



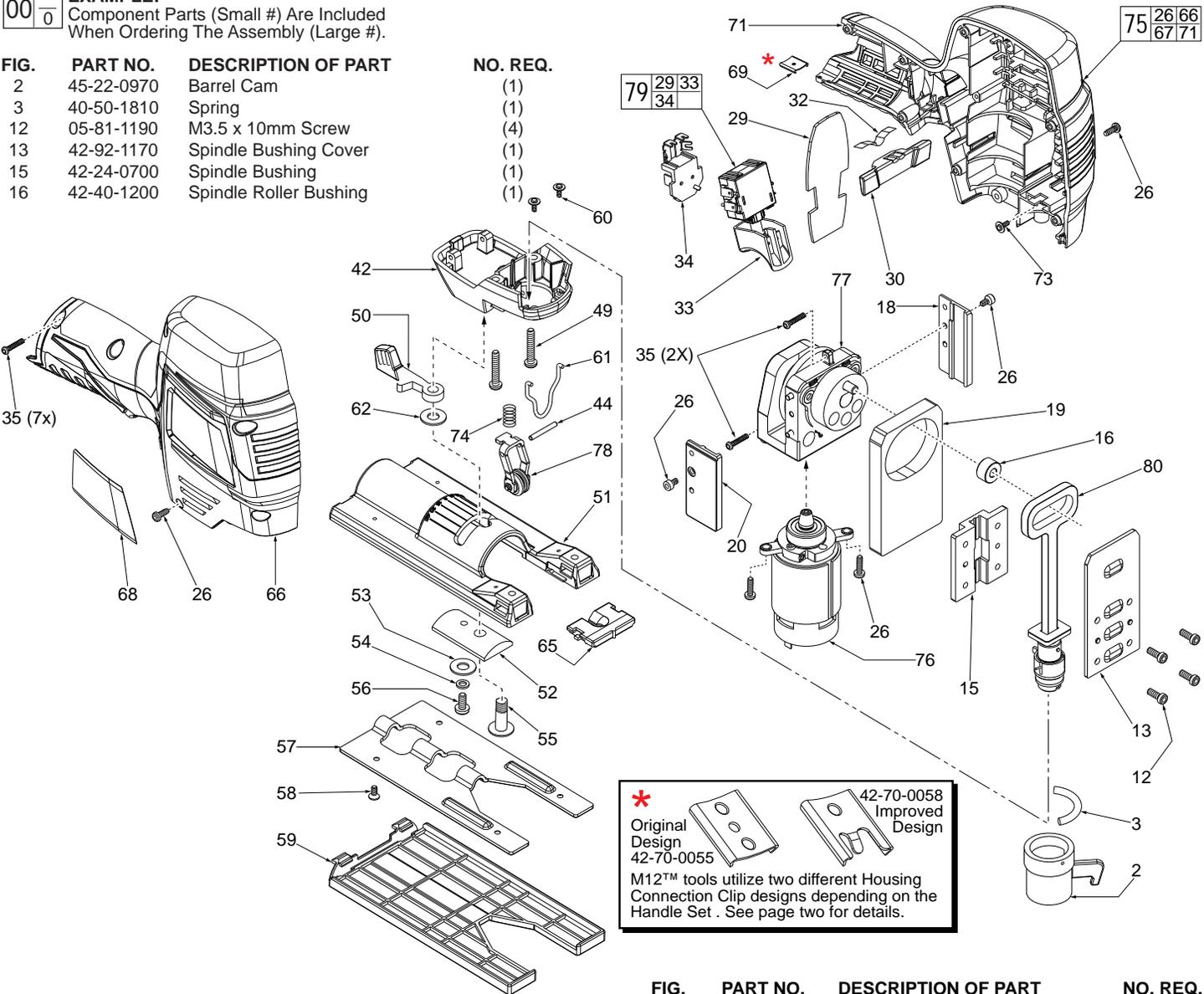
# SERVICE PARTS LIST

**BULLETIN NO.**  
**54-40-2445**

| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS |                | REVISED BULLETIN           | DATE   |
|--|----------------|----------------------------|--|
| <b>M12™ JIG SAW</b>                                    |                |                            | Feb. 2014                                      |
| <b>CATALOG NO.</b>                                     | <b>2445-20</b> | <b>STARTING SERIAL NO.</b> | <b>D58A</b>                                    |
|  |                |                            | <b>WIRING INSTRUCTION</b><br><b>SEE PAGE 4</b> |

