**BULLETIN NO.** 54-06-2977

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

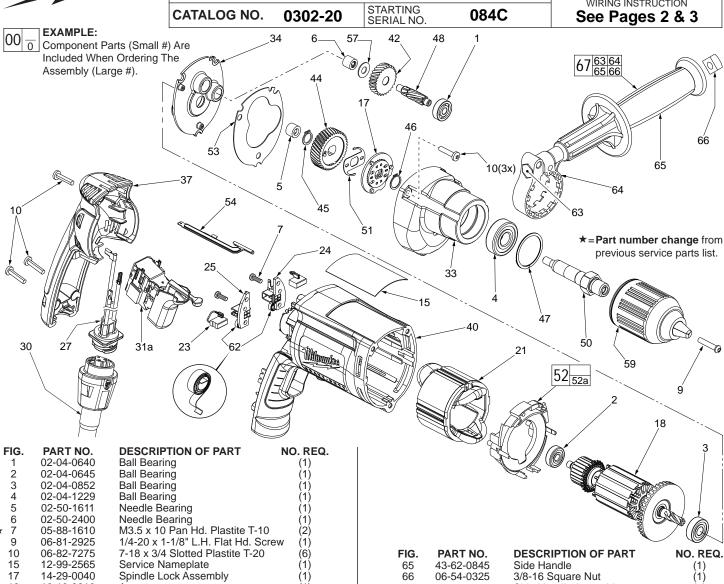
REVISED BULLETIN 54-06-2976

DATE June 2012

66

WIRING INSTRUCTION





1	02-04-0640	Ball Bearing	(1)
2	02-04-0645	Ball Bearing	(1)
3	02-04-0852	Ball Bearing	(1)
4	02-04-1229	Ball Bearing	(1)
5	02-50-1611	Needle Bearing	(1)
6	02-50-2400	Needle Bearing	(1)
<b>★</b> 7	05-88-1610	M3.5 x 10 Pan Hd. Plastite T-10	(2)
9	06-81-2925	1/4-20 x 1-1/8" L.H. Flat Hd. Screw	(1)
10	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)
15	12-99-2565	Service Nameplate	(1)
17	14-29-0040	Spindle Lock Assembly	(1)
18	16-10-2210	Armature	(1)
<b>★</b> 21	18-07-7220	Field	(1)
23	22-18-1310	Brush Assembly	(2)
<b>★</b> 24	22-20-0090	Left Brush Holder	(1)
<b>★</b> 25	22-20-0095	Right Brush Holder	(1)
27	22-56-1010	Pin Housing Assembly	(1)
30	48-76-4008	Quik-Lok Cord Set	(1)
31a	23-66-2605	Switch (Defond) See page 2 wiring	(1)
31b	23-66-2585	Switch (Marquardt) See page 3 wirin	
33	28-14-2390	Gearcase	(1)
34	28-28-2320	Diaphragm	(1)
37	31-15-2030	Handle Halve	(1)
<b>★</b> 40	31-50-3040	Motor Housing	(1)
42	32-40-0100	Intermediate Ğear	(1)
44	32-75-0101	Spindle Gear	(1)
45	34-60-0810	External Retaining Ring	(1)
46	34-60-0900	External Retaining Ring	(1)
47	34-80-2300	Retaining Ring	(1)
48	36-66-0100	Intermediate Shaft	(1)
50	38-50-5752	Output Spindle	(1)
51	40-50-8525	Click Spring	(1)
52	42-14-0450	Baffle Assembly	(1)
52a	45-30-0030	Slug (Not shown)	(2)
53	43-44-0985	Gasket	(1)
54	44-60-1700	Ground Pin	(1)
57	45-88-7990	Thrust Washer	(1)
59	42-66-0755	1/2" Keyless Chuck	(1)
62	23-52-1610	Brush Spring	(2)
63	06-75-2850	3/8-16 x 5-1/2" Hex Cap Screw	(1)
64	42-68-0800	Side Handle Clamp	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. RE
65	43-62-0845	Side Handle	(1)
66	06-54-0325	3/8-16 Square Nut	(1)
67	49-15-0265	Side Handle Assembly	(1)
*	23-94-0490	White Leadwire Assy. (See page	es 2 & 3) (1)
*	23-94-0495	Red Leadwire Assy. (See page	s 2 & 3) (1)
	31-53-0205	Lock Button Plug (Not Shown	) (1)

