

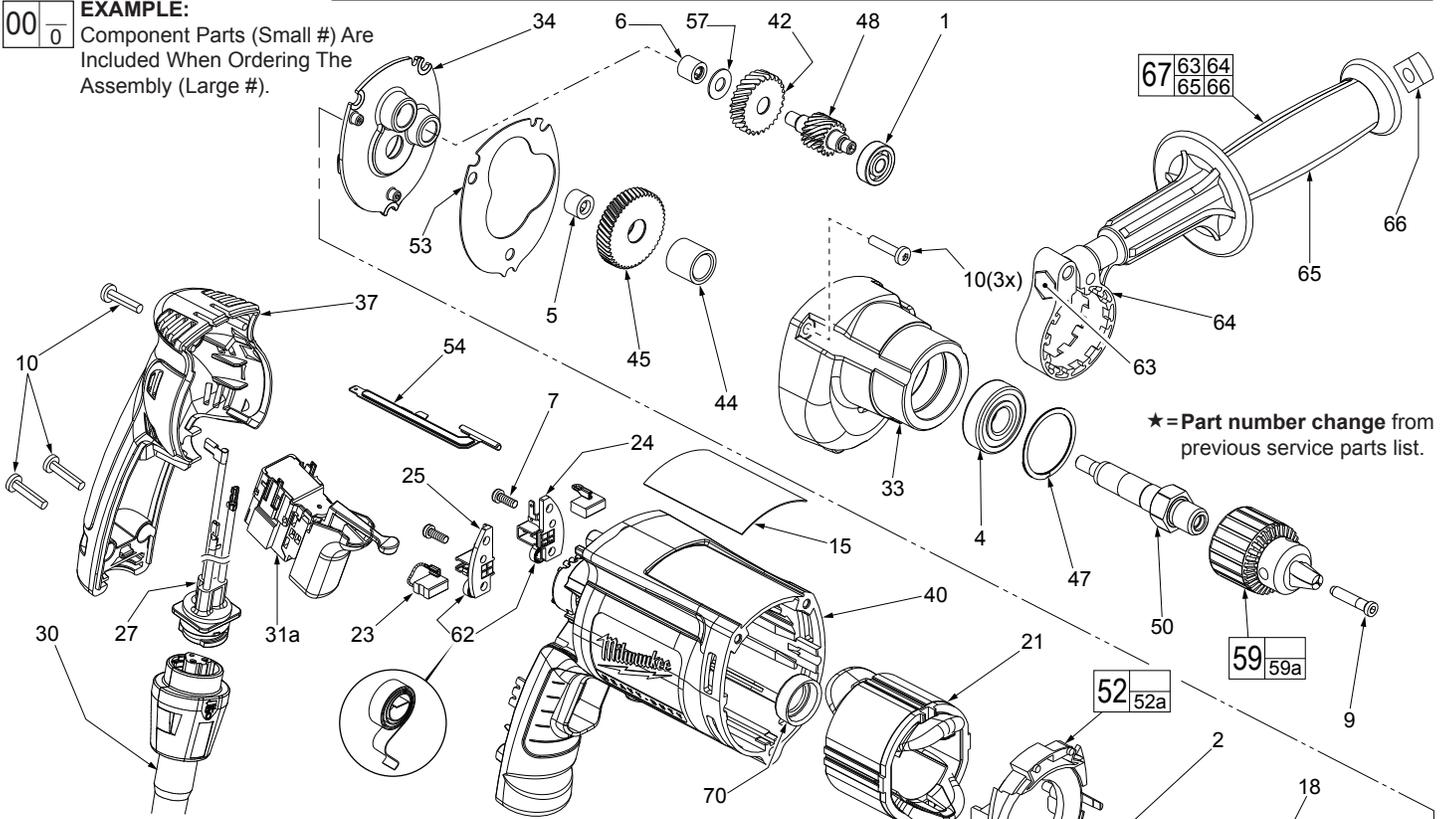


SERVICE PARTS LIST

BULLETIN NO.
54-06-2803

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
1/4" PISTOL GRIP DRILL		54-06-2802	Sept. 2013
CATALOG NO.	0100-20	WIRING INSTRUCTION See Pages 2 & 3	
STARTING SERIAL NO.	058D		

