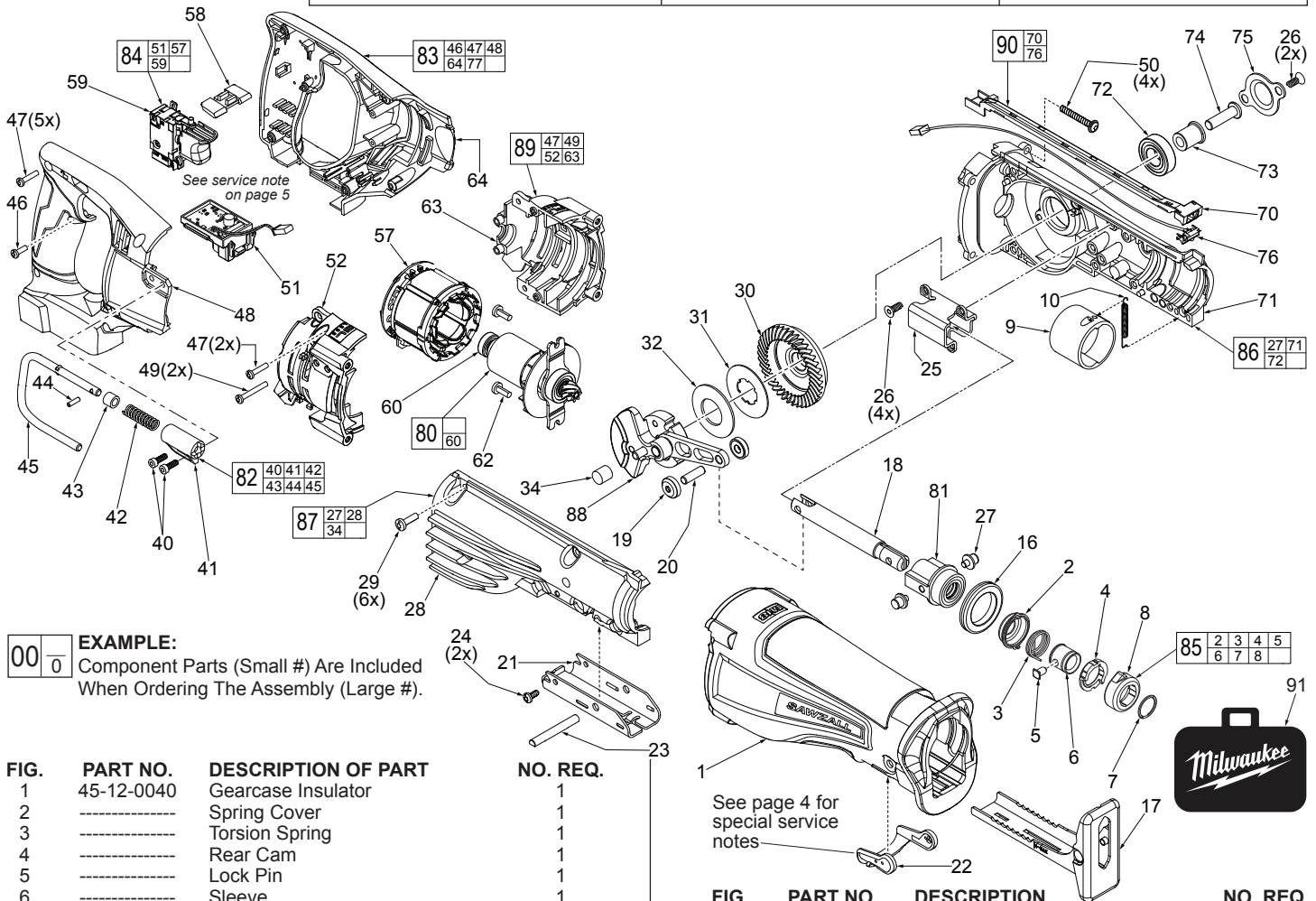




SERVICE PARTS LIST

BULLETIN NO.
54-40-2700

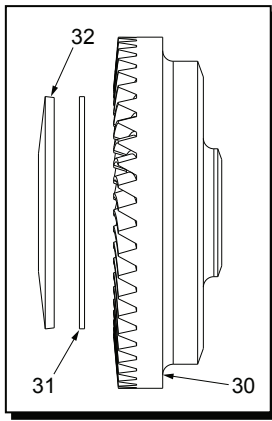
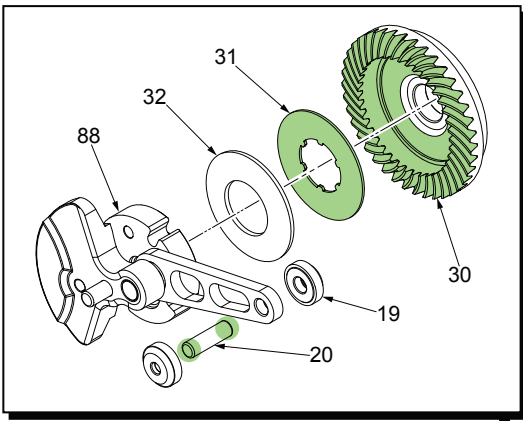
| | | | |
|--------------------------------------------------------|----------------|-----------------------------------------|-------------|
| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS | | REVISED BULLETIN | DATE |
| M18 FUEL™ SAWZALL® Reciprocating Saw | | | Feb. 2017 |
| CATALOG NO. | 2720-20 | STARTING SERIAL NO. | F39A |
| | | WIRING INSTRUCTION SEE PAGE 5 | |