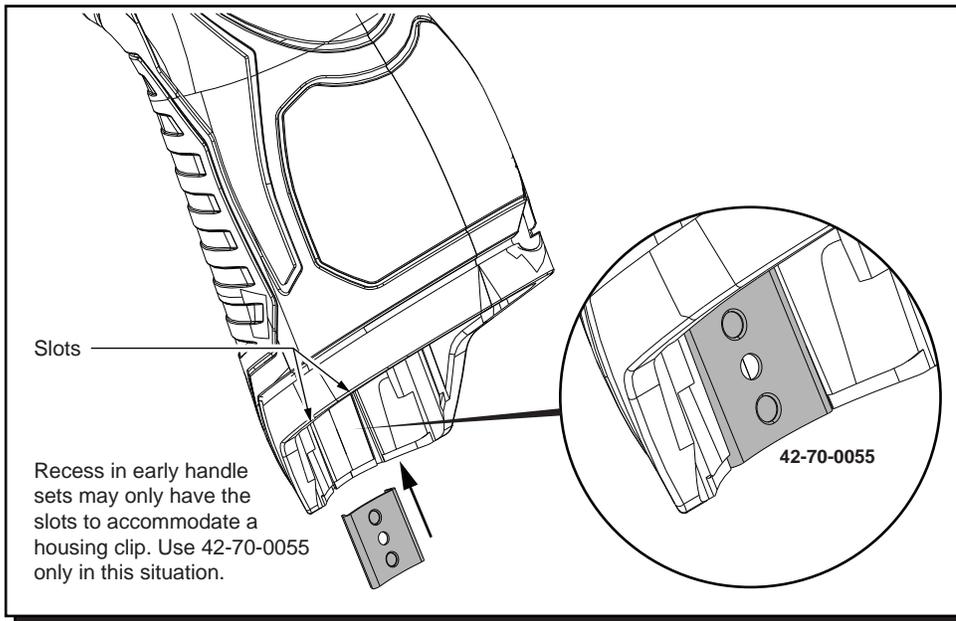
**EXAMPLE:**  
Component Parts (Small #) Are Included  
When Ordering The Assembly (Large #).

| FIG. | PART NO.   | DESCRIPTION OF PART    | NO. REQ. |
|------|------------|------------------------|----------|
| 2    | 45-22-0970 | Barrel Cam             | (1)      |
| 3    | 40-50-1810 | Spring                 | (1)      |
| 12   | 05-81-1190 | M3.5 x 10mm Screw      | (4)      |
| 13   | 42-92-1170 | Spindle Bushing Cover  | (1)      |
| 15   | 42-24-0700 | Spindle Bushing        | (1)      |
| 16   | 42-40-1200 | Spindle Roller Bushing | (1)      |

