



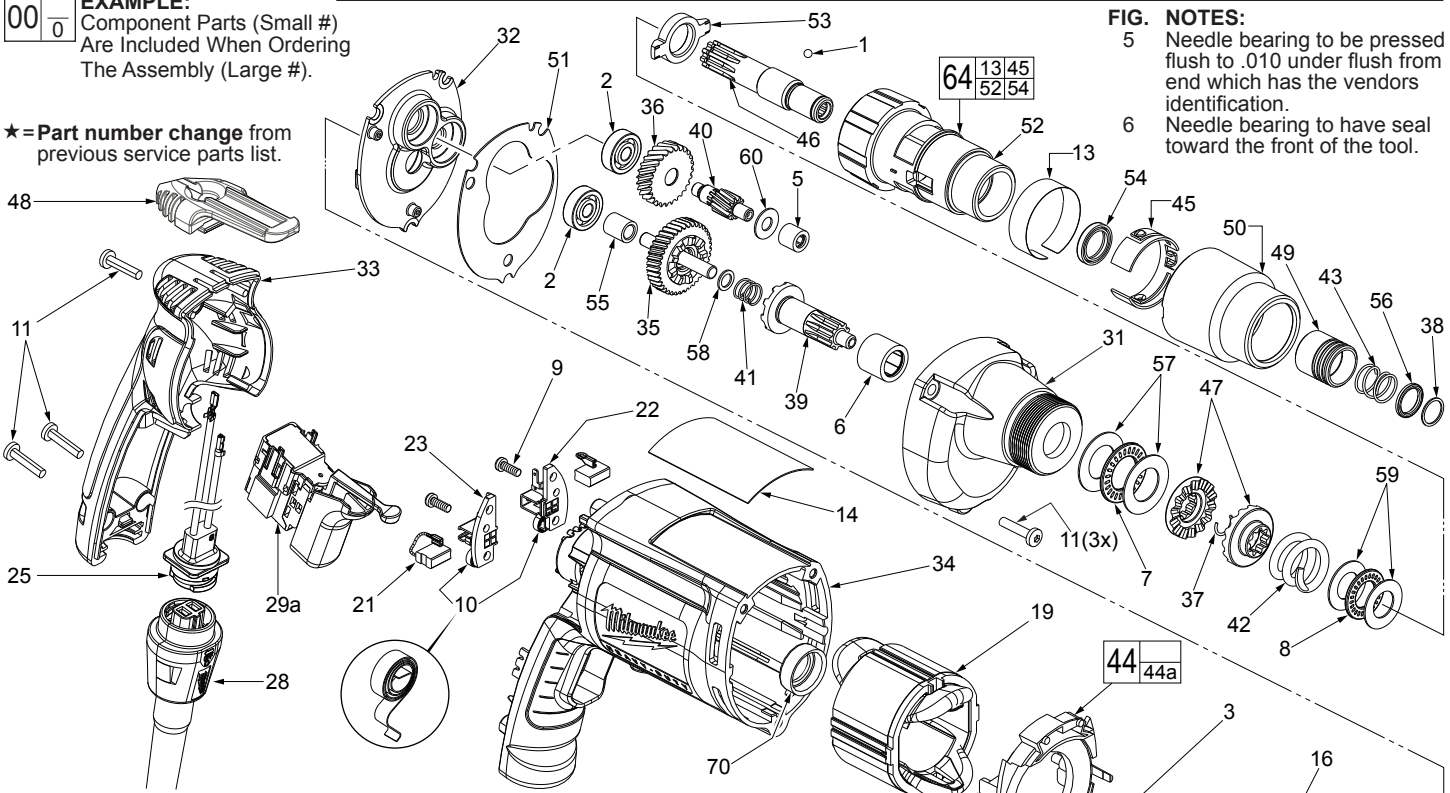
# SERVICE PARTS LIST

**BULLETIN NO.**  
**54-42-6003**

|  |                                 |  |                    |
|--|---------------------------------|--|--------------------|
| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS |                                 | REVISED BULLETIN<br>54-42-6002                   | DATE<br>Sept. 2013 |
| <b>ADJUSTABLE TORQUE SCREWDRIVER</b>                   |                                 |  |                    |
| CATALOG NO. <b>6580-20</b>                             | STARTING SERIAL NO. <b>098D</b> | WIRING INSTRUCTION<br><b>See Pages 3 &amp; 4</b> |                    |

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

★ = Part number change from previous service parts list.