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

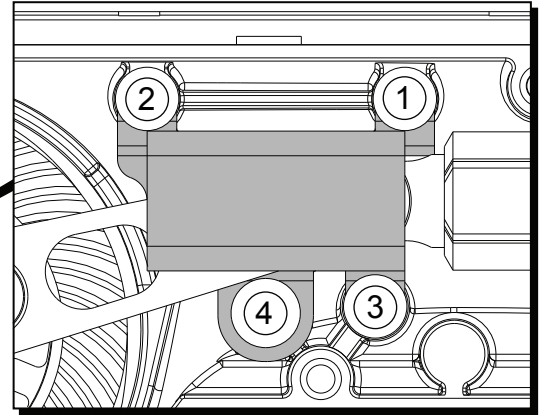
| FIG. | PART NO. | DESCRIPTION OF PART | NO. REQ. |
|------|------------|-----------------------------------------|----------|
| 1 | 45-12-0040 | Gearcase Insulator | 1 |
| 2 | ----- | Spring Cover | 1 |
| 3 | ----- | Torsion Spring | 1 |
| 4 | ----- | Rear Cam | 1 |
| 5 | ----- | Lock Pin | 1 |
| 6 | ----- | Sleeve | 1 |
| 7 | 34-60-3700 | Retaining Ring | 1 |
| 8 | ----- | Front Cam | 1 |
| 9 | 31-11-0105 | Barrel Cam | 1 |
| 10 | 40-50-8805 | Extension Spring | 1 |
| 16 | 45-06-0230 | 'H' Seal | 1 |
| 17 | 45-16-0135 | Shoe Assembly | 1 |
| 18 | 38-50-0076 | Spindle | 1 |
| 19 | 42-40-2052 | Rollers | 2 |
| 20 | 06-65-0145 | Pin - Connecting Rod | 1 |
| 21 | 44-86-0225 | Shoe Retainer | 1 |
| 22 | 31-15-2015 | Shoe Release Lever | 1 |
| 23 | 44-60-1635 | Shoe Pin | 1 |
| 24 | 06-82-7253 | 8-32 x 3/8" Pan Hd. Taptite T-20 Screw | 2 |
| 25 | 43-56-0045 | Orbit Slot | 1 |
| 26 | 06-82-8890 | 1/2-DG50 Thread Form T-25 Screw | 6 |
| 27 | 06-65-0135 | Pivot Pin | 2 |
| 28 | ----- | Gearcase Halve - Right | 1 |
| 29 | 06-82-5411 | 10-24 x 0.625 Pan Hd. Taptite T-25 Scr. | 6 |
| 30 | 32-05-1010 | Bevel Gear | 1 |
| 31 | 43-06-0025 | Metal Plate | 1 |
| 32 | 40-50-0595 | Disc Spring | 1 |
| 34 | 02-50-1640 | Needle Bearing | 1 |
| 40 | 05-78-0910 | M4 x 12mm Fillister Hd. Screw | 2 |
| 41 | ----- | Rafter Hook Mounting Bracket | 1 |
| 42 | ----- | Rafter Hook Spring | 1 |
| 43 | ----- | Rafter Hook Bushing | 1 |
| 44 | ----- | Spring Pin | 1 |
| 45 | ----- | Rafter Hook | 1 |
| 46 | 06-82-7240 | 6-19 x 1/2" Pan Hd. Plast. T-15 Screw | 1 |
| 47 | 06-82-7261 | 6-19 x 11/16" Pan Hd. Plast. T-15 Scr. | 7 |
| 48 | ----- | Handle Halve - Right | 1 |
| 49 | 06-82-7290 | 6-19 x 1-1/8" Pan Hd. Plast. T-15 Scr. | 2 |
| 50 | 05-88-8309 | M5 x 35mm Pan Hd. Taptite T-20 Screw | 4 |

