

to the inside of piston #27.

Apply a thin film of grease

No grease on the back flat of ram #25.

Place approximately 13 grams (.5 oz.) of grease over the wobble bearing and 1st gear of the wobble shaft assembly #31.

Place a total of 13 grams (.5 oz.) of grease over the pinion gearing of wobble shaft assembly #31 and the 2nd stage gear #16.

•14-46-2416 ROTARY HAMMER SERVICE MAINTENANCE KIT			
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	42-52-5262	Сар	1
2	42-96-0035	Sleeve	1
6	44-90-0106	Snap Ring	1
8	02-02-0146	6.5mm Steel Ball	1
14c	34-40-0530	O-Ring	1
14e	34-40-0531	O-Ring	1
14f	44-90-0109	Snap Ring	1
15	02-02-1230	3.0 Steel Ball	1
18	05-84-0005	M3 x 0.5 x 8.5 mm	1
19	45-88-0107	Wave Washer	1
26	34-40-0532	O-Ring	1
29	45-88-0228	Wrist Pin Washer	2
33	43-84-0300	Felt Plug	1
35	40-50-1220	Spring	1
37	34-40-0533	O-Ring	1
-	49-08-5262	1.4 oz. / 40gr. Tube 'S 2' Grease	1

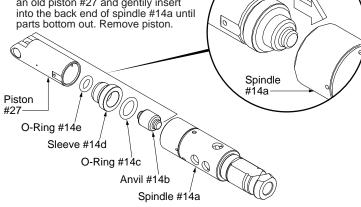
NOTE:

As an aid to installing items #14b, #14c, #14d and #14e squarely into spindle #14a, the following steps should be followed:

Piston

#27

- 1. Place o-ring #14e inside sleeve #14d.
- 2. Place anvil #14b inside sleeve 14d.
- Slide o-ring #14c onto anvil #14b. 4. Place that assembly of parts on top of an old piston #27 and gentily insert



LUBRICATION NOTES: Type 'S2' Grease No. 49-08-5262, 1.4oz. / 40g tube

Prior to reinstalling, clean gear assemblies with a clean, dry cloth. Lightly coat all parts highlighted here with 'S2' grease. Apply a greater amount of grease to all internal and external gear teeth.

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SCREW TORQUE SPECIFICATIONS SEAT TORQUE PART NO. (KG/CM) (IN/LBS) FIG. WHERE USED 05-74-0075 3 Front Cover (Top) 4-5 3-4 5 05-74-0076 Front Cover (Bottom) 4-5 3-4 05-84-0005 18 Gearcase (Bottom) 15-19 13-16 05-81-0020 **Ball Bearing Retainers** 8-12 7-10 22 34 05-74-0010 Rear Gearcase (Top) 12-17 10-14 34 05-74-0010 Motor Mounting Plate 12-17 10-14 39 05-74-0012 Rear Gearcase (Bottom) 12-17 10-14 06-82-7225 Cover Housing 43c 8-10 7-8

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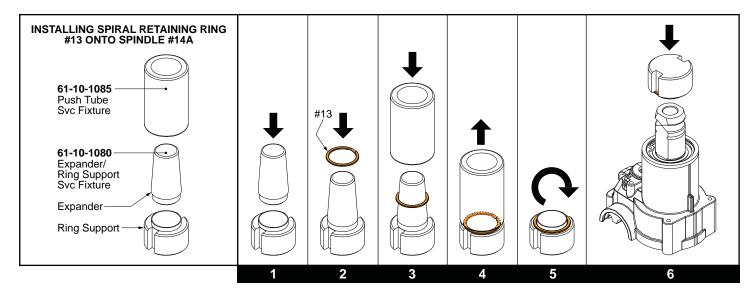
NOTE:

As an aid to installing snap ring #14f into spindle #14a, rest the snap ring on rear spindle, perpendicular to the opening. To condense the snap ring, use a flat blade screwdriver to push snap ring down into the spindle cavity. Push the snap ring past the shoulder in the spindle before rotating the snap ring in the cavity.

