

## SERVICE PARTS LIST

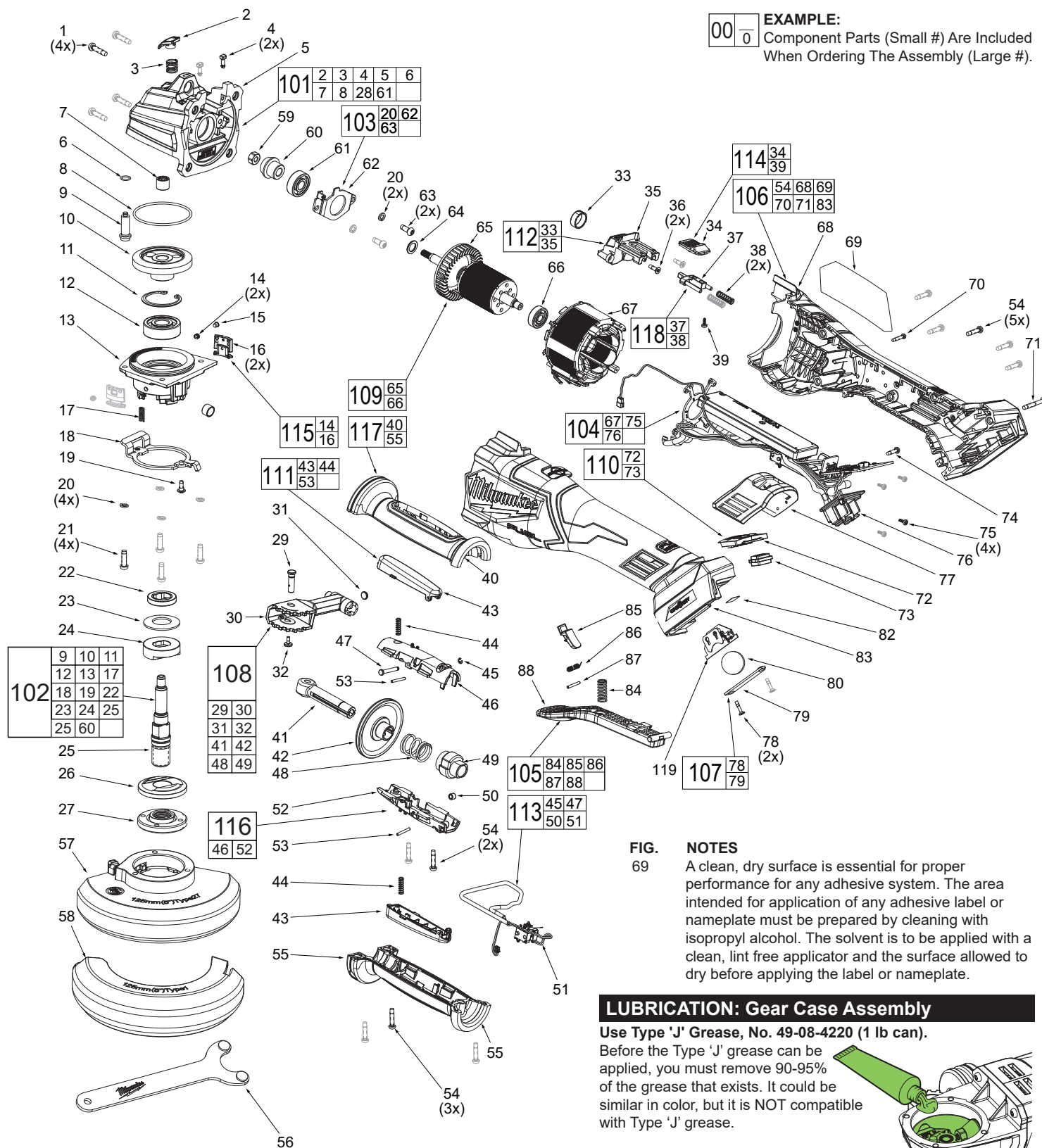
**BULLETIN NO.  
PN0009611**

|                                                        |                 |                                  |           |
|--------------------------------------------------------|-----------------|----------------------------------|-----------|
| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS |                 | REVISED BULLETIN                 | DATE      |
| M18 FUEL™ 6" Dual Trigger Braking Grinder              |                 |                                  | Jan. 2026 |
| CATALOG NO. 3676-20                                    | SERIAL NO. R59A | WIRING INSTRUCTION<br>See Page 3 |           |