| FIG. | PART NO. | DESCRIPTION | NO. REQ. |
|------|------------|---------------------------------------------------------------------|----------|
| 51 | ----- | Control Board/Terminal Connector Block (See service note on page 5) | 1 |
| 52 | ----- | Motor Cage - Right | 1 |
| 57 | ----- | Stator/PCBA Assembly | 1 |
| 58 | 42-42-0195 | Lockoff Shuttle | 1 |
| 59 | ----- | On-Off Switch | 1 |
| 60 | 02-04-0645 | Ball Bearing | 1 |
| 62 | 06-82-5324 | 10-24 x 1/2" Pan Hd. Tapt. T-25 Screw | 2 |
| 63 | ----- | Motor Cage - Left | 1 |
| 64 | ----- | Handle Halve - Left | 1 |
| 70 | ----- | LED Tray | 1 |
| 71 | ----- | Gearcase Halve - Left (w/ locating pins) | 1 |
| 72 | 02-04-1516 | Ball Bearing | 1 |
| 73 | 42-40-0076 | Spacer | 1 |
| 74 | 06-08-0019 | Drive Hub Bolt (Left Hand Thread) | 1 |
| 75 | 44-66-0280 | Bearing Retaining Plate | 1 |
| 76 | ----- | LED Assembly | 1 |
| 77 | 12-20-2669 | Service Nameplate (Not Shown) | 1 |
| 80 | 16-01-0110 | Rotor Assembly | 1 |
| 81 | 14-86-0105 | Front Bushing Assembly | 1 |
| 82 | 14-36-0340 | Rafter Hook Assembly | 1 |
| 83 | 14-34-0260 | Handle Halve Assembly | 1 |
| 84 | 14-20-0325 | Electronics Assembly | 1 |
| 85 | 14-46-1064 | Quik-Lok® Blade Clamp Kit | 1 |
| 86 | 14-30-0185 | Gearcase Halve - Left Assembly | 1 |
| 87 | 14-30-0180 | Gearcase Halve - Right Assembly | 1 |
| 88 | 14-09-1000 | Crankshaft Assembly | 1 |
| 89 | 14-50-0215 | Motor Cage Assembly | 1 |
| 90 | 22-09-2600 | LED and Tray Assembly | 1 |
| 91 | 42-55-2720 | Carrying Case | 1 |



Concave side of disc spring (32) must face toward metal plate (31) and bevel gear (30).

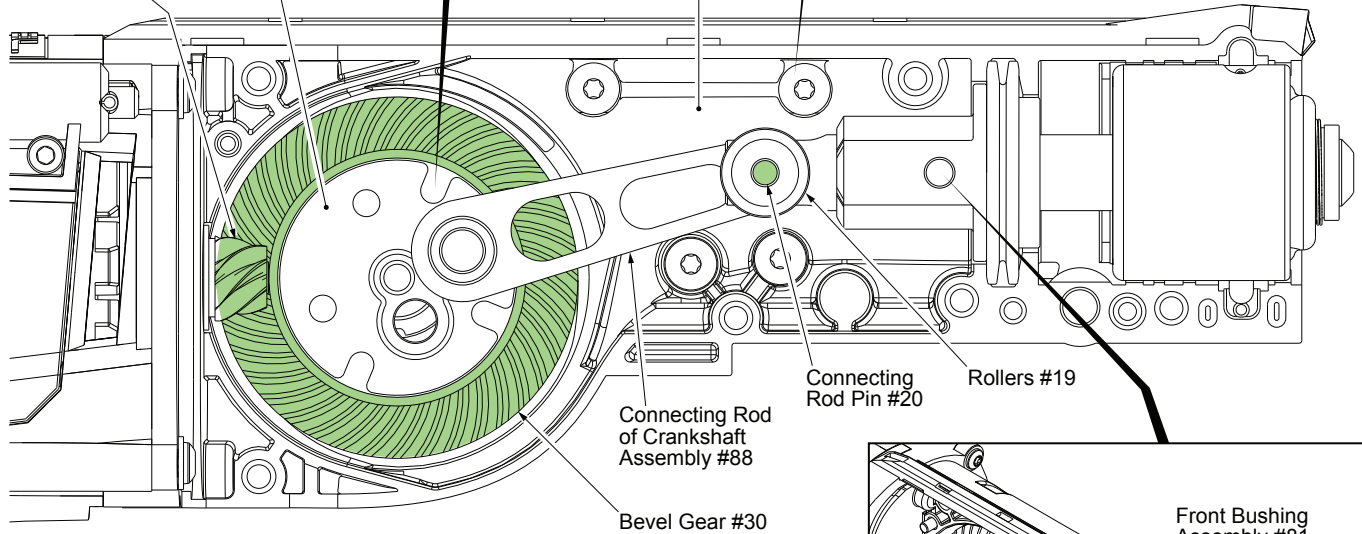
When securing the orbit slot (25), tighten screws (26) in the order shown.



