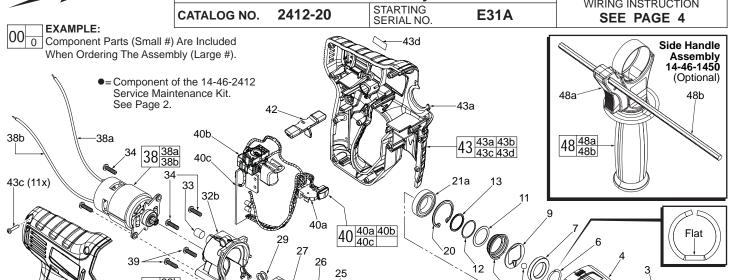
SERVICE PARTS LIST

Milwaukee SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS Cordless M12 SDS Rotary Hammer

REVISED BULLETIN

DATE Sept. 2012

WIRING INSTRUCTION SEE PAGE 4



28

43b 31

	4c	
	14b 14a	
	14 14a 14b 14d 14e	14c 14f 45 15 35 36 37
	21 21b	21c
See page 2 for fastener	21 22	37
torque chart	23	36
Milwaukee	46 60	15
	22 21c 21b	19 18 35
	22 210 210	60-

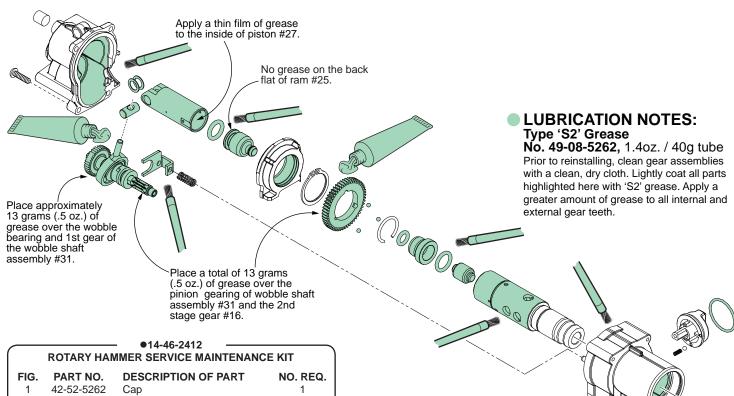
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ
38b		Red Leadwire Assembly	(1)
39	05-74-0012	M4 x 20 Screw	(2)
40	23-66-0820	Switch Assembly	(1)
40a		Contact Plate Holder	(1)
40b		Switch	(1)
40c		PCB Assembly	(1)
42	42-42-0057	Forward / Reverse Shuttle	(1)
43	14-34-1010	Handle Housing Assy. with Fuel Gauge	(1)
43a		Support Housing	(1)
43b		Cover Housing	(1)
43c	06-82-7225	M3 x 12.5 Pan Hd. Plastite T-10 Screw	(11)
43d	10-20-0304	Fuel Gauge Label	(1)
44	12-20-2412	Service Nameplate (Not Shown)	(1)
45	44-10-0610	Shift Knob Assembly	(1)
46	42-55-2412	Carrying Case	(1)
47	10-20-1341	Warning Label (Not Shown)	(1)
48	14-46-1450	Side Handle Assembly (Optional)	(1)
48a	14-34-0650	Auxiliary Side Handle (Optional)	(1)
48b	44-94-5381	Depth Rod (Optional)	(1)

FIG.

Apply a drop of Blue Loctite® 242 or the equivelant to the threads of screw prior to installing in front gearcase. 18

- There is a 'flat' that is opposite the opening on the snap ring. Align 'flat' on snap ring with 'flat' on spindle. 6,14a
- 8,9 Position ball notch on support plate and ball towards 'flats'.

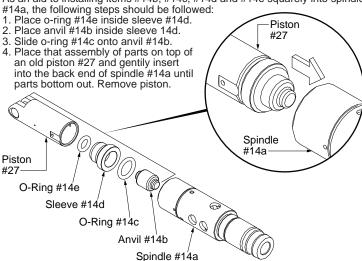
MILWAUKEE ELECTRIC TOOL CORPORATION



RUTART HAWIMER 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	

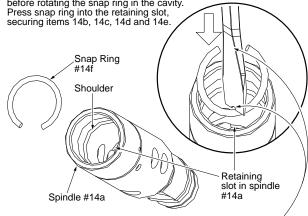
SCREW TORQUE SPECIFICATIONS				
		L	SEAT TORQUE	
FIG.	PART NO.	WHERE USED	(KG/CM)	(IN/LBS)
3	05-74-0075	Front Cover (Top)	4-5	3-4
5	05-74-0076	Front Cover (Bottom)	4-5	3-4
18	05-81-0015	Gearcase (Bottom)	15-19	13-16
22	05-81-0020	Ball Bearing Retainers	8-12	7-10
34	05-74-0010	Rear Gearcase (Top)	12-17	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