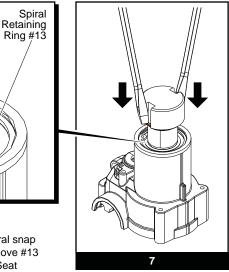
Press snap ring into the retaining slot, securing items 14b, 14c, 14d and 14e Snap Ring #14f Shoulder Retaining slot in spindle #14a Spindle #14a

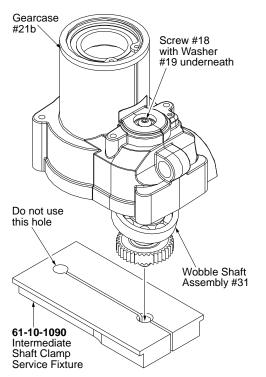
NOTE:

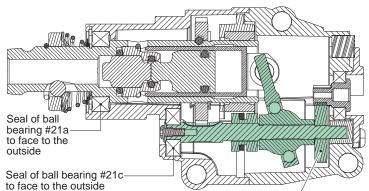
As an aid to installing snap ring, it may be helpful to file or grind a notch in the bottom flat of the screwdriver to accommodate the round of the snap ring. As force is applied to the snap ring, the open end of the ring will close in on the screwdriver. It may be necessary to do additional modifications to the screwdriver (grinding the sides of the blade or shaft) to allow for the insertion of the ring and the removal of the screwdriver.



- 1. Assemble Expander/Ring Support Service Fixture (61-10-1080) by inserting the expander into the ring support as shown.
- 2. Place the assembled fixture on a flat, level surface. Place the Spiral Retaining Ring #13 squarely onto tapered end of the expander.
- 3. Place the Push Tube Service Fixture (61-10-1085) over the expander until it rests against the spiral retaining ring. With the use of a mallet, drive the push tube and spiral retaining ring down onto the ring support.
- 4. Remove the push tube. The spiral retaining ring has been expanded around the collar of the ring support.
- 5. Turn the ring support/spiral snap ring upside down.
- 6. Place the ring support/spiral snap ring over the top of spindle #14a.
- 7. Locate the two slots on the ring support. Place a flat blade screwdriver in each slot, resting on the spiral snap ring. (It is preferred that the same size screwdrivers are used). Place even downward pressure to remove #13 off of the ring support and onto the spindle. Slide the spiral snap ring down the length of the spindle. Seat squarely into groove of spindle as shown.







<u>DO NOT</u> attempt to service or modify any individual component of wobble shaft assembly #31. <u>DO NOT</u> press apart or change the seating of the gear.

To properly assemble the wobble shaft assembly #31 to the gearcase #21b, the Intermediate Shaft Service Fixture (61-10-1090) will be needed.

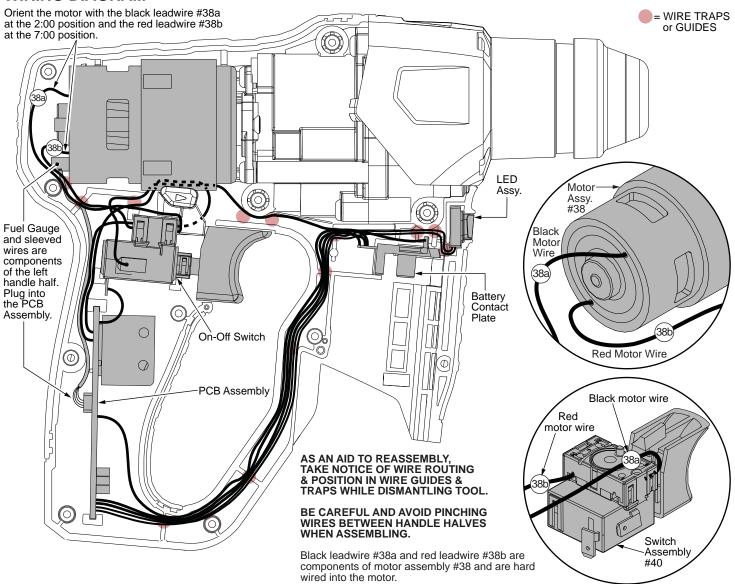
Orient the service fixture as shown. Loosely place the service fixture in the jaws of a bench vise with the lip of the fixture riding on top of the vise.

Insert the narrow shaft end of the wobble shaft assembly through ball bearing #21c (not shown) inside the gearcase. Temporarily secure the wobble shaft assembly to the gearcase using washer #19 and screw #18). Hand tighten.

Place the wobble shaft into the hole of the service fixture as shown. Tighten the jaws of the bench vise to secure the service fixture around the intermediate shaft.

After the proper torque value is applied to screw #18 (13-16 in/lbs or 15-19 kg/cm), remove the gearcase/wobble shaft assembly from the service fixture.

WIRING DIAGRAM



When replacing the motor assembly or the switch assembly, attach wires #38a and 38b from the motor to the switch as shown. **NOTE:** Soldered wires are not shown in the switch detail for clarity purposes.