**FIG. NOTES:**  
5 Needle bearing to be pressed flush to .010 under flush from end which has the vendors identification.  
6 Needle bearing to have seal toward the front of the tool.

| FIG. | PART NO.   | DESCRIPTION OF PART                   | NO. REQ. |
|------|------------|---------------------------------------|----------|
| 1    | 02-02-0130 | Steel Ball                            | (1)      |
| 2    | 02-04-0640 | Ball Bearing                          | (2)      |
| 3    | 02-04-0645 | Ball Bearing                          | (1)      |
| 4    | 02-04-0852 | Ball Bearing                          | (1)      |
| 5    | 02-50-2400 | Needle Bearing                        | (1)      |
| 6    | 02-50-3245 | Needle Roller Bearing                 | (1)      |
| 7    | 02-80-1200 | Thrust Needle Bearing                 | (1)      |
| 8    | 02-80-6020 | Thrust Bearing                        | (1)      |
| 9    | 05-88-1610 | M3.5 x 10 Pan Hd. Plastite T-10 Scr   | (2)      |
| 10   | 23-52-1610 | Brush Spring                          | (2)      |
| 11   | 06-82-7275 | 7-18 x 3/4 Slotted Plastite Torx T-20 | (6)      |
| 13   | 10-79-3100 | Torque Setting Label                  | (1)      |
| 14   | 12-99-2665 | Service Nameplate                     | (1)      |
| 16   | 16-10-2205 | Armature                              | (1)      |
| 19   | 18-07-7210 | Field                                 | (1)      |
| 21   | 22-18-1310 | Brush Assembly                        | (2)      |
| 22   | 22-20-0090 | Left Brush Holder                     | (1)      |
| 23   | 22-20-0095 | Right Brush Holder                    | (1)      |
| 25   | 22-56-1000 | Blade Housing Assembly                | (1)      |
| 28   | 48-76-5010 | Quik-Lok Cord Set                     | (1)      |
| 29a  | 23-66-2605 | Defond Switch (See page 3 wiring)     | (1)      |
| 29b  | 23-66-2585 | Marquardt Switch (See page 4 wiring)  | (1)      |
| 31   | 28-14-2405 | Gearcase                              | (1)      |
| 32   | 28-28-2315 | Diaphragm                             | (1)      |
| 33   | 31-15-2030 | Handle Halve                          | (1)      |
| ★34  | 31-50-0524 | Motor Housing                         | (1)      |
| 35   | 32-10-4055 | Clutch Gear Assembly                  | (1)      |
| 36   | 32-40-0100 | Intermediate Gear                     | (1)      |
| 37   | 34-60-0545 | Retaining Ring                        | (1)      |
| 38   | 34-60-2390 | Retaining Ring                        | (1)      |
| 39   | 36-14-0665 | Clutch Shaft Assembly                 | (1)      |
| 40   | 36-66-0105 | Intermediate Shaft                    | (1)      |
| 41   | 40-50-6600 | Separator Spring                      | (1)      |
| 42   | 40-50-8000 | Clutch Spring                         | (1)      |
| 43   | 40-50-8005 | Compression Spring                    | (1)      |
| 44   | 42-14-0460 | Baffle Assembly                       | (1)      |
| 44a  | 45-30-0030 | Slug (Not Shown)                      | (2)      |
| 45   | 42-16-0140 | Adjustment Band                       | (1)      |
| 46   | 42-66-0676 | Chuck Shaft                           | (1)      |
| 47   | 42-70-5016 | Drive Clutch                          | (2)      |
| 48   | 42-70-5280 | Belt Clip                             | (1)      |
| 49   | 42-76-0390 | Locking Collar                        | (1)      |
| 50   | 42-76-0460 | Adjustment Collar                     | (1)      |
| 51   | 43-44-0985 | Gasket                                | (1)      |
| 52   | 43-76-0550 | Clutch Housing                        | (1)      |
| 53   | 44-90-4280 | Adjustment Ring                       | (1)      |

