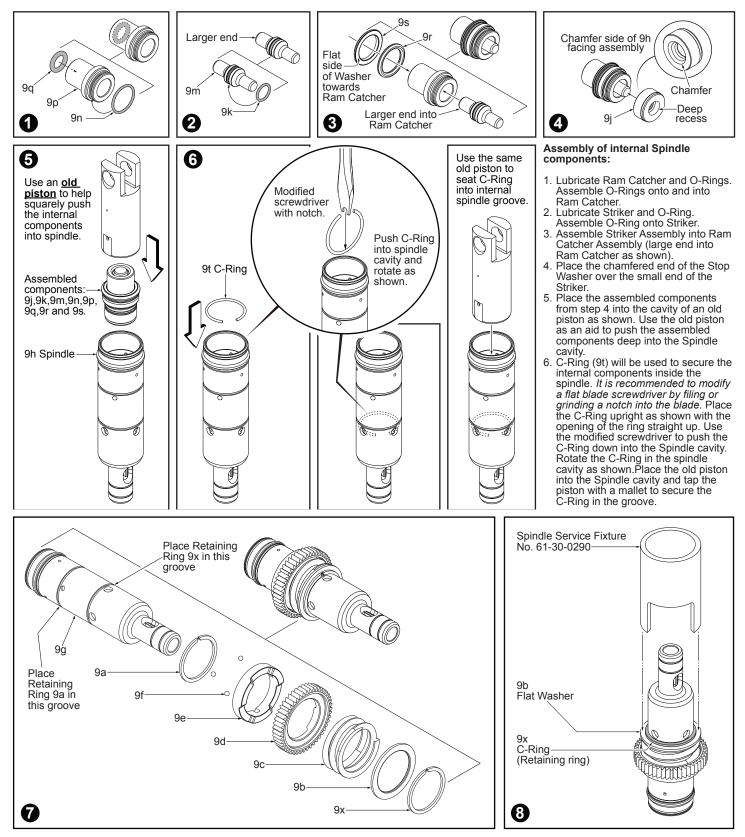


of grease to all internal and external gear teeth.



Assembly of external Spindle components:

Place C-Ring 9a onto Spindle. With the aid of a snap ring pliers, work the C-Ring into the rear most spindle groove and snap into place.

As an aid, put a dab of grease on your finger to pick up and place the three Steel Balls 9f into the three small holes on the Spindle just above the previously installed C-Ring.

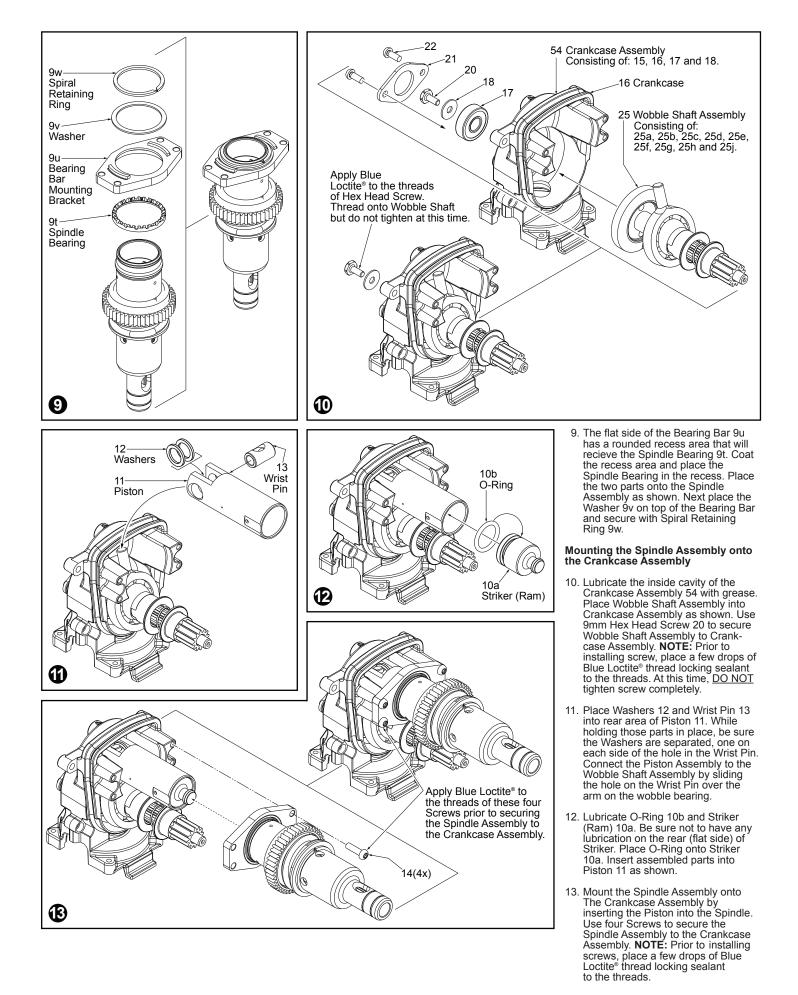
Lubricate and install the Clutch Plate 9e onto the Spindle. Be sure to orient the part as shown and position with the three notches on the back of the plate over the three steel balls.

