SERVICE PARTS LIST

BULLETIN NO. PN0003479

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

1-9/16" (40mm) SDS-Max Rotary Hammer

CATALOG NO.	5517-20	SERIAL NO.	N89B

REVISED BULLETIN	DATE
54-24-0140	Mar. 2025

WIRING INSTRUCTION: SEE PAGE 5 thru 7

●= Component of **14-46-0651** 5517-20 General Maintenance Service Kit (See page 3 for complete BOM of kit)

See page 8 for procedure to Reset the Service Light

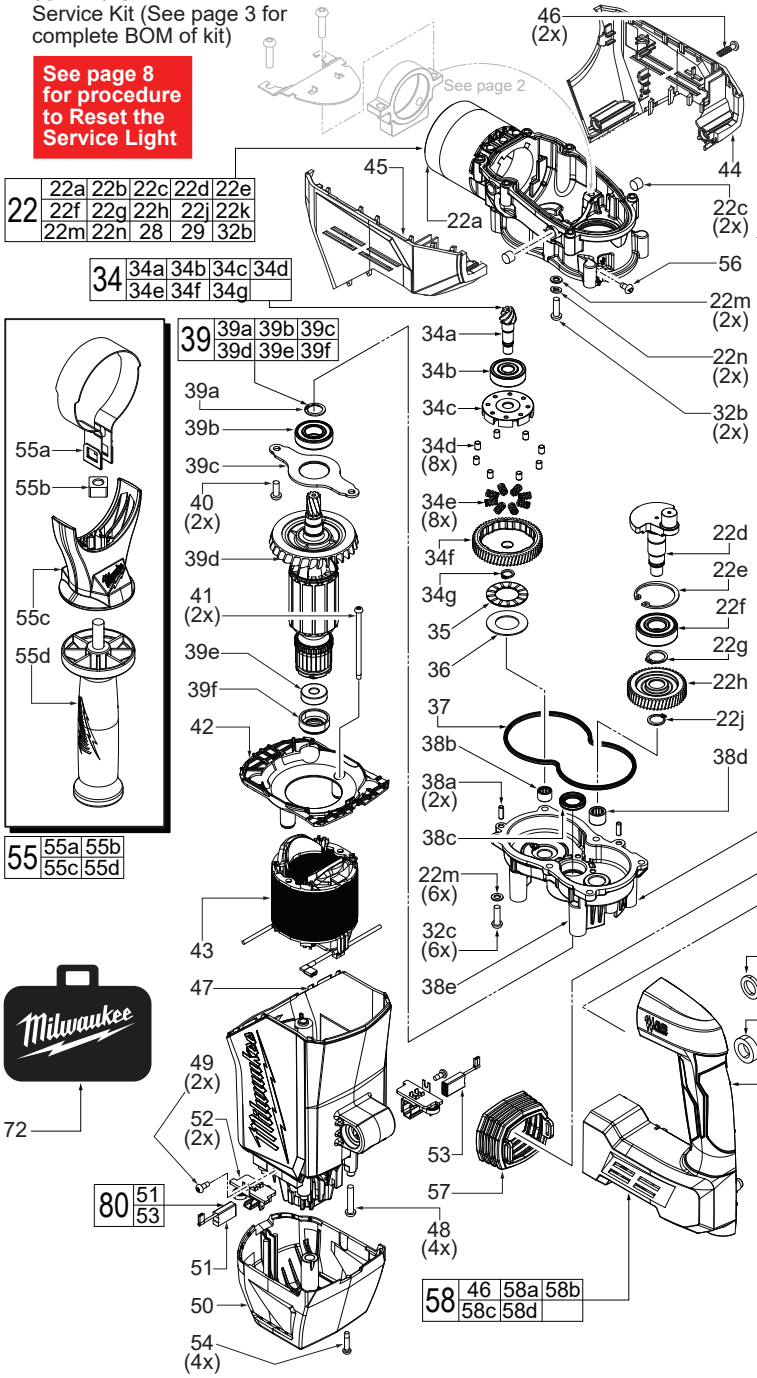

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
22	28-14-0028	Mid Gearcase Svc. Kit (Components also on page 2)	(1)
22a	----------	Mid Gearcase	(1)
22c	43-84-0031 ●	Felt Plug	(2)
22d	36-17-0021	Crank Shaft	(1)
22e	----------	Bevel Retaining Ring	(1)
22f	----------	Ball Bearing	(1)
22g	----------	Snap Ring	(1)
22h	----------	Crank Gear	(1)
22j	----------	Retaining Ring	(1)
22m	45-88-0241	Flat Washer	(8)
22n	05-90-0105	Spring Washer	(2)
32b	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	(2)
32c	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	(6)
34	14-26-0115	M-Clutch Service Assembly	(1)
34a	----------	Bevel Pinion	(1)
34b	----------	Clutch Bearing	(1)
34c	----------	Clutch Driver	(1)
34d	----------	Clutch Roller	(8)

