NO. REQ.

(1)

(1)

(1)

(1)

(2) (1)

83 35 46 49 57 58 68 77

(46)

(1)

(1)

(35)

(58) J (57)

(49)

(77)

(76)

SERVICE PARTS LIST

FIG.

58

59

60

61

62

63

20 84

Milwankee

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

SAWZALL® with ROTATING HANDLE

CATALOG NO. 6523-21 STARTING SERIAL NO. A65F

STARTING SERIAL NO. A65F

REVISED BULLETIN 54-40-7564

WIRING INSTRUCTION See Page 3

PART NO.

42-52-0380

42-87-0180

43-06-0676

43-06-0685

14-08-0075

43-56-0620

DESCRIPTION OF PART

Gear Protecting Clutch Assembly

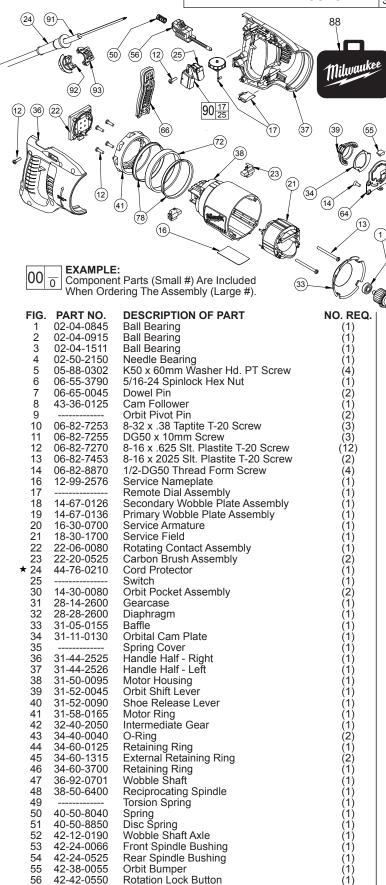
Rear Cam

Bearing Cap Counter Weight

Bronze Plate

Metal Plate

Orbit Plate



Front Cam

/	(2) (32) (45) (18) (4)	(8) (51) (61) (80) (3) (10) (63) (42) (51) (51) (63) (62) (65) (65) (65) (65) (65) (65) (65) (65	
FIG .	PART NO. 43-78-0577	DESCRIPTION OF PART Orbit Drive Hub	NO. REQ.
66 67	44-52-0105 44-60-1635	Cushion Grip Shoe Pin	(1) (1)
68	44.00.0000	Lock Pin	(1)
69 70	44-66-0880 44-86-0035	Shoe Retainer Front Orbit Cap	(1) (1)
71	44-86-0655	Bearing Retainer	(1)
72 73	44-90-4550 45-06-0110	Handle Ring Orbit Seal	(1) (1)
74	45-06-0475	Polypak Seal	(1)
75	45-12-0700	Gearcase Insulator	(1)
76 77	45-16-0645	Shoe Assembly Sleeve	(1) (1)
78	45-22-0650	Sleeve	(2)
79	45-28-0555	Slinger	(1)
80 81	45-36-1445 45-88-1555	Spacer Washer	(1) (1)
82	45-88-8577	Washer	(1)
83	14-46-1062	Large Quik-Lok Blade Clamp	(1)
84 87	22-84-0531 45-06-0501	Fan Felt Seal	(1) (1)
88	42-55-2051	Carrying Case	(1)
90	23-66-4225	Switch Assembly	(1)
★91 ★92	22-64-1622 31-17-0260	120V Cord Set Lower Cord Clamp	(1) (1)
★ 93	31-17-0267	Upper Cord Clamp	(1)

Leadwire Assembly (Not Shown)

Leadwire Assembly (Not Shown)

Leadwire Assembly (Not Shown) Leadwire Assembly (Not Shown)

