M18 CH

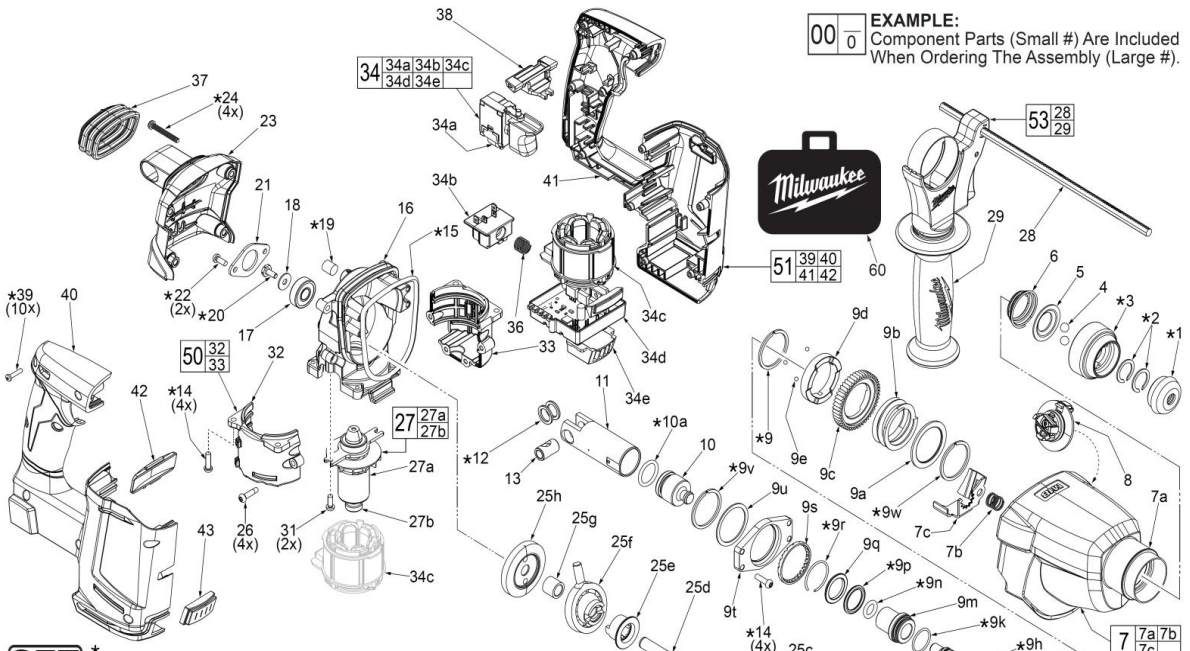
SERVICE PARTS DIAGRAM

TTI Model Number: 018 101 014, 030, 043

M18 FUEL™ SDS-PLUS HAMMER

Bulletin Date:
Aug-17

Starting Serial Number:
VERSION A - C2015



M18 CH

SERVICE PARTS LIST

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ITEM	PART NUMBER	PART DISCRIPTION	QTY (PCS)
1	561993001	RUBBER DUST SHIELD	1
2	-	RETAINING RING	2
3	-	SLEEVE ASSEMBLY	1
4	681154001	STEEL BALL	2
5	635043001	BALL PLATE	1
6	672799001	SPRING	1
7	203181001	FRONT HOUSING ASSEMBLY	1
7a	-	GEARCASE WITH BEARINGS AND SEAL	1
7b	692732001	SPRING	1
7c	635156001	LOCK OUT PLATE	1
8	306972002	SWITCH SHIFT KNOB ASSEMBLY	1
9	-	RETAINING RING	1
9a	633517001	WASHER - STEEL	1
9b	692735001	SPRING	1
9c	612126002	2ND REDUCTION GEAR	1
9d	612145001	CLUTCH PLATE	1
9e	611405001	STEEL BALL	3
9f	693929001	SPINDLE	1
9g	692725001	BRAKE RING / SDS	1
9h	-	RUBBER O-RING	1
9j	692590001	ANVIL SDS	1
9k	-	RUBBER O-RING	1
9m	692722001	RAM CATCHER	1
9n	-	RUBBER O-RING	1
9p	-	RUBBER O-RING	1
9q	612244001	WASHER	1
9r	-	RETAINING RING	1
9s	306516001	BALL BEARING	1
9t	642214001	BEARING BAR	1
9u	635144001	FLAT WASHER	1
9v	-	SPIRAL RETAINING RING	1
9w	-	RETAINING RING	1
10	-	STRIKER	1
10a	-	RUBBER O-RING	1
11	693985001	PISTON	1
12	-	WASHER - STEEL	2
13	692718001	WRIST PIN	1

