SERVICE PARTS LIST

BULLETIN NO. 54-40-1575

Milutukee REVISED BULLETIN DATE SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS Mar. '97 CORDLESS 18 VOLT SAWZALL® WIRING INSTRUCTION STARTING SERIAL NO CATALOG NO. 6516-21 918A 58-01-0790

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

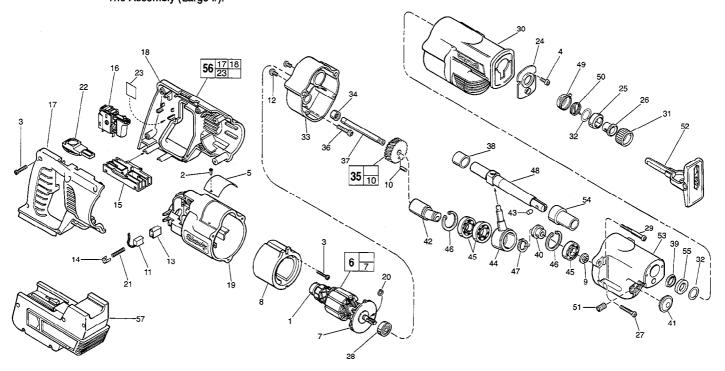


FIG.	PART NO.	DESCRIPTION OF PART NO.	REQ.
1	02-04-5130	Ball Bearing	(1)
2	06-72-1720	Nameplate Rivet	(2)
3	06-82-7261	6-19 x 11/16" Pan Hd. Slt. Plastite T-15	(8)
4	06-95-0075	6-32 x 3/8" Truss Hd. Taptite T-10 Screw	(2)
5	12-99-1930	Service Nameplate	(1)
6	16-01-0090	Armature	(1)
7	22-84-0830	Fan Assembly	(1)
8	18-01-0050	Field	(1)
9	06-55-3790	5/16-24 Spinlock Hex Nut	(1)
10	06-65-0606	3/16" x 1/2" Drivelok Pin	(1)
11	22-18-0975	Carbon Brush Assembly-Right	(1)
11A	22-18-0970	Carbon Brush Assembly-Left (Not Shown)	(1)
12	06-82-7252	8-32 x 3/8" Pan Hd. Taptite T-20	(2)
13	22-20-0860	Brush Tube	(2)
14	22-32-0400	Brush Spring Clip	(2)
15	22-56-0200	Connector Block	(1)
16	23-66-2350	Switch	(1)
17		Handle Half-Right	(1)
18		Handle Half-Left	(1)
19	31-50-0960	Motor Housing	(1)
20	34-60-0650	External Retaining Ring	(1)
21	40-50-8840	Brush Spring	(2)
22	45-24-0205	Lock Off Slide Assembly	(1)
23	10-15-0175	Wiring Instruction Label	(1)
24	44-86-0615	Seal Retainer	(1)
25	42-50-0075	Cam Collar	(1)
26	45-22-0080	Sleeve	(1)
27	06-82-5346	8-32 x 3/4" Pan Hd. Taptite T-20	(2)
28	02-04-0911	Ball Bearing	(1)
29	05-88-8301	K50 x 60mm Pan Hd. PT T-20	(2)
30	45-12-0510	Gear Case Insulator	(1)
31	31-15-0075	Plastic Collar	(1)
32	45-88-8576	Washer	(2)
33	28-28-2080	Diaphragm	(1)
34	02-50-2150	Needle Bearing	(1)
35	32-40-2345	Intermediate Gear Assembly	(1)

