



# SERVICE PARTS LIST

**BULLETIN NO.**  
**54-06-2875**

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS			REVISED BULLETIN
<b>3/8 INCH DRILL</b>			
CATALOG NO. <b>0201-20</b>	STARTING SERIAL NO. <b>067A</b>	WIRING INSTRUCTION <b>58-01-1805</b>	

**EXAMPLE:**

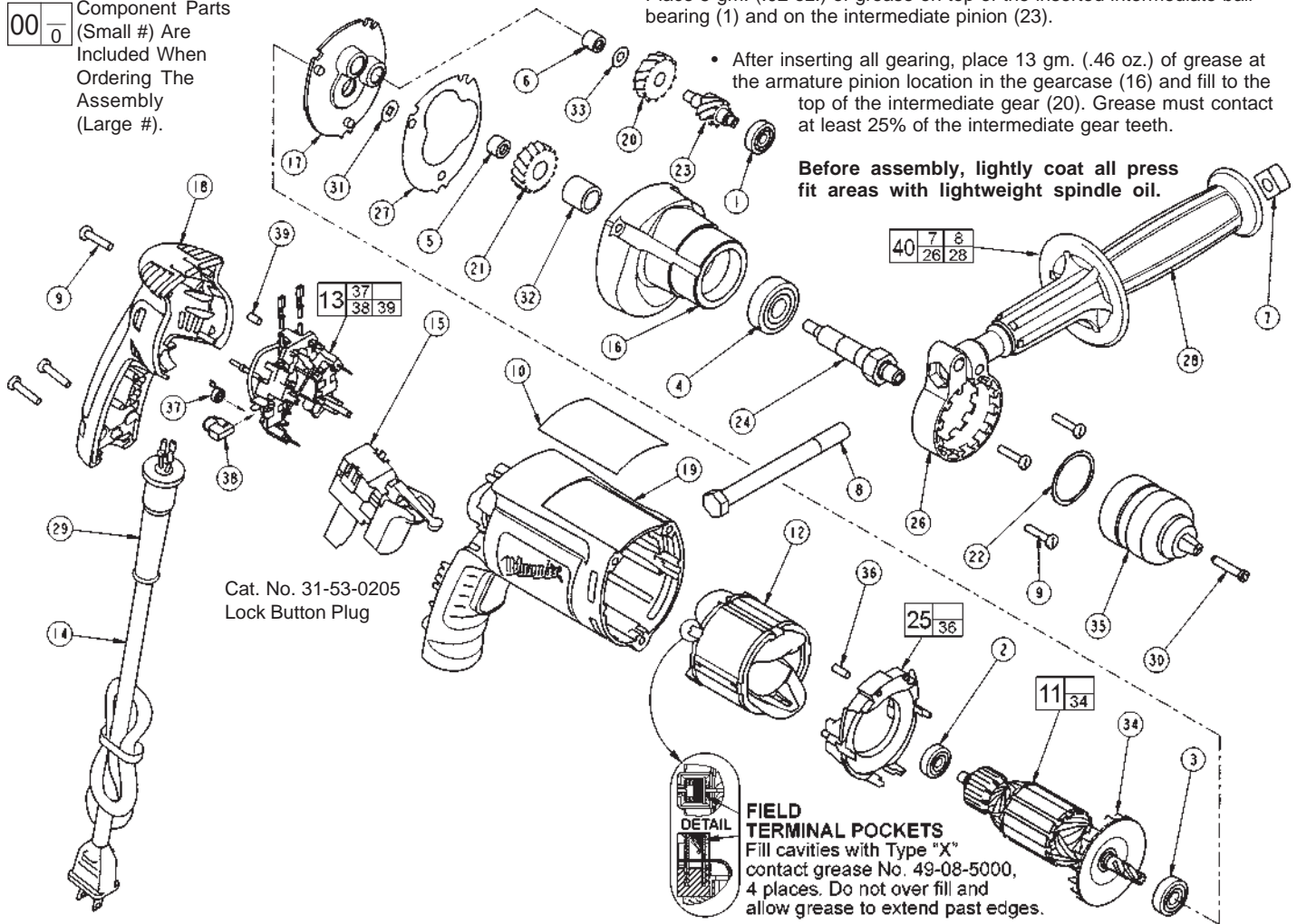
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Component Parts  
(Small #) Are  
Included When  
Ordering The  
Assembly  
(Large #).

**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 (23).
- After inserting all gearing, place 13 gm. (.46 oz.) of grease at the armature pinion location in the gearcase (16) and fill to the top of the intermediate gear (20). Grease must contact at least 25% of the intermediate gear teeth.

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



Cat. No. 31-53-0205  
Lock Button Plug

**FIELD TERMINAL POCKETS**

Fill cavities with Type "X" contact grease No. 49-08-5000, 4 places. Do not over fill and allow grease to extend past edges.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	02-04-0640	Ball Bearing	(1)	26	42-68-0800	Side Handle Clamp	(1)
2	02-04-0645	Ball Bearing	(1)	27	43-44-0985	Gasket	(1)
3	02-04-0852	Ball Bearing	(1)	28	43-62-0845	Side Handle	(1)
4	02-04-1229	Ball Bearing	(1)	29	44-76-0210	Cord Protector	(1)
5	02-50-1611	Needle Bearing	(1)	30	45-04-0750	Chuck Screw	(1)
6	02-50-2400	Needle Bearing	(1)	32	45-36-1095	Spindle Spacer	(1)
7	06-54-0325	3/8-16 Square Nut	(1)	33	45-88-7990	Thrust Washer	(1)
8	06-75-2850	3/8-16 x 5-1/2 Hex Cap Screw	(1)	34	22-84-0845	Fan	(1)
9	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)	35	48-66-1530	3/8 Two Sleeve Keyless Chuck	(1)
10	12-99-2665	Service Nameplate	(1)	36	45-30-0030	Slug	(2)
11	16-10-2215	Armature	(1)	37	23-52-1610	Brush Spring	(2)
12	18-07-2200	Field	(1)	38	22-18-1310	Brush Assembly	(2)
13	22-18-1210	Brush Card Assembly	(1)	39	45-30-0035	Slug	(1)
14	22-64-6510	Cord Assembly	(1)	40	49-15-0265	Side Handle Assembly	(1)
15	23-66-2585	Switch	(1)				
16	28-14-2390	Gearcase	(1)				
17	28-28-2320	Diaphragm	(1)				
18	31-15-2010	Handle Halve	(1)				
19	31-50-2050	Motor Housing	(1)				
20	32-40-0100	Intermediate Gear	(1)				
21	32-75-0115	Spindle Gear	(1)				
22	34-80-2300	Retaining Ring	(1)				
23	36-66-0125	Intermediate Shaft	(1)				
24	38-50-5750	Spindle	(1)				
25	42-14-0460	Baffle Assembly	(1)				

- FIG. NOTES:**
- 4,21 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
- 5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.



