Ratchet-Type Caulker



- 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

Part Number	Description	Cartridge Size
4C-6923	Ratchet-Type Caulker	1/10 gal

Chemicals, Lubricants, Adhesives, and Paints

## Window Bonding Adhesives and Tooling

Part Number	EAME Part Number	Description	Size
9U-6919	N/A	Butyl Sealant	3/8 inch x 1/8 inch x 50 foot roll
<b>Seal glass to glass joints:</b>			
119-0781	N/A	Clear Silicone Adhesive	300 ml (10.2 oz) cartridge
<b>Primer for polycarbonate:</b>			
121-3911	187-4858	Window Primer	250 ml (8.5 oz) tube
<b>Primer for ABS plastic:</b>			
166-1359	187-4862	ABS Primer	—

## Window Tool Kit

Part Number	EAME Part Number	Description	Size
121-9777	—	Cutout Wire	—
121-9778	—	Cutout Knife	—
121-9779	—	Replacement Blades for 121-9778	—
121-9780	—	Handles for cutout wire	—
121-9781	—	Heavy Duty Caulking Gun	—
121-9782	—	Suction Cup Holder	—
127-6883	—	Sponge Brushes	—
127-6421	—	Window Tool Kit (complete kit)	—

## Heavy Duty Penetrating Oil



- Quickly loosens stubborn parts—frozen nuts, bolts, pipe fittings, heat valves, rolling pins, press fit parts, and key ways
- Heavy-duty
- Enhanced penetration action

Part Number	Size
222-3115	340 g (11.99 oz)

## Dry Film Lubricant



- 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

Part Number	Size
242-6990	340 g (11.99 oz)

## Battery Cleaner



- 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

Part Number	Size
222-3111	340 g (11.99 oz)

## Battery Saver



- 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

Part Number	Size
222-3112	340 g (11.99 oz)

## 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 off-road vehicles

Part Number	EAME Part Number	Qty.	Size
<b>DOT 3</b>			
4C-5585	N/A	12	.94 l (1 qt)
4C-5586	185-4663	4	3.79 l (1 gal)
<b>DOT 5</b>			
4C-5588	N/A	12	.94 l (1 qt)

## Conostan™ Oil Standards

- Five blends to cover your expected ranges
- Known accuracy
- Reliable and readily available

Element	4C-8339	4C-8340	4C-8341	4C-8342	4C-8343
Ag	10 ppm	25 ppm	100 ppm		
AL	10 ppm	25 ppm	100 ppm		
Cr	5 ppm	10 ppm	25 ppm		
Cu	10 ppm	25 ppm	100 ppm	500 ppm	
Fe	10 ppm	25 ppm	100 ppm	500 ppm	150 ppm
Mg	10 ppm	25 ppm	100 ppm		
Mo	5 ppm	10 ppm	25 ppm		
N2	10 ppm	25 ppm	100 ppm	500 ppm	
Ni	10 ppm	25 ppm	100 ppm		
Pb	10 ppm	25 ppm	100 ppm		
Si	10 ppm	25 ppm	100 ppm	500 ppm	
Sn	10 ppm	25 ppm	100 ppm		
Zn	10 ppm	25 ppm	100 ppm		

Part Number	Description	Size	Qty.
4C-8344	Five Blend Oil Group	—	1
<b>Five Blend Group Consist</b>			
4C-8339	Oil	236 ml (7.98 fl oz)	1
4C-8340	Oil	236 ml (7.98 fl oz)	1
4C-8341	Oil	236 ml (7.98 fl oz)	1
4C-8342	Oil	236 ml (7.98 fl oz)	1
4C-8343	Oil	236 ml (7.98 fl oz)	1

## Caterpillar Urethane Hardener

- For professional or industrial use only
- Add to 9U-7721 Caterpillar Yellow Urethane Paint in a 3:1 paint to hardener ratio
- Faster drying time
- Enhances gloss, durability, and chemical resistance
- Used by professional painters
- Automotive-quality product line
- Follow Caterpillar label directions for use:
- Mix paint and hardener thoroughly before application
- DO NOT mix more than will be used within a 3-hour period
- DO NOT use paint that has started to thicken; high temperature will reduce pot life of paint

Part Number	Description	Package Quantity	Size / Type
9U-7723	Urethane Hardener	4	3.8 l (1 Gal) Container

## Caterpillar Paint and Primer Thinner



- Excellent solvent to be used with Caterpillar enamel paint and primer
- Leaves the film quickly and will not impair the setting-up or tack-free time of the enamel or primer paint
- Evaporates fast and is less likely to cause sagging and running
- Because of its high solvency, a relatively small amount of thinner is needed to reduce paint to a spray consistency

Part Number	Description	Package Quantity	Size / Type
4C-4189	Paint and Primer Thinner	6	3.8 l (1 Gal) Can
4C-4196	Paint and Primer Thinner	1	19 l (5 Gal) Pail

## Caterpillar Paint and Primer Thinner with Retarder



- Excellent solvent to be used with Caterpillar enamel paint and primer
- Leaves the film slowly to provide flow and leveling in hot or dry conditions and on large equipment where slower drying is desired
- Evaporates slowly and is less likely to cause dry over-spray
- Because of its high solvency, a relatively small amount of thinner is needed to reduce paint to a spray consistency

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