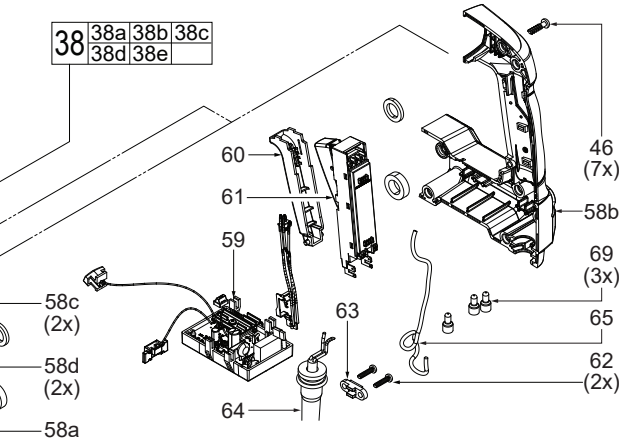

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
34e	----------	Long Clutch Spring	(8)
34f	----------	Clutch Gear	(1)
34g	----------	Retaining Ring	(1)
35	02-50-0013	Thrust Needle Bearing	(1)
36	45-88-0246	Thrust Bearing Washer	(1)
37	43-44-0118 ●	Lower Gearcase Gasket	(1)
38	28-14-0043	Lower Gearcase Service Assembly	(1)
38a	----------	Dowel Pin	(2)
38b	----------	Needle Bearing	(1)
★38c	45-06-0073 ●	Motor Shaft Seal	(1)
38d	----------	Needle Bearing	(1)
38e	----------	Lower Gearcase	(1)
39	16-07-0025	120V Service Armature Assembly	(1)
39a	----------	C-Ring	(1)
39b	----------	Ball Bearing	(1)
39c	----------	Retaining Plate	(1)
39d	----------	120V Armature	(1)
39e	----------	Ball Bearing	(1)
39f	----------	Rubber Cap	(1)
40	05-78-0032	M5 x 13mm Pan Hd. T-25 Machine Screw	(2)
41	05-88-1275	M4 x 70mm Pan Hd. Phillips ST Screw	(2)
42	31-05-0021	Fan Baffle	(1)
43	14-20-0352	120 V Service Field	(1)
44	31-15-0113	Housing Cover	(1)
45	31-44-0282	Housing Support	(1)
46	05-78-5311	M5 x 18mm Pan Hd. T-20 PT Screw	(9)
47	28-50-0038	Motor Housing	(1)
48	05-78-0019	M5 x 25mm Pan Hd. T-25 Machine Screw	(4)
49	05-78-5313	M4 x 9mm Pan Hd. T-15 ST Screw	(2)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
50	31-12-0109	Motor Cap	(1)
51	----------	Right Carbon Brush	(1)
52	22-22-0021	Brush Holder Assembly	(2)
53	----------	Left Carbon Brush	(1)
54	06-82-0044	M4 x 18mm Pan Hd. T-20 ST Screw	(4)
55	14-34-0111	Auxilary Side Handle Assembly	(1)
55a	----------	Auxilary Handle Clamp	(1)
55b	----------	Square Nut	(1)
55c	----------	Clamp Holder	(1)
55d	----------	Side Handle	(1)
56	06-82-8828	#8-32 Pan Hd. T-20 Taptite Screw	(1)
57	22-90-0040	AVS Rubber	(1)
58	31-44-0280	Rear Handle Service Kit	(1)
58a	----------	Rear Handle Support	(1)
58b	----------	Rear Handle Cover	(1)
58c	31-86-0022	Handle Foam Bushing, 3mm	(2)
58d	42-42-0054	Handle Foam Bushing	(2)
59	14-20-0364	PCBA	(1)
60	31-92-0053	Trigger Cap	(1)
61	23-66-0103	On-Off Switch	(1)
62	06-82-0995	M4 x 16mm Pan Hd. T-20 ST Screw	(2)
63	31-17-0026	Cord Clamp	(1)
64	22-64-0134	120V Power Cord	(1)
65	23-94-0048	120V Ground Wire	(1)
69	22-56-5317	Close End Connector	(3)
71	12-20-0450	Service Nameplate (Not Shown)	(1)
72	42-55-0111	Blow Molded Carrying Case	(1)
80	22-16-0031	Brush Service Kit (Set of two brushes)	(1)

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00 | 0 **EXAMPLE:**
Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

●= Component of the **14-46-0651**
5517-20 General Maintenance Service Kit
See page three for a complete BOM of this kit.