Pinion Gear of Rotor Assembly #80

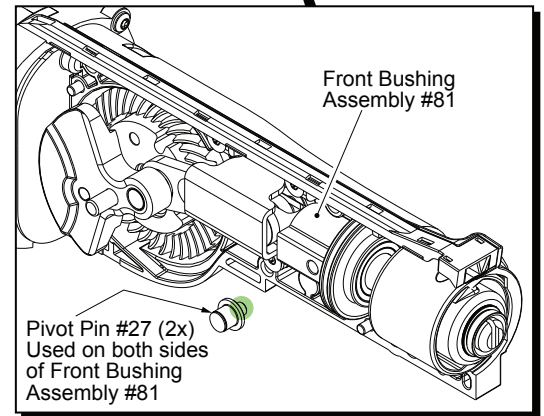
NOTE: Counter Weight of Crankshaft Assembly #88 has been removed for clarity (to reveal pinion gear)

NOTE: Orbit Slot #25 has been removed from this view for clarity (to reveal Connecting Rod Pin #20 and Rollers #19)

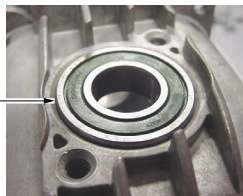
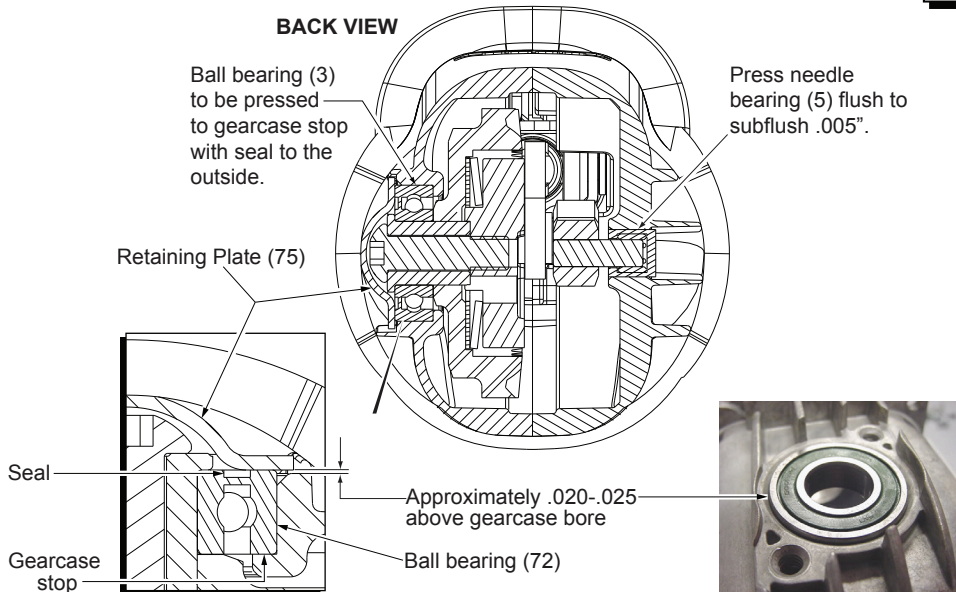


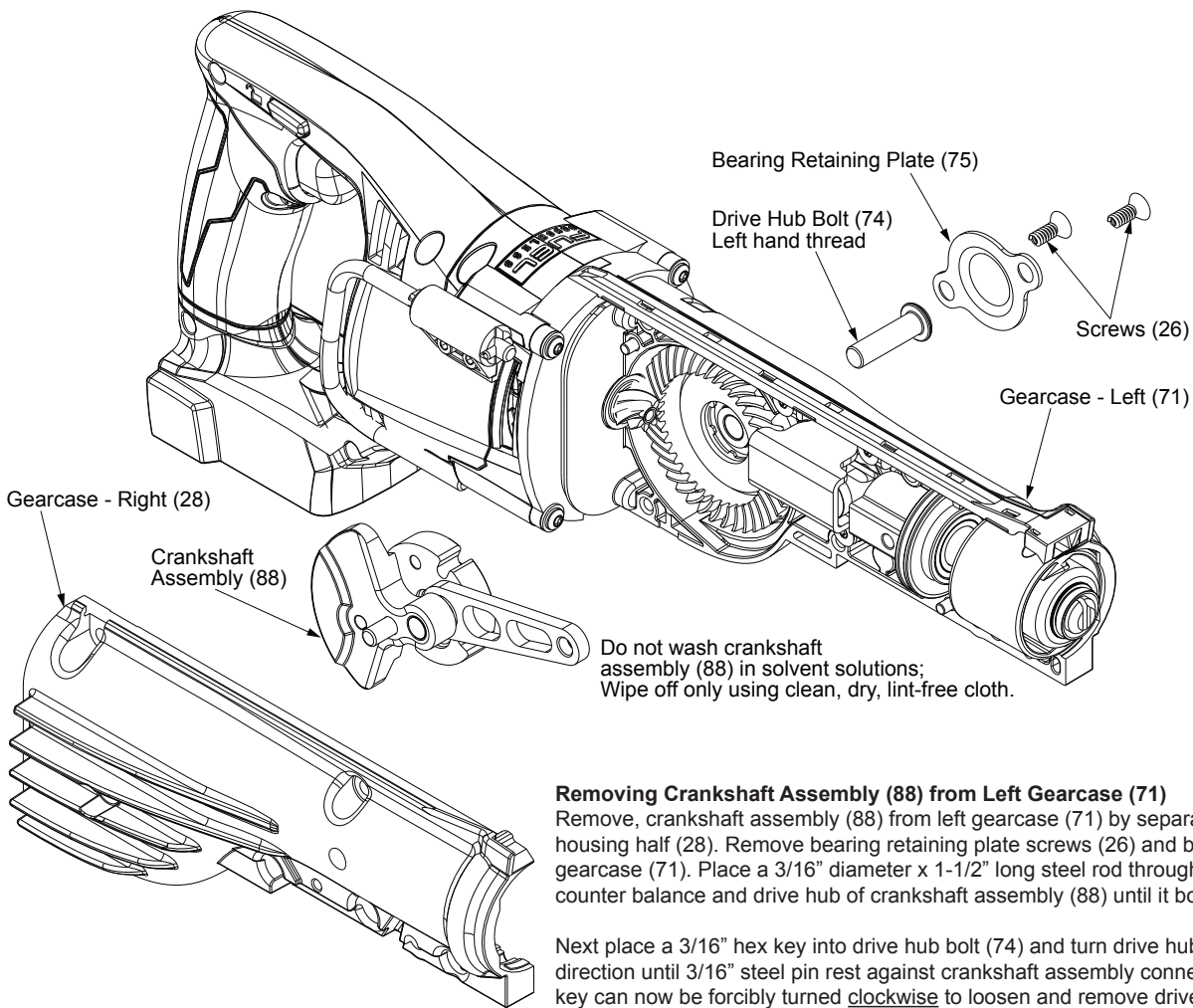
LUBRICATION: Type 'L' Grease
No. 49-08-4175 (16 oz. tub)