Milwaukee SERVICE

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ITEM	PART NUMBER	PART DISCRIPTION	QTY (PCS)
14	-	SCREW	8
15	-	RUBBER O-RING	1
16	642215002	GEAR CASE	1
17	681064003	BALL BEARING	1
18	635186001	FLAT WASHER	1
19	-	FELT PLUG	1
20	-	SCREW	1
21	635145001	BEARING RETAINER PLATE	1
22	-	SCREW	2
23	527028001	REAR HOUSING	1
24	-	SCREW	4
25	-	RETAINING RING	1
25a	612130002	2ND STAGE PINION	1
25b	612129002	2ND STAGE PINION COUPLER	1
25c	693982001	SPRING	1
25d	612149002	2ND STAGE I-SHAFT	1
25e	612128003	WOBBLE COUPLER	1
25f	681236001	BALL BEARING	1
25g	612245001	SPACER	1
25h	612153001	BEVEL GEAR	1
26	660024051	SCREW	4
27	203193001	ROTOR ASSEMBLY	1
27a	-	ROTOR	1
27b	681366001	BALL BEARING	1
28	620448002	DEPTH GUIDE ROD	1
29	304389001	AUXILIARY HANDLE ASSEMBLY	1
31	660852001	SCREW	2
32	-	HANDLE COVER	1
33	-	HANDLE SUPPORT	1
34	208039001	ELECTRONICS ASSEMBLY	1
34a	-	SWITCH	1
34b	-	BATTERY TERMINAL CONNECTOR BLOCK	1
34c	-	STATOR	1
34d	-	PCB ASSEMBLY	1
34e	-	TERMINAL BLOCK	1
36	691093001	SPRING	1
37	562680001	RUBBER BELLOWS	1

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ITEM	PART NUMBER	PART DISCRIPTION	QTY (PCS)
38	527031001	F/R LEVER	1
39	-	SCREW	10
40	-	HANDLE COVER	1
41	-	HANDLE SUPPORT	1
42	-	FUEL LOGO	1
43	563444001	RUBBER CAP	1
50	203097001	MOTOR HOUSING ASSEMBLY	1
51	202943001	HANDLES ASSEMBLY	1
53	201755001	HANDLE AND DEPTH ROD ASSEMBLY	1
56	941045834	RATING LABEL (NOT SHOWN)	1
60	307150003	BLOW MOULD CASE ASSEMBLY	1
1000	204582002	M18 ROTARY HAMMER SERVICE KIT,018101	1
1200	-	TYPE GE 00 URETHYN GREASE 2.8OZ/80G TUBE	1
1201	-	TYPE S2 GREASE 1.40OZ/40G TUBE	5
2000	61-30-0290	SPINDLE	1

M18 CH
SERVICE INSTRUCTION

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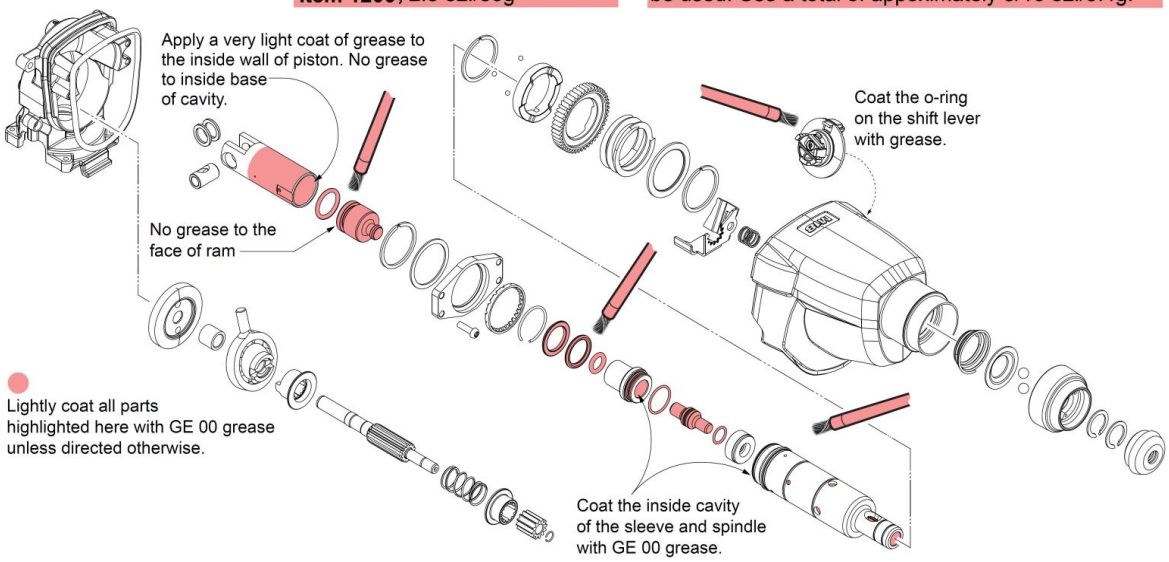
LUBRICATION NOTES:

