SERVICE PARTS LIST

Milwaukee

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M18TM Sawzall®

CATALOG NO. 2620-20

STARTING SERIAL NO. B58F

REVISED BULLETIN
54-40-2624

WIRING INSTRUCTION
SERIAL NO. B58F

SEE PAGE TWO

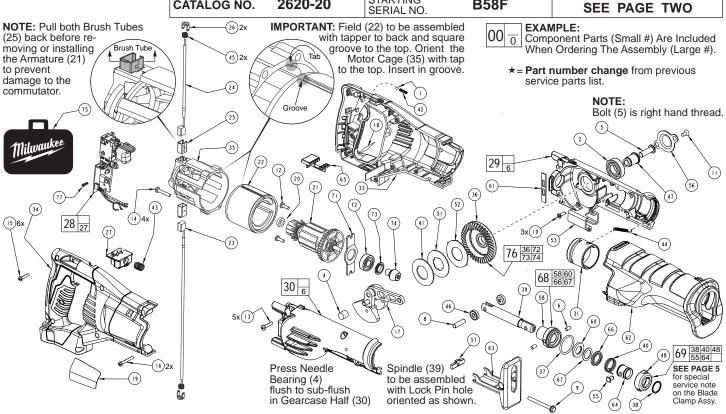
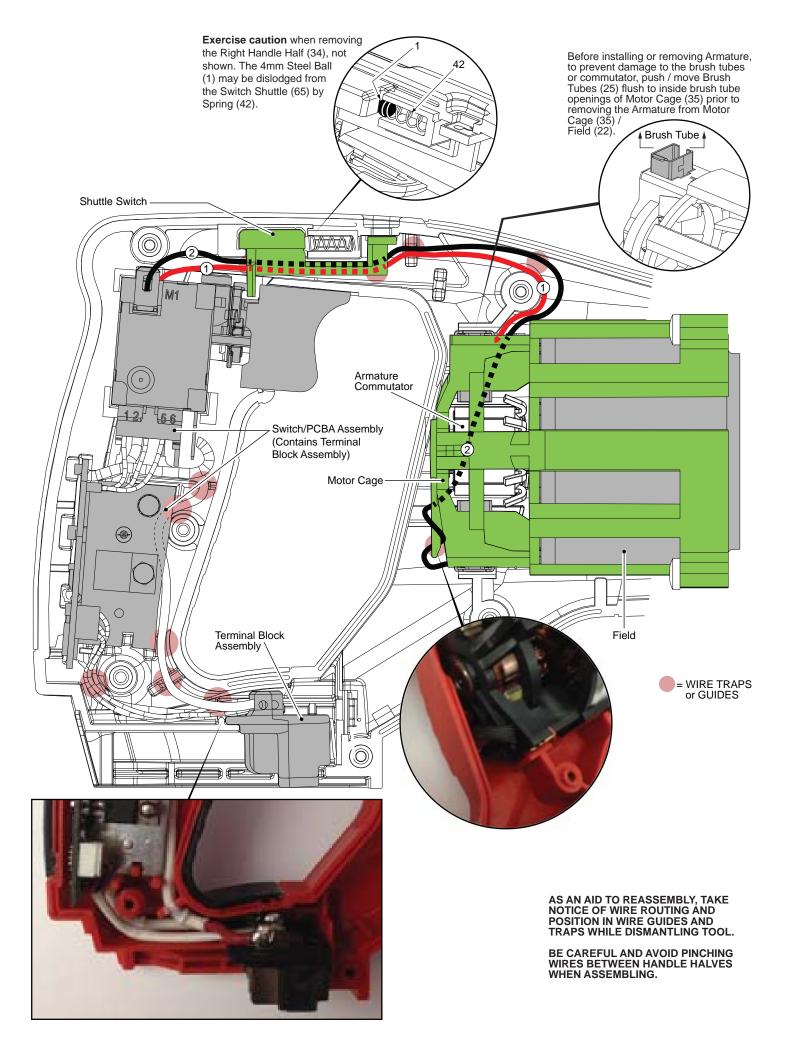


