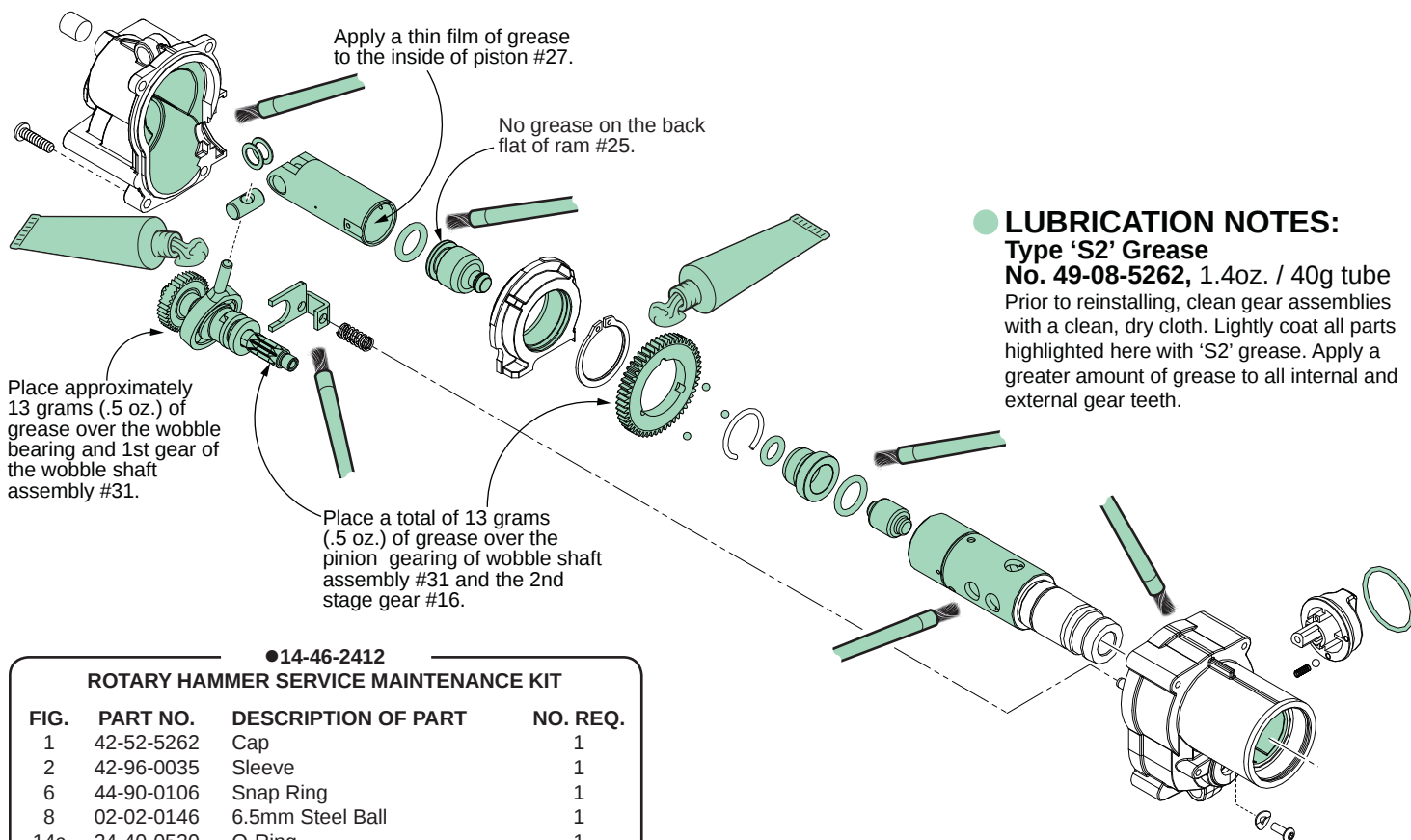


- MILWAUKEE ELECTRIC TOOL CORPORATION**
13135 W. Lisbon Road, Brookfield, WI 53005
Drwg. 2



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.