**EXAMPLE:**

|    |   |
|----|---|
| 00 | 0 |
|----|---|

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



## FIG. NOTES

69 A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.

## LUBRICATION: Gear Case Assembly

**Use Type 'J' Grease, No. 49-08-4220 (1 lb can).**

Before the Type 'J' grease can be applied, you must remove 90-95% of the grease that exists. It could be similar in color, but it is NOT compatible with Type 'J' grease.

Put approximately 26g (0.92oz.) of grease in the gearcase cavity (5). Completely coat all the teeth of bevel pinion (60) and the surrounding area.

**Refer to the next page for the corresponding Parts List and Torque Specifications Chart.**

| FIG. | PART NO.   | DESCRIPTION OF PART                    | NO. REQ. | FIG. | PART NO.   | DESCRIPTION OF PART                        | NO. REQ. |
|------|------------|----------------------------------------|----------|------|------------|--------------------------------------------|----------|
| 1    | 05-88-1200 | M4 x 1.4mm Pan Hd. Torx T-20 Screw     | (4)      | 56   | 49-96-7215 | Wrench                                     | (1)      |
| 2    | -----      | Spindle Lock Button                    | (1)      | 57   | 28-41-0034 | Guard Hood Type 27                         | (1)      |
| 3    | -----      | Spindle Lock Spring                    | (1)      | 58   | 43-54-4020 | Guard Hood Type 1                          | (1)      |
| 4    | -----      | Handle Pivot Support Block             | (2)      | 59   | 05-55-0620 | M5 x 0.8mm Hex Nut                         | (1)      |
| 5    | -----      | Gear Case                              | (1)      | 60   | 32-60-0165 | Bevel Pinion                               | (1)      |
| 6    | -----      | O-Ring for Spindle Lock Pin            | (1)      | 61   | -----      | Ball Bearing                               | (1)      |
| 7    | -----      | Needle Bearing                         | (1)      | 62   | 44-86-2001 | Bearing Retainer                           | (1)      |
| 8    | -----      | Spindle Lock Pin                       | (1)      | 63   | 05-78-0105 | M4 x 0.7mm PH Torx T-20 Taptite Scr.       | (2)      |
| 9    | 34-40-0560 | O-Ring                                 | (1)      | 64   | 45-88-0406 | Plain Washer                               | (1)      |
| 10   | -----      | Bevel Gear                             | (1)      | 65   | -----      | Motor Armature 18V-DC                      | (1)      |
| 11   | -----      | Retaining Ring                         | (1)      | 66   | -----      | Deep Groove Ball Bearing 6mm               | (1)      |
| 12   | -----      | Ball Bearing 10mm                      | (1)      | 67   | -----      | Motor Stator, 18V-DC                       | (1)      |
| 13   | -----      | Gear Case Cover                        | (1)      | 68   | -----      | Handle Housing Cover Assembly              | (1)      |
| 14   | 06-82-0233 | M4 x 0.7mm Torx Tamper Proof T-8 Screw | (2)      | 69   | 12-20-1235 | Service Nameplate                          | (1)      |
| 15   | -----      | Pin Plug w/ Small Lip                  | (1)      | 70   | 06-82-2385 | M2.6 x 14mm Pan Hd. Torx T-8 Screw         | (1)      |
| 16   | -----      | Locking Chip                           | (2)      | 71   | 06-82-2025 | M3.5 x 26mm Pan Hd. Torx T10 Screw         | (1)      |
| 17   | -----      | Spring                                 | (1)      | 72   | -----      | Mode Selector Plate                        | (1)      |
| 18   | 44-20-0091 | Locking Tang                           | (1)      | 73   | -----      | Mode Selector Button w/ Ink-Fill           | (1)      |
| 19   | 45-04-0031 | M3 x 0.5mm PH #2 Shoulder Taptite Scr. | (1)      | 74   | 06-82-1087 | Screw M3 x 1.1mm Pan Hd. Torx T-10 Scr.    | (1)      |
| 20   | 05-90-0225 | Spring Washer O.D. 7.0mm               | (6)      | 75   | -----      | M2.3 x 0.98mm PH Torx Tamper Proof Scr.    | (4)      |
| 21   | 05-78-5316 | M4 x 0.7mm PH Torx T-20 Taptite Screw  | (4)      | 76   | -----      | PCBA Assembly                              | (1)      |
| 22   | -----      | Top Ring                               | (1)      | 77   | 31-15-9010 | Dust Cover                                 | (1)      |
| 23   | -----      | Conical Spring Washer                  | (1)      | 78   | -----      | M2.6 x 0.91mm Pan Hd. Phillips B Screw     | (2)      |
| 24   | -----      | Spindle Flange                         | (1)      | 79   | -----      | Coin Cell Cover                            | (1)      |