# SERVICE PARTS LIST

BULLETIN NO.  
54-06-2876

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS			REVISED BULLETIN 54-06-2875
<b>3/8 INCH DRILL</b>			
CATALOG NO.	<b>0201-20</b>	STARTING SERIAL NO.	<b>067B</b>
			WIRING INSTRUCTION <b>58-01-1806</b>

**EXAMPLE:**

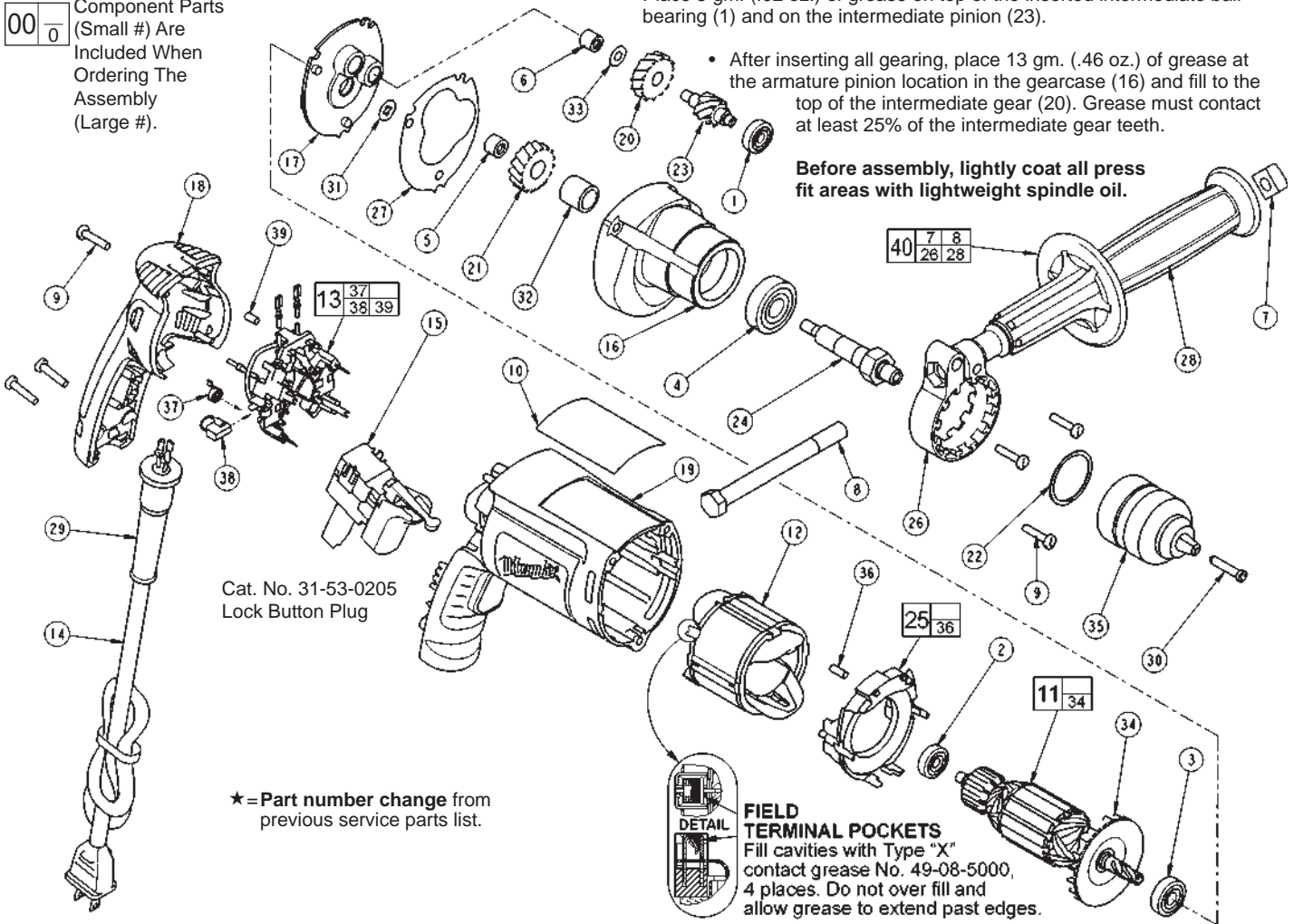
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Component Parts  
(Small #) Are  
Included When  
Ordering The  
Assembly  
(Large #).

**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 (23).
- After inserting all gearing, place 13 gm. (.46 oz.) of grease at the armature pinion location in the gearcase (16) and fill to the top of the intermediate gear (20). Grease must contact at least 25% of the intermediate gear teeth.

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



Cat. No. 31-53-0205  
Lock Button Plug

★ = Part number change from previous service parts list.



**FIELD TERMINAL POCKETS**  
Fill cavities with Type "X" contact grease No. 49-08-5000, 4 places. Do not over fill and allow grease to extend past edges.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
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)
7	06-54-0325	3/8-16 Square Nut	(1)
8	06-75-2850	3/8-16 x 5-1/2 Hex Cap Screw	(1)
9	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)
10	12-99-2665	Service Nameplate	(1)
11	16-10-2215	Armature	(1)
12	18-07-2200	Field	(1)
13	22-18-1210	Brush Card Assembly	(1)
14	22-64-6510	Cord Assembly	(1)
★ 15	23-66-2605	Switch	(1)
16	28-14-2390	Gearcase	(1)
17	28-28-2320	Diaphragm	(1)
18	31-15-2010	Handle Halve	(1)
★ 19	31-50-4050	Motor Housing	(1)
20	32-40-0100	Intermediate Gear	(1)
21	32-75-0115	Spindle Gear	(1)
22	34-80-2300	Retaining Ring	(1)
23	36-66-0125	Intermediate Shaft	(1)
24	38-50-5750	Spindle	(1)
25	42-14-0460	Baffle Assembly	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
26	42-68-0800	Side Handle Clamp	(1)
27	43-44-0985	Gasket	(1)
28	43-62-0845	Side Handle	(1)
29	44-76-0210	Cord Protector	(1)
30	45-04-0750	Chuck Screw	(1)
32	45-36-1095	Spindle Spacer	(1)
33	45-88-7990	Thrust Washer	(1)
34	22-84-0845	Fan	(1)
35	48-66-1530	3/8 Two Sleeve Keyless Chuck	(1)
36	45-30-0030	Slug	(2)
37	23-52-1610	Brush Spring	(2)
38	22-18-1310	Brush Assembly	(2)
39	45-30-0035	Slug	(1)
40	49-15-0265	Side Handle Assembly	(1)

**FIG. NOTES:**

- 4,21 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
- 5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.



# SERVICE PARTS LIST

**BULLETIN NO.**  
**54-06-2877**

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN 54-06-2876
<b>3/8" PISTOL GRIP DRILL</b>		
CATALOG NO. <b>0201-20</b>	STARTING SERIAL NO. <b>067C</b>	WIRING INSTRUCTION <b>See Pages 2 &amp; 3</b>

**EXAMPLE:**  
Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

★ = Part number change from previous service parts list.

