## **SERVICE PARTS LIST**

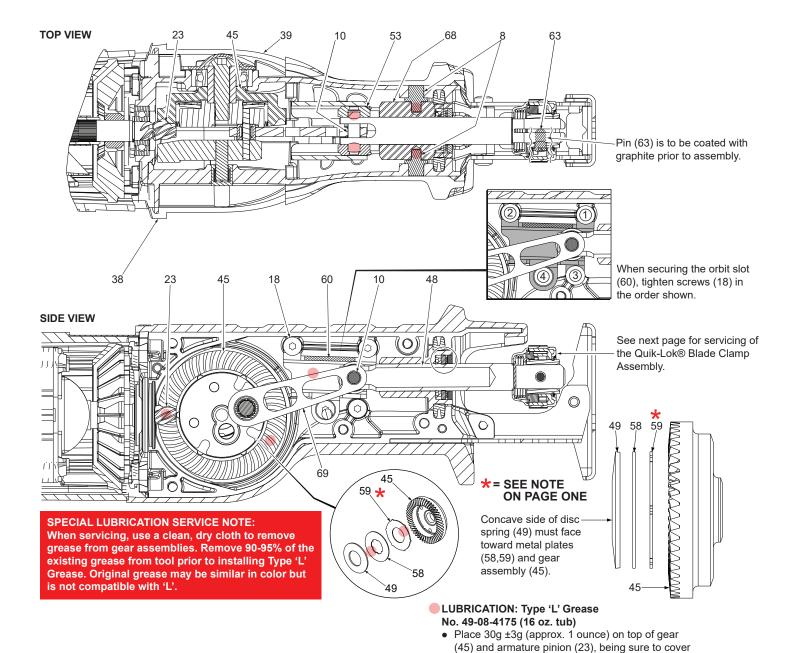
Milwankee SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS SAWZALL® Reciprocating Saw

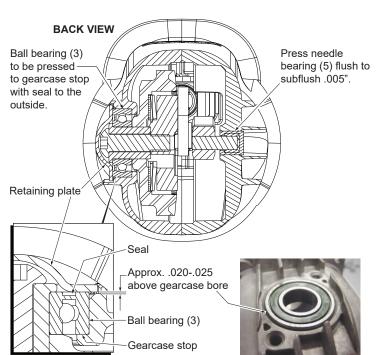
REVISED BULLETIN 54-40-6523

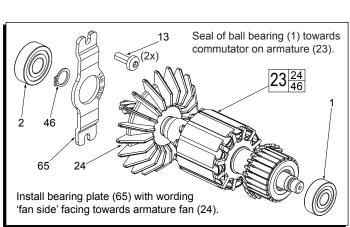
	CATALOG NO.	6509-31	STARTING SERIAL NO.	C24E	
OO O Component Parts (Small #) Are Included When Orderin The Assembly (Large #).		44 21 25	FIG. PART NO. 44 31-50-0290 45 32-05-0022 46 34-60-0810 47 34-60-3700 48 38-50-0076 49 40-50-0596 50 52 42-40-0076 53 42-40-2052 54	DESCRIPTION Motor Housing Service Gear K External Retair Retaining Ring Spindle Disc Spring Torsion Spring Spacer Rollers Rear Cam	(1) (it (1) ning Ring (1)
67 29 43 16 <u>2x</u>			23   24   24   24   24   24   24   24	FOR L AND SERV	PAGES 2 & 3 UBRICATION D SPECIAL VICE NOTES  64  18  38
<b>★= Part number change</b> from previous service parts list.	14	39 5	45 58 9 56 8	18 60	71 62 41 47 50 54 41 50 54
FIG. PART NO. DESCRIPTION	80 5 8 39	NO. REQ.	10	48	73 76 63 78 47