| 25   | -----      | 5/8" Output Shaft                      | (1)      | 80   | -----      | Battery 3V DC 220 MaH CR2032               | (1)      |
| 26   | 43-34-3000 | Backing Flange                         | (1)      |      |            | (see local hardware store)                 |          |
| 27   | 44-40-7100 | 5/8" Flange Nut                        | (1)      | 82   | 10-15-9730 | ID Label QR Code                           | (1)      |
| 28   | 42-24-0027 | Small Pivot Bushing                    | (1)      | 83   | -----      | Handle Housing Support Assembly            | (1)      |
| 29   | -----      | Pivot Eyebolt Shaft                    | (1)      | 84   | 40-50-0167 | Spring                                     | (1)      |
| 30   | -----      | Handle Pivot                           | (1)      | 85   | -----      | Lock-Off Lever Paddle                      | (1)      |
| 31   | 31-12-0153 | Handle Pivot Plug                      | (1)      | 86   | -----      | Torsion Spring for Lock Off Lever 0.45mm   | (1)      |
| 32   | -----      | Pivot Eyebolt Shaft Pin                | (1)      | 87   | -----      | Pin for Lock Off Lever                     | (1)      |
| 33   | -----      | Split Bushing w/ Diagonal Cut          | (1)      | 88   | -----      | Paddle Trigger                             | (1)      |
| 34   | -----      | Pivot Lock Button                      | (1)      | 89   | -----      | Fuel Dynacase Assembly                     | (1)      |
| 35   | -----      | Nose Cone                              | (1)      | 101  | 14-30-2705 | Gear Case Assembly                         | (1)      |
| 36   | 05-74-0477 | M3. x 1.7mm Flat Hd. Torx T-10 Screw   | (2)      | 102  | 14-46-3415 | Spindle Hub Assembly                       | (1)      |
| 37   | -----      | Lock Mechanism                         | (1)      | 103  | 14-46-3410 | Bearing Retainer Kit                       | (1)      |
| 38   | -----      | Lock Mechanism Return Spring           | (2)      | 104  | 14-20-1640 | Electronics Assembly Kit                   | (1)      |
| 39   | -----      | M2 x 0.89mm Pan Hd. Torx T-8 Screw     | (1)      | 105  | 31-92-0010 | Paddle Trigger Assembly                    | (1)      |
| 40   | -----      | Side Handle Support                    | (1)      | 106  | 14-38-1015 | Main Handle Housing Kit                    | (1)      |
| 41   | -----      | Pivot Eyebolt                          | (1)      | 107  | 14-46-0639 | Coin Cell Cover Kit                        | (1)      |
| 42   | -----      | Release Lever                          | (1)      | 108  | 14-34-0100 | Side Handle Assembly                       | (1)      |
| 43   | -----      | Side Handle Trigger                    | (2)      | 109  | 14-46-3413 | Rotor and Bearing Assembly                 | (1)      |
| 44   | -----      | Side Handle Trigger Return Spring      | (2)      | 110  | 14-46-0638 | Mode Select Kit                            | (1)      |
| 45   | -----      | E-Ring for Switch Pin                  | (1)      | 111  | 14-46-0623 | Side Handle Mechanical Switch Kit          | (1)      |
| 46   | -----      | Side Handle Liner Support              | (1)      | 112  | 14-46-3411 | Nose Cone Kit                              | (1)      |
| 47   | -----      | Switch Pin                             | (1)      | 113  | 14-46-3414 | Dual Switch Wire Assembly                  | (1)      |
| 48   | -----      | Release Lever Return Spring            | (1)      | 114  | 14-46-0633 | Side Handle Pivot Switch Kit               | (1)      |
| 49   | -----      | Pivot Eyebolt Press                    | (1)      | 115  | 14-46-3412 | Locking Chip Kit Chip Kit Locking Chip Kit | (1)      |
| 50   | -----      | Rubber Support Block                   | (1)      | 116  | 14-46-0626 | Side Handle Switch Insert Kit              | (1)      |
| 51   | -----      | Dual Switch Wire Assembly              | (1)      | 117  | 14-46-0622 | Side Handle Housing Kit                    | (1)      |
| 52   | -----      | Side Handle Liner Cover                | (1)      | 118  | 42-62-0101 | Side Handle Switch Guide Kit               | (1)      |
| 53   | -----      | Side Handle Trigger Pin                | (2)      | 119  | 14-46-2025 | One-Key Coin Cell Kit                      | (1)      |
| 54   | 05-88-0122 | M3.5 x 16mm Pan Hd. Screw              | (10)     |      |            |                                            |          |
| 55   | -----      | Side Handle Cover                      | (1)      |      |            |                                            |          |