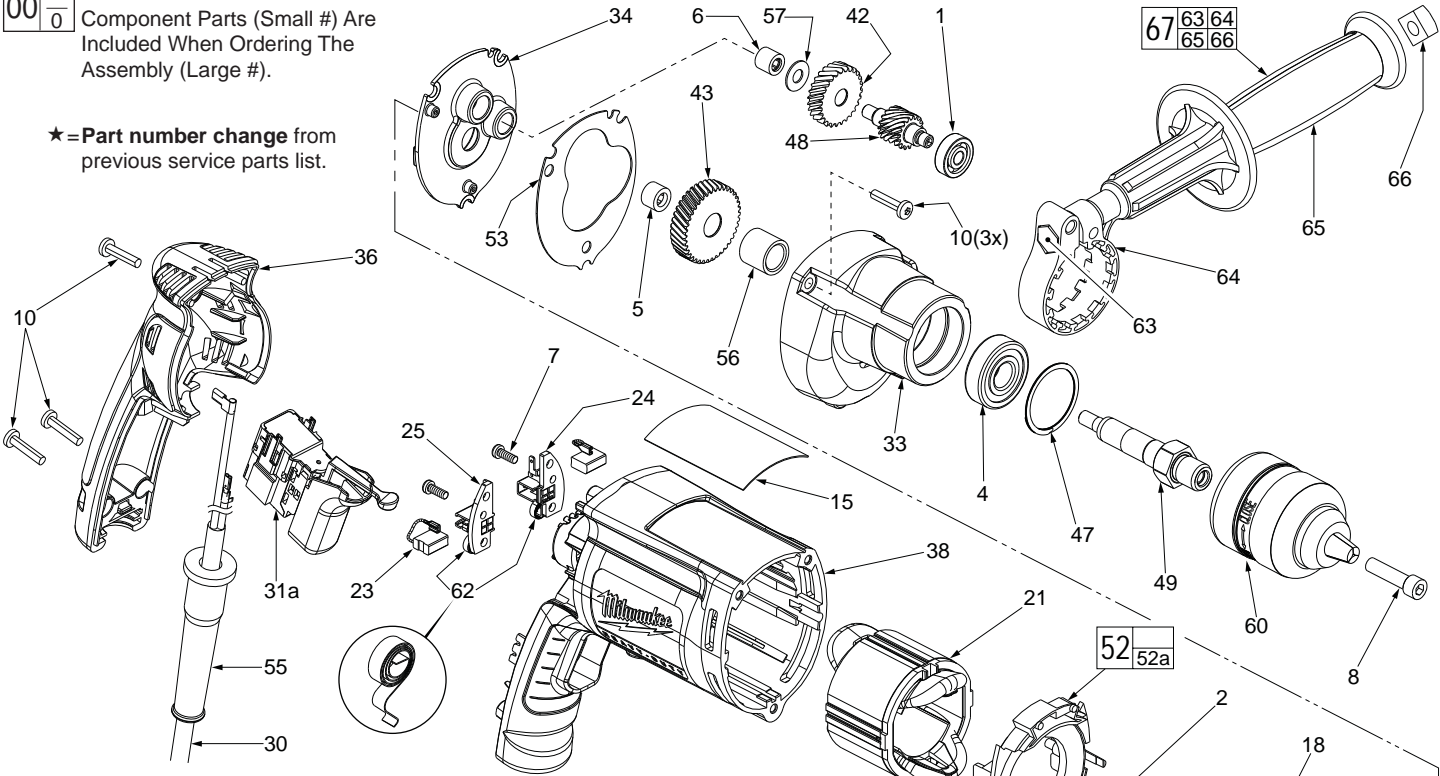


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	02-04-0640	Ball Bearing	(1)
2	02-04-0645	Ball Bearing	(1)
3	02-04-0852	Ball Bearing	(1)
4	02-04-1229	Ball Bearing	(1)
5	02-50-1611	Needle Bearing	(1)
6	02-50-2400	Needle Bearing	(1)
★ 7	05-88-1610	M3.5 x 10 Pan Hd. Plastite T-10	(2)
8	45-04-0750	Chuck Retaining Screw	(1)
10	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)
15	12-99-2565	Service Nameplate	(1)
18	16-10-2215	Armature	(1)
★ 21	18-07-7210	Field	(1)
23	22-18-1310	Brush Assembly	(2)
★ 24	22-20-0090	Left Brush Holder	(1)
★ 25	22-20-0095	Right Brush Holder	(1)
30	22-64-6510	Cord Set	(1)
31a	23-66-2605	Switch (Defond) See page 2 wiring	(1)
31b	23-66-2585	Switch (Marquardt) See page 3 wiring	(1)
33	28-14-2390	Gearcase	(1)
34	28-28-2320	Diaphragm	(1)
36	31-15-2010	Handle Halve	(1)
★ 38	31-50-3050	Motor Housing	(1)
42	32-40-0100	Intermediate Gear	(1)
43	32-75-0115	Spindle Gear	(1)
47	34-80-2300	Retaining Ring	(1)
48	36-66-0125	Intermediate Shaft	(1)
49	38-50-5750	Spindle	(1)
52	42-14-0460	Baffle Assembly	(1)
52a	45-30-0030	Slug (Not shown)	(2)
53	43-44-0985	Gasket	(1)
55	44-76-0210	Cord Protector	(1)
56	45-36-1095	Spindle Spacer	(1)
57	45-88-7990	Thrust Washer	(1)
60	48-66-1530	3/8" Two Sleeve 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)
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)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
★	23-94-0490	White Leadwire Assy. (See pages 2 & 3)	(1)
★	23-94-0495	Red Leadwire Assy. (See pages 2 & 3)	(1)
	31-53-0205	Lock Button Plug (Not Shown)	(1)

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

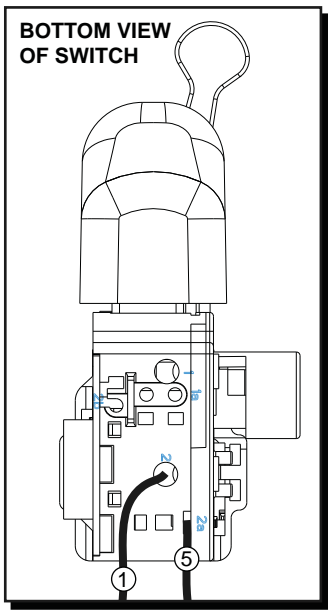
- Place 5 gm. (.02 oz.) of grease on top of the inserted intermediate ball bearing (1) and on the intermediate pinion (48).