- Place 30g ±3g (approx. 1 ounce) on top of gear (30) and pinion gear of rotor assembly (80), being sure to cover the middle of the gear and all teeth.
- Place 15g ±3g (approx. .5 ounce) to the area where the gear (30) and the connecting rod of crank shaft assembly (88) interface.
- Coat both sides of the metal clutch plate (31).
- Lightly coat both pivot pins (27) where connections go into holes of front bushing assembly (81).
- Lightly coat both ends of pin (20) prior to installing rollers (19).



BACK VIEW





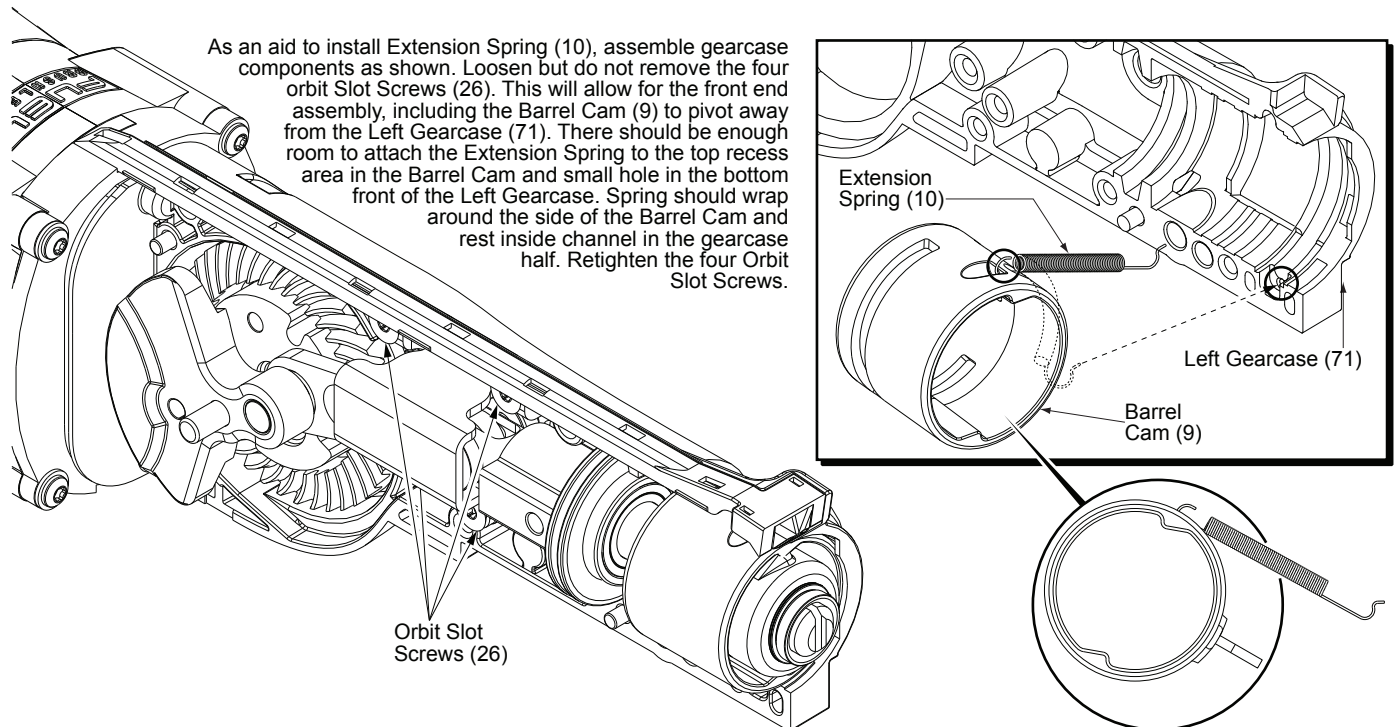
Removing Crankshaft Assembly (88) from Left Gearcase (71)