See page 8 for procedure to Reset the Service Light

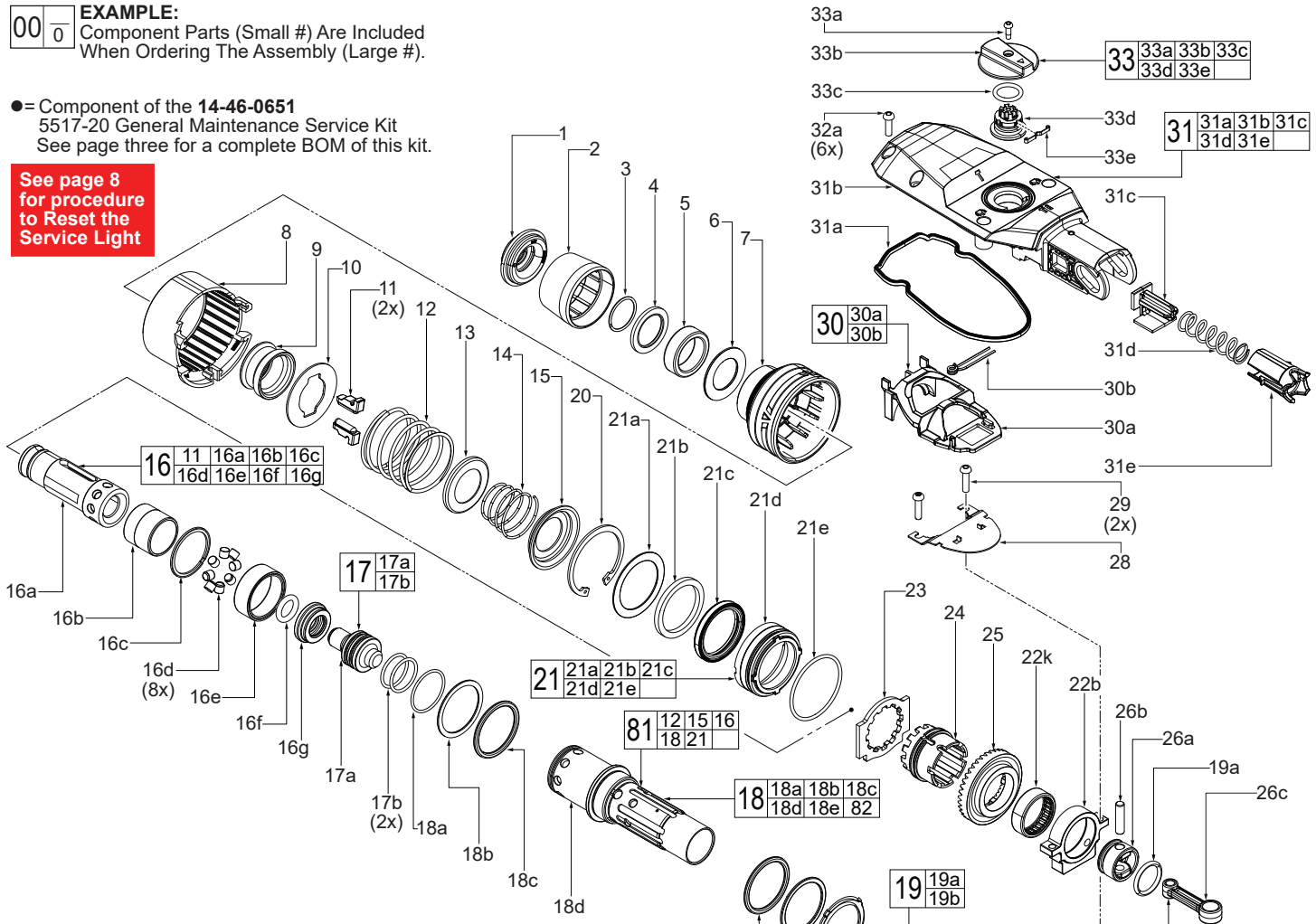


FIG.	PART NO.		DESCRIPTION OF PART	NO. REQ.
1	45-12-5316	●	Rubber Dust Shield	(1)
2	42-20-0098		Front Latch Cone	(1)
3	44-90-5286	●	Retaining Ring	(1)
4	45-88-0192		Washer	(1)
★ 5	42-38-0004	●	Chuck Bumper Ring	(1)
6	45-88-5321		Flat Washer	(1)
7	42-76-0105		Sliding Collar	(1)
8	31-58-0012		Sleeve	(1)
9	45-22-0061		Locking Sleeve	(1)
10	34-40-0231		Retaining Plate	(1)
11	42-68-0071	●	Double Spring Latch	(2)
★ 12	40-50-4920		Chuck Spring	(1)
13	45-88-0306		Double Spring Latch Washer	(1)
14	40-50-0466		Cone Spring	(1)
★ 15	44-66-5955		Spring Retainer	(1)
★ 16	38-50-0112		SDS Max Front Spindle Service Assembly	(1)
★16a	----------		SDS Max Spindle Driver	(1)
16b	----------		Anvil Sleeve	(1)
★16c	34-60-5390	●	Spindle Cap Snap Ring	(1)
★16d	44-60-6055	●	Spindle Pins	(8)
★16e	----------	●	Spindle Cap	(1)
16f	34-40-0446	●	Striker Catch O-Ring	(1)
16g	----------		Anvil Guide	(1)
17	14-46-0362		Anvil Service Assembly	(1)
17a	----------		Anvil	(1)
17b	34-40-0447	●	Anvil O-Ring	(2)
★ 18	38-50-0111		5Kg Rear Spindle Service Assembly	(1)
18a	34-40-0301	●	Front Spindle O-Ring	(1)
★18b	----------		Spindle Bumper Washer	(2)
★18c	34-40-0249	●	Spindle Bumper Ring	(2)
★18d	----------		Spindle Sleeve	(1)
18e	----------		Tab Washer	(1)
19	42-62-0117		Striker Service Assembly	(1)
19a	34-40-0448	●	Striker/Piston O-Ring	(1)
19b	----------		Striker	(1)
20	34-40-5315		C Retaining Ring	(1)
★ 21	42-40-0048		Front Spindle Bushing Service Kit	(1)
★21a	45-88-7555	●	Spindle Seal Cup Washer	(1)
★21b	45-06-5325	●	Felt Seal	(1)
21c	43-44-0092	●	Spindle Lip Seal	(1)
21d	----------	●	Front Spindle Bushing	(1)
21e	34-40-0333	●	Front Bushing O-Ring	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
22	28-14-0028	Mid Gearcase Svc. Kit (Components also on page 1)	(1)
22a	----------	Mid-Gearcase	(1)
22b	----------	Rear Bushing	(1)
22k	----------	Needle Bearing	(1)
23	44-66-0271	Locking Plate	(1)
24	31-50-0273	Mode Select Collar	(1)
★ 25	32-05-0034	Bevel Gear	(1)
26	44-62-0054	Piston Service Assembly	(1)
26a	----------	Piston	(1)
26b	----------	Wrist Pin	(1)
26c	----------	Connector Rod	(1)
28	42-92-0277	Fork Support Plate	(1)
29	05-78-0033	M5 x 20mm Pan Hd. T-25 Machine Screw	(2)
30	14-46-0443	Fork Service Assembly	(1)
30a	----------	Fork	(1)
30b	----------	Fork Spring	(1)
31	14-30-0152	Gearcase Cover Service Assembly	(1)
31a	43-44-0008	● Gearcase Cover Gasket	(1)
31b	----------	Gearcase Cover	(1)
31c	40-50-0214	Spring Holder	(1)
31d	40-50-0421	Spring	(1)
31e	43-56-0011	Handle Spring Carrier	(1)
32a	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	(6)
33	43-98-0123	Selector Knob Service Kit	(1)
33a	06-82-0032	M4 x 12mm Pan Hd. T-20 ST Screw	(1)
33b	----------	Selector Knob	(1)
33c	34-40-0449	● O-Ring	(1)
33d	----------	Mode Selector Cam	(1)
33e	40-50-0224	H Spring	(1)
★ 81	14-46-0652	Front and Rear Spindle Service Kit	(1)
★ 82	45-00-0230	B118-V2 Grease (Not Shown)	(1)