- 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.**

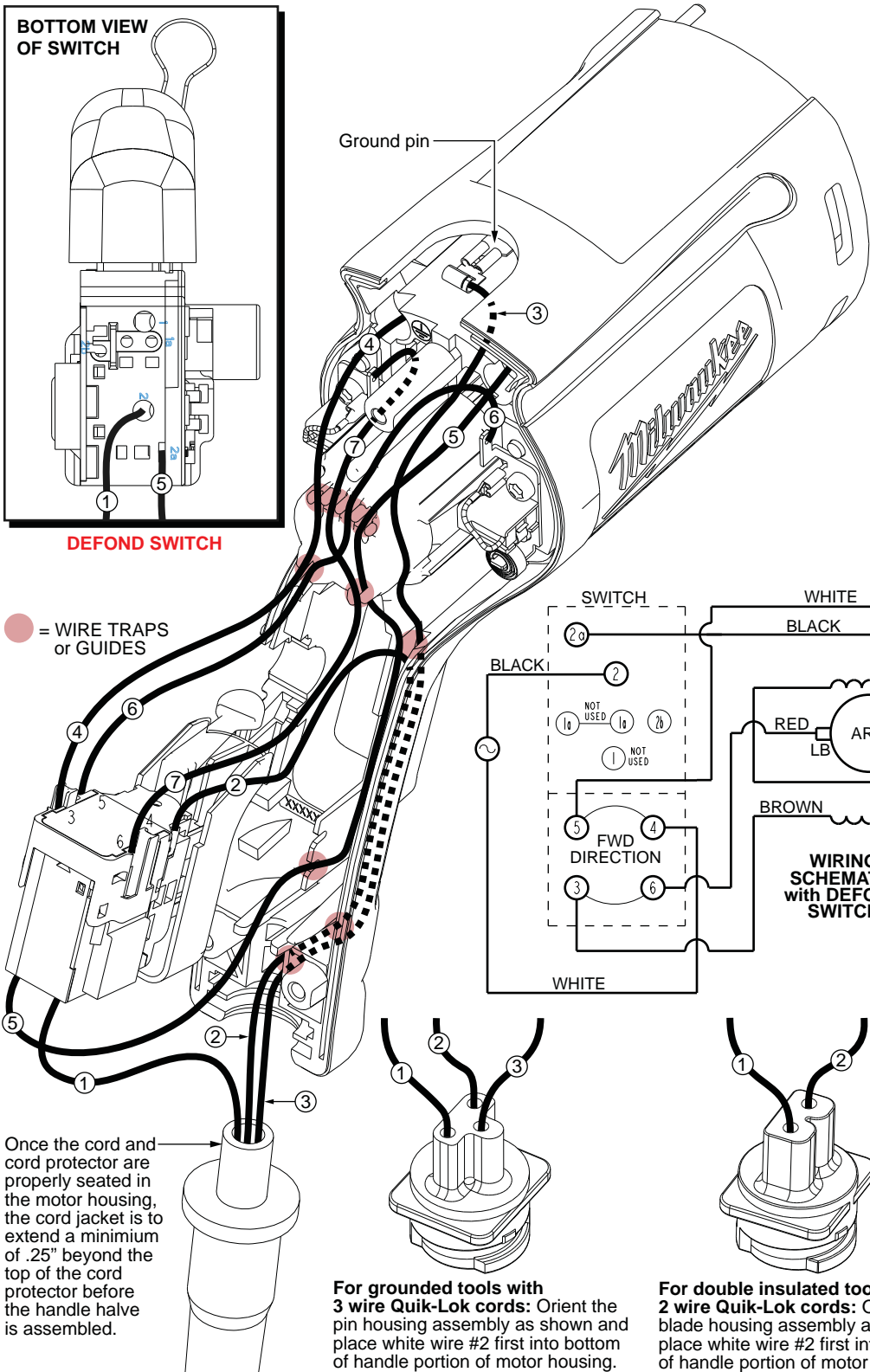
**FIG. NOTES:**

- 4,43 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
- 5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.

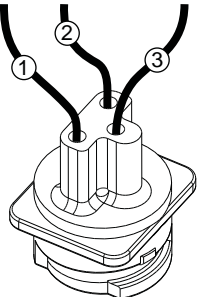
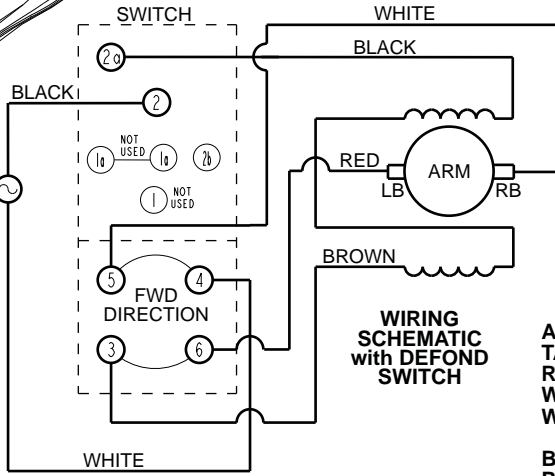


**DEFOND SWITCH**

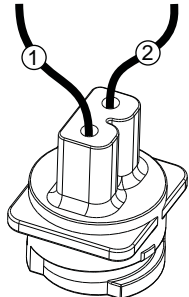
● = WIRE TRAPS or GUIDES



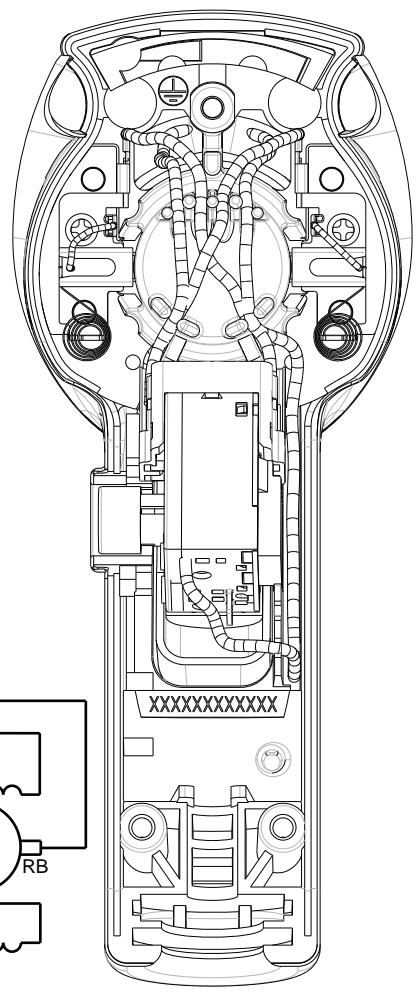
Once the cord and cord protector are properly seated in the motor housing, the cord jacket is to extend a minimum of .25" beyond the top of the cord protector before the handle half is assembled.



**For grounded tools with 3 wire Quik-Lok cords:** Orient the pin housing assembly as shown and place white wire #2 first into bottom of handle portion of motor housing.



**For double insulated tools with 2 wire Quik-Lok cords:** Orient the blade housing assembly as shown and place white wire #2 first into the bottom of handle portion of motor housing.



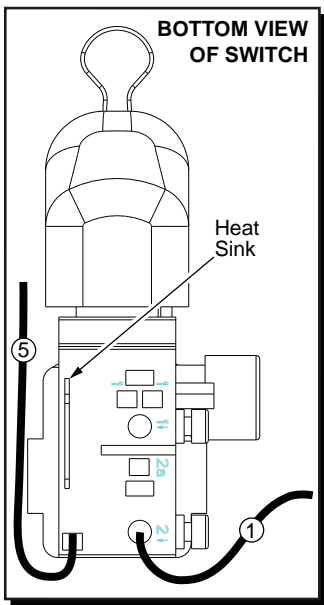
AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.

FOR DOUBLE INSULATED TOOLS DISREGARD GREEN GROUND WIRE #3 AND GROUND PIN.