FIG.	PART NO.	DESCRIPTION OF PART N	IO. REQ
1	02-04-0845	Ball Bearing	(1)
2	02-04-1020	Ball Bearing (02-04-1021 as an alternate)	(1)
3	02-04-1516	Ball Bearing	(1)
5		Bushing	(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	06-65-0135	Pivot Pin	(2)
10	06-65-0145	Pin - Connecting Rod	(1)
11		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	<i>i</i> (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 Scre	
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)
25	18-31-0525	Service Field	(1)
28	22-20-0065	Carbon Brush Assembly	(2)
29	22-64-1622	Cordset	(1)
31	23-66-4205	Switch with Remote Electronics Assembly	(1)
38	28-14-0045	Gearcase - Left	(1)
39	28-14-0046	Gearcase - Right	(1)
40	31-05-0195	Baffle	(1)
41		Spring Cover	(1)
42	31-44-0810	Handle - Left	(1)
43	31-44-0815	Handle - Right	(1)

		<u> </u>		
FIG.	PART NO.	DESCRIPTION OF PART	NO. RE	Q.
55		Front Cam	(1)	
56	14-09-0195	Crankshaft Assembly	(1)	
58	43-06-0025	Metal Plate	(1)	
59	43-06-0030	Metal Plate (Version 'A' only, see detail)	(1)	
60	43-56-0055	Non-Orbit Slot	(1)	
62	14-46-1062	Quik-Lok Blade Clamp Kit	(1)	
63		Lock Pin	(1)	
64	44-66-0280	Bearing Retaining Plate - Gearcase Bearing	ng (1)	
65	44-66-1070	Bearing Retaining Plate - Armature Bearin	g (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		Sleeve	(1)	
79	14-30-0145	Left Gearcase Assembly	(1)	
80	14-30-0146	Right Gearcase Assembly	(1)	
83	42-55-2051	Carrying Case	(1)	
	23-94-0510	Leadwire Assembly - Black (Not Shown)	(1)	
	23-94-0520	Leadwire Assembly - White(Not Shown)	(1)	







the middle of the gear and all teeth.

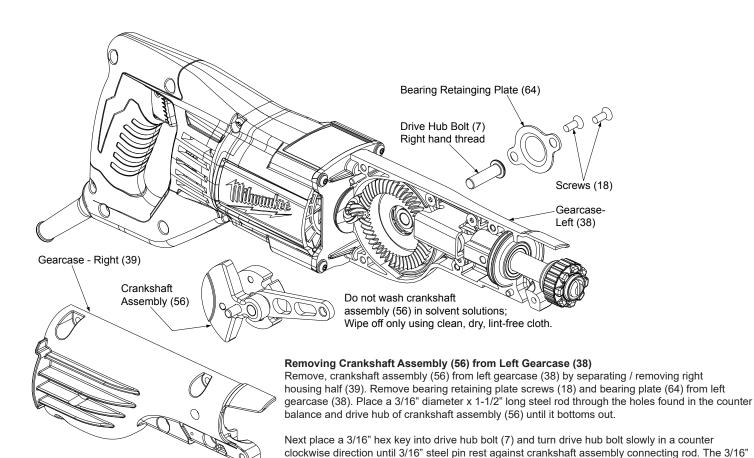
bushing assembly (68).

 Place 15g ±3g (approx. .5 ounce) to the area where the gear (45) and the connecting rod (69) interface.

• Coat both sides of the metal clutch plates (58,59).

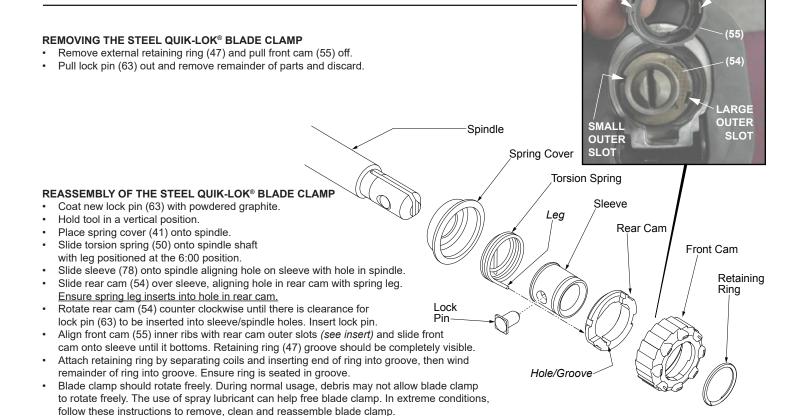
Lightly coat both pins (8) where connections go into holes of front

• 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 clockwise 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.



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

INNER

RIB

LARGE

**INNER**