MILWAUKEE ELECTRIC TOOL CORPORATION

13135 W. LISBON RD., BROOKFIELD, WI 53005

23-94-7400

23-94-7405

23-94-7410

23-94-7420

(87

FIG. 1	NOTES: Bearing to be installed with seal towards commutator.	
4,32	Press needle bearing flush ±.005 with inner surface of diaphragm.	
6,52	Apply Blue Loctite® 242 to threads of wobble shaft axle prior to installing	spinlock hex nut. Torque spinlock hex nut to 160-190 in. lbs.
6,42	Hold the intermediate gear still with a large pair of pliers and a piece of rubber hose (or other tough, but pliable material to protect the gear from the jaws of the pliers) and remove the 5/16" spinlock hex nut with a wrench, as shown.	gearcase (31) gear (42) split rubber hose or other protective material
7,48,53,54,60	Press dowel pins flush to front side of front spindle bushing. Press dowel pins flush to back side of rear spindle bushing. NOTE: Reciprocating spindle (48) and counter weight (60) must be installed inside assembly (7,53) and (7,54) prior to pressing last spindle bushing into place. Be sure to orientate the counter weight with the hole on bottom towards rear spindle bushing, as shown.	rear spindle bushing (54) counter weight (60) dowel pin (7) reciprocating
16,38	Install nameplate in motor housing recess prior to assembling diaphragm onto motor housing.	Spindle (48) Orient counter weight front spindle
30,44	Service fixture #61-10-0205 must be used when installing retaining ring (44) onto orbit pocket assembly (30).	as shown with hole on bottom towards rear spindle bushing.
42,61	Tabs of bronze plate engage intermediate gear.	Place a thin film of lubrication
42,51	Concave side of disc spring towards intermediate gear.	on dowel pins prior to assembly.
62,65	Tabs of metal plates engage orbit drive hub.	SMALL
74	O-ring of polypak seal faces mechanism - toward rear of tool.	INNER INNER RIB
79	Shoulder extension of grease slinger should face bearing.	RIB
REMOVING TH	E STEEL QUIK-LOK® BLADE CLAMP ————————————————————————————————————	(57)
Remove ex	xternal retaining ring (46) and pull front cam (57) off.	
	n (68) out and remove remainder of parts and discard.	(58)
	OF THE STEEL QUIK-LOK® BLADE CLAMP	
	ock pin with powdered graphite.	TA LABOR
	n a vertical position. ng cover (35) onto spindle.	LARGE OUTER
	on spring (49) onto spindle shaft	OUTER SLOT
	sitioned at the 6:00 position.	Spindle
Slide sleev	re (77) onto spindle aligning hole on sleeve with hole in spindle.	Spring Cover
	cam (58) over sleeve, aligning hole in rear cam with spring leg.	Torsion Spring
Ensure spr	ring leg inserts into hole in rear cam.	Sleeve

FIG.	LUBRICATION:
30,43	Lightly coat o-rings with lubrication for ease of installation onto assembled orbit pockets.
31	Place 3.2 oz. (80 grams \pm 8 grams) of type "T" grease (Cat. No. 49-08-4290), in mechanism cavity of gear case.
32	Place .8 oz. (20 grams ± 2 grams) of type "T" grease (Cat. No. 49-08-4290), in lower needle bearing-gear train cavity of diaphragm.
42,62	Apply a thin coat of type "T" grease (Cat. No. 49-08-4290) between gear and metal plate.

Rotate rear cam (58) counter clockwise until there is clearance for lock pin (68) to be inserted into sleeve/spindle holes. Insert lock pin.

remainder of ring into groove. Ensure ring is seated in groove.

68

87

follow these instructions to remove, clean and reassemble blade clamp.

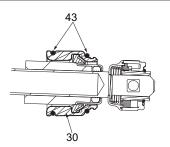
Pin to be coated with graphite prior to assembly.

Soak in lightweight bushing oil prior to assembly.