**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.



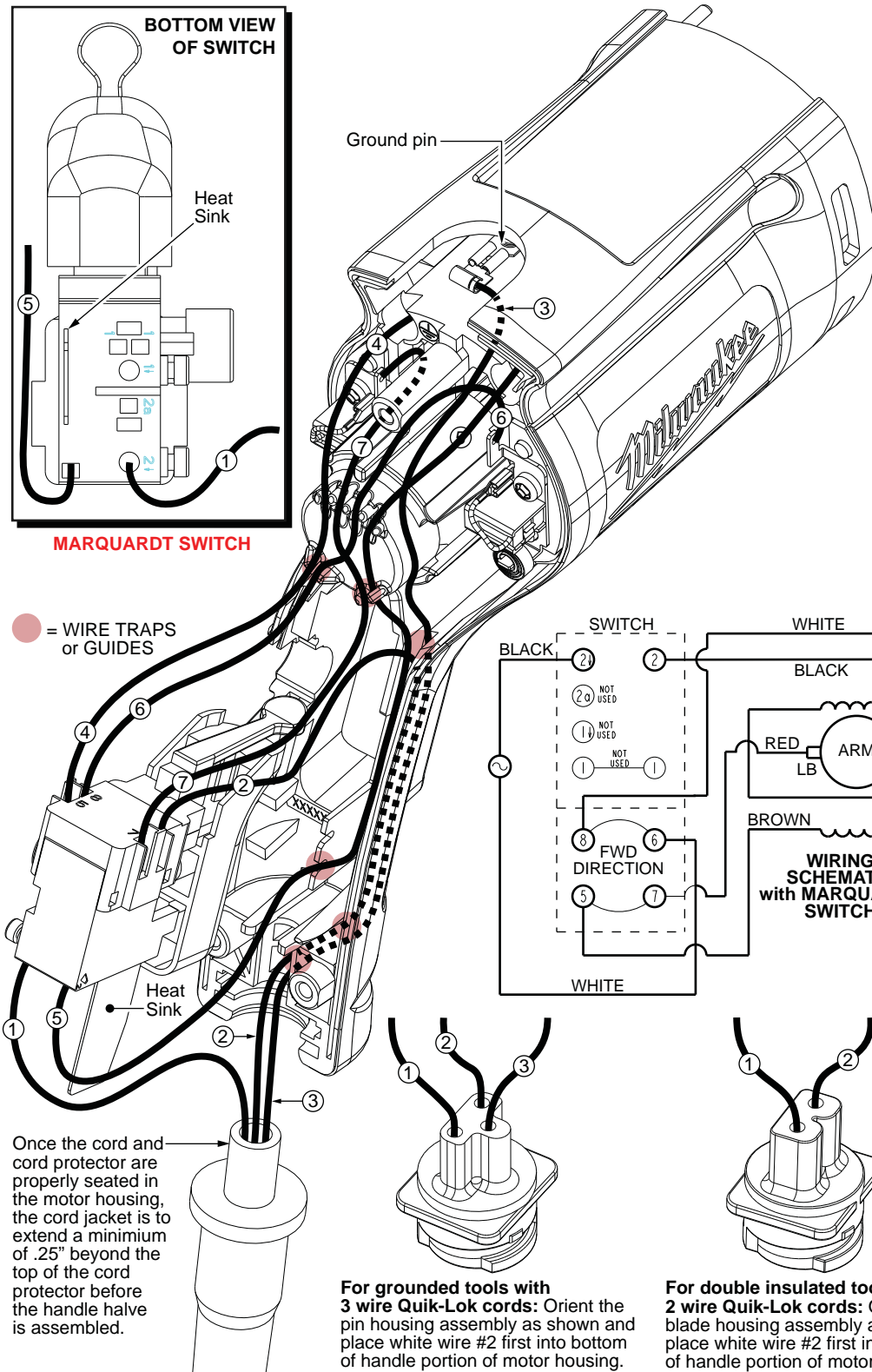
**BOTTOM VIEW OF SWITCH**

Heat Sink

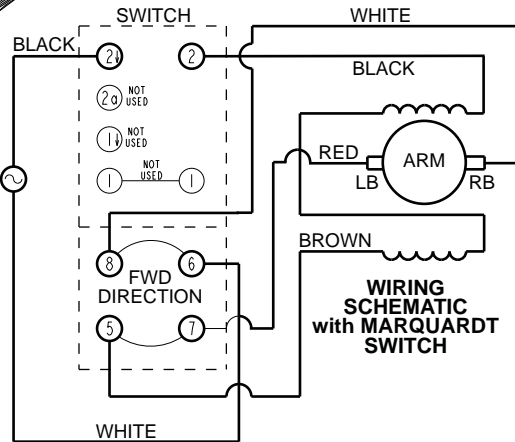
**MARQUARDT SWITCH**

Ground pin

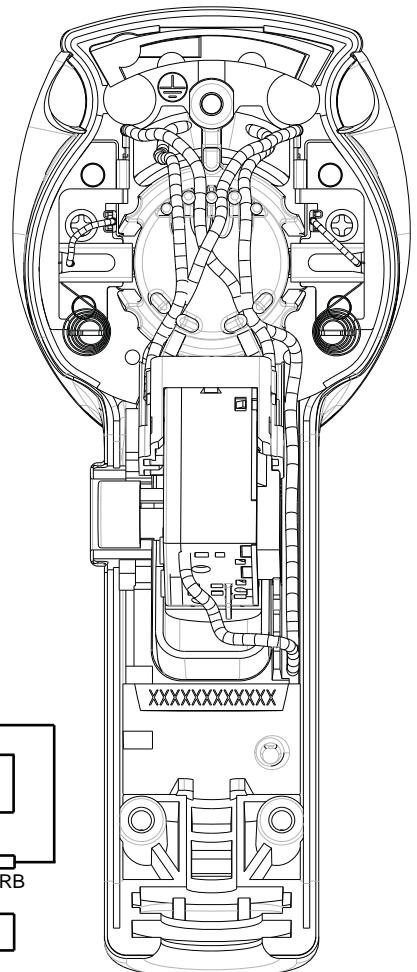
● = WIRE TRAPS or GUIDES



Heat Sink



**WIRING SCHEMATIC with MARQUARDT SWITCH**

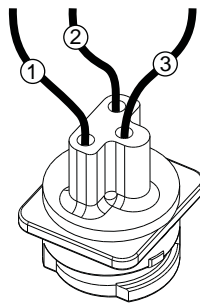


AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

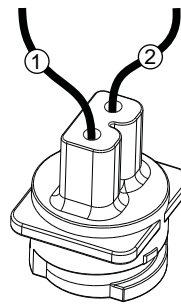
BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.

FOR DOUBLE INSULATED TOOLS DISREGARD GREEN WIRE #3 AND GROUND PIN.

Once the cord and cord protector are properly seated in the motor housing, the cord jacket is to extend a minimum of .25" beyond the top of the cord protector before the handle half is assembled.



**For grounded tools with 3 wire Quik-Lok cords:** Orient the pin housing assembly as shown and place white wire #2 first into bottom of handle portion of motor housing.



**For double insulated tools with 2 wire Quik-Lok cords:** Orient the blade housing assembly as shown and place white wire #2 first into the bottom of handle portion of motor housing.

**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.



# SERVICE PARTS LIST

**BULLETIN NO.**  
**54-06-2878**

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN 54-06-2877
<b>3/8" PISTOL GRIP DRILL</b>		
CATALOG NO. <b>0201-20</b>	STARTING SERIAL NO. <b>067D</b>	WIRING INSTRUCTION <b>See Pages 2 &amp; 3</b>

**EXAMPLE:**  
Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

★ = Part number change from previous service parts list.