| SCREW TORQUE SPECIFICATIONS |            |                    |             |           |
|-----------------------------|------------|--------------------|-------------|-----------|
| FIG.                        | PART NO.   | WHERE USED         | SEAT TORQUE |           |
|                             |            |                    | kgf-cm      | ft-lb     |
| 1                           | 05-88-1200 | Gear Case          | 14.6±1.5    | 1.05±0.18 |
| 14                          | 06-82-0233 | Gear Case Cover    | 12.9±1.3    | 0.93±0.09 |
| 19                          | 45-04-0031 | Gear Case Cover    | 10.1±1.0    | 0.73±0.7  |
| 21                          | 05-78-5316 | Gear Case Cover    | 26.0±3.0    | 1.88±0.22 |
| 36                          | 05-74-0477 | Nose Cone          | 12.3±1.0    | 0.89±0.7  |
| 39                          | -----      | Pivot Lock Button  | 2.0±0.5     | 1.4±0.04  |
| 54                          | 05-88-0122 | Side Handle        | 14.5±2.0    | 1.05±0.14 |
| 54                          | 05-88-0122 | Handle Housing     | 11.5±1.2    | 0.83±0.09 |
| 59                          | 05-55-0620 | Motor Rotor Shaft  | 100.0±2.0   | 7.2±0.14  |
| 63                          | 05-78-0105 | Bearing Retainer   | 26.0±3.0    | 1.88±0.22 |
| 70                          | 06-82-2385 | Handle Housing     | 5.0±0.5     | 0.36±0.04 |
| 71                          | 06-82-2025 | Handle Housing     | 11.5±1.2    | 0.83±0.09 |
| 74                          | 06-82-1087 | Switch of PCBA     | 4.0±0.5     | 0.29±0.04 |
| 75                          | -----      | Hall Board of PCBA | 3.3±0.5     | 0.24±0.04 |
| 78                          | -----      | Coin Cell Cover    | 4.5±0.5     | 0.33±0.04 |

## WIRE ROUTING

As an aid to reassembly, take notice of wire routing and position in wire guides and traps while dismantling tool.