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

| FIG. | PART NO.   | DESCRIPTION OF PART                    | NO. REQ. |
|------|------------|--|----------|
| 54   | 45-06-0106 | Oil Seal                               | (1)      |
| 55   | 45-36-1280 | Spacer                                 | (1)      |
| 56   | 45-36-1300 | Spacer                                 | (1)      |
| 57   | 45-88-0510 | Thrust Bearing Washer                  | (2)      |
| 58   | 45-88-0712 | Thrust Washer                          | (1)      |
| 59   | 45-88-7150 | Thrust Washer                          | (2)      |
| 60   | 45-88-7990 | Thrust Washer                          | (1)      |
| 64   | 14-08-0190 | Clutch Housing Assembly                | (1)      |
| ★70  | 43-86-0125 | Bearing Cup                            | (1)      |
|      | 23-94-0490 | White Leadwire Assy. (See pages 3 & 4) | (1)      |
|      | 23-94-0495 | Red Leadwire Assy. (See pages 3 & 4)   | (1)      |

**LUBRICATION (Type "L" Grease, No. 49-08-4170)**  
• Place 1.8 gm. (.06 oz.) of grease on the drive clutch surfaces (47).

• Equally distribute 1.8 gm. (.06 oz.) of grease on the thrust bearings (7 and 8), oil seal (54) and the tabs of the adjustment ring (53).

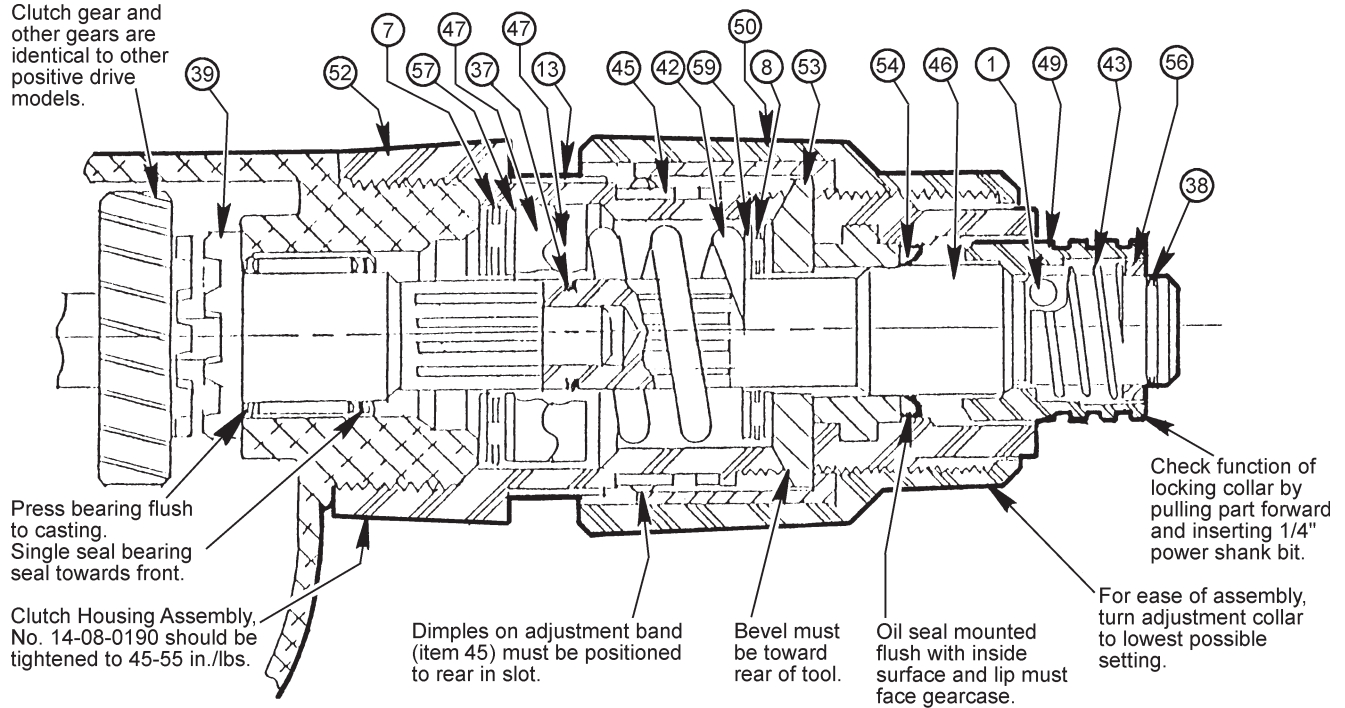
**LUBRICATION (Type "Y" Grease, No. 49-08-5270)**  
• Equally distribute 1.5 gm. (.05 oz.) of grease on the lugs of the clutch gear (35), clutch shaft (39), separator spring (41) and the thrust washer (58).

