SERVICE PARTS LIST

Milwankee.

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS **CORDLESS 18 VOLT SAWZALL®**

REVISED BULLETIN

DATE Sept. '98

CATALOG NO.

6515-20

STARTING SERIAL NO

971A

WIRING INSTRUCTION 58-01-0790

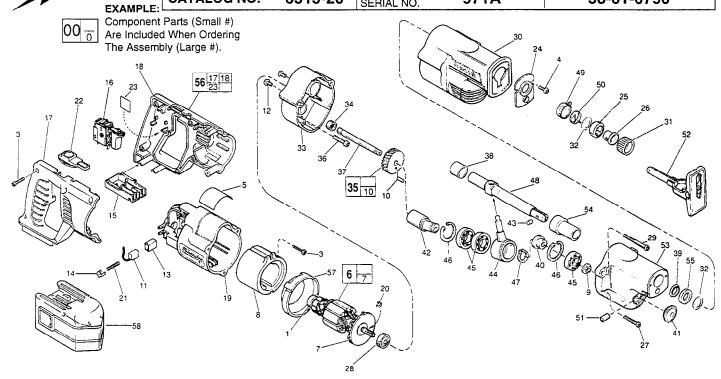


FIG. 1 3 4 5 6 7 8 9 10 11 11A 12 13 14 15 16 17 18 19 20 21 223 224 25 26 27 28 29 30 31 32 33 34 356	PART NO. 02-04-5130 06-82-7261 06-95-0075 12-20-1425 16-01-1090 22-84-0830 18-01-0050 06-55-3790 06-65-0606 22-18-0975 22-18-0970 06-82-7252 22-20-0860 22-32-0400 22-56-0230 23-66-2351 31-44-0755 31-50-0961 34-60-0650 40-50-8840 45-24-0201 10-15-0175 44-86-0615 42-50-0075 45-22-0080 06-82-5346 02-04-0911 05-88-8301 45-12-0510 31-15-0075 45-88-8576 28-28-2080 02-50-2150 32-40-2345	Ball Bearing 6-19 x 11/16" Pan Hd. Slt. Plastite T-15 6-32 x 3/8" Truss Hd. Taptite T-10 Screw Service Nameplate Kit Armature Fan Assembly Field 5/16-24 Spinlock Hex Nut 3/16" x 1/2" Drivelok Pin Carbon Brush Assembly-Right Carbon Brush Assembly-Left (Not Shown 8-32 x 3/8" Pan Hd. Taptite T-20 Brush Tube Brush Spring Clip Connector Block Switch Assembly Handle Half-Right Handle Half-Left Motor Housing External Retaining Ring Brush Spring Lock Off Slide Wiring Instruction Label Seal Retainer Cam Collar Sleeve 8-32 x 3/4" Pan Hd. Taptite T-20 Ball Bearing K50 x 60mm Pan Hd. PT T-20 Gear Case Insulator Plastic Collar Washer Diaphragm Needle Bearing Intermediate Gear Assembly	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
32 33	45-88-8576 28-28-2080	Washer Diaphragm	(2) (1)

FIG.	PART NO.	DESCRIPTION OF PART NO.	REQ.
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 Screw	` '
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	31-44-0775	Handle Kit	(1)
57	31-05-0080	Baffle	(1)
	49-96-0070	5/32" Hex Key	(1)
	23-94-5890	Leadwire AssyBlack (See 58-01-0790)	(1)
	23-94-5895	Leadwire AssyWhite (See 58-01-0790)	(1)
58	48-11-2200	18 Volt Battery (Accessory)	(1)
58A	31-50-1486	Battery Housing Kit	(1)
		(Contains 58B Thru 58E, 58G, 58H)	
58B	31-50-1480	Housing-Top (Not Shown)	(1)
58C	31-50-1485	Housing-Bottom (Not Shown)	(1)
58D	10-20-0370	Logo Label (Not Shown)	(1)
58 E	10-15-0640	Nameplate/Warning Label(Not Shown)	(1)
58F	06-82-7336	#4 x 3/4" Plastite T-15 (Not Shown)	(5)
58G	44-20-0445	Battery Latch-Right (Not Shown)	(1)
58H	44-20-0440	Battery Latch-Left (Not Shown)	(1)
58J	40-50-0820	Latch Spring (Not Shown)	(2)

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.				
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. (Use of a strong magnet may also remove the pin from the spindle.				
	Clean all parts before reassembly. Plastic 31				
25,43	If cam collar or pin is replaced, coat pin with powdered graphite. Pin 43 Washer 32				
31,49	Always replace plastic collar and spring cover when servicing.				
	REASSEMBLY OF THE KEYLESS QUIK-LOK BLADE CLAMP				
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).				
	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				

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).