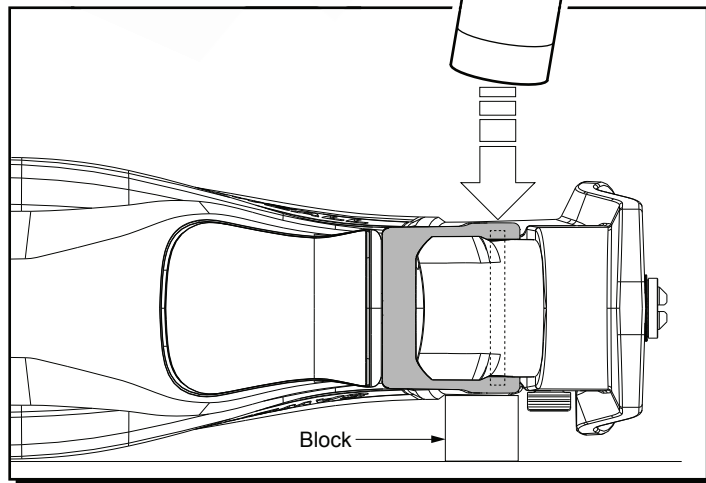
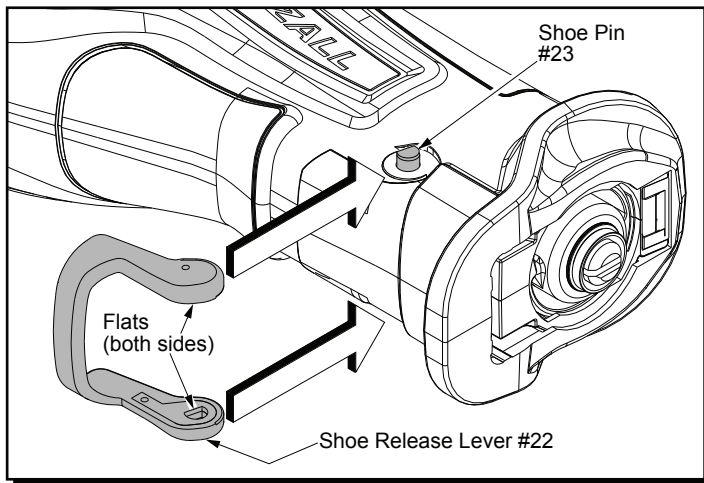
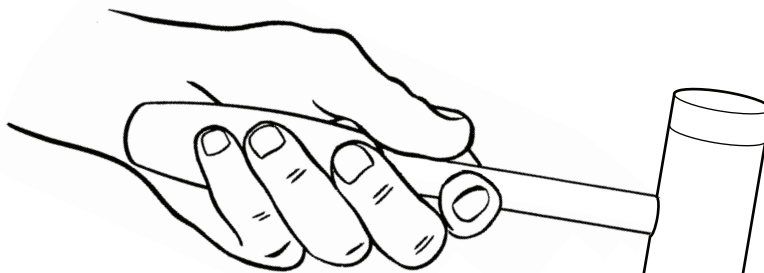
Remove crankshaft assembly (88) from left gearcase (71) by separating / removing right housing half (28). Remove bearing retaining plate screws (26) and bearing plate (75) from left gearcase (71). Place a 3/16" diameter x 1-1/2" long steel rod through the holes found in the counter balance and drive hub of crankshaft assembly (88) until it bottoms out.

Next place a 3/16" hex key into drive hub bolt (74) and turn drive hub bolt slowly in a clockwise direction until 3/16" steel pin rest against crankshaft assembly connecting rod. The 3/16" hex key can now be forcibly turned clockwise to loosen and remove drive hub bolt (74).

Reinstalling Crankshaft Assembly (88) into Left Gearcase (71)

To reinstall drive hub bolt (74) to crankshaft assembly (88) apply Blue Loctite® (44-20-0090) to threads of drive hub bolt (74) and insert through spacer (73) aligning threads of drive hub bolt (74) with internal threads of crankshaft assembly hub. Use a 3/16" hex key to turn the drive hub bolt (74) slowly in a counter clockwise direction until 3/16" steel pin rest against crankshaft assembly connecting rod (See 'Removing Crankshaft Assembly' instructions above). Using an inch pound torque wrench and a 3/16" hex key, torque drive hub bolt (74) to 210-240 in. lbs. or bolt can be tightened using a ft. lbs. torque wrench to 17-20 ft. lbs.