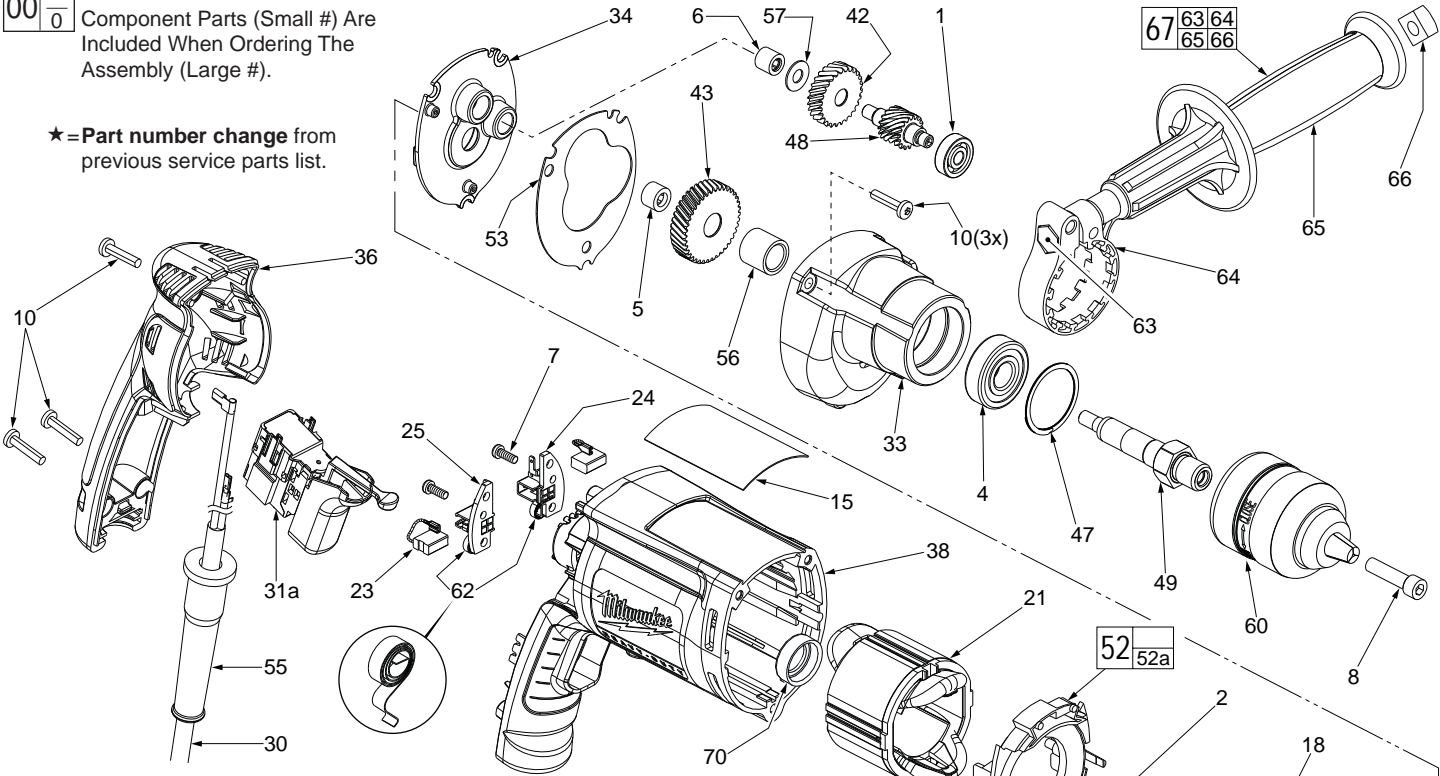


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	02-04-0640	Ball Bearing	(1)
2	02-04-0645	Ball Bearing	(1)
3	02-04-0852	Ball Bearing	(1)
4	02-04-1229	Ball Bearing	(1)
5	02-50-1611	Needle Bearing	(1)
6	02-50-2400	Needle Bearing	(1)
7	05-88-1610	M3.5 x 10 Pan Hd. Plastite T-10	(2)
8	45-04-0750	Chuck Retaining Screw	(1)
10	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)
15	12-99-2565	Service Nameplate	(1)
18	16-10-2215	Armature	(1)
21	18-07-7210	Field	(1)
23	22-18-1310	Brush Assembly	(2)
24	22-20-0090	Left Brush Holder	(1)
25	22-20-0095	Right Brush Holder	(1)
30	22-64-6510	Cord Set	(1)
31a	23-66-2605	Switch (Defond) See page 2 wiring	(1)
31b	23-66-2585	Switch (Marquardt) See page 3 wiring	(1)
33	28-14-2390	Gearcase	(1)
34	28-28-2320	Diaphragm	(1)
36	31-15-2010	Handle Halve	(1)
★ 38	31-50-0528	Motor Housing	(1)
42	32-40-0100	Intermediate Gear	(1)
43	32-75-0115	Spindle Gear	(1)
47	34-80-2300	Retaining Ring	(1)
48	36-66-0125	Intermediate Shaft	(1)
49	38-50-5750	Spindle	(1)
52	42-14-0460	Baffle Assembly	(1)
52a	45-30-0030	Slug (Not shown)	(2)
53	43-44-0985	Gasket	(1)
55	44-76-0210	Cord Protector	(1)
56	45-36-1095	Spindle Spacer	(1)
57	45-88-7990	Thrust Washer	(1)
60	48-66-1530	3/8" Two Sleeve 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)
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)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
★ 70	43-86-0125	Bearing Cup	(1)
	23-94-0490	White Leadwire Assy. (See pages 2 & 3)	(1)
	23-94-0495	Red Leadwire Assy. (See pages 2 & 3)	(1)
	31-53-0205	Lock Button Plug (Not Shown)	(1)

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

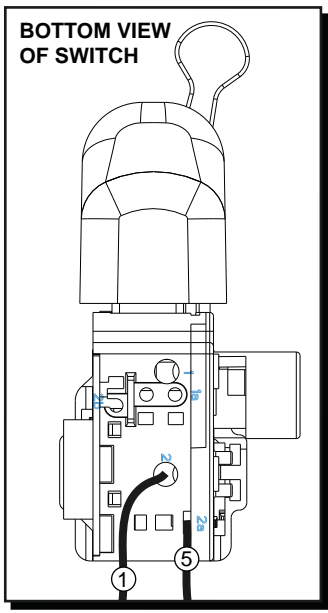
- Place 5 gm. (.02 oz.) of grease on top of the inserted intermediate ball bearing (1) and on the intermediate pinion (48).