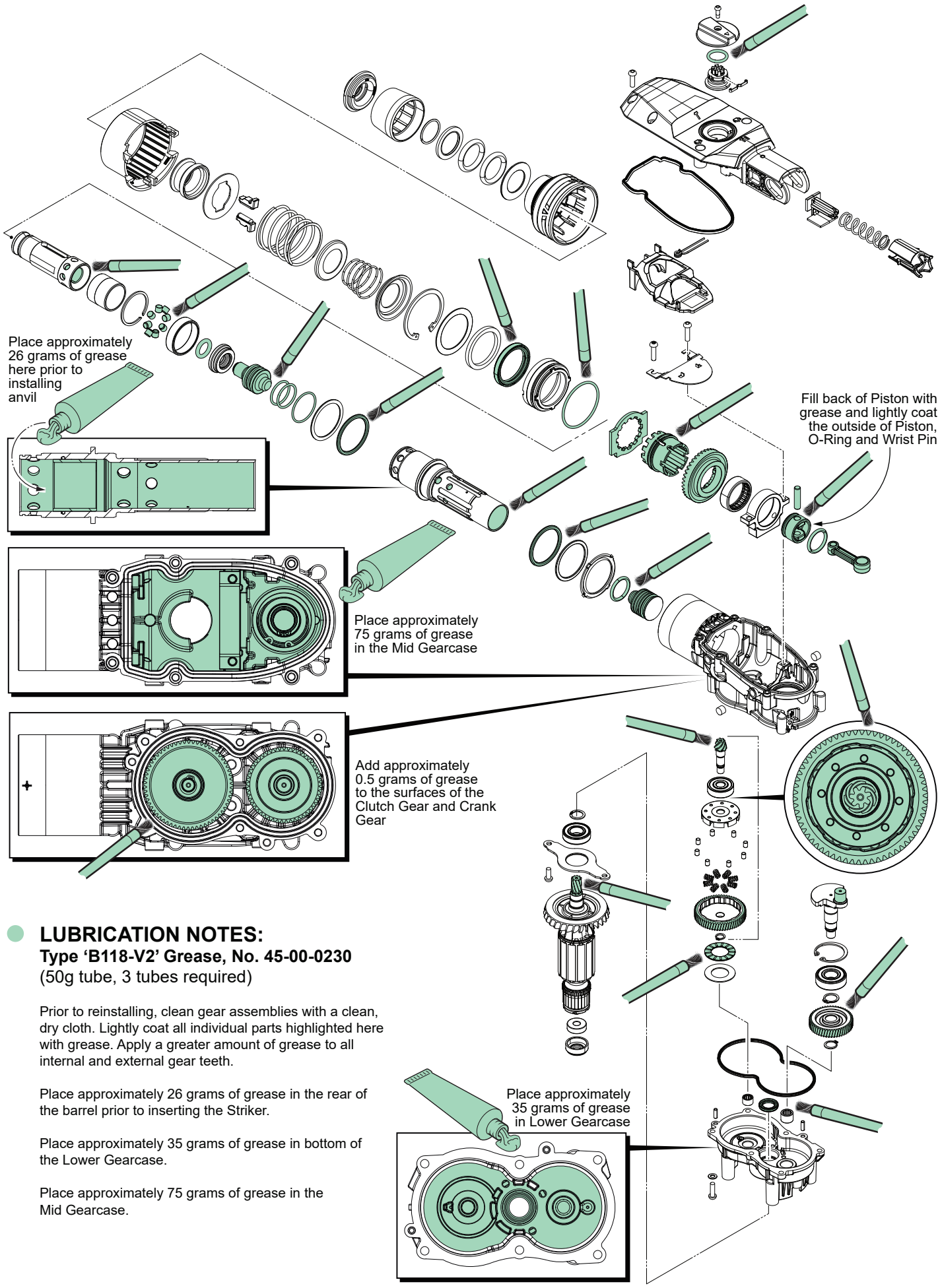
●14-46-0651
General Maintenance Service Kit