FIG.	PART NO.		D. REQ.
1	02-02-1100	4mm Ball	(1)
2	02-04-1516	Ball Bearing	(1)
4	02-50-1640	Needle Bearing	(1)
5	06-08-0017	3/16" Hex Drive Hub Bolt-RH Thread-1.125" long	g (1)
6		Pivot Pin	(2)
8	06-65-2995	Pin	(1)
9	06-81-0065	10-32 x 2" Bolt	(1)
10	06-82-3830	8-32 x 1/2" Csk Macine Screw	(3)
11	06-82-3900	3/8" DG50 Thread Form Screw	(2)
12	06-82-5316	8-32 x 1/2" Pan Hd. Taptite T-20 Screw	` '
13	06-82-5346	8-32 x 3/4" Pan Hd. Taptite T-20 Screw	(5)
14	06-82-2620	8-32 x 1" Pan Hd. Taptite T-20 Screw	(4)
15	06-82-7261	6-19 x 11/16" Pan Hd. Slt. Plast. T-15	(6)
16	06-82-7290	6-19 x 1-1/8" Pan Hd. Slt. Plast. T-15	(2)
17	14-09-0185	Crank Assembly-Right Hand Thread	(1)
18	10-15-0955	Warning Label	(1)
19	12-20-2620	Service Nameplate Kit	(1)
20	02-04-2620	Ball Bearing	(1)
21	16-01-2621	Service Armature with Fan	(1)
22	18-01-2621	Service Field	(1)
★ 23	22-18-2625	Carbon Brush Assembly - Black	(1)
★ 24	22-18-2623	Carbon Brush Assembly - Red	(1)
25	22-20-0860	Brush Tube	(2)
26	22-32-0400	Brush Spring Clip	(2)
27	22-56-1376	Terminal Block Assembly	(1)
★ 28	23-66-0286	Switch/PCBA Assembly	(1)
29	28-14-0210	Gearcase Assembly - Left	(1)
30	28-14-0060	Gearcase Assembly - Right	(1)
31	31-11-0105	Barrel Cam	(1)
★ 33	31-44-2627	Handle - Left	(1)
★ 34	31-44-2622	Handle - Right	(1)
35	31-50-2620	Motor Cage	(1)
36	32-05-0115	Spiral Bevel Gear	(1)
37	34-40-0035	O-Ring	(1)
38	34-60-3700	Retaining Ring	(1)
39	38-50-0260	Spindle	(1)
40		Torsion Spring	(1)