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)
9	45-04-0750	Chuck 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)
22	22-18-1310	Brush Assembly	(2)
24	22-20-0090	Left Brush Holder	(1)
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 wiring	(1)
33	28-14-2390	Gearcase	(1)
34	28-28-2320	Diaphragm	(1)
37	31-15-2030	Handle Halve	(1)
★ 40	31-50-0525	Motor Housing	(1)
42	32-40-0100	Intermediate Gear	(1)
44	45-36-1095	Spindle Spacer	(1)
45	32-75-0115	Spindle Gear	(1)
47	34-80-2300	Retaining Ring	(1)
48	36-66-0125	Intermediate Shaft	(1)
50	38-50-5750	Output Spindle	(1)
52	42-14-0460	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	48-66-0070	1/4" Chuck	(1)
59a	48-66-3200	Chuck Key (Not Shown)	(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)

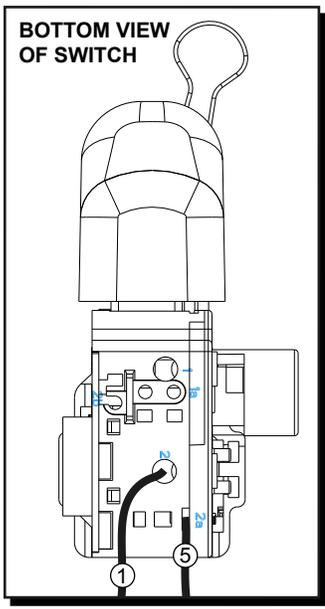
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
67	49-15-0265	Side Handle Assembly	(1)
68	48-66-4080	Chuck Key Holder (Not Shown)	(1)
★ 70	43-86-0125	Bearing Cup	(1)
	23-94-0490	White Leadwire Assy. (See pages 2 & 3)	(1)
	23-94-0495	Red Leadwire Assy. (See pages 2 & 3)	(1)
	31-53-0205	Lock Button Plug (Not 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.