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	45-12-5316	Rubber Dust Shield	(1)
3	44-90-5286	Retaining Ring	(1)
5	42-38-0004	Chuck Bumper Ring	(1)
11	42-68-0071	Double Spring Latch	(2)
16c	34-60-5390	Spindle Cap Snap Ring	(1)
16d	44-60-6055	Spindle Pins	(8)
16e	----------	Spindle Cap	(1)
16f	34-40-0446	Striker Catch O-Ring	(1)
17b	34-40-0447	Anvil O-Ring	(2)
18a	34-40-0301	Front Spindle O-Ring	(1)
18c	34-40-0249	Spindle Bumper Ring	(2)
19a	34-40-0448	Striker/Piston O-Ring	(1)
21a	44-88-7555	Spindle Seal Cup Washer	(1)
21b	45-06-5325	Felt Seal	(1)
21c	43-44-0092	Spindle Lip Seal	(1)
21d	----------	Front Spindle Bushing	(1)
21e	34-40-0333	Front Bushing O-Ring	(1)
22c	43-84-0031	Felt Plug	(2)
31a	43-44-0008	Gearcase Cover Gasket	(1)
33c	34-40-0449	O-Ring	(1)
37	43-44-0118	Lower Gearcase Gasket	(1)
38c	45-06-0073	Motor Shaft Seal	(1)
80	22-16-0031	Brush Service Kit (Set of two brushes)	(1)
	45-00-0230	B118-V2 Grease (50g Tube)	(3)
	----------	Jumper (Disposable after Resetting Light)	(1)

See page 8 for procedure to Reset the Service Light

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	DESCRIPTION OF FASTENER	WHERE USED	SEAT TORQUE (kgf-cm)	SEAT TORQUE (lb-in)
29	05-78-0033	M5 x 20mm Pan Hd. T-25 Machine Screw	Upper Rear Bushing	50±5	43.3±4.3
32a	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	Gearcase Cover	35±4	30.3±3.4
32b	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	Mid Gearcase Bottom Rear Bushing	80±8	69.4±6.9
32c	06-82-2873	M5 x 17mm Pan Hd. T-25 Machine Screw	Lower Gearcase	70±5	60.7±4.3
33a	06-82-0032	M4 x 12mm Pan Hd. T-20 ST Screw	Mode Selector	22±2	19.0±1.7
40	05-78-0032	M5 x 13mm Pan Hd. T-25 Machine Screw	Bearing Retaining Plate	25±3	21.6±2.6
41	05-88-1275	M4 x 70mm Pan Hd. Phillips ST Screw	Fan Baffle / Field	18±1.5	15.6±1.3
46	05-78-5311	M5 x 18mm Pan Hd. T-20 PT Screw	Rear Handle Cover	29±3	25.1±2.6
46	05-78-5311	M5 x 18mm Pan Hd. T-20 PT Screw	Housing Cover	29±3	25.1±2.6
48	05-78-0019	M5 x 25mm Pan Hd. T-25 Machine Screw	Motor Housing	55±5	47.7±4.3
49	05-78-5313	M4 x 9mm Pan Hd. T-15 ST Screw	Brush Holder Assembly	15±1.5	13.0±1.3
54	06-82-0044	M4 x 18mm Pan Hd. T-20 ST Screw	Motor Cap	15±1.5	13.0±1.3
56	06-82-8828	#8-32 Pan Hd. T-20 Taptite Screw	Mid Gearcase	18±2	15.6±1.7
62	06-82-0995	M4 x 16mm Pan Hd. T-20 ST Screw	Cord Clamp	20±2	17.3±1.7



LUBRICATION NOTES:

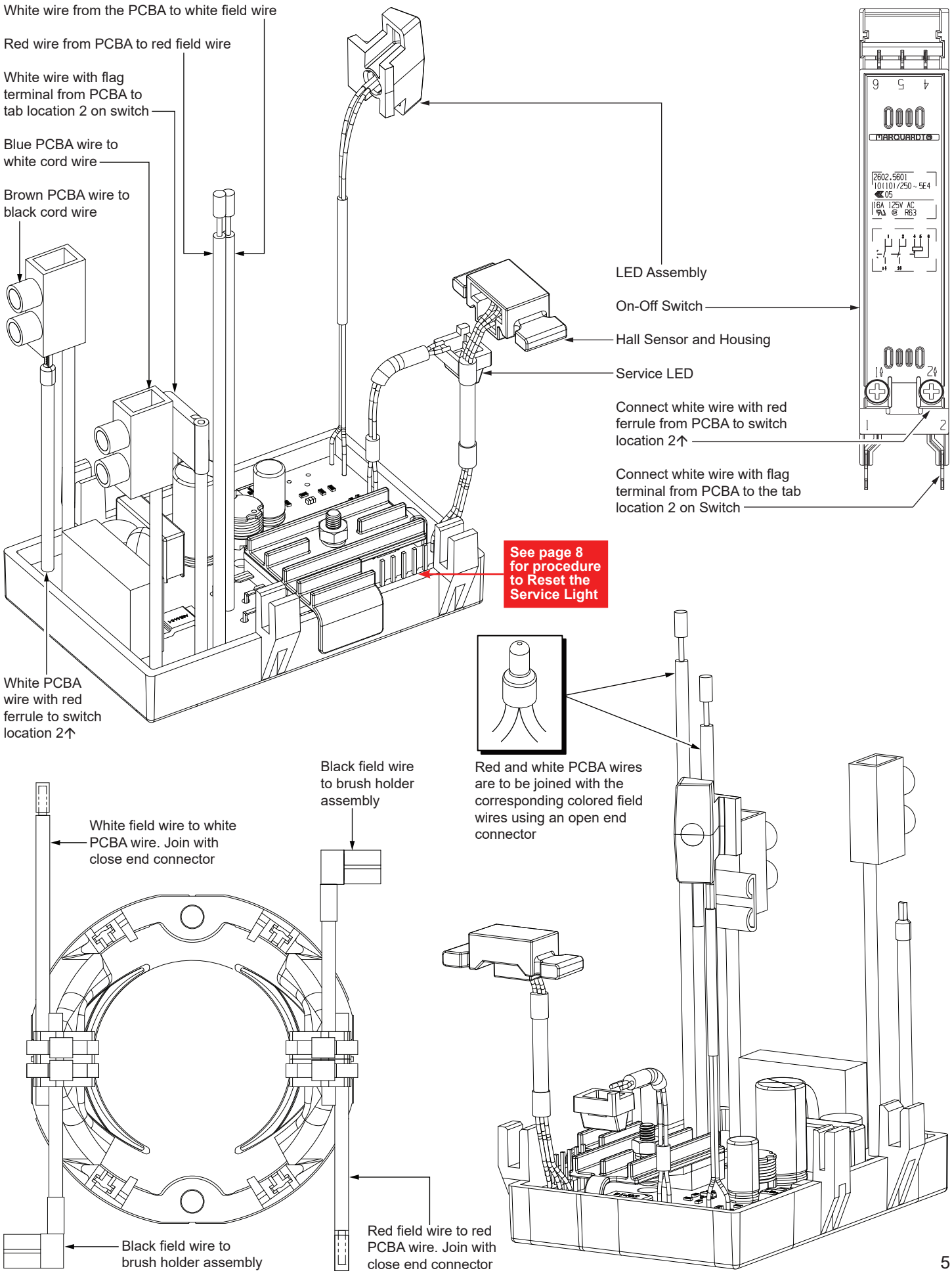
Type 'B118-V2' Grease, No. 45-00-0230
(50g tube, 3 tubes required)