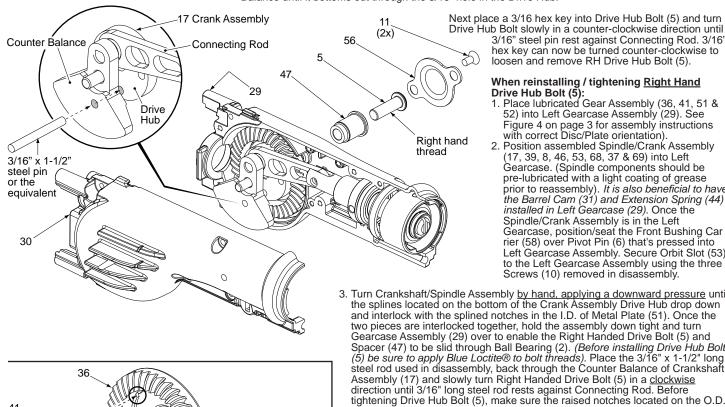
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
41	40-50-0595	Disc Spring	(1)
42	40-50-0930	Compression Spring	(1)
43	40-50-1090	Compression Spring	(1)
44	40-50-8805	Extension Spring	(1)
45	40-50-8840	Brush Spring	(2)
46	42-40-0020	Spindle Pin Bushing	(2)
47	42-40-0077	Spacer	(1)
48		Front Cam	(1)
51	43-06-0025	Metal Plate	(1)
52	43-06-0030	Metal Plate	(1)
53	43-56-0094	Orbit Slot	(1)
55	44-60-1750	Lock Pin	(1)
56	44-66-0280	Bearing Retaining Plate	(1)
57	44-66-0285	Retaining Plate	(1)
58		Front Bushing Carrier	(1)
60		Felt Seal	(1)
61	45-06-0790	Seal	(1)
62	45-12-0025	Gearcase Insulator	(1)
63	45-16-0025	Shoe Assembly	(1)
64	45-22-0175	Sleeve	(1)
65	45-24-0045	Shuttle Switch	(1)
66		Bushing Cap	(1)
67		Washer	(1)
68	38-50-6490	Front Bushing Carrier Assembly	(1)
69	42-68-1200	Blade Clamp Assembly (See Page 5	<u>s</u>) (1)
71	44-66-5335	Bearing Retainer Plate	(1)
72	02-04-0999	Ball Bearing	(1)
73	45-28-0025	Grease Slinger	(1)
74	32-60-0135	Pinion Gear	(1)
75	42-55-2620	Accessory Carrying Case	(1)
76	14-29-0390	Gear Assembly	(1)
★ 77	06-82-2395	M2.6 x 10mm Pan Hd. Plast. T-9 Sc	rew (1)

SEE ADDITIONAL SERVICE NOTES ON FOLLOWING PAGES

MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. Lisbon Road, Brookfield, WI 53005

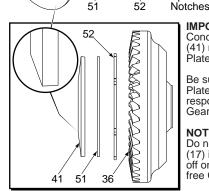


Remove Crank Assembly (17) from Left Gearcase Assembly (29) by separating / removing Right Housing Half (30). Remove Bearing Retaining Plate Screws (11) and Bearing Plate (56) from Left Gearcase Assembly (29). Place a 3/16" diameter x 1-1/2" long steel rod down through the opening in the Counter Balance until it bottoms out through the 3/16" hole in the Drive Hub.



3/16" steel pin rest against Connecting Rod. 3/16" hex key can now be turned counter-clockwise to loosen and remove RH Drive Hub Bolt (5).

- 52) into Left Gearcase Assembly (29). See Figure 4 on page 3 for assembly instructions with correct Disc/Plate orientation).
- 2. Position assembled Spindle/Crank Assembly (17, 39, 8, 46, 53, 68, 37 & 69) into Left Gearcase. (Spindle components should be pre-lubricated with a light coating of grease prior to reassembly). It is also beneficial to have the Barrel Cam (31) and Extension Spring (44) installed in Left Gearcase (29). Once the Spindle/Crank Assembly is in the Left Gearcase, position/seat the Front Bushing Car rier (58) over Pivot Pin (6) that's pressed into Left Gearcase Assembly. Secure Orbit Slot (53) to the Left Gearcase Assembly using the three Screws (10) removed in disassembly
- 3. Turn Crankshaft/Spindle Assembly <u>by hand, applying a downward pressure</u> until the splines located on the bottom of the Crank Assembly Drive Hub drop down and interlock with the splined notches in the I.D. of Metal Plate (51). Once the two pieces are interlocked together, hold the assembly down tight and turn Gearcase Assembly (29) over to enable the Right Handed Drive Bolt (5) and Spacer (47) to be slid through Ball Bearing (2). (Before installing Drive Hub Bolt (5) be sure to apply Blue Loctite® to bolt threads). Place the 3/16" x 1-1/2" long steel rod used in disassembly, back through the Counter Balance of Crankshaft Assembly (17) and slowly turn Right Handed Drive Bolt (5) in a clockwise direction until 3/16" long steel rod rests against Connecting Rod. Before tightening Drive Hub Bolt (5), make sure the raised notches located on the O.D. of Metal Plate (52) are engaged with corresponding recess in Spiral Bevel Gear (36), see Figure 4. Using an inch pound torque wrench and a 3/16" hex key, torque Drive Hub Bolt (5) to 210 in./lbs. or bolt can be tightened using a foot pound torque wrench to 17-18 ft./lbs.