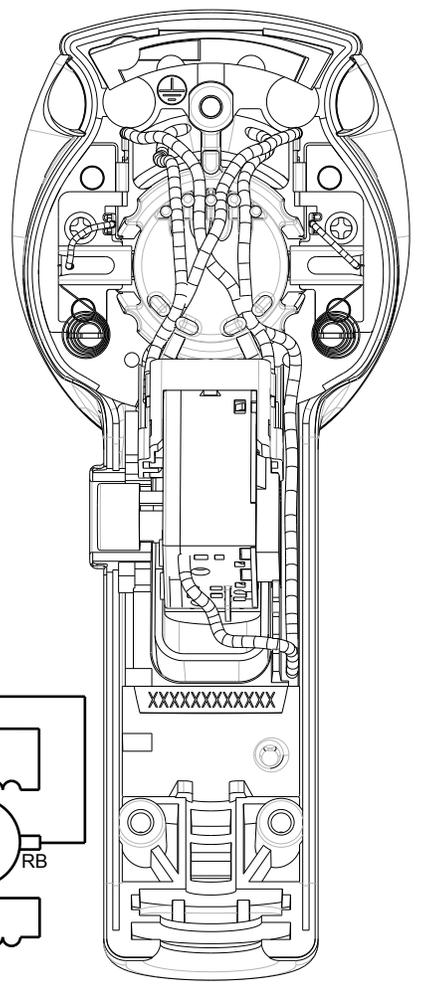
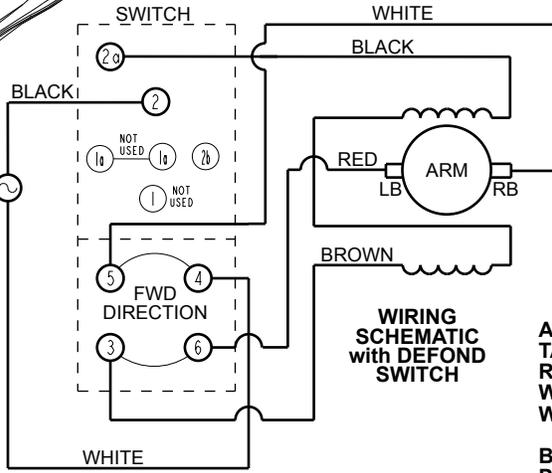
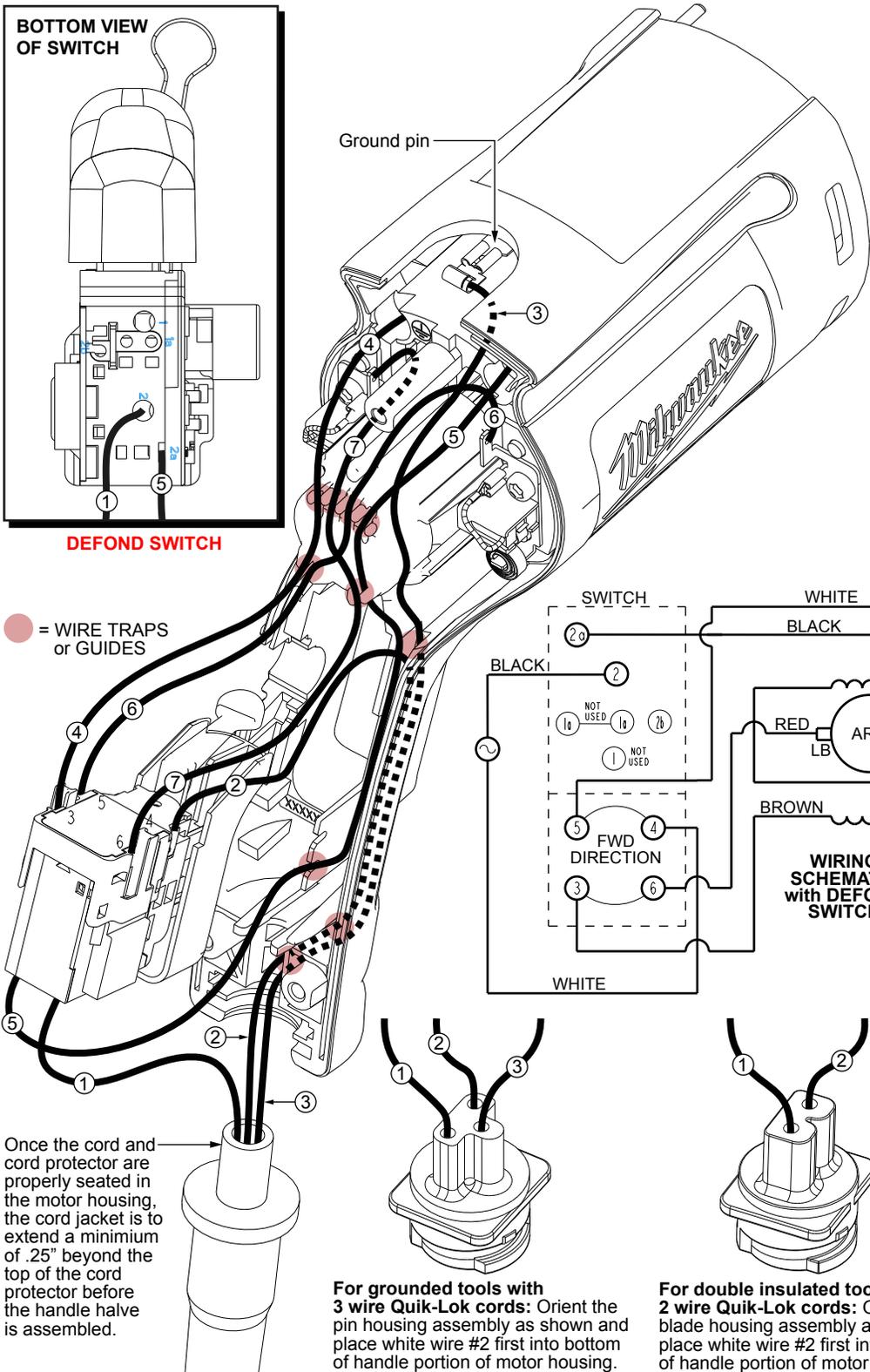
FIG. NOTES:
4,45 Support the output ball bearing inside the gearcase before pressing off the spindle gear.
5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.