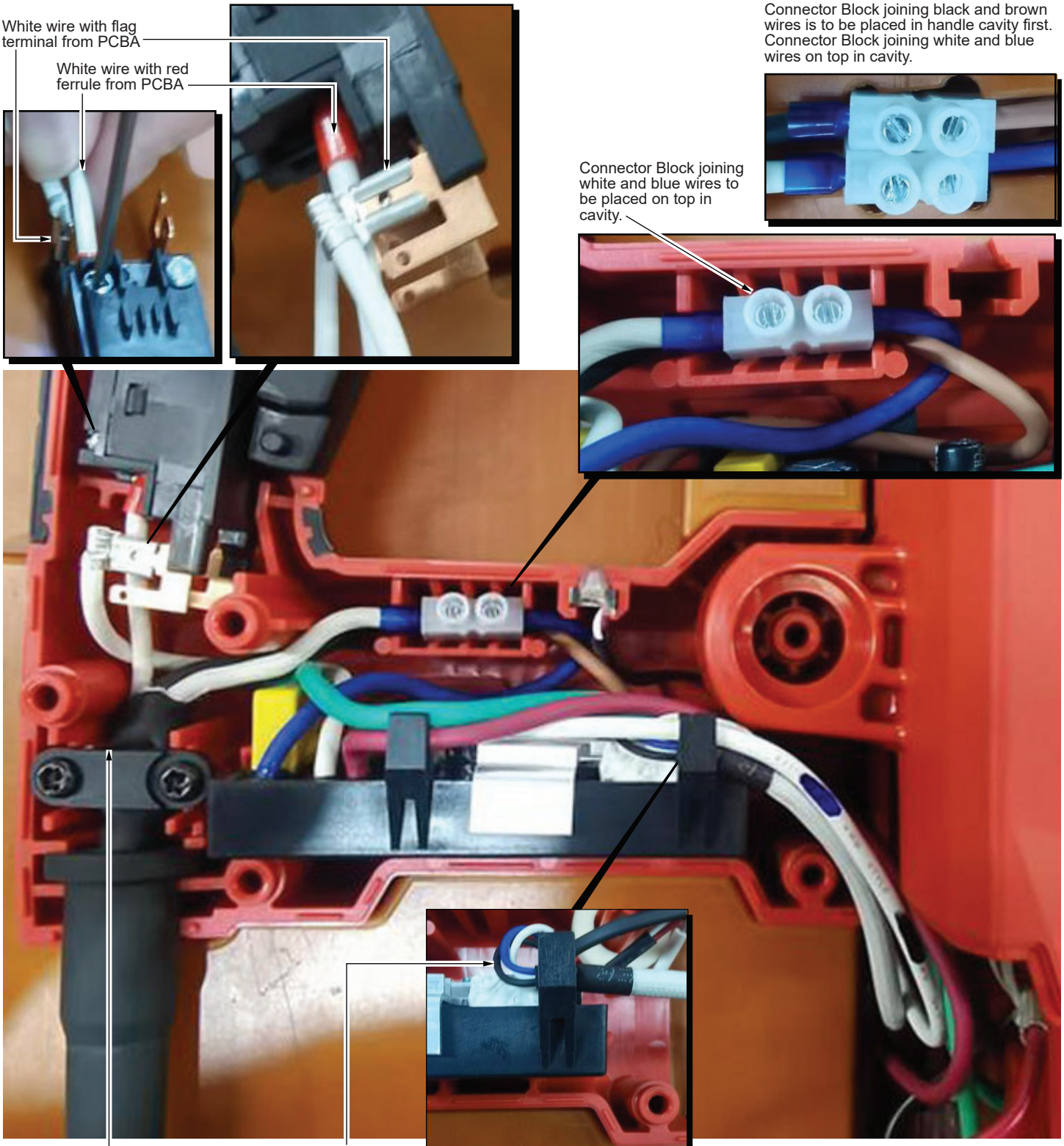
Prior to reinstalling, clean gear assemblies with a clean, dry cloth. Lightly coat all individual parts highlighted here with grease. Apply a greater amount of grease to all internal and external gear teeth.