IMPORTANT:

Splined

Concave side of Disc Spring (41) must face toward Metal Plates (51,52) and Gear (36).

Be sure that notches on Metal Plate (52) engage with corresponding recesses in Spiral Gear (36).

Do not wash Crank Assembly (17) in solvent solutions; wipe off only using a clean, dry lint

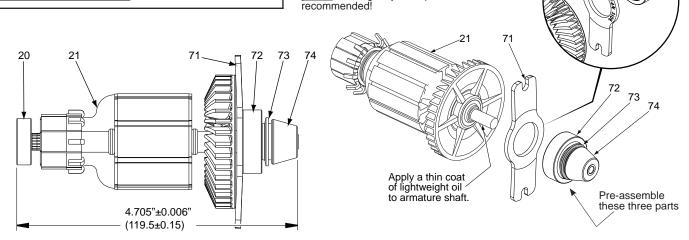
IMPORTANT:

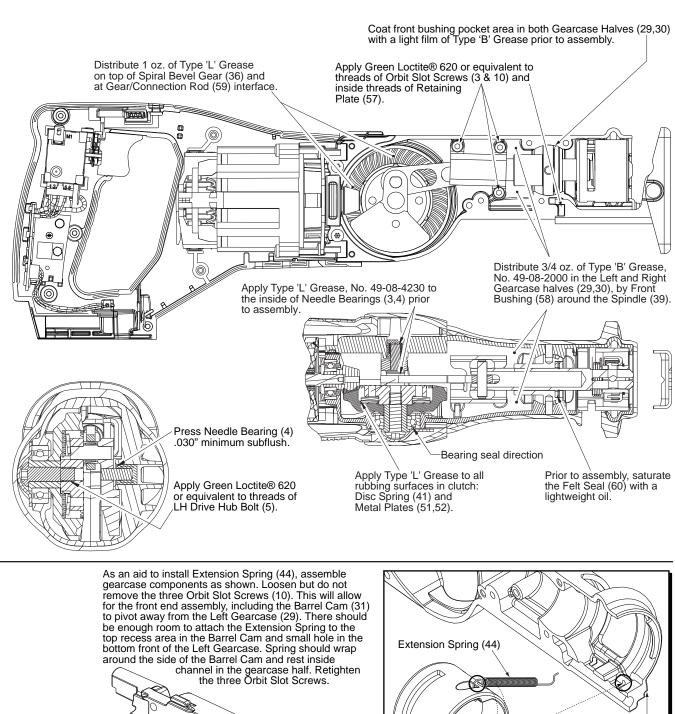
To achieve the proper press dimension shown below, pre-assemble / press together Ball Bearing (72), Grease Slinger (73) and Pinion Gear (74) prior to assembly onto the Armature (21).

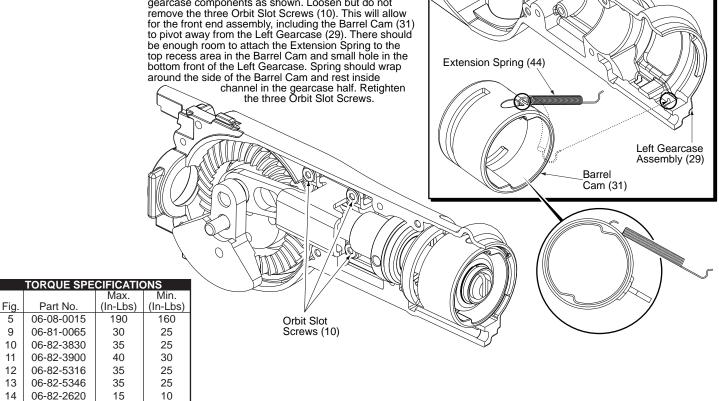
Place a thin coat of lightweight oil onto the fan end of the armature shaft to aid in the pressing of the pre-assembled parts. Prior to assembly with the Armature, be sure that the Bearing Plate Retainer (71) is positioned with the side reading 'fan side' facing the fan as shown

