SERVICE PARTS LIST

54-40-7512

DATE

Feb. 2017

83 35 46 49 57 58 68 77

(35)

(49)



WIRING INSTRUCTION STARTING CATALOG NO. 6523-69 0616 See Page 3 SERIAL NO.



EXAMPLE: Component Parts (Small #) Are Included $|00|_{\overline{0}}$ When Ordering The Assembly (Large #).

(16)

(72)

21)

34) (14)

64) 13) 1

(1) 20			53	68		
	20 84	4		9) (73	(58)	7)	
					(82)		
?			30 9		$\int_{0}^{\infty} \sqrt{70} \sqrt{43}$) ` ` \	
0				790		(31)	
		6	(79)			5	``
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	84 /		(4)		179/2		
	10		52	(81)			
		(2)) (51) ·	80 (3)	100	» \
		(32)	>>(61	10		O L
					47	P. 61%	3 (6)
			(42)			\	2 59
			Ŭ	(62)		45	69
	NOTE: W	hen ordering ve Hub Servic	#67	65			
	(Orbit Driv	ve Hub Servic must be use	e Kit), both	a ald norte	67 65	a 0	
ı	new parts	must be used	a. Discard tr	ie olu parts			

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
65	43-76-0577	Orbit Drive Hub	(1)
66	44-52-0105	Cushion Grip	(1)
67	14-26-0703	Orbit Drive Hub Service Kit	(1)
68		Lock Pin	(1)
69	44-66-0880	Shoe Retainer	(1)
70	44-86-0035	Front Orbit Cap	(1)
71	44-86-0655	Bearing Retainer	(1)
72	44-90-4550	Handle Ring	(1)
73	45-06-0110	Orbit Seal	(1)
74	45-06-0475	Polypak Seal	(1)
75	45-12-0705	Gearcase Insulator	(1)
77		Sleeve	(1)
78	45-22-0650	Sleeve	(2)
79	45-28-0555	Slinger	(1)
80	45-36-1445	Spacer	(1)
81	45-88-1555	Washer	(1)
82	45-88-8577	Washer	(1)
83	14-46-1062	Large Quik-Lok Blade Clamp	(1)
84	22-84-0531	Fan	(1)
	45-06-0501		(1)
	23-66-4225		(1)
★ 91	22-64-1622	120V Cord Set	(1)
★ 92	31-17-0260	Lower Cord Clamp	(1)
★ 93	31-17-0267	Upper Cord Clamp	(1)
	23-94-7400	Leadwire Assembly (Not Shown)	(1)
	23-94-7405	Leadwire Assembly (Not Shown)	(1)
	23-94-7410	Leadwire Assembly (Not Shown)	(1)
	23-94-7420	Leadwire Assembly (Not Shown)	(1)

SEE PAGE 2 FOR IMPORTANT SERVICE NOTES

MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. LISBON RD., BROOKFIELD, WI 53005

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. gear (42) gear (42) split rubber hose or other protective material
7,48,53,54	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) must be installed inside assembly (7,53) and (7,54) prior to pressing last spindle bushing into place.
16,38	Install nameplate in motor housing recess prior to assembling diaphragm onto motor housing.
30,44	Service fixture #61-10-0205 must be used when installing retaining ring (44) onto orbit pocket assembly (30).
42,61	Tabs of bronze plate engage intermediate gear.
42,51	Concave side of disc spring towards intermediate gear. Place a thin film of lubrication on dowel pins prior to assembly.
62,65	Tabs of metal plates engage orbit drive hub.

REMOVING THE STEEL QUIK-LOK® BLADE CLAMP -

- Remove external retaining ring (46) and pull front cam (57) off.
- Pull lock pin (68) 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.

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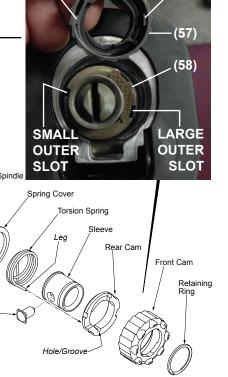
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- Place spring cover (35) onto spindle.
- Slide torsion spring (49) onto spindle shaft with leg positioned at the 6:00 position.
- Slide sleeve (77) onto spindle aligning hole on sleeve with hole in spindle.
- Slide rear cam (58) over sleeve, aligning hole in rear cam with spring leg. Ensure spring leg inserts into hole in rear cam.
- Rotate rear cam (58) counter clockwise until there is clearance for lock pin (68) to be inserted into sleeve/spindle holes. Insert lock pin.
- 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.

O-ring of polypak seal faces mechanism - toward rear of tool.

Shoulder extension of grease slinger should face bearing.

- Attach retaining ring 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.



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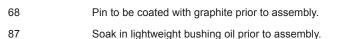
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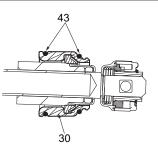
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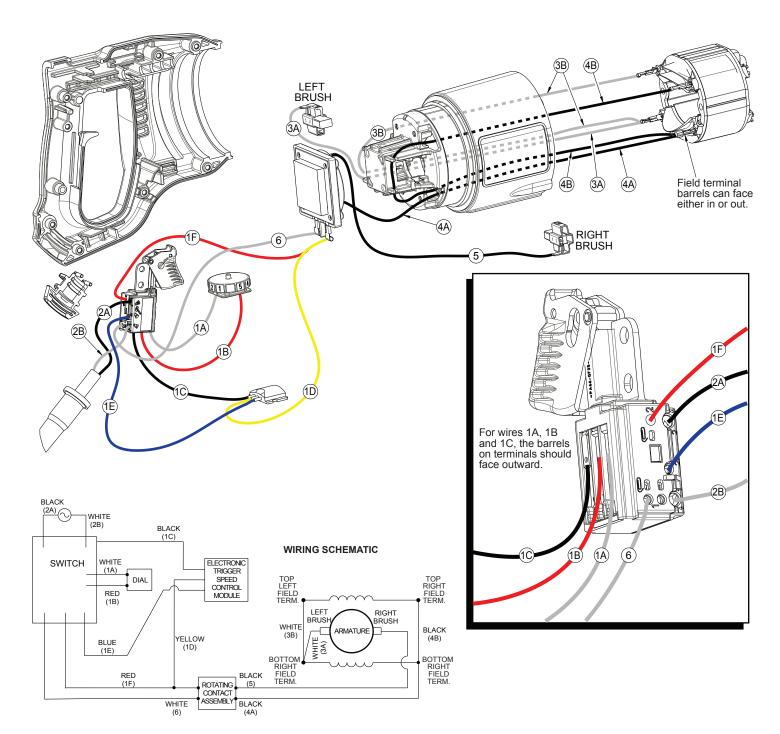
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RIB

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 \pm 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.
68	Pin to be coated with graphite prior to assembly.







	WIDING CRECIFICATIONS						
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.			