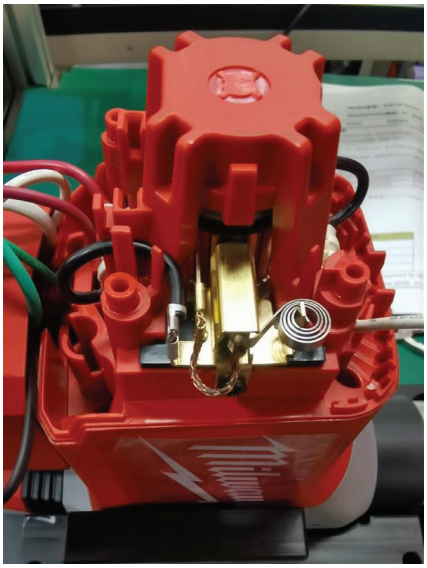
Place approximately 26 grams of grease in the rear of the barrel prior to inserting the Striker.

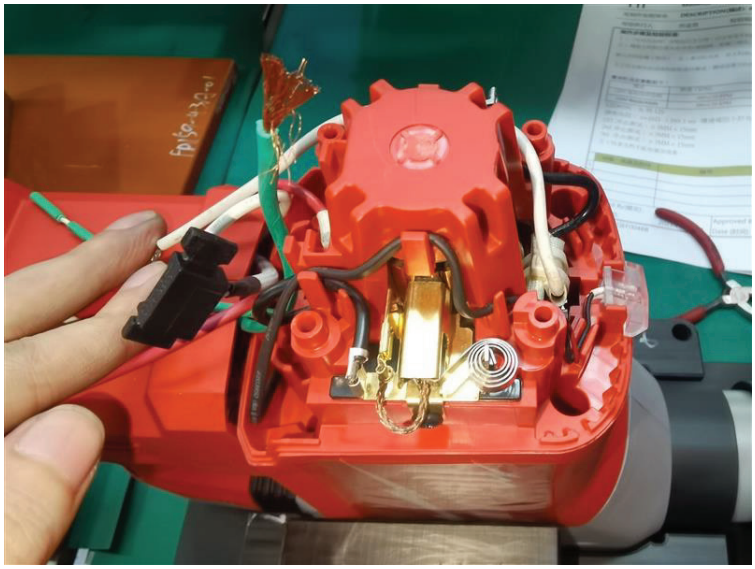
Place approximately 35 grams of grease in bottom of the Lower Gearcase.

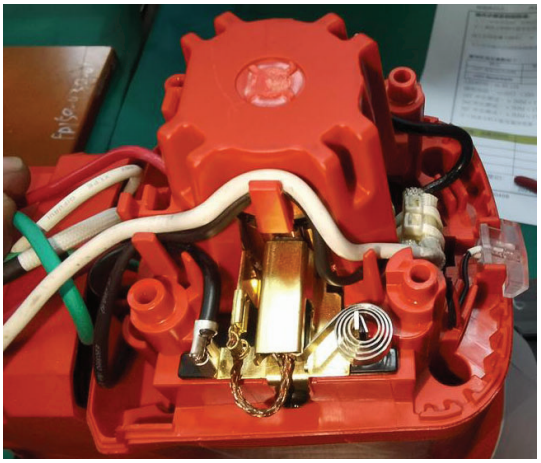
Place approximately 75 grams of grease in the Mid Gearcase.

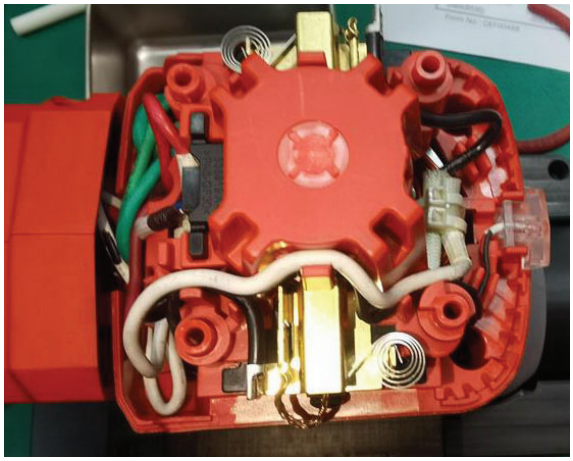

White wire from the PCBA to white field wire
Red wire from PCBA to red field wire
White wire with flag terminal from PCBA to tab location 2 on switch
Blue PCBA wire to white cord wire
Brown PCBA wire to black cord wire
LED Assembly
On-Off Switch
Hall Sensor and Housing
Service LED
Connect white wire with red ferrule from PCBA to switch location 2↑
Connect white wire with flag terminal from PCBA to the tab location 2 on Switch
MARQUARDT
2602.5601
16A 125V AC
See page 8 for procedure to Reset the Service Light
White PCBA wire with red ferrule to switch location 2↑
Red and white PCBA wires are to be joined with the corresponding colored field wires using an open end connector
Black field wire to brush holder assembly
White field wire to white PCBA wire. Join with close end connector
Black field wire to brush holder assembly
Red field wire to red PCBA wire. Join with close end connector