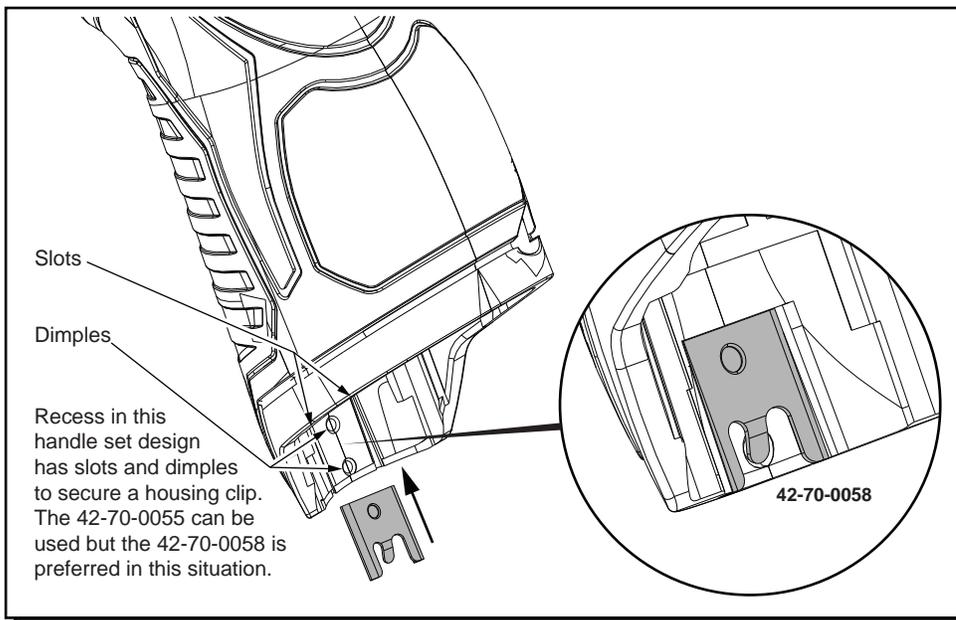


| FIG. | PART NO.   | DESCRIPTION OF PART            | NO. REQ. |
|------|------------|--------------------------------|----------|
| 18   | 42-24-0720 | Counter Weight Bushing - Left  | (1)      |
| 19   | 42-28-0530 | Counter Weight                 | (1)      |
| 20   | 42-24-0710 | Counter Weight Bushing - Right | (1)      |
| 26   | 05-86-1000 | M3 x 8mm T-10 Screw            | (6)      |
| 29   | -----      | PCB Assembly                   | (1)      |
| 30   | 42-42-1010 | Lockout Lever                  | (1)      |
| 32   | 40-50-1135 | Spring Plate                   | (1)      |
| 33   | -----      | Switch                         | (1)      |
| 34   | -----      | Battery Connector Block        | (1)      |
| 35   | 06-82-1080 | M3 x 14mm T-10 Screw           | (9)      |
| 42   | 28-14-1030 | Lower Housing                  | (1)      |
| 44   | 06-65-1390 | 2.5 x 22mm Pin                 | (1)      |
| 49   | 05-81-1210 | M4 x 22mm Screw                | (2)      |
| 50   | 44-10-0780 | Shoe Release Lever             | (1)      |
| 51   | 28-06-0850 | Shoe Body                      | (1)      |
| 52   | 31-17-0600 | Shoe Clamp                     | (1)      |
| 53   | 45-88-2160 | Flat Washer                    | (1)      |
| 54   | 45-88-2150 | Spring Washer                  | (1)      |
| 55   | 05-74-2000 | 1/4-20 x .75" UNC-2A Screw     | (1)      |
| 56   | 05-81-1030 | M4 x 9mm T-20 Screw            | (1)      |

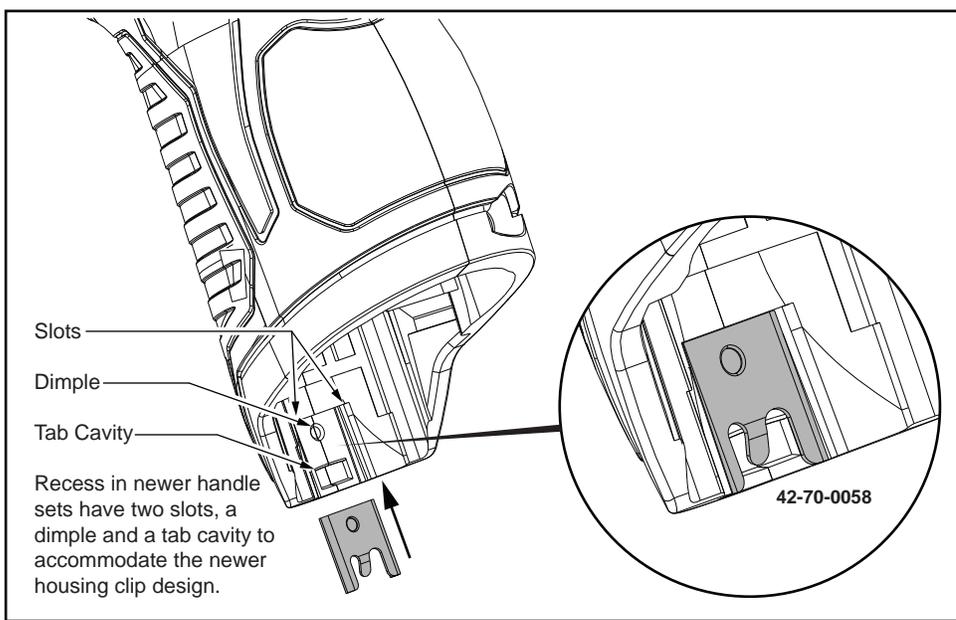
| FIG. | PART NO.   | DESCRIPTION OF PART      | NO. REQ. |
|------|------------|--------------------------|----------|
| 57   | 42-92-1180 | Shoe Insert              | (1)      |
| 58   | 05-81-1205 | M3 x 0.5 x 7mm Screw     | (4)      |
| 59   | 31-15-1600 | Shoe Base Cover          | (1)      |
| 60   | 05-81-1290 | M2.3 x 0.4 Screw         | (2)      |
| 61   | 23-94-2400 | Guard Wire               | (1)      |
| 62   | 45-88-2130 | Flat Washer              | (1)      |
| 65   | 43-84-1030 | Anti-Splintering Device  | (1)      |
| 66   | -----      | Housing Halve - Right    | (1)      |
| 68   | 12-20-2445 | Service Nameplate        | (1)      |
| 69   | 42-70-1150 | Housing Connection Clip  | (1)      |
| 71   | -----      | Housing Halve - Left     | (1)      |
| 73   | 05-81-1195 | M3 x 8mm Screw           | (1)      |
| 74   | 40-50-1830 | Roller Bracket Spring    | (1)      |
| 75   | 31-44-2675 | Housing Set with Screws  | (1)      |
| 76   | 23-30-0875 | Motor Assembly           | (1)      |
| 77   | 28-90-0350 | Gearbox and Cam Assembly | (1)      |
| 78   | 42-36-1060 | Roller Bracket Assembly  | (1)      |
| 79   | 23-66-3140 | Switch Assembly          | (1)      |
| 80   | 38-50-2730 | Spindle Assembly         | (1)      |