• In the gearcase (31), place 3.6 gm. (.13 oz.) of grease in the counterbore above the inserted intermediate needle bearing (5).

• Place 13 gm. (.46 oz.) of grease at the armature pinion location in the gearcase (31) and fill to the top of the intermediate gear (36).

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

Clutch gear and other gears are identical to other positive drive models.



**Lubrication**

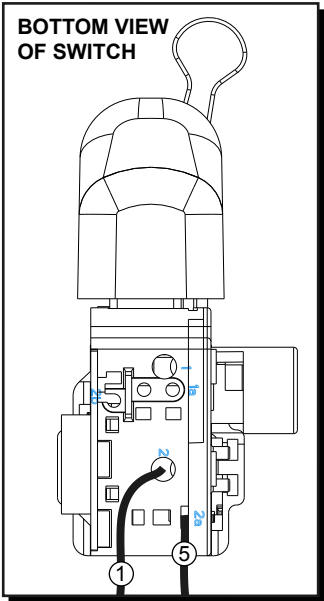
Drive clutches must slide back and forth freely on shaft splines. Defective splines that stick will not function properly.

Apply 1/16 oz. Type "L" grease, No. 49-08-4170, on clutch faces of drive clutch (#47). Apply a small amount of "L" grease on thrust bearings (#7 and #8), oil seal lip (#54) and tabs of adjustment ring (#53).

| ORDER OF ASSEMBLY                         | ITEM NUMBER | PART NUMBER | DESCRIPTION  |
|---|-------------|-------------|--|
| Clutch Housing Assembly<br>No. 14-08-0190 | 1           | 64          | 14-08-0190   |
|   | 2           | 54          | 45-06-0106   |
|   | 3           | 45          | 42-16-0140   |
|   | 4           | 13          | 10-79-3100   |
|   | 5           | 53          | 44-90-4280   |
|   | 6           | 46          | 42-66-0676   |
|   | 7           | 1           | 02-02-0130   |
|   | 8           | 49          | 42-76-0390   |
|   | 9           | 43          | 40-50-8005   |
|   | 10          | 56          | 45-36-1300   |
|   | 11          | 38          | 34-60-2390   |
|   | 12          | 59          | 45-88-7150   |
|   | 13          | 8           | 02-80-6020   |
|   | 14          | 42          | 40-50-8000   |
|   | 15          | 47          | 42-70-5016   |
|   | 16          | 37          | 34-60-0545   |
|   | 50          | 42-76-0460  | Adjustment Collar (Includes insert No. 43-84-0740)                                 |
|   | 39          | 36-14-0665  | Clutch Shaft Assembly  |
|   | 57          | 45-88-0510  | Thrust Bearing Washers (2 each)<br>(Place on each side of Item #7, Thrust Bearing) |
|   | 7           | 02-80-1200  | Thrust Bearing   |
|   | 47          | 42-70-5016  | Drive Clutch   |

