



M18 BH

SERVICE PARTS DIAGRAM

TTI Model Number: 018 088 012, 013

M18™ COMPACT SDS HAMMER

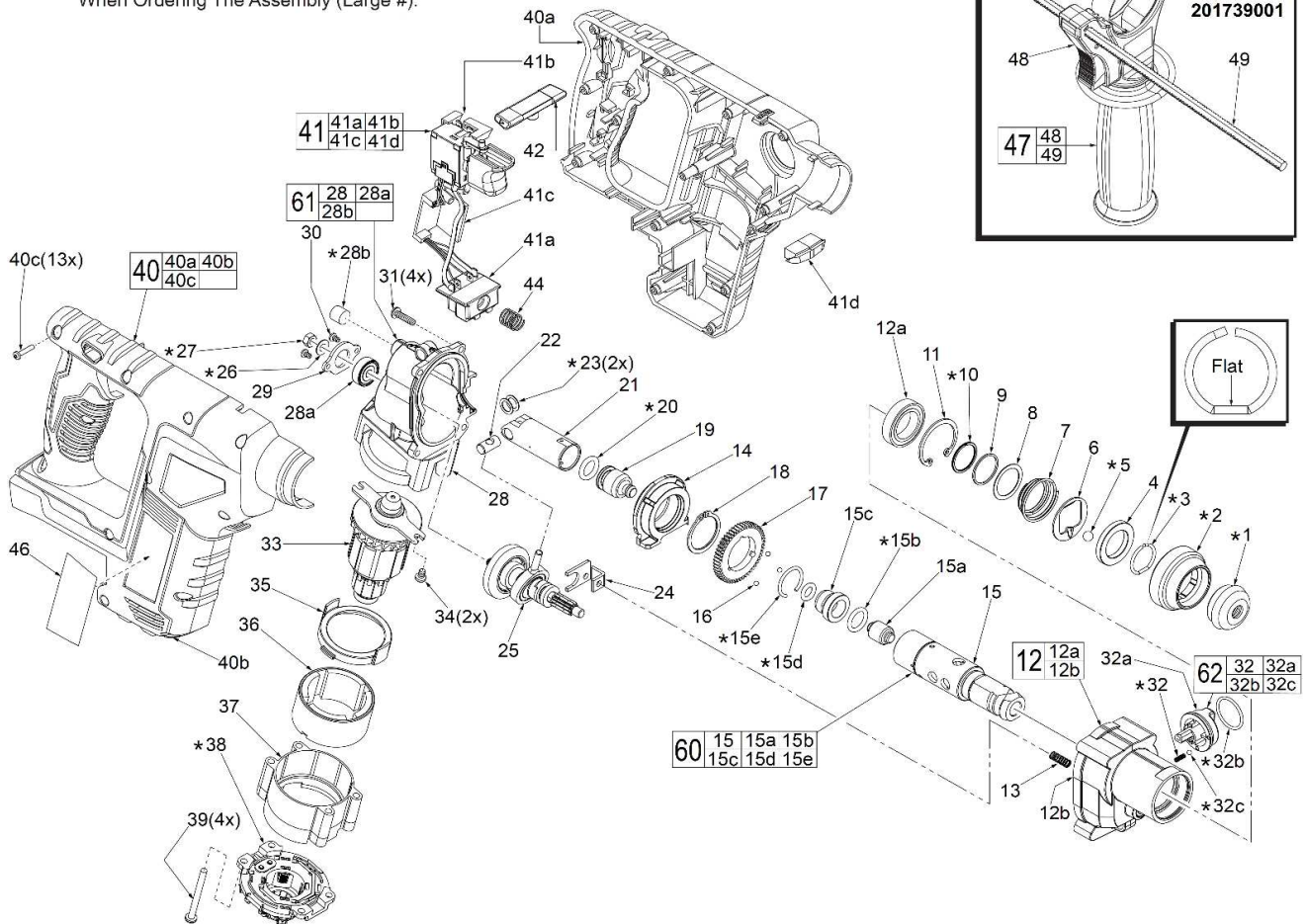
Bulletin Date:

Mar-20

Starting Serial Number:

VERSION A - H2014

EXAMPLE:
Component Parts (Small #) Are Included
When Ordering The Assembly (Large #).