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



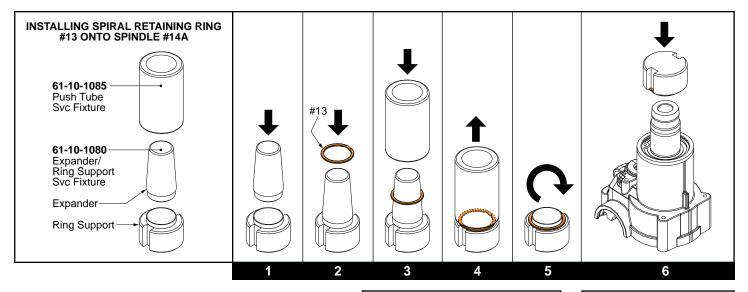
NOTE:
As an aid to installing snap ring #14f into spindle #14a, rest the snap ring on rear spindle, perpendicular to the opening. To condense the snap ring, use a flat blade screwdriver to push snap ring down into the spindle cavity. Push the snap ring past the shoulder in the spindle before rotating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

Press snap ring into the retaining slot, securing items 14b, 14c, 14d and 14e.

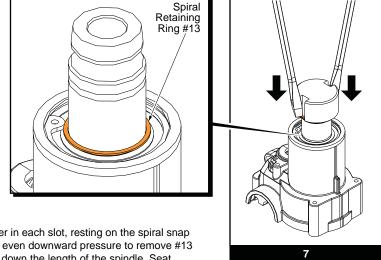


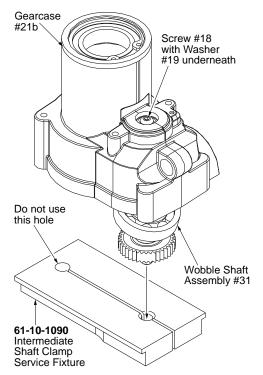
NOTE:

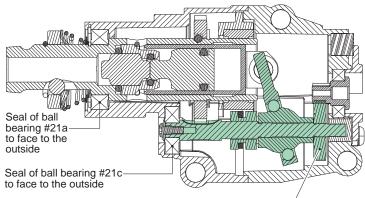
As an aid to installing snap ring, it may be helpful to file or grind a notch in the bottom flat of the screwdriver to accommodate the round of the snap ring. As force is applied to the snap ring, the open end of the ring will close in on the screwdriver. It may be necessary to do additional modifications 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.



- Assemble Expander/Ring Support Service Fixture (61-10-1080) by inserting the expander into the ring support as shown.
- Place the assembled fixture on a flat, level surface. Place the Spiral Retaining Ring #13 squarely onto tapered end of the expander.
- 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.

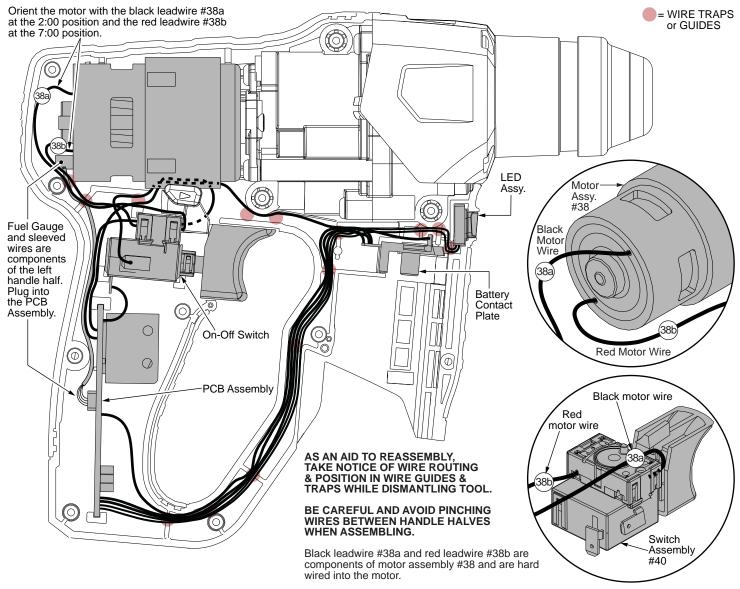
Orient the service fixture as shown. Loosely place the service fixture in the jaws of a bench vise with the lip of the fixture riding on top of the vise.

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.