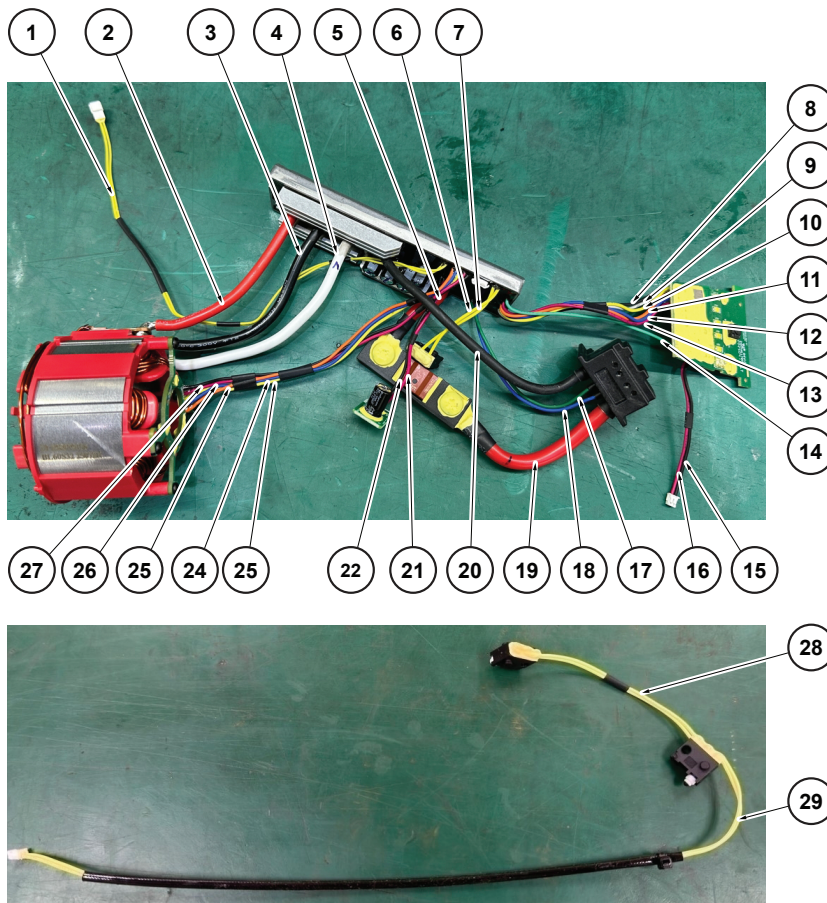
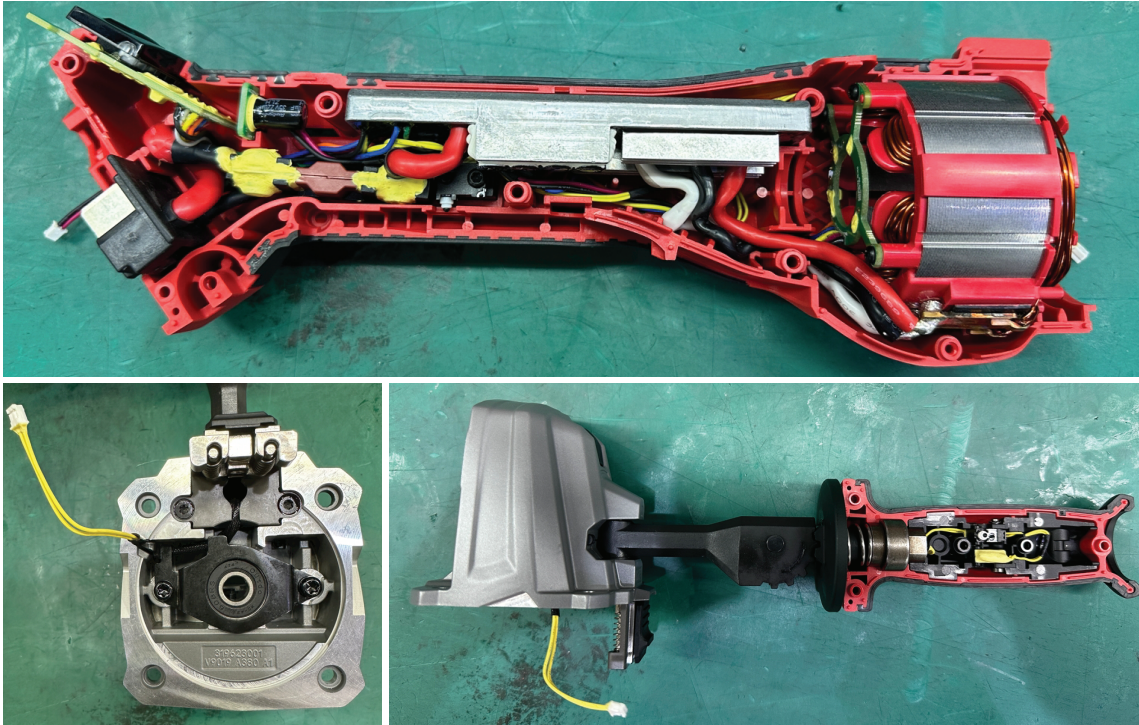
Be sure that all components of the electronics kit are seated firmly and squarely in the housing recesses.