Clutch Sub-Assembly

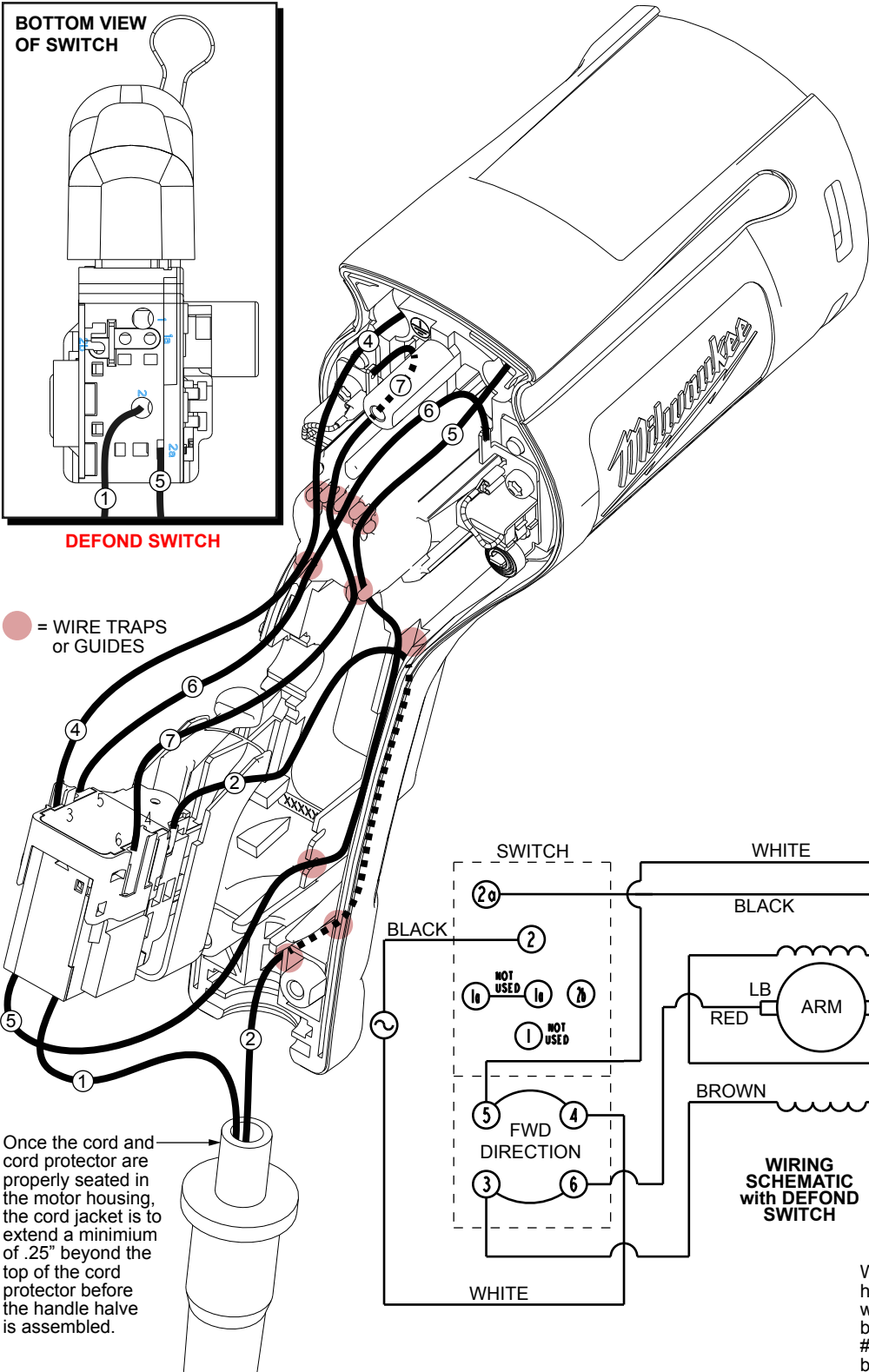
Not In Order Of Assembly



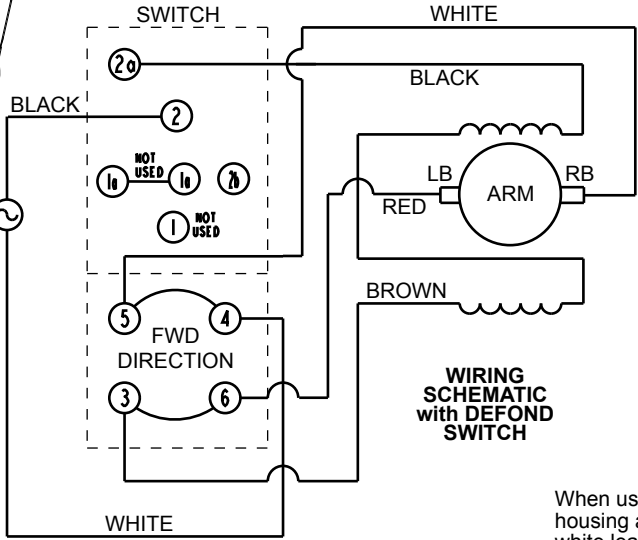
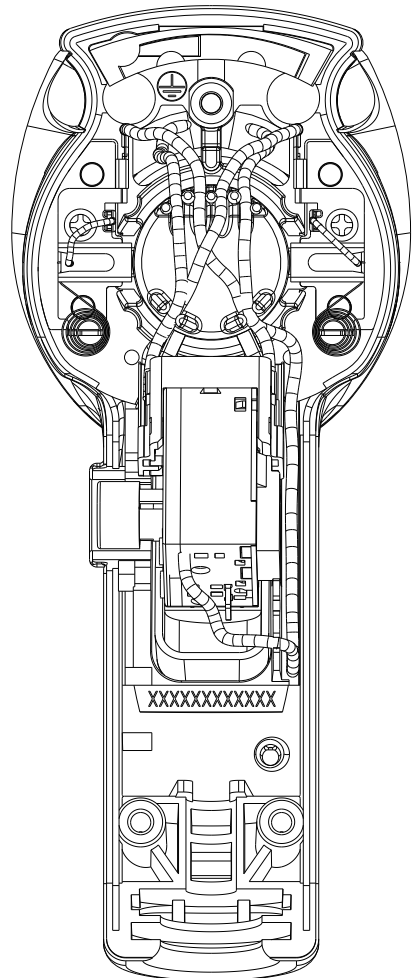
**BOTTOM VIEW OF SWITCH**

**DEFOND SWITCH**

● = WIRE TRAPS or GUIDES



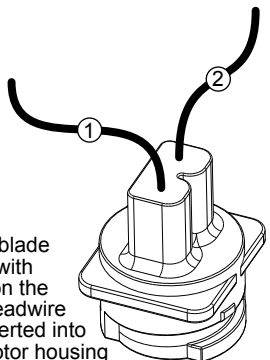
Once the cord and cord protector are properly seated in the motor housing, the cord jacket is to extend a minimum of .25" beyond the top of the cord protector before the handle half is assembled.