●14-46-2412

ROTARY HAMMER SERVICE MAINTENANCE KIT

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	42-52-5262	Cap	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	05-81-0015	M3 x 0.5 x 8.5 mm	1
19	45-88-0561	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

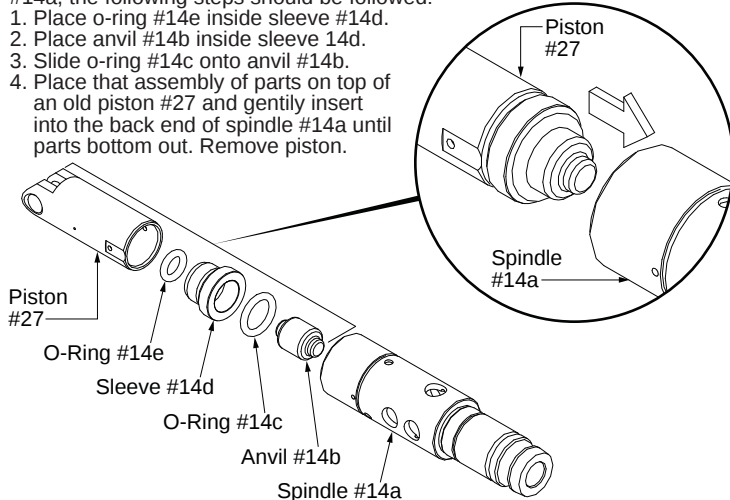
SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			(KG/CM)	(IN/LBS)
3	05-74-0075	Front Cover (Top)	4-5	3-4
5	05-74-0076	Front Cover (Bottom)	4-5	3-4
18	05-81-0015	Gearcase (Bottom)	15-19	13-16
22	05-81-0020	Ball Bearing Retainers	8-12	7-10
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
43c	06-82-7225	Cover Housing	8-10	7-8

NOTE:

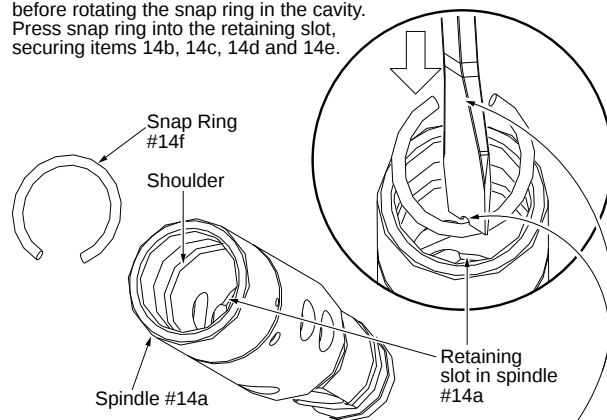
As an aid to installing items #14b, #14c, #14d and #14e squarely into spindle #14a, the following steps should be followed:

1. Place o-ring #14e inside sleeve #14d.
2. Place anvil #14b inside sleeve #14d.
3. Slide o-ring #14c onto anvil #14b.
4. Place that assembly of parts on top of an old piston #27 and gently insert into the back end of spindle #14a until parts bottom out. Remove piston.



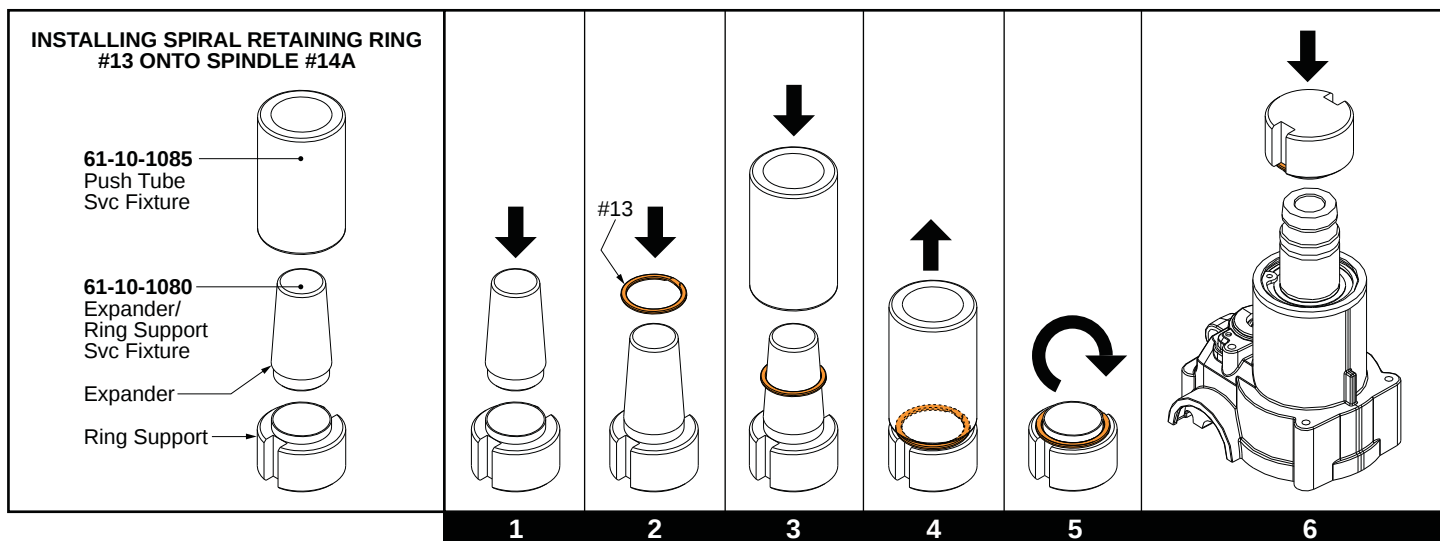
NOTE:

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.



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.

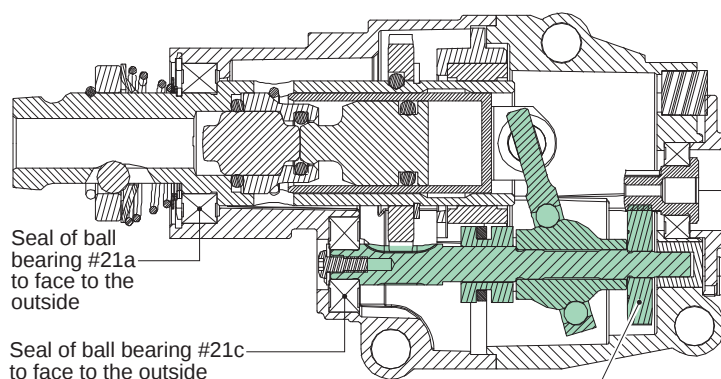
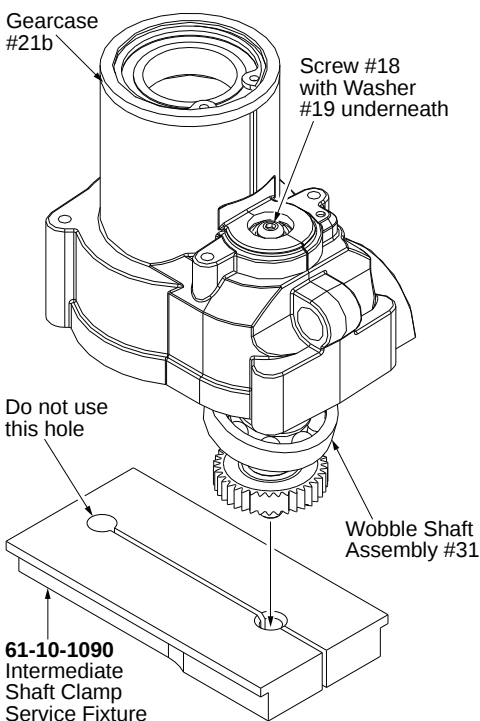
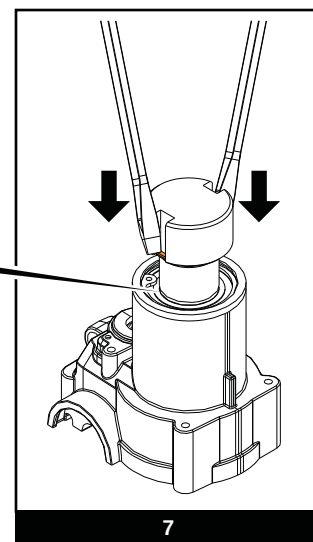
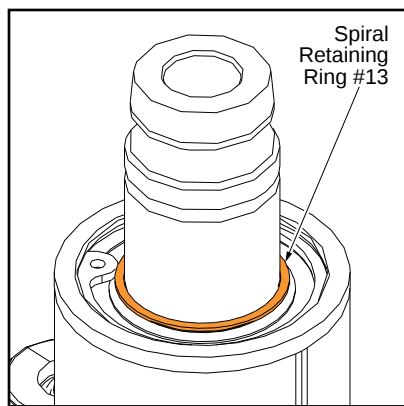
3. Place the Push Tube Service Fixture (61-10-1085) over the expander until it rests against the spiral retaining ring. With the use of a mallet, drive the push tube and spiral retaining ring down onto the ring support.

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.



DO NOT attempt to service or modify any individual component of wobble shaft assembly #31. **DO NOT** 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.