BOTTOM VIEW OF SWITCH

DEFOND SWITCH

● = WIRE TRAPS or GUIDES

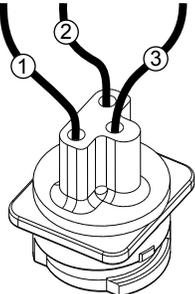


AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

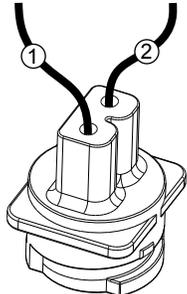
BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.

FOR DOUBLE INSULATED TOOLS DISREGARD GREEN GROUND 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.



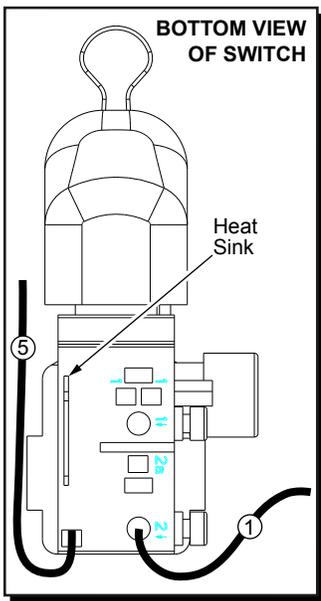
For grounded tools with 3 wire Quik-Lok cords: Orient the pin housing assembly as shown and place white wire #2 first into bottom of handle portion of motor housing.



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 #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.

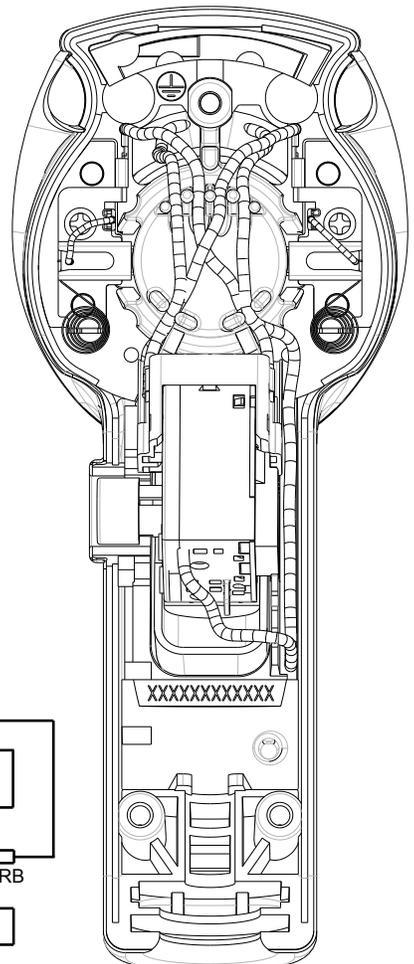


BOTTOM VIEW OF SWITCH

Heat Sink

MARQUARDT SWITCH

Ground pin

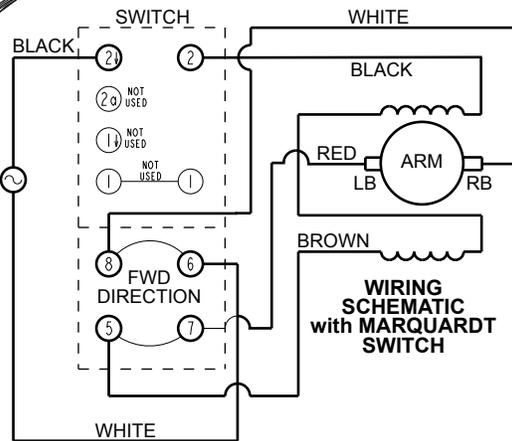


AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

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

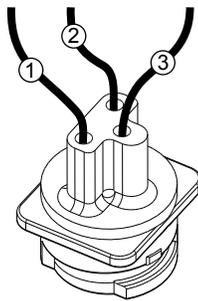
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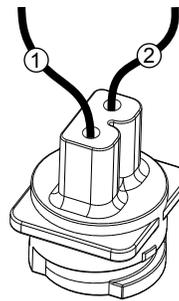


WIRING SCHEMATIC with MARQUARDT SWITCH

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.