SET	*	1000	1	2	3	5	10	15b	15d	15e	20
8		23	26	27	28b	32	32b	32c	38	1200	

Grease 1200

2000 2001





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SERVICE PARTS LIST

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ITEM	PART NUMBER	PART DESCRIPTION	QTY (PCS)
1	561993001	CAP	1
2	523886001	SLEEVE	1
3	692991001	SNAP RING	1
4	611852001	HOLDING RING	1
5	693036001	6.5MM STEEL BALL	1
6	633890002	SUPPORT PLATE	1
7	672799001	PRESSURE SPRING	1
8	634070001	FLAT WASHER	1
9	634360001	FLAT WASHER	1
10	693113001	SPIRAL RETAINING RING	1
11	633037001	RETAINING RING	1
12	202447002	FRONT GEARCASE ASSEMBLY	1
12a	681562001	BALL BEARING	1
12b	690068001	FRONT GEARCASE WITH SHIFT PIN & NEEDLE BEARING	1
13	692988001	SHIFTER SPRING	1
14	202445002	BEARING HOLDER ASSEMBLY WITH NEEDLE BEARING	1
15	621282003	SPINDLE	1
15a	692979001	ANVIL	1
15b	562790001	O-RING	1
15c	692989001	SLEEVE	1
15d	562792001	O-RING	1
15e	692990001	SNAP RING	1
16	611405001	3.0MM STEEL BALL	3
17	611486005	2ND STAGE GEAR	1
18	672676001	RETAINING RING	1
19	692981001	RAM	1
20	562791001	O-RING	1
21	693529001	PISTON	1
22	692982001	WRIST PIN	1
23	633868001	WASHER	2
24	634531001	SHIFTING CLIP	1
25	202443001	WOBBLE SHAFT ASSEMBLY	1
26	634903001	LOCK WASHER	1
27	680196006	JAM NUT	1



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28	642023001	REAR GEARCASE	1
28a	681563001	BALL BEARING	1
28b	902621001	FELT PLUG	1
29	634533001	BEARING PLATE	1
30	660380009	M3 X 5MM SCREW	2
31	660383008	M4 X 16MM SCREW	4
32	692992001	SHIFT KNOB SPRING	1
32a	591302001	SHIFT KNOB	1
32b	562794001	O-RING	1
32c	611405001	3.0MM STEEL BALL	1
33	202446002	ARMATURE ASSEMBLY	1
34	660414007	M4 X 6MM SCREW	1
35	525741001	FAN BAFFLE	1
36	741496001	FIELD	1
37	525440001	MOTOR CAGE	1
38	290586004	BRUSH CARD ASSEMBLY	1
39	661210001	M4 X 45MM SCREW	4
40	202449002	HANDLE HOUSING ASSEMBLY	1
40a	-	SUPPORT HOUSING (LEFT HOUSING HALVE)	1
40b	-	COVER HOUSING (RIGHT HOUSING HALVE)	1
40c	660821002	4-20 X 1/2" SCREW	13
41	202448002	SWITCH / ELECTRONICS ASSEMBLY	1
41a	307300001	TERMINAL BLOCK	1
41b	760530011	ON-OFF SWITCH	1
41c	280085092	PCB ASSEMBLY	1
41d	290804063	LED ASSEMBLY	1
42	525332001	FWD./REV. SHUTTLE	1
44	691093001	TERMINAL BLOCK SPRING	1
46	941045808	SERVICE NAMEPLATE	1
47	201739001	SIDE HANDLE ASSEMBLY	1
48	300188086	SIDE HANDLE	1
49	620448002	DEPTH ROD	1
50	304112010	BLOW MOLDED CARRYING CASE	1
60	202518001	SPINDLE ASSEMBLY	1
61	202444002	REAR GEAR CASE ASSEMBLY	1
62	202198002	SHIFT KNOB ASSEMBLY	1
1000	204705001	M18 BH SERVICE KIT, 018088	1
1200	-	TYPE S2 GREASE 1.4oz/40g TUBE	1
2000	61-10-1085	PUSH TUBE SERVICE FIXTURE	1
2001	61-10-1080	EXPANDER/RING SUPPORT SERVICE FIXTURE	1