FIG.	PART NO.	DESCRIPTION OF PART N	O. REQ.
36	05-88-8307	K50 x 22mm Pan Hd. PT T-20	(1)
37	42-12-0180	Axle-Wobble Shaft	(1)
38	42-24-0620	Rear Spindle Bearing	(1)
39	45-06-0475	Poly-Pak Seal	(1)
40	45-36-1450	Spacer	(1)
41	42-52-0380	Bearing Cap	(1)
42	36-92-0740	Wobble Shaft	(1)
43	44-60-0625	Pin	(1)
44	30-72-0111	Wobble Plate	(1)
45	02-04-1510	Ball Bearing	(3)
46	34-80-2600	Internal Retaining Ring	(2)
47	34-60-1315	External Retaining Ring	(1)
48	38-50-6005	Reciprocating Spindle	(1)
49	31-15-0510	Spring Cover	(1)
50	40-50-0160	Torsion Spring	(1)
51	06-83-3150	5/16-18 x 1/2" Hex Socket Hd. Set Screen	
52	45-16-0615	Pivot Shoe Assembly	(1)
53	28-14-2180	Gear Case	(1)
54	42-24-0615	Forward Spindle Bearing	(1)
55	45-06-0500	Felt Seal	(1)
56	31-44-0690	Handle Kit	(1)
57	48-11-2100	18 Volt Battery (Accessory)	(1)
	49-96-0070	5/32" Hex Key	(1)
	23-94-5890	Leadwire AssyBlack (See 58-01-0790	
	23-94-5895	Leadwire AssyWhite (See 58-01-0790	
		<u>.</u>	

NOTES: FIG.

11,11A,13 Remove Brushes And Brush Tubes To Prevent Damage When Installing Or Removing Armature From Motor Hsg.

SEE REVERSE SIDE FOR **IMPORTANT SERVICE NOTES**

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

FIG. 33	LUBRICATION Place 3/4 oz. of type "L" grease, No. 49-08-4175, in diaphragm cavity near needle bearing.		
53	Place 2-3/4 oz. of type "L" grease, No. 49-08-4175, in mechanism cavity of gear case.		
55	Saturate with lightweight oil before assembly.		
FIG. 9	NOTES Apply thread locking compound to threads of spinlock hex nut. Torque to 145in./lbs185 in./lbs.		
9,10,35,37	Axle should extend .285 min. beyond intermediate gear after seating torque to spinlock hex nut (not shown) is applied.		
	Pin is to be pressed into gear as shown.		
20	Seal side faces commutator. 310 / .335 PRESS		
20,28,45	Press bearings to shaft shoulders. PRESS 250±.005 PRESS		
33,38	Press rear spindle bearing flush to .030 below bearing boss of diaphragm.		
34	Press bearing flush (±.005) to diaphragm surface.		
39	O-ring of seal towards rear of tool.		
45,46	Retaining rings are to be installed with the beveled side away from the bearings.		
53,54	Press forward spindle bearing flush to .030 below bearing boss of gear case.		
	REMOVING THE KEYLESS QUIK-LOK BLADE CLAMP		
25,26,31,32, 43,48,49,50	To remove keyless blade clamp, pry or press off plastic collar. Pop up the hinged tab on spring cover. Rotate cam collar until it stops fully open. While holding cam collar, insert Sawzall blade to push pin partially out. Insert a rigid wire-like instrument, like a paper clip with a slight bend on the end. Locate the pin area on inside slot and twist the paper clip to remove the pin from spindle. Spring Cover 49 Hinged Tab 50 Torsion Spring 25 Cam Collar Clean all parts before reassembly. 31 Plastic Collar		
	coat pin with powdered graphite. Washer 32		
31,49	Always replace plastic collar and spring cover when servicing.		

25,26,31,32, 43,48,49,50 To reassemble keyless blade clamp, place sleeve (26) in cam collar (25) then place washer (32) on sleeve (26). Insert spring leg of torsion spring (50) into hole on cam collar (25) and slot in washer (32). Cover up with spring cover (49).

REASSEMBLY OF THE KEYLESS QUIK-LOK BLADE CLAMP

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 (25) 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 (43) can now be inserted into clamp. Snap clamp to assure proper functioning before adding plastic collar (31). Fold hinged tab on spring cover (49) into slot on cam collar (25) as shown. Tab <u>must be present</u> to assure proper function. Slide plastic collar (31) onto assembly. Rotate plastic collar (31) until keyways line up and slide plastic collar (31) over snap in spring cover (49).