When reassembling parts (71, 72, 73 & 74) onto

the Armature (21), <u>use a conventional arbor press.</u> Utilizing a hydrolic press IS NOT





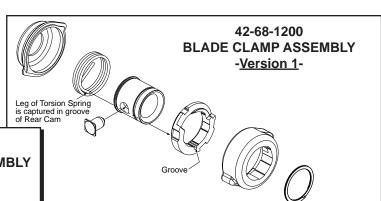


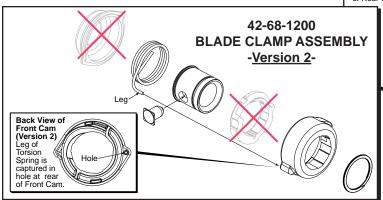
06-82-7261

06-82-7290

SERVICE NOTE:

There are two versions of the 42-68-1200 Blade Clamp Assembly. Although Version 2 has two fewer parts, <u>Version 1 and Version 2 are completely interchangeable.</u>





REMOVING THE STEEL QUIK-LOK® BLADE CLAMP - VERSION 1

- Remove external retaining ring (38) and pull front cam (48) off.
- Pull lock pin (55) out and remove remainder of parts and discard.

REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP

- · Coat new lock pin with powdered graphite.
- · Hold tool in a vertical position.
- · Place spring cover onto spindle.
- · Slide torsion spring (40) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (64) onto spindle aligning hole on sleeve with hole in spindle.
- Slide rear cam over sleeve until it bottoms on sleeve shoulder, ensure spring leg inserts into groove of cam.
- Rotate rear cam in the direction of the arrows located on spring cover until there is clearance for lock pin (55) to be inserted into sleeve/spindle holes. Insert lock pin.
- Align front cam (48) inner ribs with rear cam outer slots and slide front cam onto sleeve until it bottoms.
 Retaining ring groove should be completely visible.
- Attach retaining ring (38) by separating coils and inserting end of ring into groove, then wind remainder of ring into groove.
 Ensure ring is seated in groove.
- Blade clamp should rotate freely. During normal usage, debris may not allow blade clamp to rotate freely. The use of spray lubricant can help free blade clamp. In extreme conditions, follow these instructions to remove, clean and reassemble blade clamp.

Spindle (18)

Torsion Spring (3)

Lock Pin (5)

Sleeve (6)

Front Cam (8)

External Retaining

Ring (7)

REMOVING THE STEEL QUIK-LOK® BLADE CLAMP - VERSION 2

- Remove external retaining ring (38) and pull front cam (48) off.
- Pull lock pin (55) out and remove remainder of parts and discard.

REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP

- · Coat new lock pin with powdered graphite.
- Hold tool in a vertical position.
- Slide torsion spring (40) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (64) onto spindle aligning hole on sleeve with hole in spindle.
- Insert lock pin.
- Slide front cam (48) onto sleeve and insert leg of spring (40) into small hole in the back of the cam (see detail above) until it bottoms. Retaining ring groove on the sleeve (64) should be completely visible.
- Attach retaining ring (38) by separating coils and inserting end of ring into groove, then wind remainder of ring into groove.
 Ensure ring is seated in groove.
- Blade clamp should rotate freely. During normal usage, debris may not allow blade clamp to rotate freely. The use of spray lubricant can help free
 blade clamp. In extreme conditions, follow these instructions to remove, clean and reassemble blade clamp.