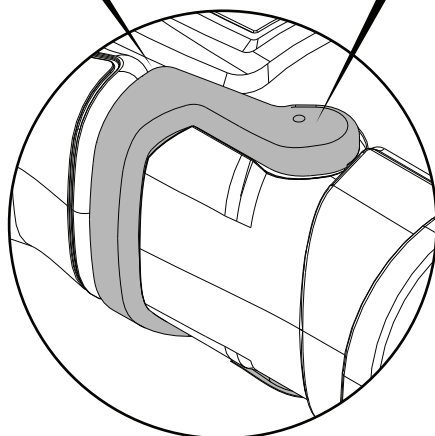
To properly install the Shoe Release Lever #22 onto the Shoe Pin #23 do the following:

Insert the shoe pin through the hole in the gearcase insulator. Center the shoe pin with equal amounts of the pin protruding from each side of the tool.

Rotate the shoe pin so the flats of the pin will align with the flats in the shoe release lever cavities.

The shoe release lever is stiff but flexible. Place the shoe release lever over the gearcase insulator. Lift one end of the shoe release lever onto the shoe pin (with flats aligned) and press into place.

Pull the other end of the shoe release lever over the other side of the pin and press in place.



Place the tool on its side on a hard flat surface. Place a small wood block approximately 1-1/8" thick under the tool, between the hard surface and the shoe release lever, directly beneath the pin.

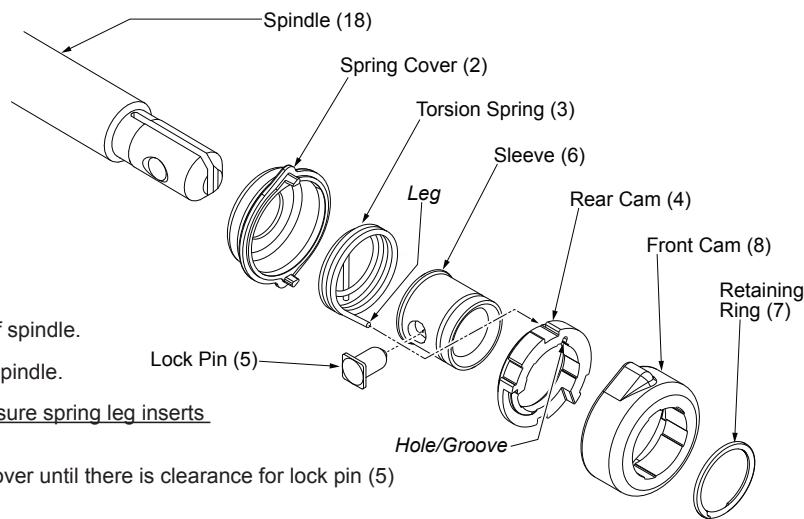
With a rubber mallet, strike the shoe release lever several times to completely seat the lever onto the pin and to assure that the pin is properly centered within the gearcase.

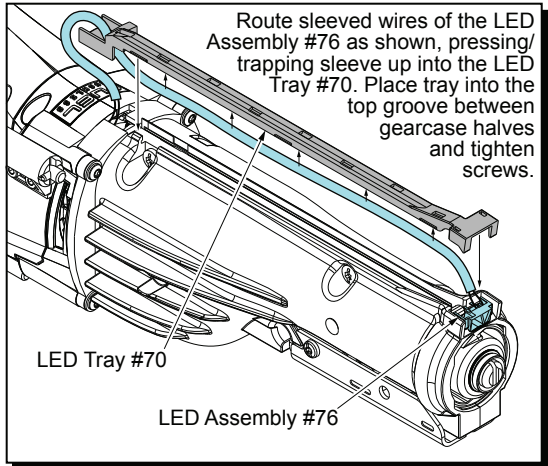
REMOVING THE STEEL QUIK-LOK® BLADE CLAMP -

- Remove external retaining ring (7) and pull front cam (8) off.
- Pull lock pin (5) out and remove remainder of parts and discard.