Avoid pinched wires, be sure that all wires and sleeves are pressed completely down in wire guides and traps.

Prior to securing the housing cover onto the housing support, be sure that there are no interferences.

Before installing the battery, check for proper functionality of paddle trigger.

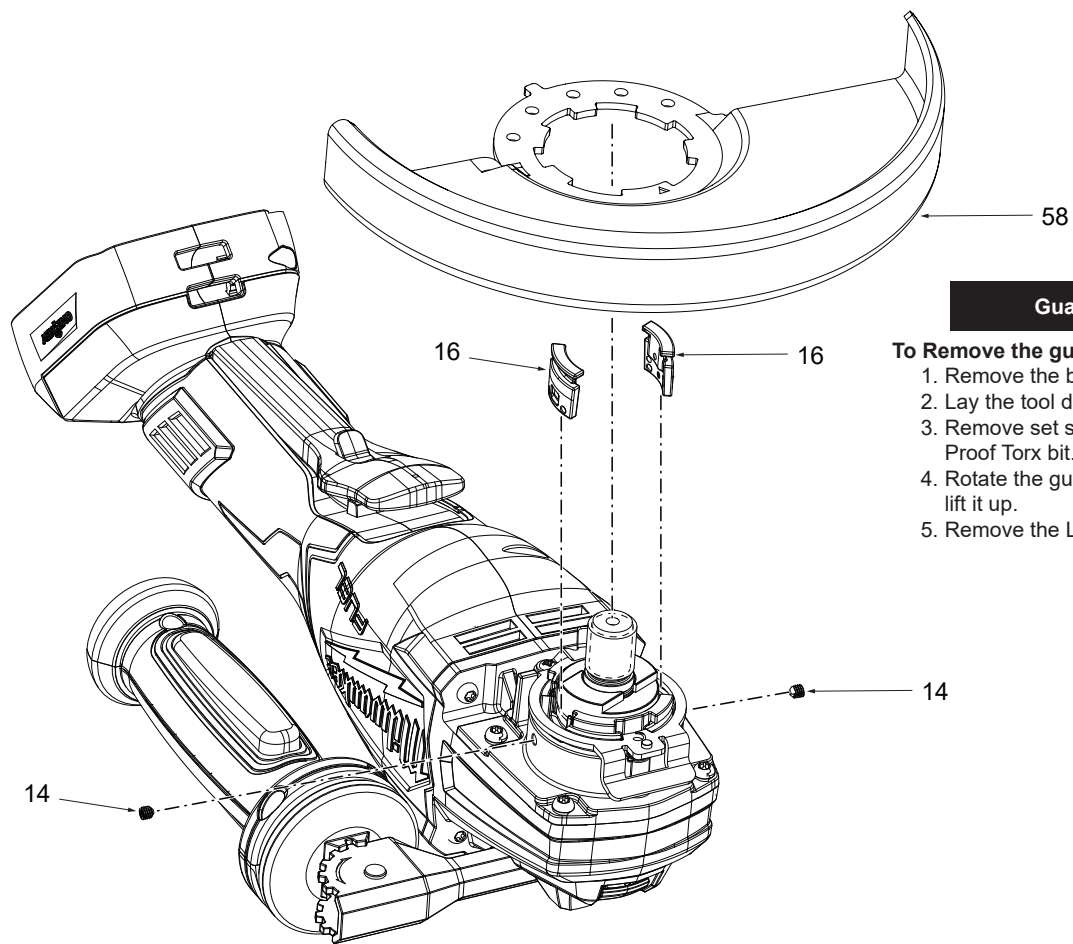
Install battery and depress paddle trigger to assure tool is operating properly.



