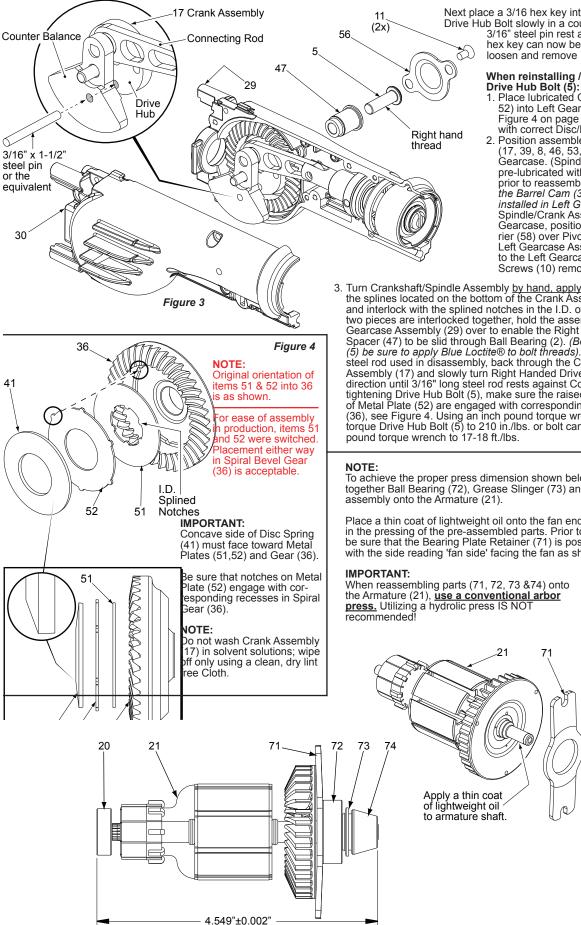


Remove Crank Assembly (17) from Left Gearcase Assembly (29) by separating / removing Right Housing Half (30). Remove Bearing Retaining Plate Screws (11) and Bearing Plate (56) from Left Gearcase Assembly (29). Place a 3/16" diameter x 1-1/2" long steel rod down through the opening in the Counter Balance until it bottoms out through the 3/16" hole in the Drive Hub.



(115.55±0.05)

Next place a 3/16 hex key into Drive Hub Bolt (5) and turn Drive Hub Bolt slowly in a counter-clockwise direction until 3/16" steel pin rest against Connecting Rod. 3/16' hex key can now be turned counter-clockwise to loosen and remove RH Drive Hub Bolt (5).

When reinstalling / tightening <u>Right Hand</u> Drive Hub Bolt (5): 1. Place lubricated Gear Assembly (36, 41, 51 &

- 52) into Left Gearcase Assembly (29). See Figure 4 on page 3 for assembly instructions with correct Disc/Plate orientation).
- 2. Position assembled Spindle/Crank Assembly (17, 39, 8, 46, 53, 68, 37 & 69) into Left Gearcase. (Spindle components should be pre-lubricated with a light coating of grease prior to reassembly). It is also beneficial to have the Barrel Cam (31) and Extension Spring (44) installed in Left Gearcase (29). Once the Spindle/Crank Assembly is in the Left Gearcase, position/seat the Front Bushing Car rier (58) over Pivot Pin (6) that's pressed into Left Gearcase Assembly. Secure Orbit Slot (53) to the Left Gearcase Assembly using the three Screws (10) removed in disassembly.