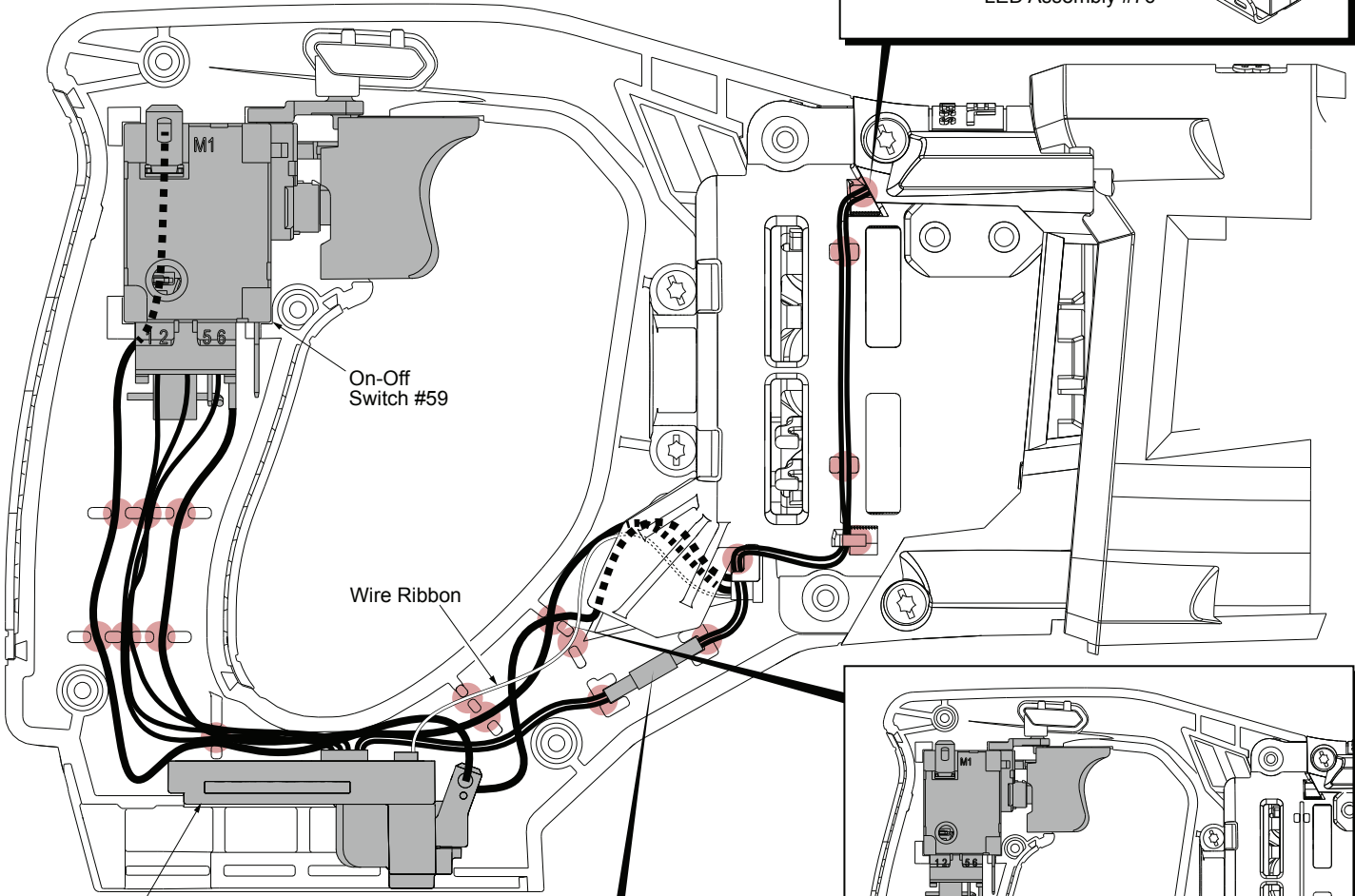
REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP

- Coat new lock pin with powdered graphite.
- Hold tool in a vertical position.
- Place spring cover onto spindle.
- Slide torsion spring (3) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (6) onto spindle aligning hole on sleeve with hole in spindle.
- Slide rear cam over sleeve until it bottoms on sleeve shoulder, ensure spring leg inserts into groove of cam.
- Rotate rear cam in the direction of the arrows located on spring cover until there is clearance for lock pin (5) to be inserted into sleeve/spindle holes. Insert lock pin.
- Align front cam (8) inner ribs with rear cam outer slots and slide front cam onto sleeve until it bottoms. Retaining ring groove should be completely visible.
- Attach retaining ring (7) by separating coils and inserting end of ring into groove, then wind remainder of ring into groove. Ensure ring is seated in groove.
- Blade clamp should rotate freely. During normal usage, debris may not allow blade clamp to rotate freely. The use of spray lubricant can help free blade clamp. In extreme conditions, follow these instructions to remove, clean and reassemble blade clamp.

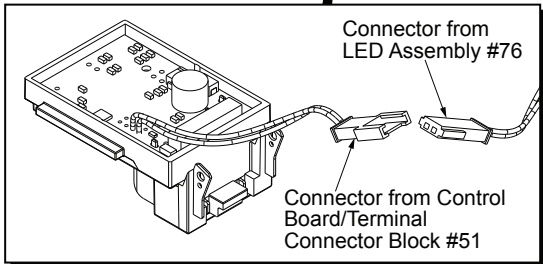




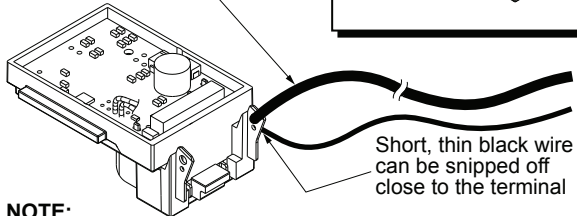
● = WIRE TRAPS or GUIDES



Control Board/
Terminal Connector Block #51



Long black wire to the PCBA/Stator



NOTE:
The service replacement Electronics Assembly (14-20-0325) has a short, thin black wire soldered to the negative terminal on the Terminal Connector Block. This short wire is for serial break 'B' tools and greater and aids in installing a High Voltage Protection system. For serial break 'A' tools, this wire can be snipped off close to the negative terminal.