- 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.**

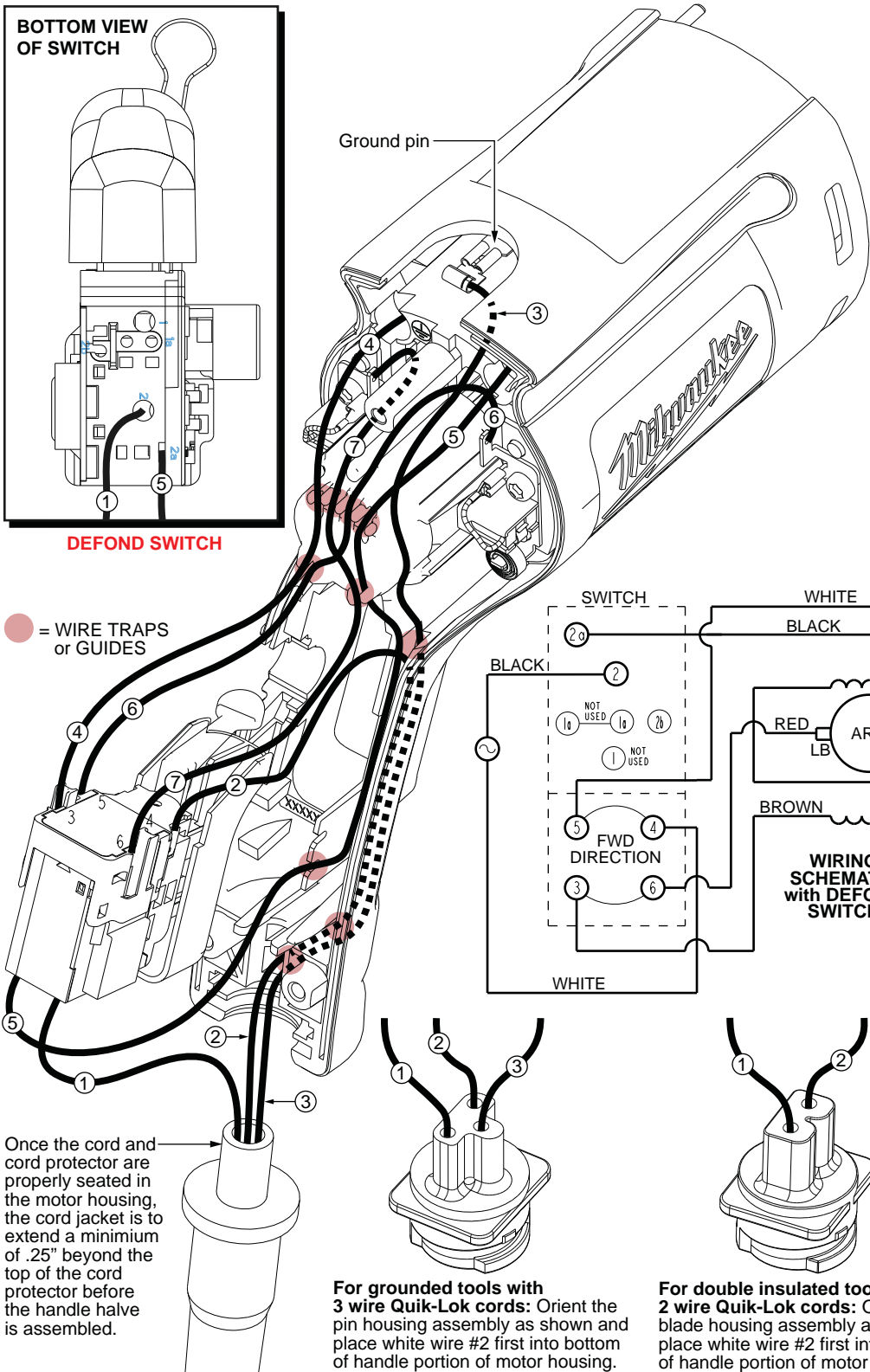
**FIG. NOTES:**

- 4,43 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
- 5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.

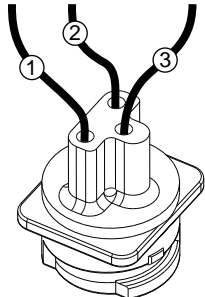


**DEFOND SWITCH**

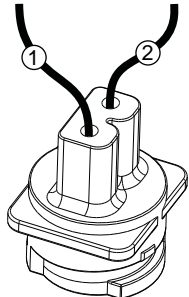
● = WIRE TRAPS or GUIDES



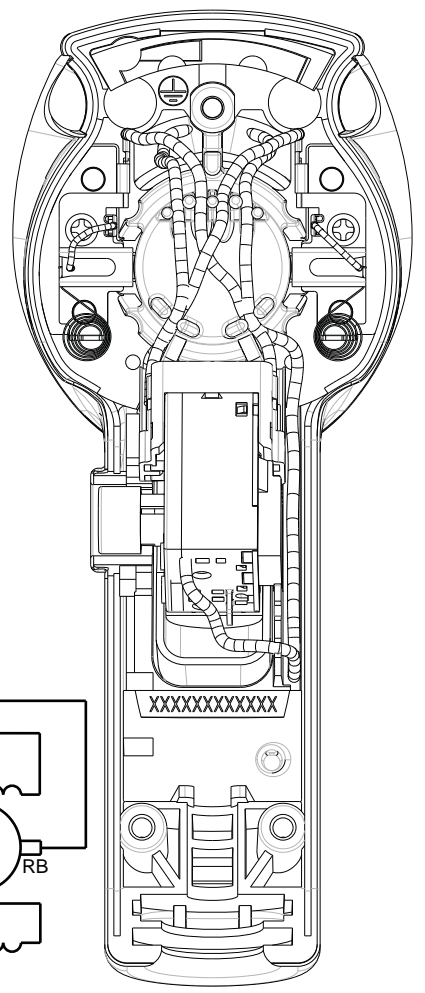
Once the cord and cord protector are properly seated in the motor housing, the cord jacket is to extend a minimum of .25" beyond the top of the cord protector before the handle half is assembled.



**For grounded tools with 3 wire Quik-Lok cords:** Orient the pin housing assembly as shown and place white wire #2 first into bottom of handle portion of motor housing.



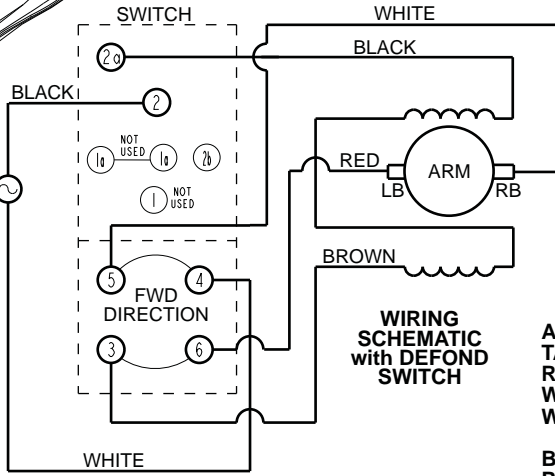
**For double insulated tools with 2 wire Quik-Lok cords:** Orient the blade housing assembly as shown and place white wire #2 first into the bottom of handle portion of motor housing.



AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

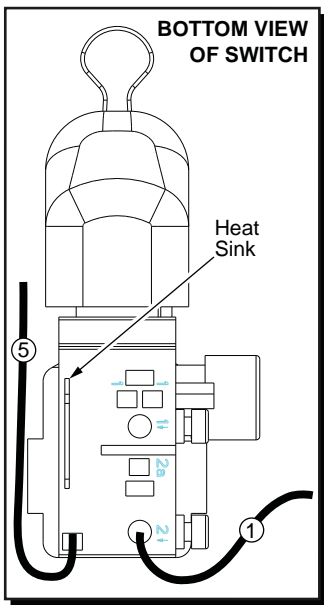
BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.

FOR DOUBLE INSULATED TOOLS DISREGARD GREEN GROUND WIRE #3 AND GROUND PIN.