### WIRE IDENTIFICATION

| WIRE NO. | COLOR  | TERMINALS, CONNECTORS and END-WIRE PREPARATION  |
|----------|--------|-------------------------------------------------|
| 1        | YELLOW | Connect w/ Connector and Control Board          |
| 2        | RED    | Connect w/ Control Board and Hall Motor         |
| 3        | BLACK  | Connect w/ Control Board and Hall Motor         |
| 4        | WHITE  | Connect w/ Control Board and Hall Motor         |
| 5        | RED    | Connect w/ Control Board and Fuse               |
| 6        | YELLOW | Connect w/ Control Board and Switch             |
| 7        | YELLOW | Connect w/ Control Board and Switch             |
| 8        | BLACK  | Connect w/ Control Board and BLE Board          |
| 9        | GREY   | Connect w/ Control Board and BLE Board          |
| 10       | YELLOW | Connect w/ Control Board and BLE Board          |
| 11       | ORANGE | Connect w/ Control Board and BLE Board          |
| 12       | BLUE   | Connect w/ Control Board and BLE Board          |
| 13       | RED    | Connect w/ Control Board and BLE Board          |
| 14       | GREEN  | Connect w/ Control Board and BLE Board          |
| 15       | BLACK  | Connect w/ BLE Board and Connector              |
| 16       | RED    | Connect w/ BLE Board and Connector              |
| 17       | GREEN  | Connect w/ Terminal Block and Control Board     |
| 18       | BLUE   | Connect w/ Terminal Block and Control Board     |
| 19       | RED    | Connect w/ Terminal Block and Fuse              |
| 20       | BLACK  | Connect w/ Terminal Block and Control Board     |
| 21       | RED    | Connect w/ Control Board and External Cap Board |
| 22       | BLACK  | Connect w/ Control Board and External Cap Board |
| 23       | YELLOW | Connect w/ Control Board and Hall Board         |
| 24       | BLUE   | Connect w/ Control Board and Hall Board         |
| 25       | ORANGE | Connect w/ Control Board and Hall Board         |
| 26       | RED    | Connect w/ Control Board and Hall Board         |
| 27       | BLACK  | Connect w/ Control Board and Hall Board         |
| 28       | YELLOW | Connect w/ Two Switches                         |
| 29       | YELLOW | Connect w/ Switch and Connector                 |