Type GE 00 Urethyn Grease Item 1200, 2.8 oz./80g

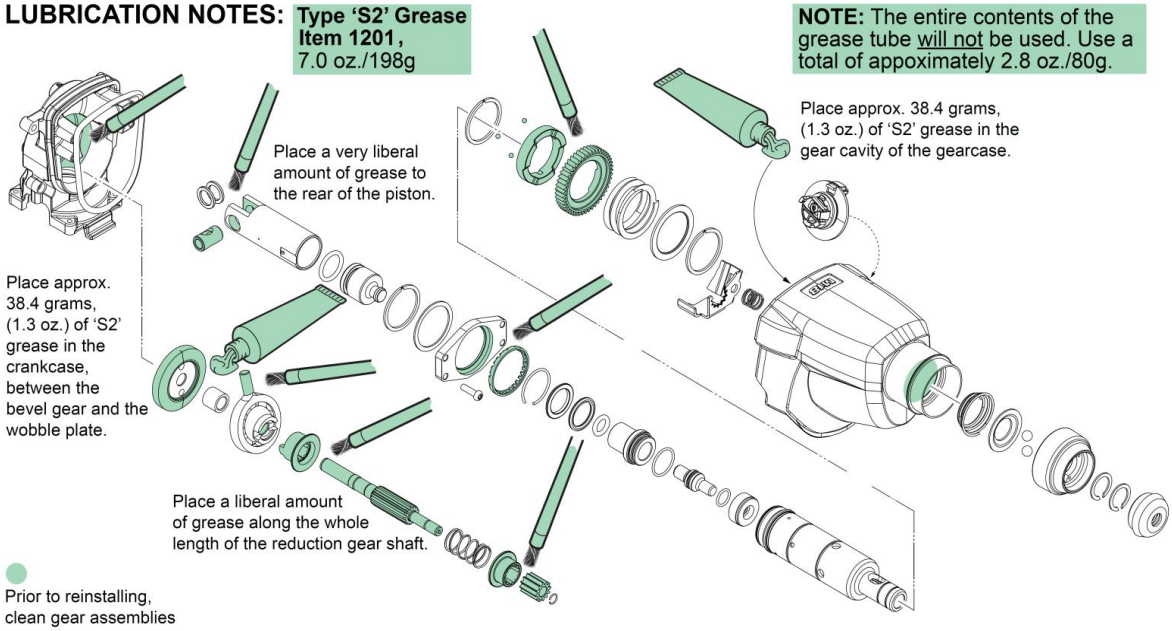
NOTE: The entire contents of the grease tube will not be used. Use a total of appoximately 3/16 oz./5.4g.



LUBRICATION NOTES:

Type 'S2' Grease Item 1201, 7.0 oz./198g

NOTE: The entire contents of the grease tube will not be used. Use a total of appoximately 2.8 oz./80g.