72 73 74

Pre-assemble

these three parts

6

3. Turn Crankshaft/Spindle Assembly <u>by hand, applying a downward pressure</u> until the splines located on the bottom of the Crank Assembly Drive Hub drop down and interlock with the splined notches in the I.D. of Metal Plate (51). Once the two pieces are interlocked together, hold the assembly down tight and turn Gearcase Assembly (29) over to enable the Right Handed Drive Bolt (5) and Spacer (47) to be slid through Ball Bearing (2). (Before installing Drive Hub Bolt (5) be sure to apply Blue Loctite® to bolt threads). Place the 3/16" x 1-1/2" long steel rod used in disassembly, back through the Counter Balance of Crankshaft Assembly (17) and slowly turn Right Handed Drive Bolt (5) in a clockwise direction until 3/16" long steel rod rests against Connecting Rod. Before tightening Drive Hub Bolt (5), make sure the raised notches located on the O.D. of Metal Plate (52) are engaged with corresponding recess in Spiral Bevel Gear (36), see Figure 4. Using an inch pound torque wrench and a 3/16" hex key, torque Drive Hub Bolt (5) to 210 in./lbs. or bolt can be tightened using a foot

To achieve the proper press dimension shown below, pre-assemble / press together Ball Bearing (72), Grease Slinger (73) and Pinion Gear (74) prior to

Place a thin coat of lightweight oil onto the fan end of the armature shaft to aid in the pressing of the pre-assembled parts. Prior to assembly with the Armature, be sure that the Bearing Plate Retainer (71) is positioned with the side reading 'fan side' facing the fan as shown.

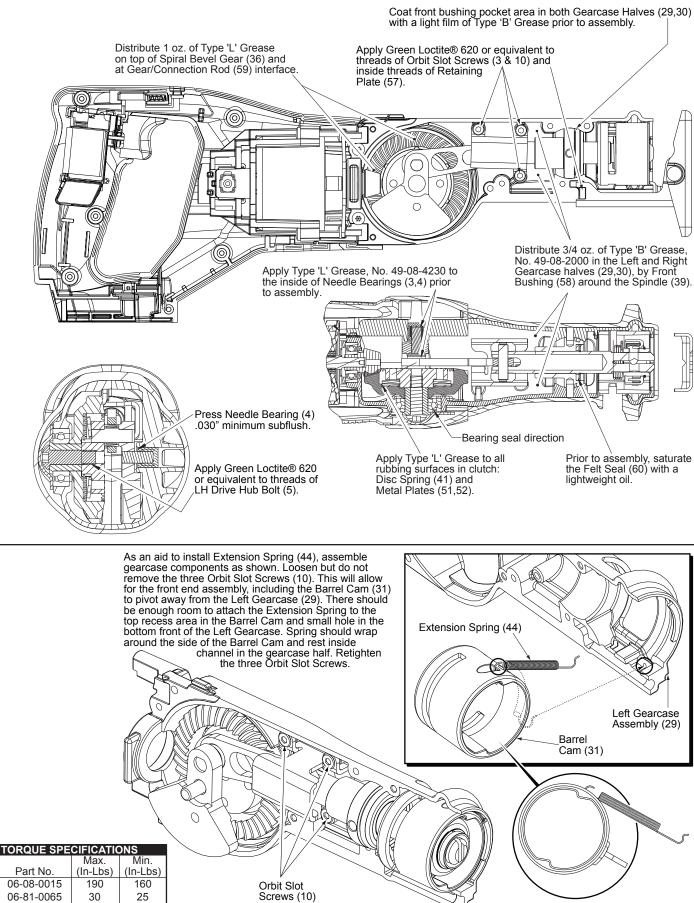


Fig.	Part No.	(In-Lbs)	(In-Lbs)
5	06-08-0015	190	160
9	06-81-0065	30	25
10	06-82-3830	35	25
11	06-82-3900	40	30
12	06-82-5316	35	25
13	06-82-5346	35	25
14	06-82-5362	15	10
15	06-82-7261	20	10
16	06-82-7290	20	10

REMOVING THE STEEL QUIK-LOK® BLADE CLAMP -

- · Remove external retaining ring (38) and pull front cam (48) off.
- Pull lock pin (55) 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 (40) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (64) onto spindle aligning hole on sleeve with hole in spindle.
- Slide rear cam over sleeve until it bottoms on sleeve shoulder, <u>ensure spring leg</u> 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 (55) to be inserted into sleeve/spindle holes. Insert lock pin.
- Align front cam (48) 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 (38) by separating coils, inserting end of ring into groove. 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.