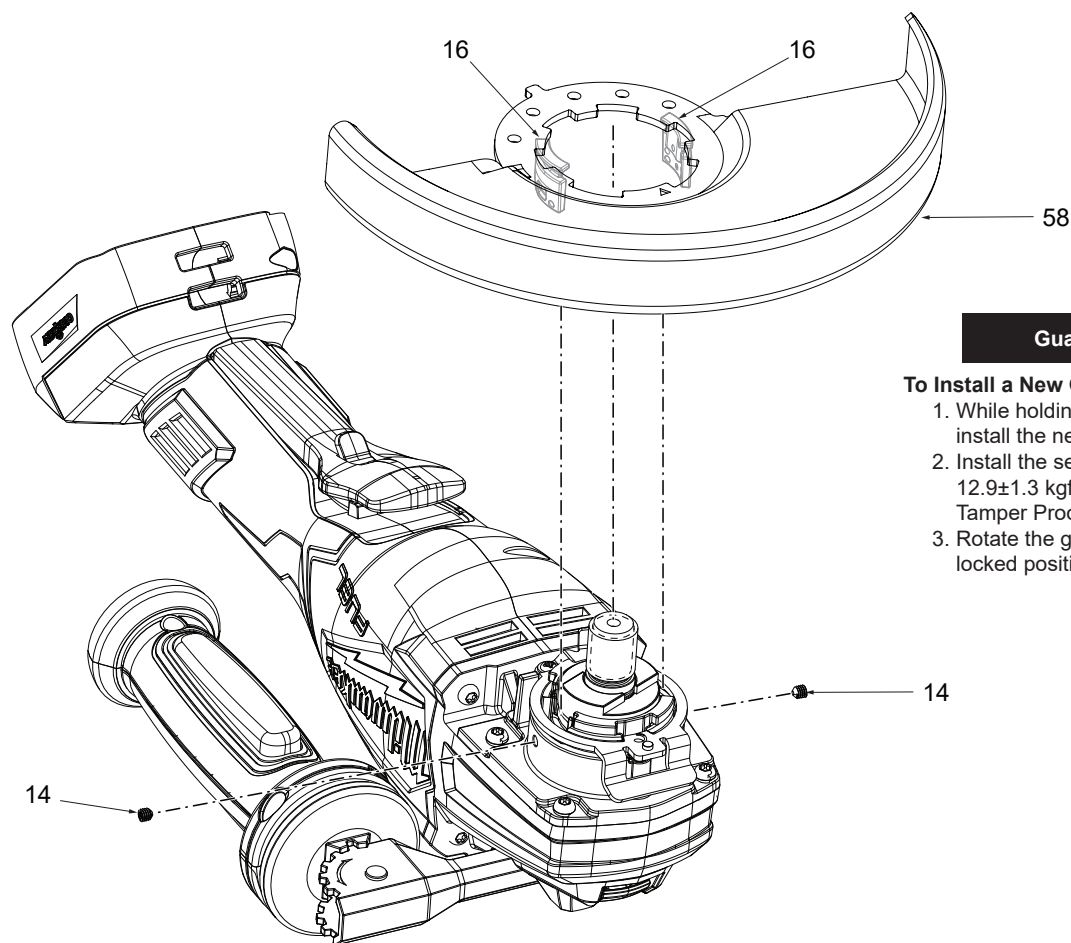
## REPLACING THE GUARD



### Guard Removal

#### To Remove the guard (58):

1. Remove the battery.
2. Lay the tool down facing up, as shown.
3. Remove set screws (14) with a T-8 Tamper Proof Torx bit.
4. Rotate the guard (58) to the position shown and lift it up.
5. Remove the Locking Clips (16).



### Guard Installation

#### To Install a New Guard (58):

1. While holding the locking clips (16) in place, install the new guard (58) onto the tool.
2. Install the set screws (14) and tighten to  $12.9 \pm 1.3$  kgf-cm ( $0.93 \pm 0.09$  ft-lbs) with a T-8 Tamper Proof Torx bit.
3. Rotate the guard (58) counterclockwise into the locked position.