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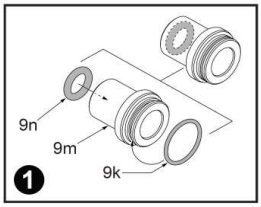
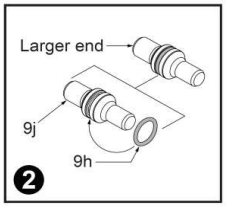
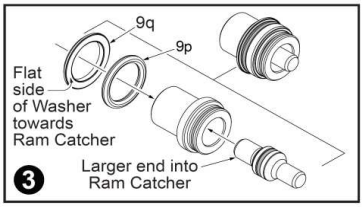
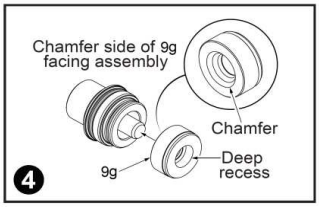
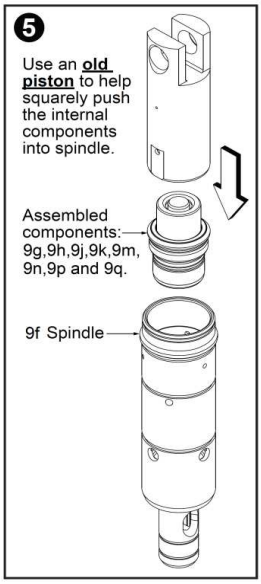
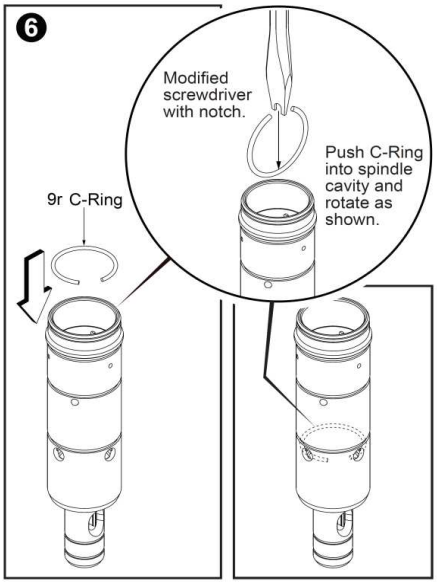


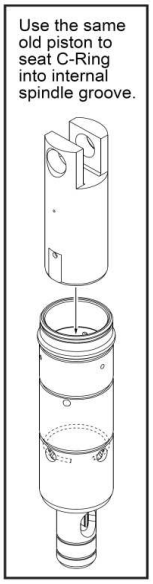






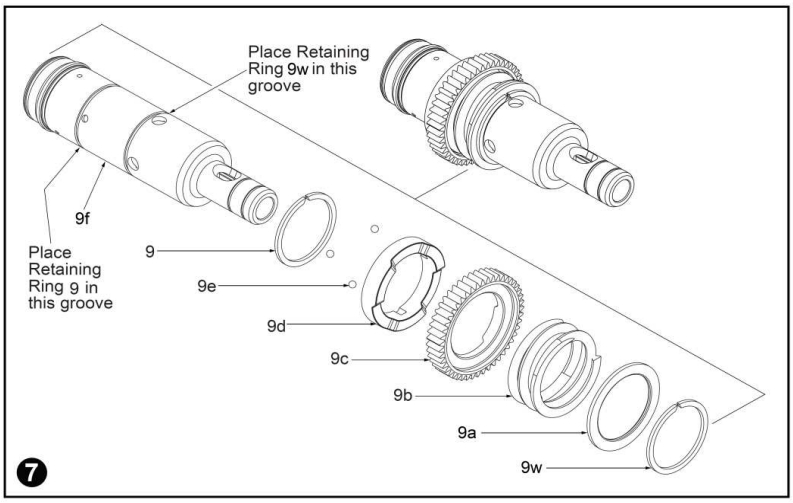


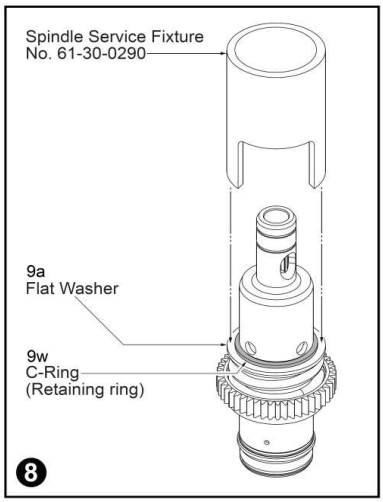




Assembly of internal Spindle components:

1. Lubricate Ram Catcher and O-Rings. Assemble O-Rings onto and into Ram Catcher.
2. Lubricate Striker and O-Ring. Assemble O-Ring onto Striker.
3. Assemble Striker Assembly into Ram Catcher Assembly (large end into Ram Catcher as shown).
4. Place the chamfered end of the Stop Washer over the small end of the Striker.
5. Place the assembled components from step 4 into the cavity of an old piston as shown. Use the old piston as an aid to push the assembled components deep into the Spindle cavity.
6. C-Ring (9r) will be used to secure the internal components inside the spindle. *It is recommended to modify a flat blade screwdriver by filing or grinding a notch into the blade.* Place the C-Ring upright as shown with the opening of the ring straight up. Use the modified screwdriver to push the C-Ring down into the Spindle cavity. Rotate the C-Ring in the spindle cavity as shown.Place the old piston into the Spindle cavity and tap the piston with a mallet to secure the C-Ring in the groove.





Assembly of external Spindle components:

7. Place C-Ring 9 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 9e into the three small holes on the Spindle just above the previously installed C-Ring.

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

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

8. Place Spindle Service Fixture 61-30-0290 over the assembled parts and the spindle. Position so the fixture rests on Flat Washer 9a. 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 9w.

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

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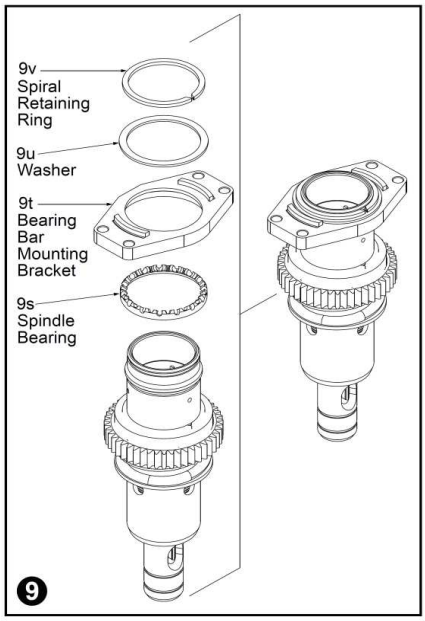