**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.**

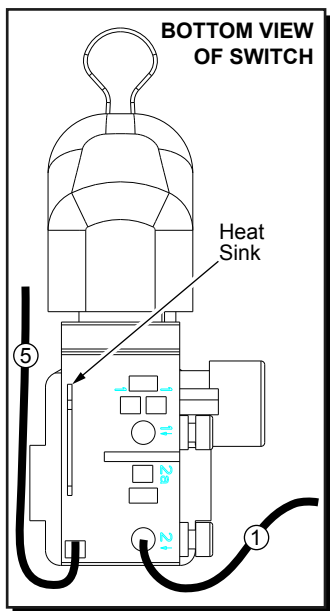
**WIRING SCHEMATIC with DEFOND SWITCH**



When used, orient blade housing assembly with white leadwire #2 on the bottom and black leadwire #1 on top when inserted into bottom cavity of motor housing

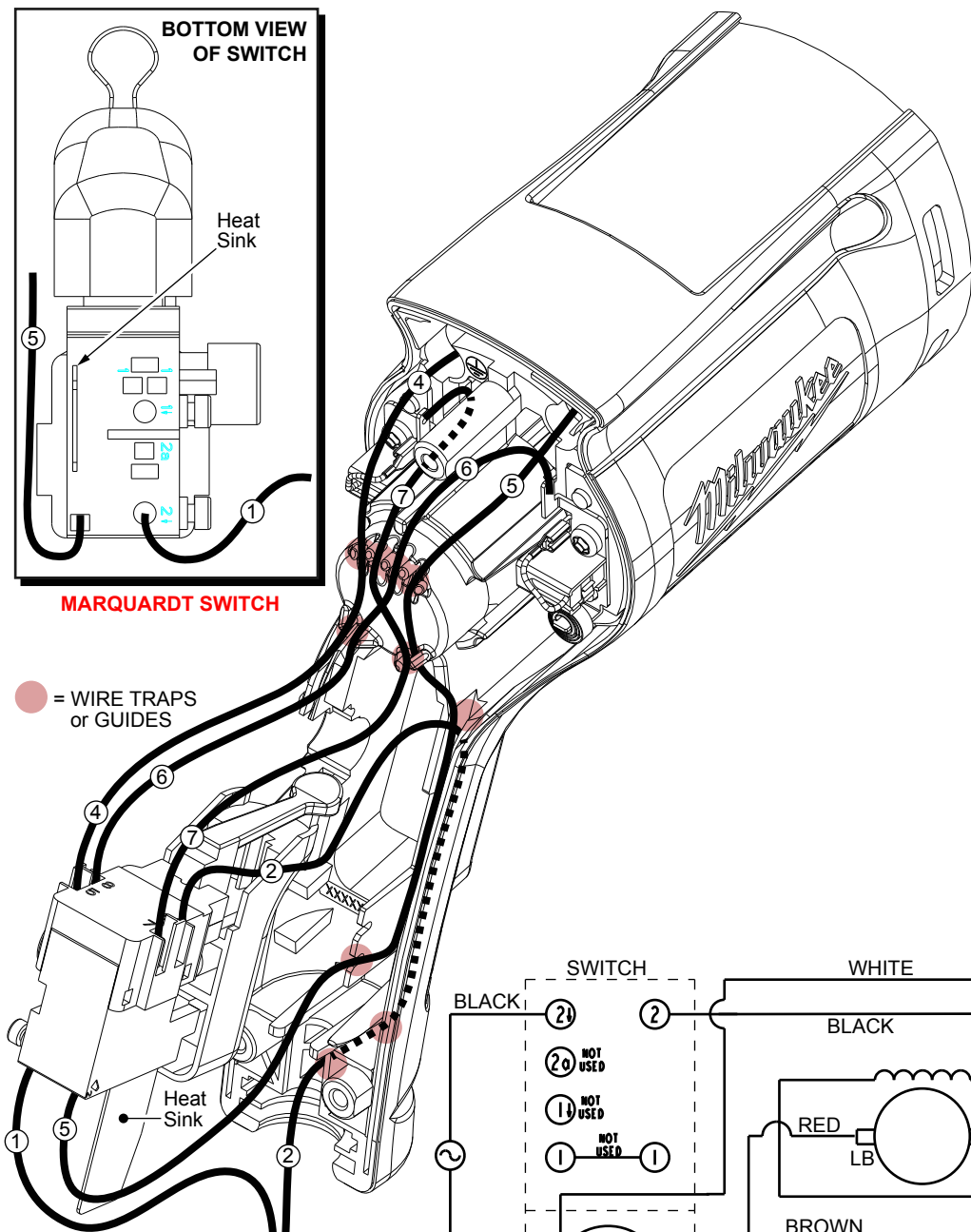
**WIRING SPECIFICATIONS**

| 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.    |
| 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.                      |

