SERVICE PARTS LIST

BULLETIN NO. 54-40-5200

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS D.I. SAWZALL® with QUIK-LOK® BLADE CLAMP

REVISED BULLETIN

July '97

CATALOG NO.

6509-21

STARTING SERIAL NO. 962A WIRING INSTRUCTION 58-01-0276

Milwukee Component Parts (Small #) $00|_{\overline{0}}$ Are Included When Ordering The Assembly (Large #).

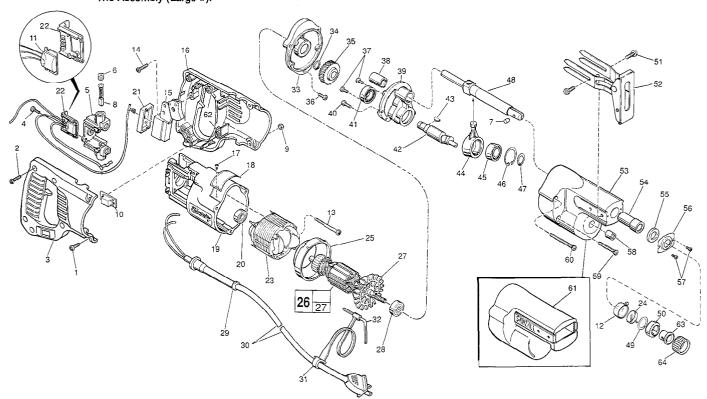


FIG. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 5 15 17 18 19 21	PART NO. 06-82-2390 06-82-7270 31-44-1651 06-82-7240 22-22-1380 23-44-0190 44-60-0625 22-18-0910 06-55-0835 31-53-0120 14-20-3015 31-15-0510 06-82-7410 06-82-7410 06-82-7270 23-66-1490 31-44-1656 06-72-1720 12-99-1740 31-50-0020 02-04-0845 45-12-0470	BESCRIPTION OF PART 8-32 x 1-1/4" Slotted Pan Hd. T-20 Screw 8-16 x 5/8" Pan Hd. Plastite T-20 Screw Right Handle Half 6-19 x 1/2" Pan Hd. Slt. Plastite T-15 Screw Brush Holder Assembly Brush Retaining Cap Pin Carbon Brush Assembly Hex Nut Plug Remote Electronic Assembly Spring Cover 8-16 x 1-7/8" Pan Hd. Plastite T-20 Screw 8-16 x 5/8" Pan Hd. Plastite T-20 Screw Variable Speed Switch Left Handle Half Nameplate Rivet Service Nameplate Motor Housing Ball Bearing Dust Shield	P. REQ. (2) (1) (2) (1) (2) (1) (1) (2) (1) (1) (2) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
22	43-72-0176	Heat Sink Holder	(1)
23	18-31-0200	120 V. Field	(1)
24	40-50-0160	Torsion Spring	(1)
25 26 27 28 29 30 31 32 33 34 35	31-05-0055 16-30-0425 22-84-0531 02-04-0911 44-76-0210 22-64-0408 48-66-4080 49-96-0070 28-28-0350 34-60-0920 32-40-1920	Baffle 120 V. Armature Fan Assembly Ball Bearing Cord Protector Cord Set Key Holder 5/32" Socket Wrench Diaphragm External Retaining Ring Intermediate Gear	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
36	05-88-8306	K50 x 22mm Fil. Hd. PT T-20 Screw	(1)
37	06-95-0075	6-32 x 3/8" Truss Hd. Taptite Screw	(2)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
38	42-24-0250	Rear Spindle Bearing	(1)
39	28-72-1002	Bearing Plate	(1)
40	06-82-3056	8-32 x 1/2" Fil. Hd. Taptite T-20 Screw	(2)
41	02-04-1510	Ball Bearing	(1)
42	36-92-0720	Wobble Shaft	(1)
43	06-42-1200	Woodruff Key	(1)
44	30-72-0060	Wobble Plate	(1)
45	02-04-1510	Ball Bearing	(1)
46	34-80-2355	Internal Retaining Ring	(1)
47	34-60-1200	Retaining Ring	(1)
48	38-50-5405	Reciprocating Spindle	(1)
49	45-88-8576	Washer	(1)
50	42-50-0075	Cam Collar	(1)
51	06-95-6270	10-24 x 1/2" Pan Hd. Taptite Sems Scre	
52	45-16-0485	Pivot Shoe Assembly	(1)
53	28-14-1780	Gear Case	(1)
54	42-24-0320	Spindle Bearing	(1)
55	45-06-0300	Felt Seal	(1)
56	44-86-0370	Seal Retainer	(1)
57 50	06-95-0050	4-40 x 3/16" Pan Hd. Taptite Screw	(2)
58	02-50-1640	Needle Bearing	(1)
59	06-82-3154	8-32 x 1-3/8" Fil. Hd. Taptite T-20 Screw K50 x 54mm Fil. Hd. PT T-20 Screw	
60	05-88-8305 45-12-0305	Gear Case Insulator	(2)
61			(1)
62 63	14-46-1001 45-22-0080	Foam Slug Kit - 10 Slugs Sleeve	(2)
64	31-15-0075	Plastic Collar	(1) (1)
04	31-13-00/3	riasiic collai	(1)