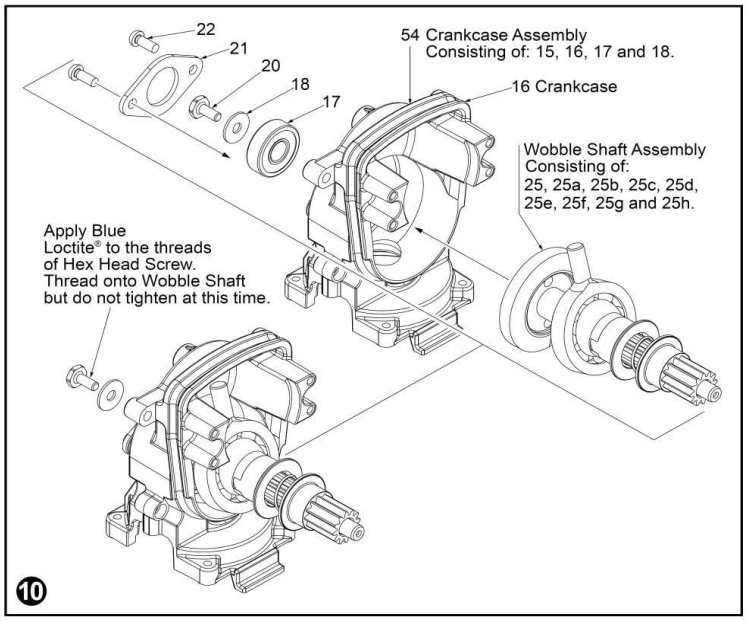

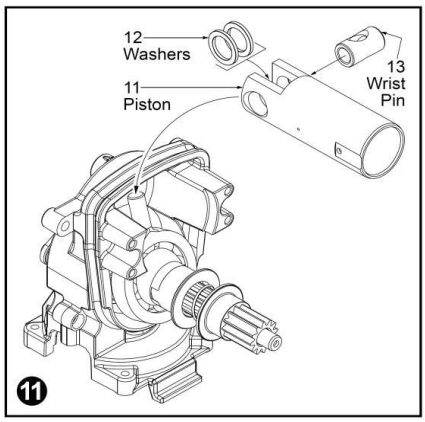

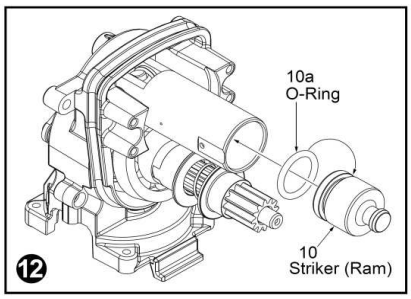

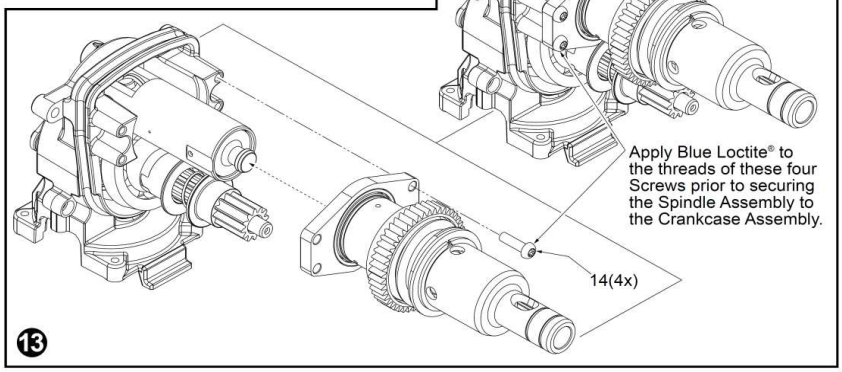

9. The flat side of the Bearing Bar 9t has a rounded recess area that will recieve the Spindle Bearing 9s. Coat the recess area and place the Spindle Bearing in the recess. Place the two parts onto the Spindle Assembly as shown. Next place the Washer 9u on top of the Bearing Bar and secure with Spiral Retaining Ring 9v.

Mounting the Spindle Assembly onto the Crankcase Assembly

10. Lubricate the inside cavity of the Crankcase Assembly 54 with grease. Place Wobble Shaft Assembly into Crankcase Assembly as shown. Use 9mm Hex Head Screw 20 to secure Wobble Shaft Assembly to Crankcase Assembly. **NOTE:** Prior to installing screw, place a few drops of Blue Loctite® thread locking sealant to the threads. At this time, DO NOT tighten screw completely.

11. Place Washers 12 and Wrist Pin 13 into rear area of Piston 11. While holding those parts in place, be sure the Washers are separated, one on each side of the hole in the Wrist Pin. Connect the Piston Assembly to the Wobble Shaft Assembly by sliding the hole on the Wrist Pin over the arm on the wobble bearing.

12. Lubricate O-Ring 10a and Striker (Ram) 10. Be sure not to have any lubrication on the rear (flat side) of Striker. Place O-Ring onto Striker 10. Insert assembled parts into Piston 11 as shown.

13. Mount the Spindle Assembly onto The Crankcase Assembly by inserting the Piston into the Spindle. Use four Screws to secure the Spindle Assembly to the Crankcase Assembly. **NOTE:** Prior to installing screws, place a few drops of Blue Loctite® thread locking sealant to the threads.

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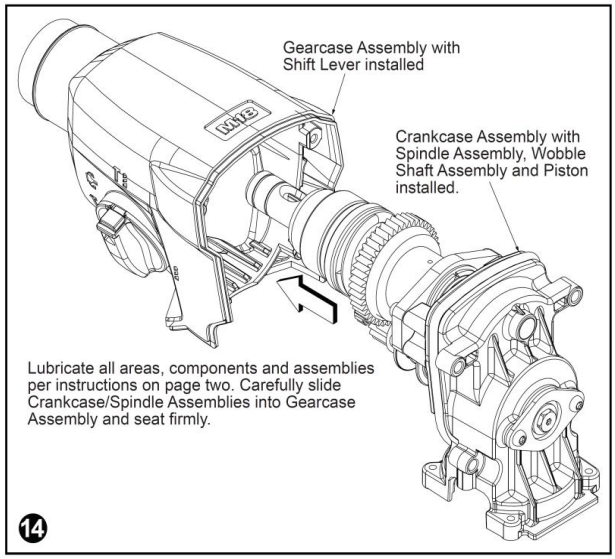