Align front cam (57) inner ribs with rear cam outer slots (see insert) and slide front cam onto sleeve until it bottoms. Retaining ring (46) groove should be completely visible.

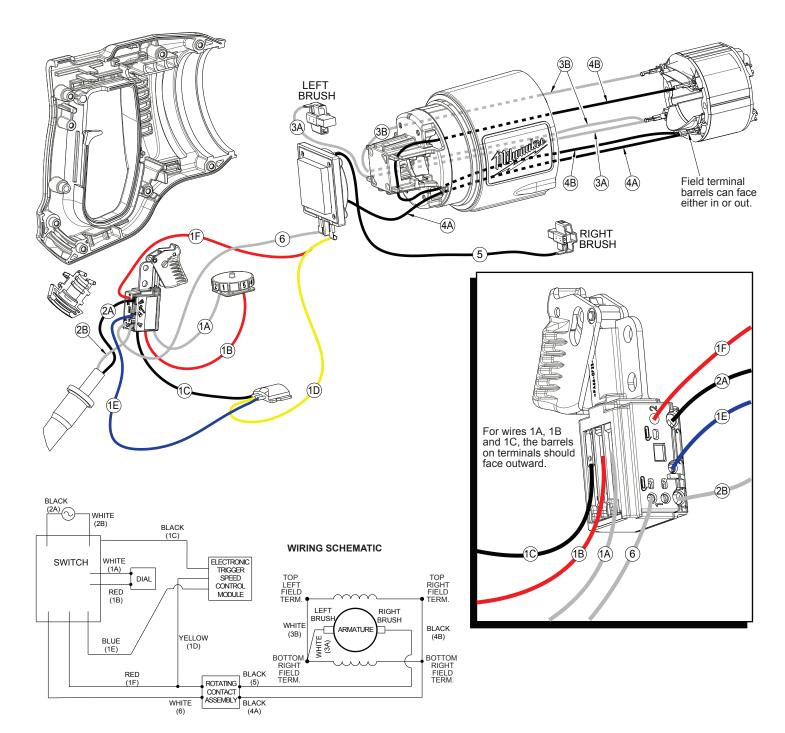
Attach retaining ring by separating coils and inserting end of ring into groove, then wind

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,



Front Cam

Retaining Ring



	WIRING SPECIFICATIONS					
Wire No.	Wire Color	Origin or Part No.	Gauge	Length	Terminals, Connectors and End Wire Preparation	
1A	White	Dial Assy.			Component of the 23-66-4225 Switch Assembly.	
1B	Red	Dial Assy.			Component of the 23-66-4225 Switch Assembly.	
1C	Black	Triac Assy.			Component of the 23-66-4225 Switch Assembly.	
1D	Yellow	Triac Assy.			Component of the 23-66-4225 Switch Assembly.	
1E	Blue	Triac Assy.			Component of the 23-66-4225 Switch Assembly.	
1F	Red	Triac Assy.			Component of the 23-66-4225 Switch Assembly.	
2A	Black	Cord Set			Component of the 22-64-1622 Cord Set.	
2B	White	Cord Set			Component of the 22-64-1622 Cord Set.	
3A	White	Wire Assy.			Component of Leadwire Assembly 23-94-7400.	
3B	White	Wire Assy.			Component of Leadwire Assembly 23-94-7400.	
4A	Black	Wire Assy.			Component of Leadwire Assembly 23-94-7405.	
4B	Black	Wire Assy.			Component of Leadwire Assembly 23-94-7405.	
5	Black	Wire Assy.			Component of Leadwire Assembly 23-94-7410.	
6	White	Wire Assy.			Component of Leadwire Assembly 23-94-7420.	

BULK LEAD WIRE - BULLETIN 58-01-0003

NOTE:

All lead lengths are before stripping. All leads must be held to \pm .125" unless specified elsewhere.

TERMINAL DESCRIPTION						
Code	Part No.	Qty.				