## LUBRICATION (Type "Y" Grease, No. 49-08-5270)

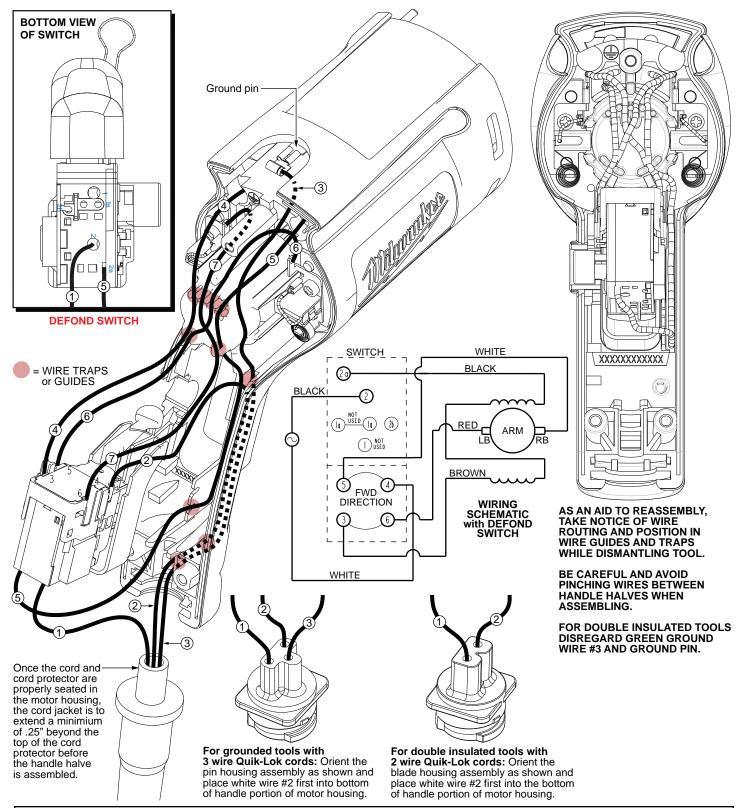
- Place 5 gm. (.02 oz.) of grease on top of the inserted intermediate ball bearing (1) and on the intermediate pinion (48).
- After inserting all gearing, place 13 gm. (.46 oz.) of grease at the armature pinion location in the gearcase (33) and fill to the top of the intermediate gear (42). Grease must contact at least 25% of the intermediate gear teeth.

Before assembly, lightly coat all press fit areas with lightweight spindle oil.

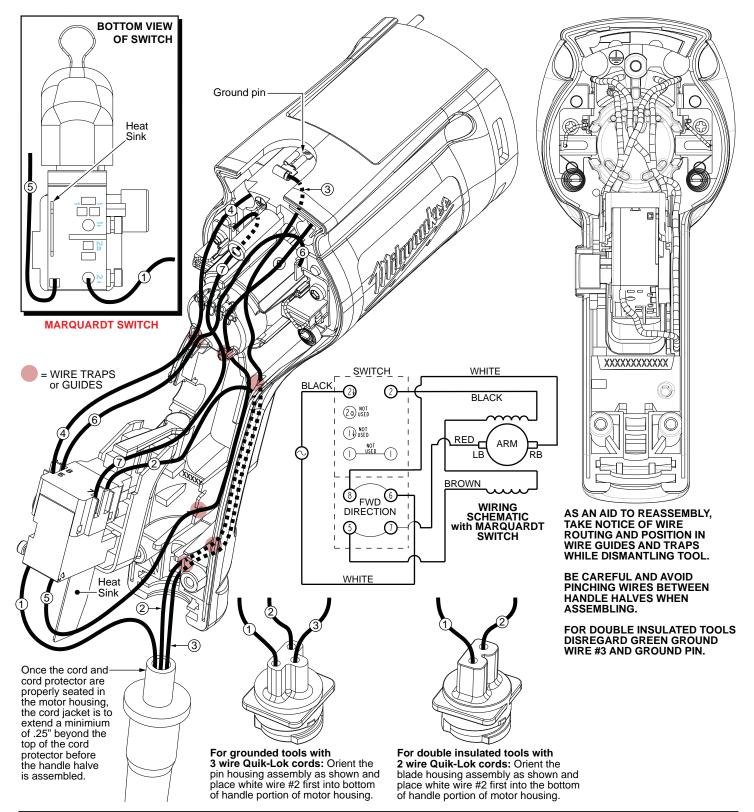
## FIG.

- 4,44 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
- Needle bearings to be pressed flush to .010 under flush 5,6 from the end which has the vendors identification.

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



	WIRING SPECIFICATIONS				
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation	
1	Black	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #2 on switch bottom.	
2	White	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #4 on switch top.	
3	Green	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to male tab on ground terminal.	
4	Brown	Field		Component of field. Connect to #3 on switch top.	
5	Black	Field		Component of field. Connect to #2a on switch bottom.	
6	White	23-94-0490		Leadwire assembly. Connect to right brush holder and #5 on switch top.	
7	Red	23-94-0495		Leadwire assembly. Connect to left brush holder and #6 on switch top.	
BULK LEAD WIRE - BULLETIN NO. 58-01-0003					



WIRING SPECIFICATIONS				
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
1	Black	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #2\$ on switch bottom.
2	White	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #6 on switch top.
3	Green	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to male tab on ground terminal.
4	Brown	Field		Component of field. Connect to #5 on switch top.
5	Black	Field		Component of field. Connect to #2 on switch bottom.
6	White	23-94-0490		Leadwire assembly. Connect to right brush holder and #8 on switch top.
7	Red	23-94-0495		Leadwire assembly. Connect to left brush holder and #7 on switch top.
BULK LEAD WIRE - BULLETIN NO. 58-01-0003				