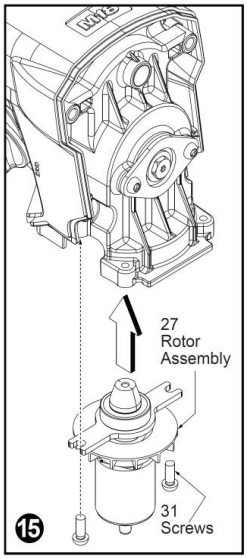

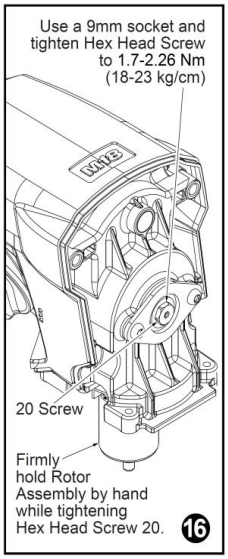

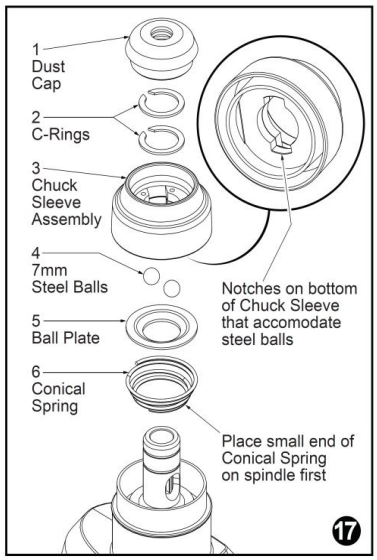

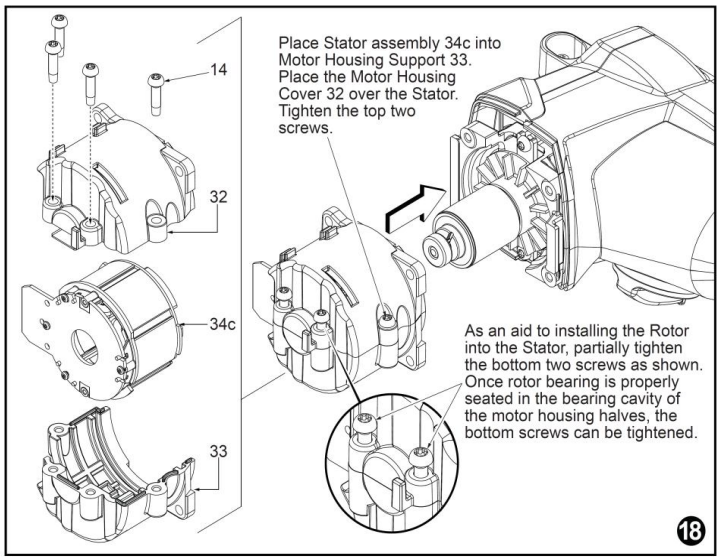

14. Install the Crankcase / Spindle Assembly into the Gearcase Assembly while following the lubrication instructions on page two.

15. 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 2.37-2.94 Nm (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 1.7-2.26 Nm (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.

17. 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 3.34-3.84 Nm (35-40 kg/cm).