Early M12™ Handle Sets utilize **Housing Connection Clip No. 42-70-0055**. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and push the clip out of the handle set. If the clip is loose or will not stay in place, a needle nose pliers can be used to gently bend/pinch the side rails of the clip. If the clip is damaged do not use, replace with a new 42-70-0055 housing clip.



Updated M12™ Handle Sets utilize **Housing Connection Clips No. 42-70-0055 and 42-70-0058. (The 42-70-0058 is a preferred upgrade)**. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the tab of the clip snaps down in the round dimpled cavity of the handle set. Be sure that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and lift up on the clip tab while pushing the clip out of the handle set. Use a needle nose pliers to gently rebend the clip tab if necessary. If the tab on the clip is damaged during this process and is loose or will not stay in place, replace with a new 42-70-0058 clip.

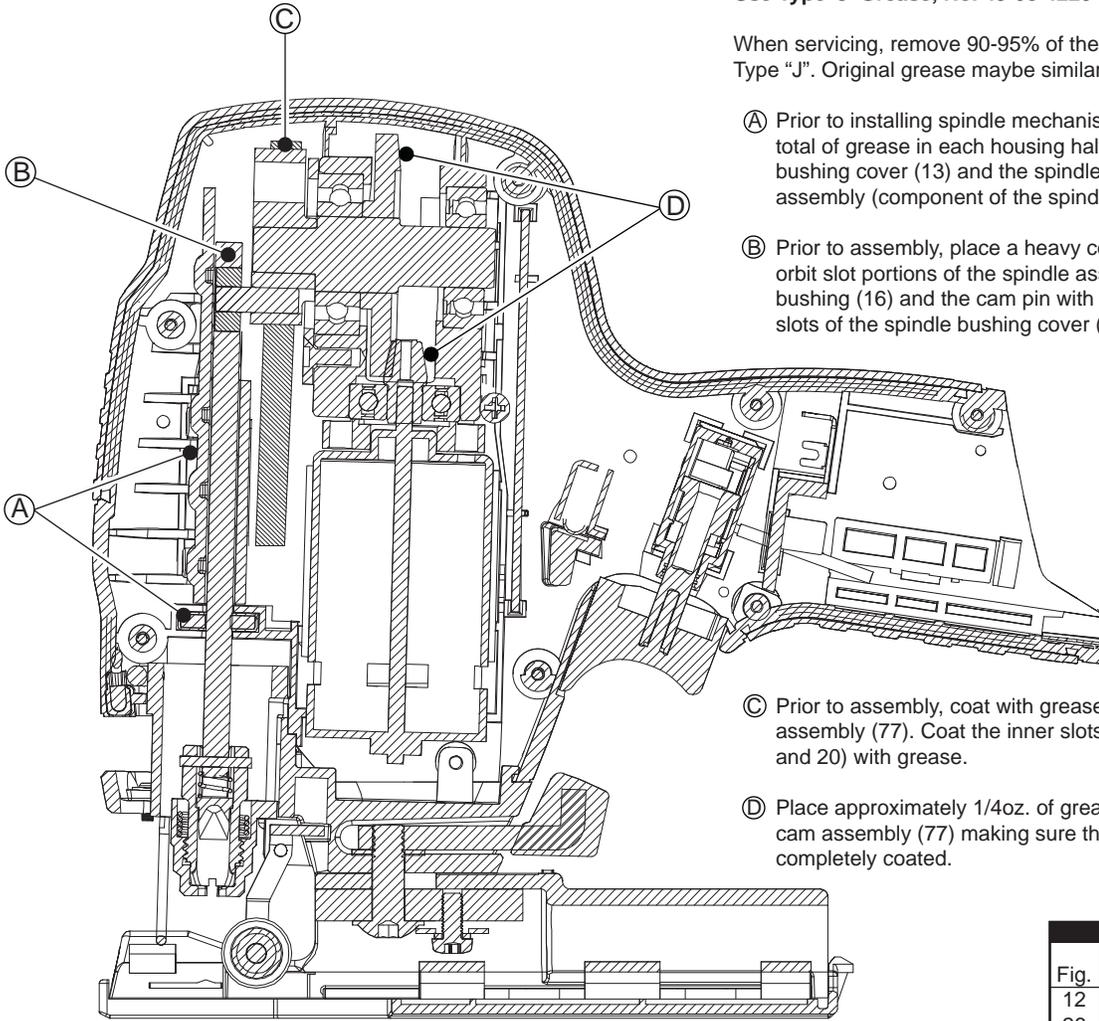


Newer M12™ Handle Sets utilize **Housing Connection Clip No. 42-70-0058**. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the tab of the clip snaps down in the rectangular cavity of the handle set. Be sure that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and lift the clip tab out of the cavity while pushing the clip out of the handle set. Use a needle nose pliers to gently rebend the clip tab if necessary. If the tab on the clip is damaged during this process and is loose or will not stay in place, replace with a new 42-70-0058 clip.

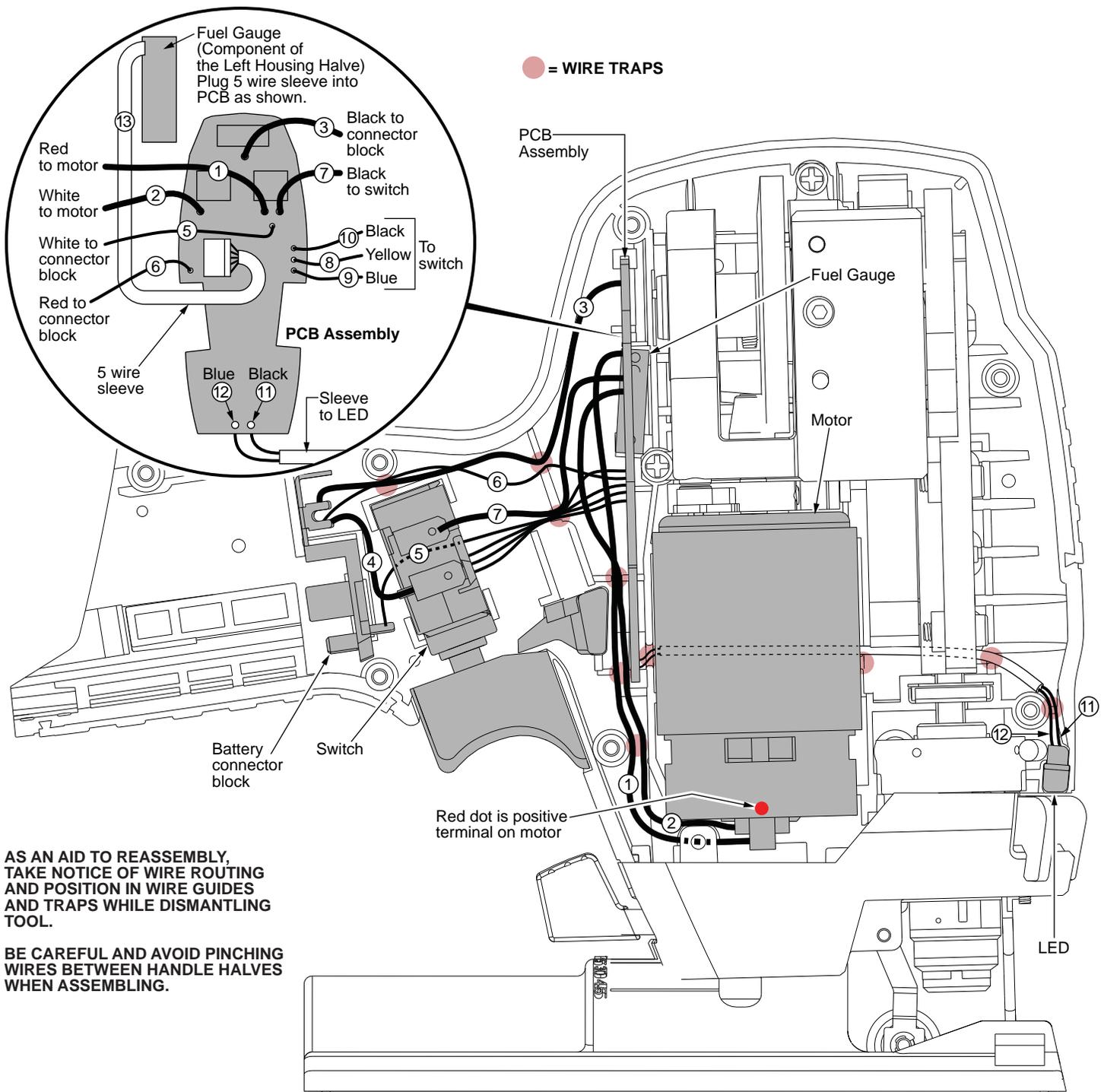
**LUBRICATION NOTES:****Use Type 'J' Grease, No. 49-08-4220**

