DATE

Oct. 2010

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SERVICE PARTS LIST

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

SAWZALL® Reciprocating Saw

CATALOG NO. 6509-31

STARTING
STAR

WIRING INSTRUCTION STARTING SERIAL NO C24A CATALOG NO. 58-01-0291 EXAMPLE: $|00|_{\overline{0}}$ Component Parts (Small #) **DESCRIPTION OF PART** NO. REQ. PART NO. FIG. Are Included When Ordering 31 31-50-0290 Motor Housing (1) The Assembly (Large #). 45 32-05-0022 Service Gear Kit (1) 46 34-60-0810 External Retaining Ring (1) 34-60-3700 Retaining Ring 47 (1) 48 38-50-0076 Spindle (1)49 40-50-0596 Disc Spring (1)Torsion Spring 50 40-50-0162 (1) 52 42-40-0076 Spacer

53

40

23 24 46

58

49

42-40-2052

42-50-0360

Rollers

65

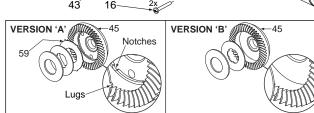
Rear Cam

46

SEE PAGES 2 & 3

FOR LUBRICATION AND SPECIAL SERVICE NOTES

52



NOTE: There are two different designs for Gear (45). The initial design (version 'A') has notches in the gear cavity to accomodate the lugs of Metal Plate (59). The replacement Service Gear Kit (version 'B') has no notches in the cavity and Metal Plate (59) is not to be used and is to be discarded.

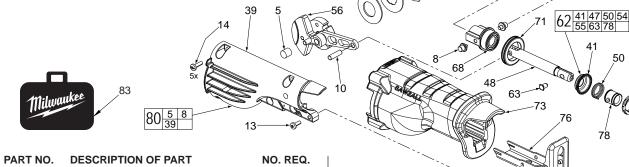
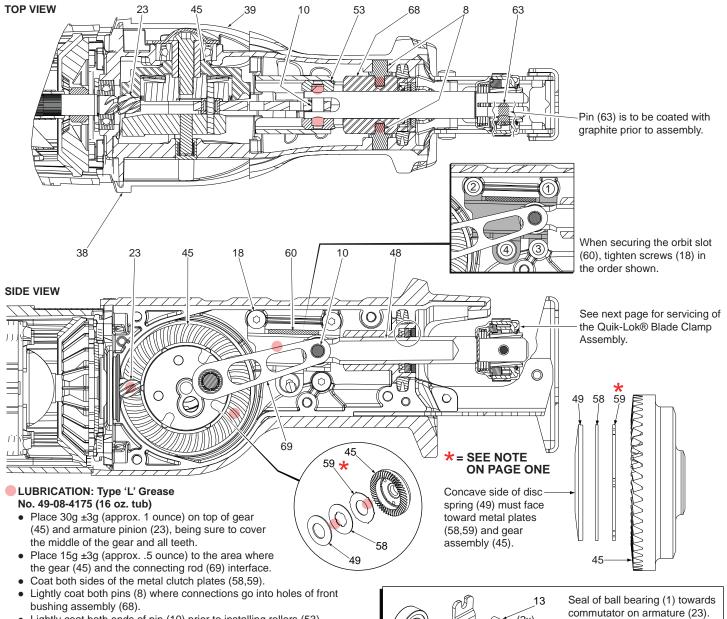
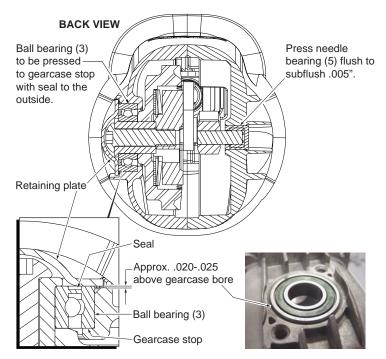


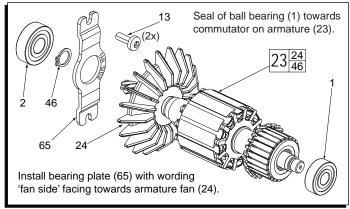
FIG.	PART NO.	DESCRIPTION OF PART N	O. KEQ.
1	02-04-0845	Ball Bearing	(1)
2	02-04-1020	Ball Bearing	(1)
3	02-04-1516	Ball Bearing	(1)
5	02-50-1640	Needle Bearing	(1)
6	05-88-8309	K50 x 35mm Washer Hd. PT T-20 Screw	(4)
7	06-08-0017	Drive Hub Bolt (R.H. Thread)	(1)
8	06-65-0130	Pivot Pin	(2)
10	06-65-0145	Pin - Connecting Rod	(1)
11	14-20-3155	Remote Electronics Assembly	(1)
13	06-82-5314	10-24 x .5 Pan Hd. Tapt. T-25 Screw	(4)
14	06-82-5411	10-24 x .625 Pan Hd. Tapt. T-25 Screw	(5)
15	06-82-7270	8-16 x .625 Pan Hd. Slt. Plast. T-20 Screw	(6)
16	06-82-7326	8-16 x 1.00 Pan Hd. Slt. Plast. T-20 Screw	` '
17	06-82-7410	8-16 x 1.875 Pan Hd. Slt. Plast. T-20 Screen	` '
18	06-82-8870	1/2-DG50 Thread Form T-20 Screw	(6)
21	12-99-1756	Service Nameplate	(1)
23	16-30-0585	Service Armature	(1)
24	22-84-0531	Fan	(1)
	18-31-0525	Service Field	(1)
28	22-20-0065	Carbon Brush Assembly	(2)
29	22-64-1627	Cordset	(1)
31	23-66-0205	Switch	(1)
38	28-14-0045	Gearcase - Left	(1)
	28-14-0046	Gearcase - Right	(1)
	31-05-0195	Baffle	(1)
	31-15-0170	Spring Cover	(1)
	31-44-0810	Handle - Left	(1)
43	31-44-0815	Handle - Right	(1)