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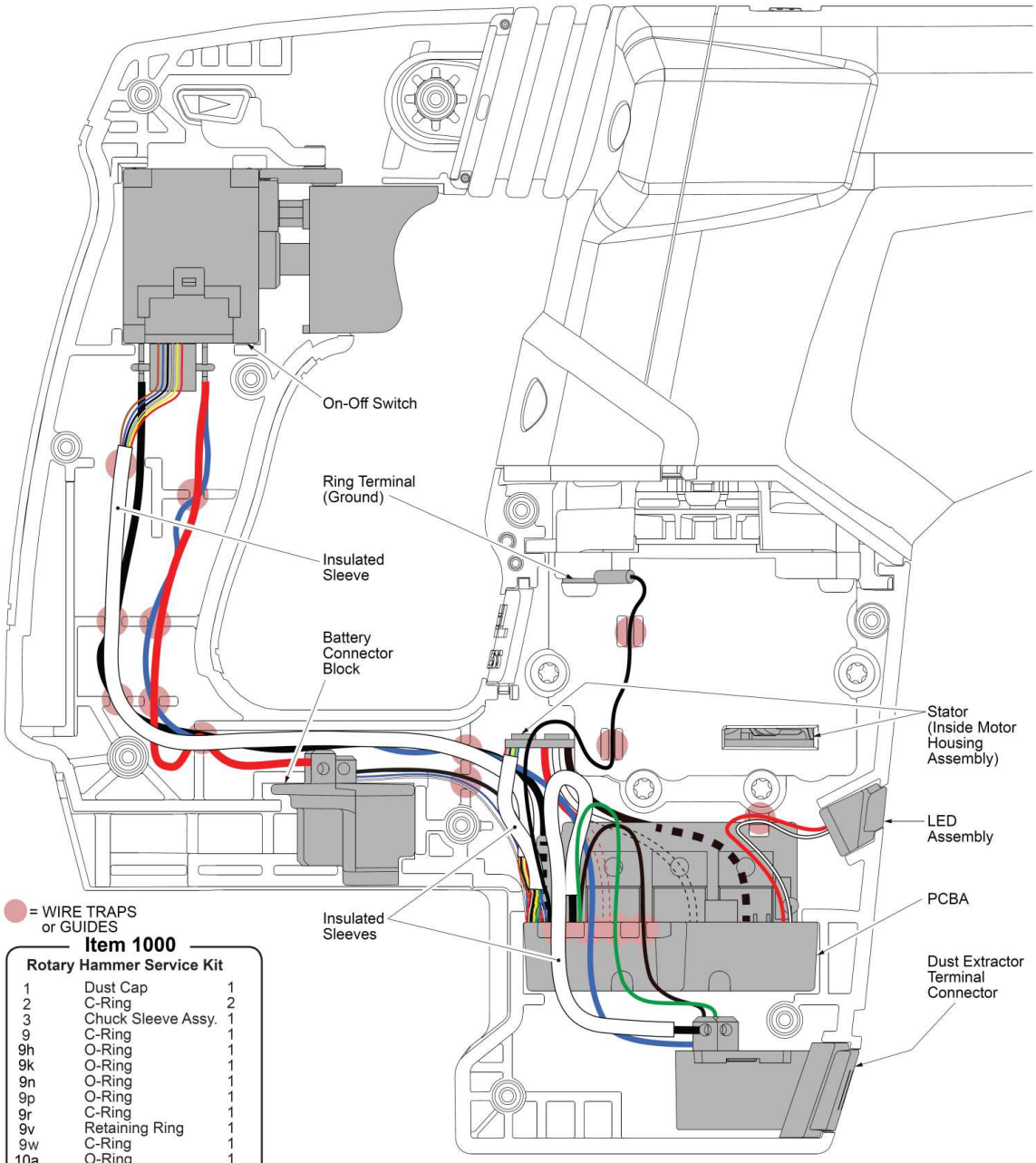

= WIRE TRAPS or GUIDES

Item 1000
Rotary Hammer Service Kit

1	Dust Cap	1
2	C-Ring	2
3	Chuck Sleeve Assy.	1
9	C-Ring	1
9h	O-Ring	1
9k	O-Ring	1
9n	O-Ring	1
9p	O-Ring	1
9r	C-Ring	1
9v	Retaining Ring	1
9w	C-Ring	1
10a	O-Ring	1
12	Washer	2
14	M4 x 14mm Screw	8
15	Gasket	1
19	Felt Plug	1
20	9mm Hex Screw	1
22	M4 x 10mm Screw	2
24	M4 x 30mm Screw	4
25	C-Ring	1
39	M3 x 14mm Screw	10
1200	Type GE 00 Urethyn Grease 80g	1
1201	Type 'S2' Grease 7.0 oz./198g	1

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	WHERE USED	SEAT TORQUE (KG/CM)	SEAT TORQUE (Nm)
14	----------	Motor Housing Assembly	35-40	3.39-3.84
14	----------	Bearing Bar Mounting Bracket	35-40	3.39-3.84
20	----------	Crankcase Assembly	18-23	1.67-2.26
22	----------	Bearing Retainer	35-40	3.39-3.84
24	----------	Gear Housing Cover	15	1.47
26	660024051	Motor Housing Assembly	35-40	3.39-3.84
31	660852001	Rotor Assembly	25-30	2.37-2.94
39	----------	Handle Cover - Right Halve	14-17	1.36-1.58