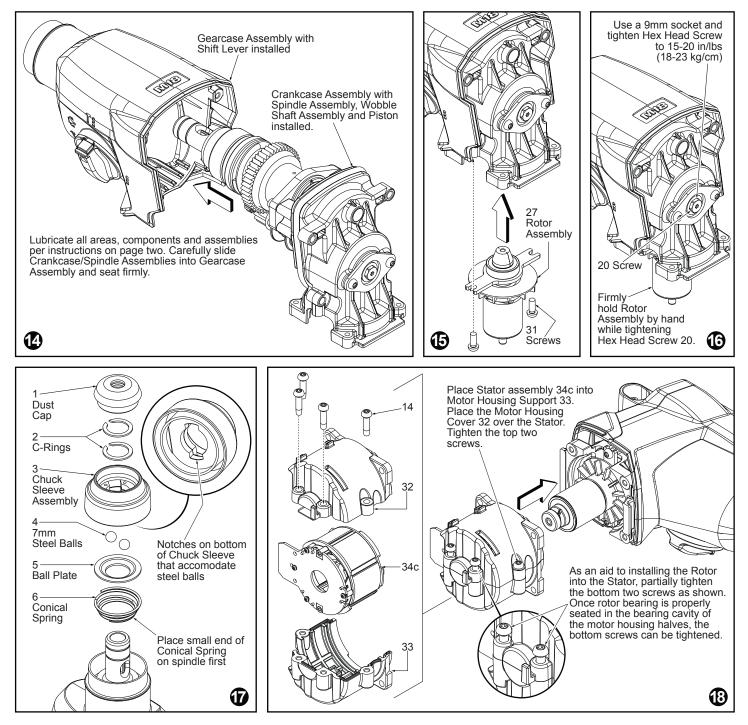
Lubricate and install the Clutch Gear 9d. Place the Clutch Spring 9c over the Clutch Gear and the Washer 9b over the Spring.

Place C-Ring 9x onto Spindle. With the aid of a snap ring pliers, work the C-Ring down to the other parts assembled onto spindle.

 Place Spindle Service Fixture 61-30-0290 over the assembled parts and the spindle. Position so the fixture rests on Flat Washer 9b. Place the fixture and spindle assembly in an arbor press and carefully compress the Clutch Spring enough to expose the spindle groove for C-Ring 9x.

While compressed, use a screwdriver to work C-Ring 9x into the groove.





- 14. Install the Crankcase / Spindle Assembly into the Gearcase Assembly while following the lubrication instructions on page two.
- Install the Rotor Assembly 27 into the bottom of the Crankcase. To prevent uneveness, start one screw 31 but do not tighten. Install the other screw and tighten both to 21-26 in/lbs (25-30 kg/cm).
- 16. The Hex Head Screw 20 on the back of the crancase can now be tighten. Use a 9mm socket on the screw While holding the Rotor firmly by hand. Torque to 15-20 in/lbs (18-23 kg/cm).
- 17. Install the front components onto the Spindle.

Place the small end of the Conical Spring 6 onto the spindle first.

Place the Ball Plate 5 over the spring (flat side up).

Compress the Conical Spring to install the two Steel Balls 4.

Place the Chuck Sleeve Assembly 3 onto the Spindle over the Steel Balls. Notice the notches in the sleeve that correspond to the Steel Balls.

Install one of the C-Rings onto the bottom most groove on the front of the Spindle. Be sure the C-Ring is seated properly in that groove. Check the Chuck Sleeve Assembly for proper functionality.

 Continued... Install the second C-Ring onto the front most groove of the Spindle. Be sure the C-Ring is seated properly in that groove.

Place the Dust Cap 1 over the front of the Spindle and that last C-Ring. Once again check that the Chuck Sleeve Assembly is functioning properly.

18. Place Stator Assembly 34c into Motor Housing Support 33.

Place the Motor Housing Cover 32 over the Stator.

Place all four Screws 14 onto the Motor Housing Cover. Tighten the top two screws. Drive but do not seat the bottom two screws. Leave the bottom two screws out as shown above. This is done as an aid for easier installation of the Rotor and Rotor Bearing into the Stator/Motor Housing Assemblies.

Once rotor bearing is properly seated in the bearing cavity of the motor housing halves, the bottom screws can be tightened. All four screws are to be tightened to 30-34 in/lbs (35-40 kg/cm).