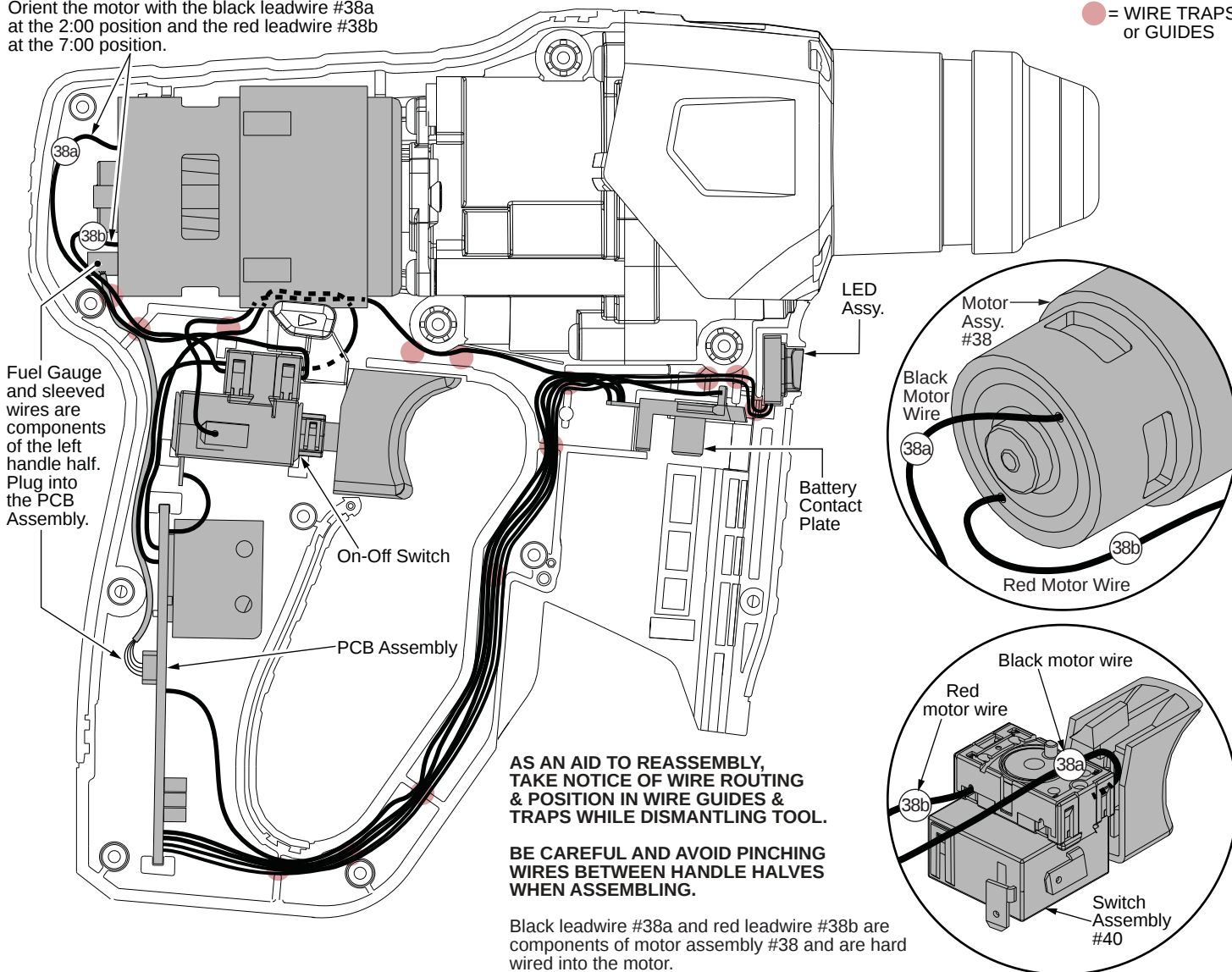
Place the wobble shaft into the hole of the service fixture as shown. Tighten the jaws of the bench vise to secure the service fixture around the intermediate shaft.

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

Orient the motor with the black leadwire #38a at the 2:00 position and the red leadwire #38b at the 7:00 position.

● = WIRE TRAPS
or GUIDES



**AS AN AID TO REASSEMBLY,
TAKE NOTICE OF WIRE ROUTING
& POSITION IN WIRE GUIDES &
TRAPS WHILE DISMANTLING TOOL.**

**BE CAREFUL AND AVOID PINCHING
WIRES BETWEEN HANDLE HALVES
WHEN ASSEMBLING.**

Black leadwire #38a and red leadwire #38b are components of motor assembly #38 and are hard wired into the motor.

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.