When servicing, remove 90-95% of the existing grease prior to installing Type "J". Original grease maybe similar in color but not compatible with "J".

- Ⓐ Prior to installing spindle mechanism, distribute approximately 1/4oz. total of grease in each housing half groove that supports the spindle bushing cover (13) and the spindle bushing (15). Coat the felt seal assembly (component of the spindle assembly (80) with grease.
- Ⓑ Prior to assembly, place a heavy coat of grease over the shaft and the orbit slot portions of the spindle assembly (80). Coat the spindle roller bushing (16) and the cam pin with grease. Place grease in the spindle slots of the spindle bushing cover (13) and the spindle bushing (15).
- Ⓒ Prior to assembly, coat with grease the cam of the gearcase and cam assembly (77). Coat the inner slots of the counter weight bushings (18 and 20) with grease.
- Ⓓ Place approximately 1/4oz. of grease in the middle of the gearbox and cam assembly (77) making sure that the gear and pinion teeth are completely coated.

**TORQUE SPECIFICATIONS**

| Fig. | Part No.   | Min.<br>(In-Lbs) | Max.<br>(In-Lbs) |
|------|------------|------------------|------------------|
| 12   | 05-81-1190 | 13               | 16               |
| 26   | 05-86-1000 | 6                | 8                |
| 49   | 05-81-1210 | 11               | 14               |
| 55   | 05-74-2000 | 21               | 30               |
| 56   | 05-81-1030 | 14               | 16               |
| 58   | 05-81-1205 | 3                | 6                |
| 60   | 05-81-1290 | 2                | 5                |
| 73   | 05-81-1195 | 2                | 4                |



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 SPECIFICATIONS

| Wire No. | Wire Color | Origin or Gauge | Length | Terminals, Connectors and 1 or 2 End Wire Preparation   |
|----------|------------|-----------------|--------|---|
| 1        | Red        | 23-66-3140      | -----  | Component of the switch assembly. Route from PCBA and solder to motor terminal with red dot.        |
| 2        | White      | 23-66-3140      | -----  | Component of the switch assembly. Route from PCBA and solder to the other motor terminal.           |
| 3        | Black      | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the battery connector block.                    |
| 4        | Red        | 23-66-3140      | -----  | Component of the switch assembly. Runs from switch to the battery connector block.                  |
| 5        | White      | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the battery connector block.                    |
| 6        | Red        | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the battery connector block.                    |
| 7        | Black      | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the switch.                                     |
| 8        | Yellow     | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the switch.                                     |
| 9        | Blue       | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the switch.                                     |
| 10       | Black      | 23-66-3140      | -----  | Component of the switch assembly. Runs from PCBA to the switch.                                     |
| 11       | Black      | 23-66-3140      | -----  | Component of the switch assembly. Sleeved with #12 and runs from PCBA to the LED.                   |
| 12       | Blue       | 23-66-3140      | -----  | Component of the switch assembly. Sleeved with #11 and runs from PCBA to the LED.                   |
| 13       | 5 wires    | 31-44-2675      | -----  | Component of the housing set (specifically the left halve). Plug 5 wire harness into PCBA as shown. |