SEE REVERSE SIDE FOR IMPORTANT SERVICE NOTES

MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. LISBON RD., BROOKFIELD, WI 53005

FIG. **LUBRICATION** 53 Place 1/2 oz. of type "A" grease, No. 49-08-0800, in gearing cavity near diaphgram. 53 Place 2-1/2 oz. of type "B" grease, No. 49-08-0600, in cavity in front of bearing plate. FIG. **NOTES** 20 Seal side faces commutator. 20,28,41,45 Press bearings to shaft shoulders. 38,39 Press rear spindle bearing flush to $\pm .030$ from back face in bearing plate. Retaining ring is to be installed with the beveled side away from the bearing. 45,46 53,54 Press forward spindle bearing .020 to .030 below exterior surface of gear case. 58 Needle bearing is to be pressed from the open end flush to ±.030 to back of bearing boss of gear case. After routing wires, place one foam slug in each location shown on the front page. Center slugs on 62 screw bosses and push down until flush with top of handle half. REMOVING THE KEYLESS QUIK-LOK BLADE CLAMP -To remove keyless blade clamp, pry or press off plastic collar. Pop up the hinged tab on spring cover. 7.12.24.48. Rotate cam collar until it stops fully open. While holding cam collar, insert Sawzall blade to push 49,50,63,64 pin partially out. Insert a rigid wire-like instrument, Spring 12 Hinged like a paper clip with a slight bend Cover Tab on the end. Locate the pin area on 24 Torsion Spring Paper Clip inside slot and twist the paper clip to remove the pin from spindle. (Use of a strong 50 Cam Collar magnet may also remove the pin from the spindle). 64 Plastic Clean all parts before reassembly. Collar Ż Pin 49 Washer 7.50 If cam collar or pin is replaced, coat pin with powdered graphite. Šleeve Always replace plastic collar and spring cover when servicing. 12,64 REASSEMBLY OF THE KEYLESS QUIK-LOK BLADE CLAMP -7,12,24,48, To reassemble keyless blade clamp, place sleeve (63) in cam collar (50) then place washer (49) on

7,12,24,48, 49,50.63,64 To reassemble keyless blade clamp, place sleeve (63) in cam collar (50) then place washer (49) on sleeve (63). Insert spring leg of torsion spring (24) into hole on cam collar (50) and slot in washer (49). Cover up with spring cover (12).

Facing the front end of the tool, position reciprocating spindle with the pin hole facing up. Slide keyless blade clamp assembly onto the spindle with slot in cam collar (50) toward the left. Rotate the assembly in the direction of the arrows, approximately 205°. A ground pin may be used to keep the slot and sleeve hole in alignment until hole in spindle is reached. Use a pliers to hold assembly and remove ground pin. Pin (7) can now be inserted into clamp. Snap clamp to assure proper functioning before adding plastic collar (64). Fold hinged tab on spring cover (12) into slot on cam collar (50) as shown. Tab <u>must be present</u> to assure proper function. Slide plastic collar (64) onto assembly. Rotate plastic collar (64) until keyways line up and slide plastic collar (64) over snap in spring cover (12).