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SERVICE INSTRUCTION

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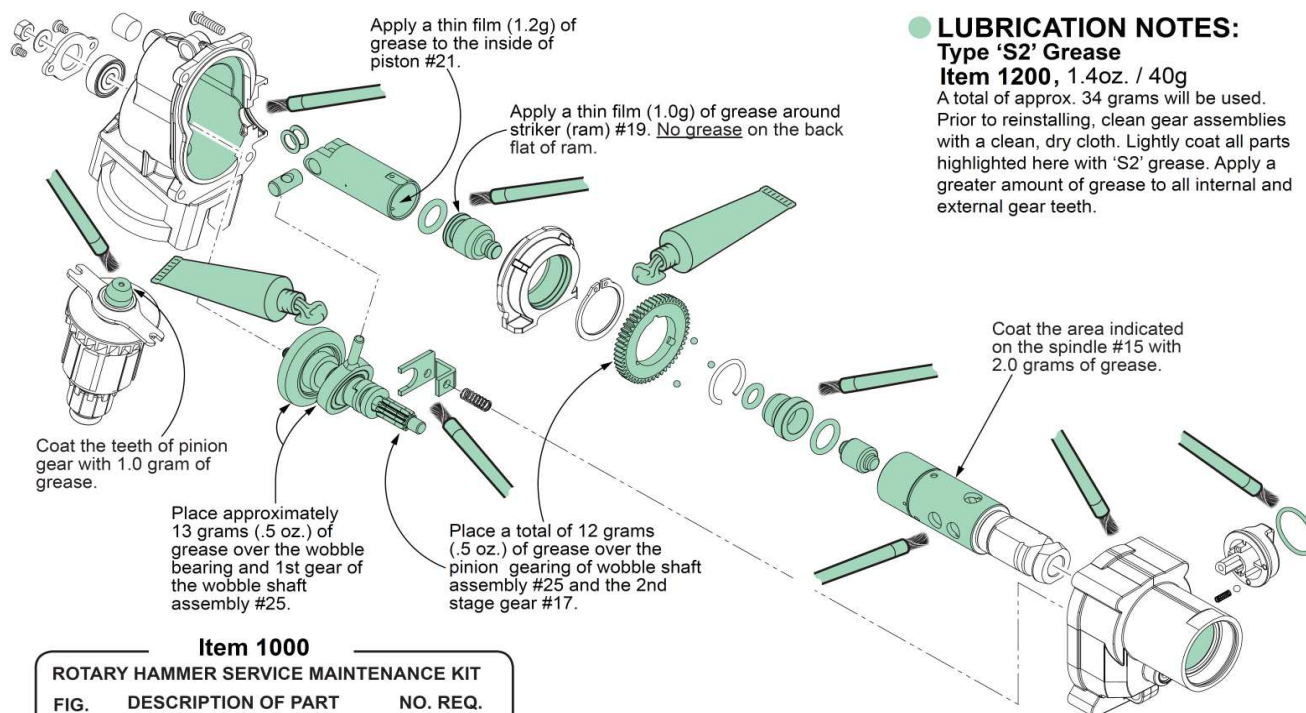
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LUBRICATION NOTES:

Type 'S2' Grease

Item 1200, 1.4oz. / 40g

A total of approx. 34 grams will be used. 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.

Item 1000

ROTARY HAMMER SERVICE MAINTENANCE KIT

FIG.	DESCRIPTION OF PART	NO. REQ.
1	Cap	1
2	Sleeve	1
3	Snap Ring	1
5	6.5mm Steel Ball	1
10	Spiral Retaining Ring	1
15b	O-Ring	1
15d	O-Ring	1
15e	Snap Ring	1
20	O-Ring	1
23	Wrist Pin Washer	2
26	Lock Washer	1
27	Jam Nut	1
28b	Felt Plug	1
32	Spring	1
32b	O-Ring	1
32c	3.0 Steel Ball	1
38	Brush Card Assembly	1
1200	1.4 oz. / 40gr. 'S 2' Grease	1