**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.

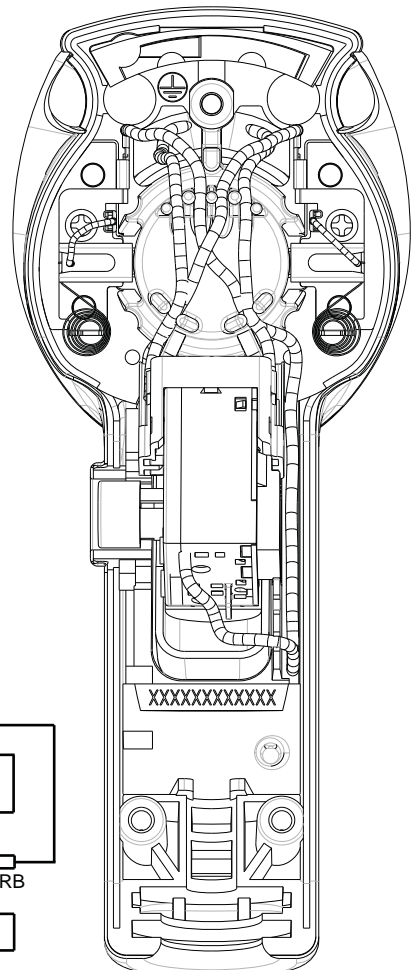


**BOTTOM VIEW OF SWITCH**

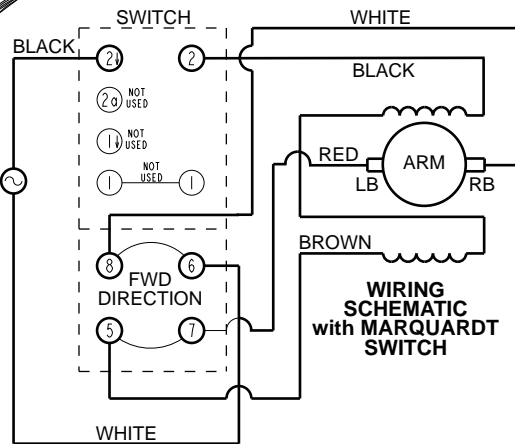
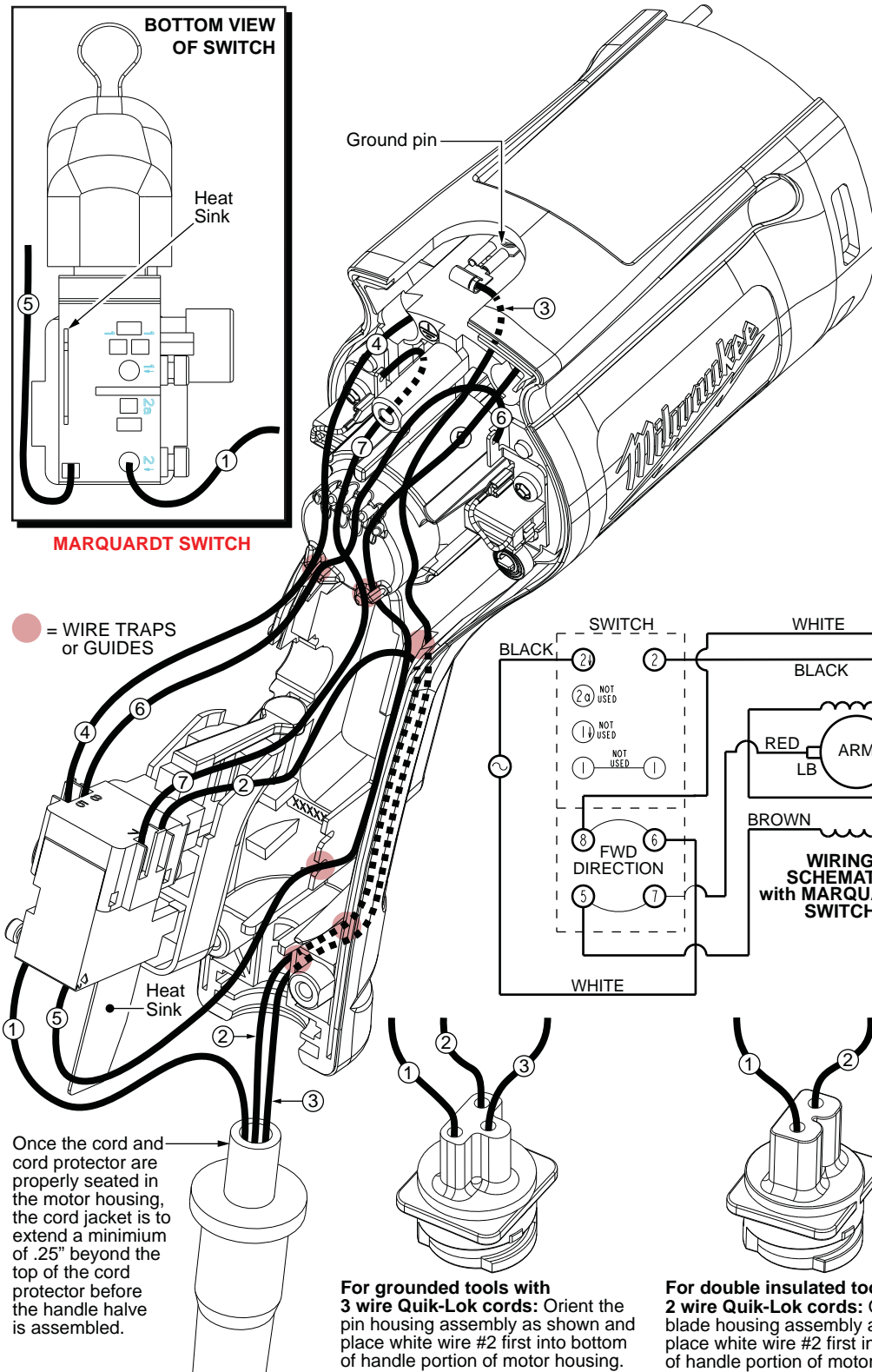
Heat Sink

**MARQUARDT SWITCH**

Ground pin



● = WIRE TRAPS or GUIDES

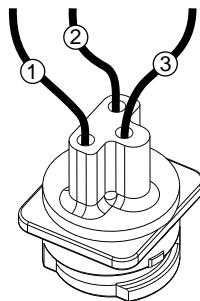


AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

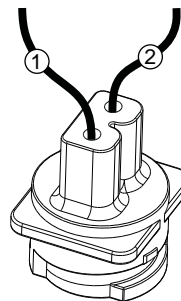
BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.

FOR DOUBLE INSULATED TOOLS DISREGARD GREEN WIRE #3 AND GROUND PIN.

Once the cord and cord protector are properly seated in the motor housing, the cord jacket is to extend a minimum of .25" beyond the top of the cord protector before the handle half is assembled.



**For grounded tools with 3 wire Quik-Lok cords:** Orient the pin housing assembly as shown and place white wire #2 first into bottom of handle portion of motor housing.



**For double insulated tools with 2 wire Quik-Lok cords:** Orient the blade housing assembly as shown and place white wire #2 first into the bottom of handle portion of motor housing.

**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**