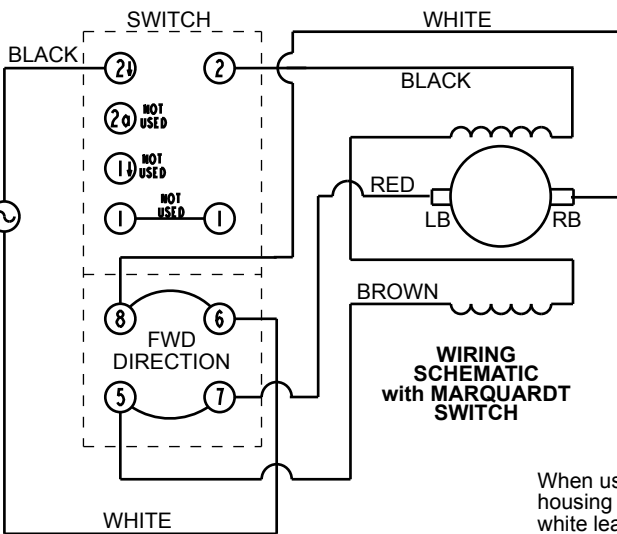
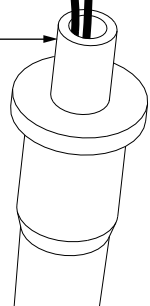


**MARQUARDT SWITCH**

● = WIRE TRAPS or GUIDES

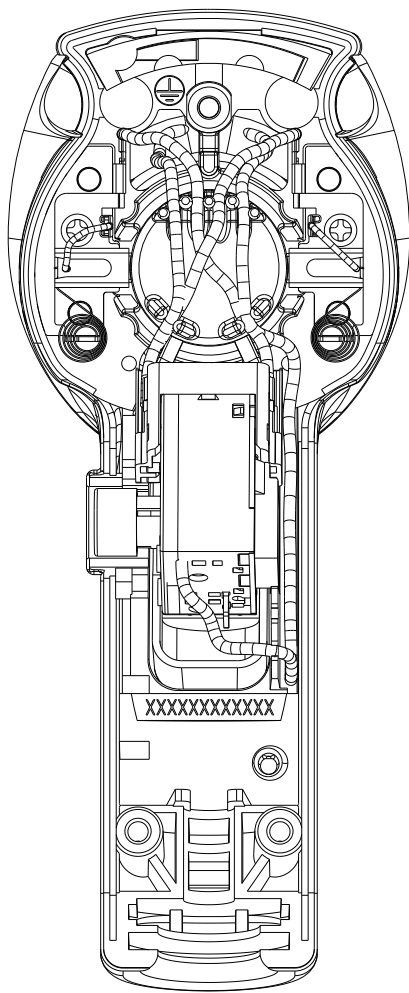


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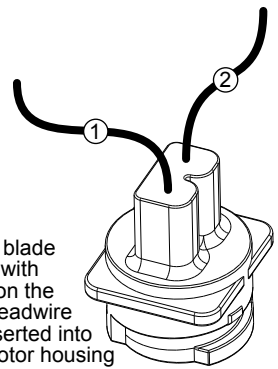


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**WIRING SPECIFICATIONS**

| 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.    |
| 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.                      |