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			(KG/CM)	(Nm)
27	680196006	Jam Nut	40-50	3.96-4.86
30	660380009	Inter. Shaft Bearing Plate	4-6	0.34-0.57
31	660383008	Rear Gearcase	12-17	1.13-1.7
34	660414007	Motor Bearing Plate	12-17	1.13-1.7
39	661210001	Brush Card / Motor Cage	12-17	1.13-1.7
40c	660821002	Cover Housing	7-10	0.68-0.9
41e	-----	Switch Wires to Brush Card	5-8	0.45-0.79

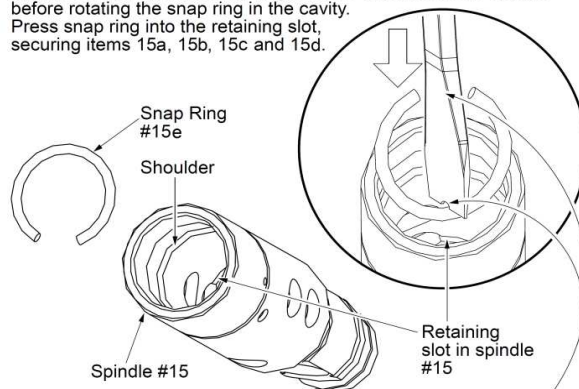
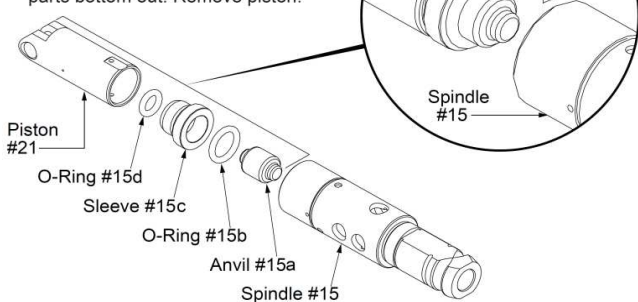
NOTE:

As an aid to installing snap ring #15e into spindle #15, 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 15a, 15b, 15c and 15d.

NOTE:

As an aid to installing items #15a, #15b, #15c and #15d squarely into spindle #15, the following steps should be followed:

1. Place o-ring #15d inside sleeve #15c.
2. Place anvil #15a inside sleeve #15c.
3. Slide o-ring #15b onto anvil #15a.
4. Place that assembly of parts on top of an old piston #21 and gently insert into the back end of spindle #15 until parts bottom out. Remove piston.



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.