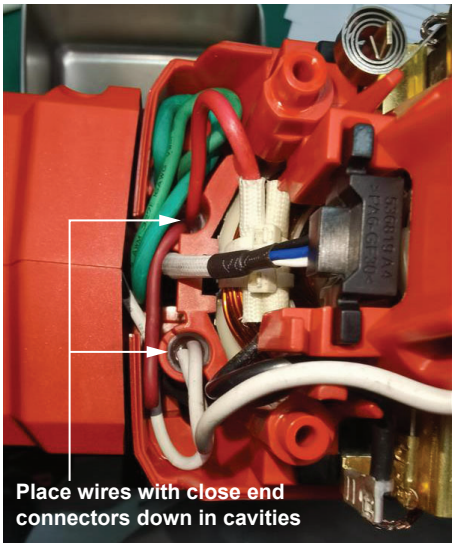

White wire with flag terminal from PCBA
White wire with red ferrule from PCBA
Connector Block joining black and brown wires is to be placed in handle cavity first. Connector Block joining white and blue wires on top in cavity.
Connector Block joining white and blue wires to be placed on top in cavity.
Cord jacket to extend .25" minimum beyond the top of Cord Clamp
Wires for Hall Sensor are to be placed in wire trap first as shown.
Place in the trap, on top of the Hall sensor wires, the white and red PCBA wires and the green ground wire from the cord.
Push all wires firmly down in wire trap











Photos on this page depict components, wires and wire routing of the electronics package (See page 5).

Install all components firmly and squarely in corresponding cavities of the Motor Housing. Route all wires as shown being sure those placed in wire traps are pressed completly down in bottom of traps. Tuck all excess wires down into Motor Housing cavities to avoid pinching when the housings are reassembled.

As an aid to reassembly, take notice of wire routings and position in wire guides and traps while dismantling tool.

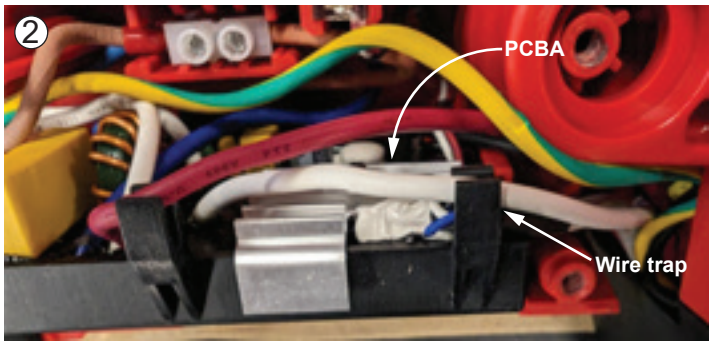
Be sure that all components of the electronics assembly are seated firmly and squarely in housing recesses.

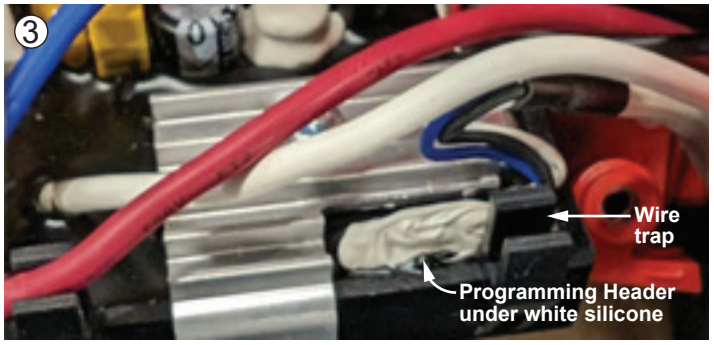
Avoid pinched wires, be sure that all wires and sleeves are pressed completely down in wire traps.

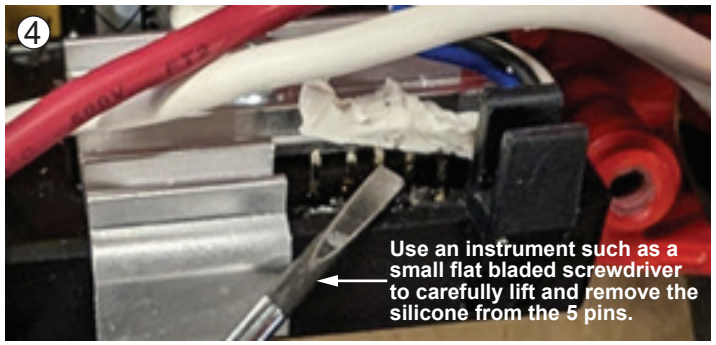
Prior to securing housing Motor Cap onto the Motor Housing, be sure that there are no interferences.

Check for proper functionality of shuttles, buttons and triggers prior to powering tool.

RESETTING SERVICE LIGHT PROCEDURE for the 5517-20 SDS-Max Rotary Hammer



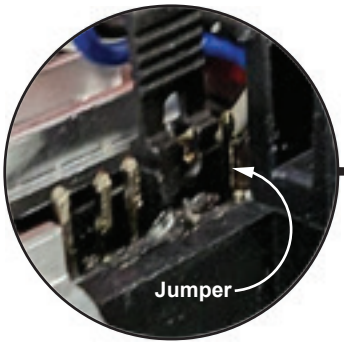




RESETTING SERVICE LIGHT

1. After installing the General Maintenance Service Kit, the service light must be reset. Separate Rear Handle Cover from rest of the tool by removing 7 screws.

2. Locate the PCBA on the bottom of Rear Handle Support. Locate the Programming Header (covered with white silicone).



3. Remove wires from wire traps that are directly above the Programming Header.

4. Use a small thin bladed instrument such as a screwdriver to carefully pry up and remove the white silicone from over 5 pins of the Programming Header.

5. Place Jumper on pins 4 and 5 of the Programming Header as shown. Connect tool to power for 10 seconds. Unplug tool from power. Remove Jumper...Service timer is now set.

6. Apply white silicone over the 5 pins of the Programming Header. WR-7168 RTV Silicone – or the equivalent.
Place wires back in the wire trap. Reinstall Rear Handle Cover onto Rear Handle Support and secure with the 7 screws. Torque fasteners to approximately 29 kgf-cm (25 lb-in).