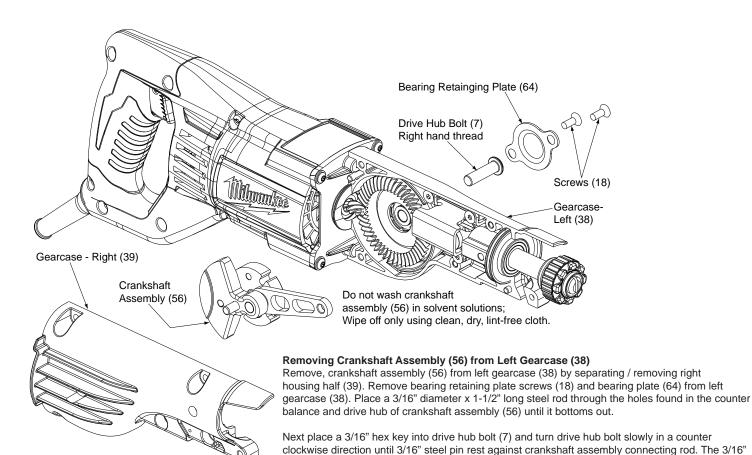
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
55	42-50-0355	Front Cam	(1)
56	14-09-0195	Crankshaft Assembly	(1)
58	43-06-0025	Metal Plate	(1)
59	43-06-0030	Metal Plate	(1)
60	43-56-0045	Orbit Slot	(1)
62	14-46-1060	Quik-Lok Blade Clamp Kit	(1)
63	44-60-1750	Lock Pin	(1)
64	44-66-0280	Bearing Retaining Plate - Gearcase Bearing	(1)
65	44-66-1070	Bearing Retaining Plate - Armature Bearing	(1)
67	44-76-0210	Cord Protector	(1)
68	14-86-0105	Front Bushing Assembly	(1)
71	45-06-0230	'H' Seal	(1)
73	45-12-2052	Insulator	(1)
76	45-16-0030	Shoe Assembly	(1)
78	45-22-0175	Sleeve	(1)
79	14-30-0145	Left Gearcase Assembly	(1)
80	14-30-0146	Right Gearcase Assembly	(1)
83	42-55-2050	Carrying Case	(1)
	23-94-0510	Leadwire Assembly - Black (Not Shown)	(1)
	23-94-0520	Leadwire Assembly - White(Not Shown)	(1)



• Lightly coat both ends of pin (10) prior to installing rollers (53).







Reinstalling Crankshaft Assembly (56) into Left Gearcase (38)

To reinstall drive hub bolt (7) to crankshaft assembly (56) apply Blue Loctite® (44-20-0090) to threads of drive hub bolt (7) and insert through spacer (52) aligning threads of drive hub bolt (7) with internal threads of crankshaft assembly hub. Use a 3 /16" hex key to turn the drive hub bolt (7) slowly in a <u>clockwise</u> direction until 3/16" steel pin rest against crankshaft assembly connecting rod (See 'Removing Crankshaft Assembly' instructions above). Using an inch pound torque wrench and a 3/16" hex key, torque drive hub bolt (7) to 210-240 in. lbs. or bolt can be tightened using a ft. lbs. torque wrench to 17-20 ft. lbs.

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.

(55)REMOVING THE STEEL QUIK-LOK® BLADE CLAMP Remove external retaining ring (47) and pull front cam (55) off. (54)Pull lock pin (63) out and remove remainder of parts and discard. LARGE OUTER SMALL SLOT OUTER SLOT 12:00 50 REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP Coat new lock pin (63) with powdered graphite. Hold tool in a vertical position. leg Place spring cover (41) onto spindle. Slide torsion spring (50) onto spindle shaft 55 with leg positioned at the 6:00 position. 6:00 Slide sleeve (78) onto spindle aligning hole on sleeve with hole in spindle. Slide rear cam (54) over sleeve, aligning hole in rear cam with spring leg. Ensure spring leg inserts into hole in rear cam. Rotate rear cam (54) counter clockwise until there is clearance for lock pin (63) to be inserted into sleeve/spindle holes. Insert lock pin. Align front cam (55) inner ribs with rear cam outer slots (see insert) and slide front cam onto sleeve until it bottoms. Retaining ring (47) groove should be completely visible. Attach retaining ring by separating coils and inserting end of ring into groove, then wind hole remainder of ring into groove. Ensure ring is seated in groove.

hex key can now be forcibly turned counter clockwise to loosen and remove drive hub bolt (7).

INNER

RIB

LARGE

INNER