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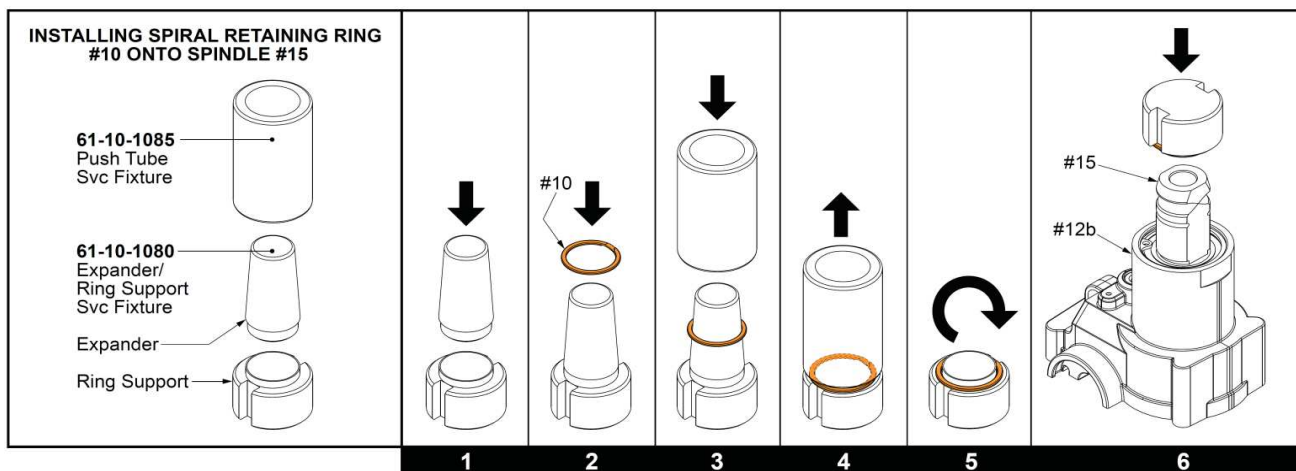
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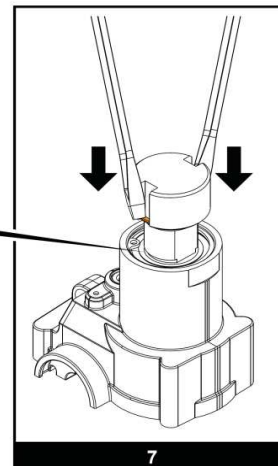
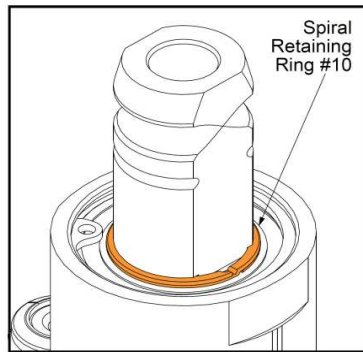
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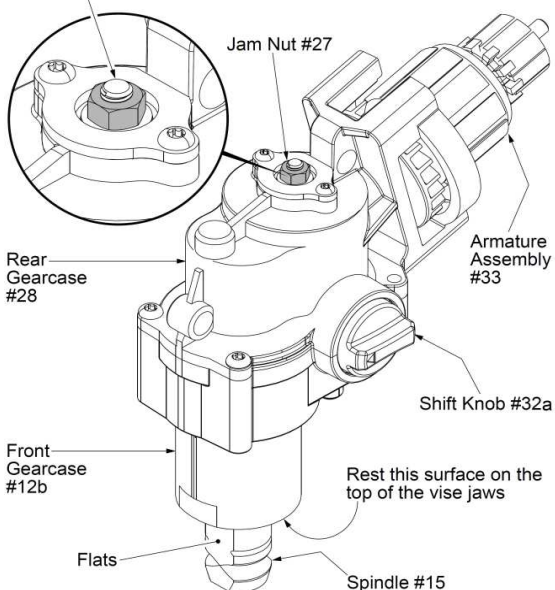


1. Assemble Expander/Ring Support Service Fixture (61-10-1080) by inserting the expander into the ring support as shown.
2. Place the assembled fixture on a flat, level surface. Place the Spiral Retaining Ring #10 squarely onto tapered end of the expander.
3. Place the Push Tube Service Fixture (61-10-1085) 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 #15.



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 #10 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.

Intermediate shaft of
Wobble Shaft Assembly #25



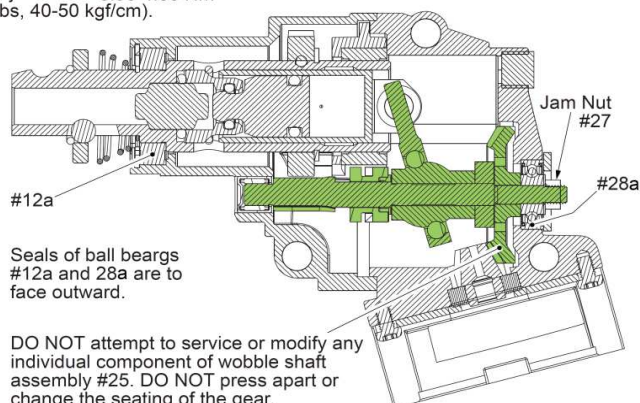
To properly secure the wobble shaft assembly #25 to the rear gearcase #28, use the following procedures as an aid:

Place the assembly shown with the flats of the spindle #15 in a bench vise. Use brass vise jaw caps to protect the spindle. Assembly can rest with the front of the front gearcase #12b resting on top of the vise jaws for 'squareness' when setting the proper torque to the jam nut #27.

Place the shift knob #32a at the 'hammer with rotation' position.

Place an M10 hex socket on the jam nut. Hold by hand the armature assembly #33 (armature pinion gear meshing with the bevel gear of the wobble shaft assembly) to prevent the wobble shaft assembly from spinning.

Torque the jam nut to 3.96-4.86 Nm
(35-43 in/lbs, 40-50 kgf/cm).





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