

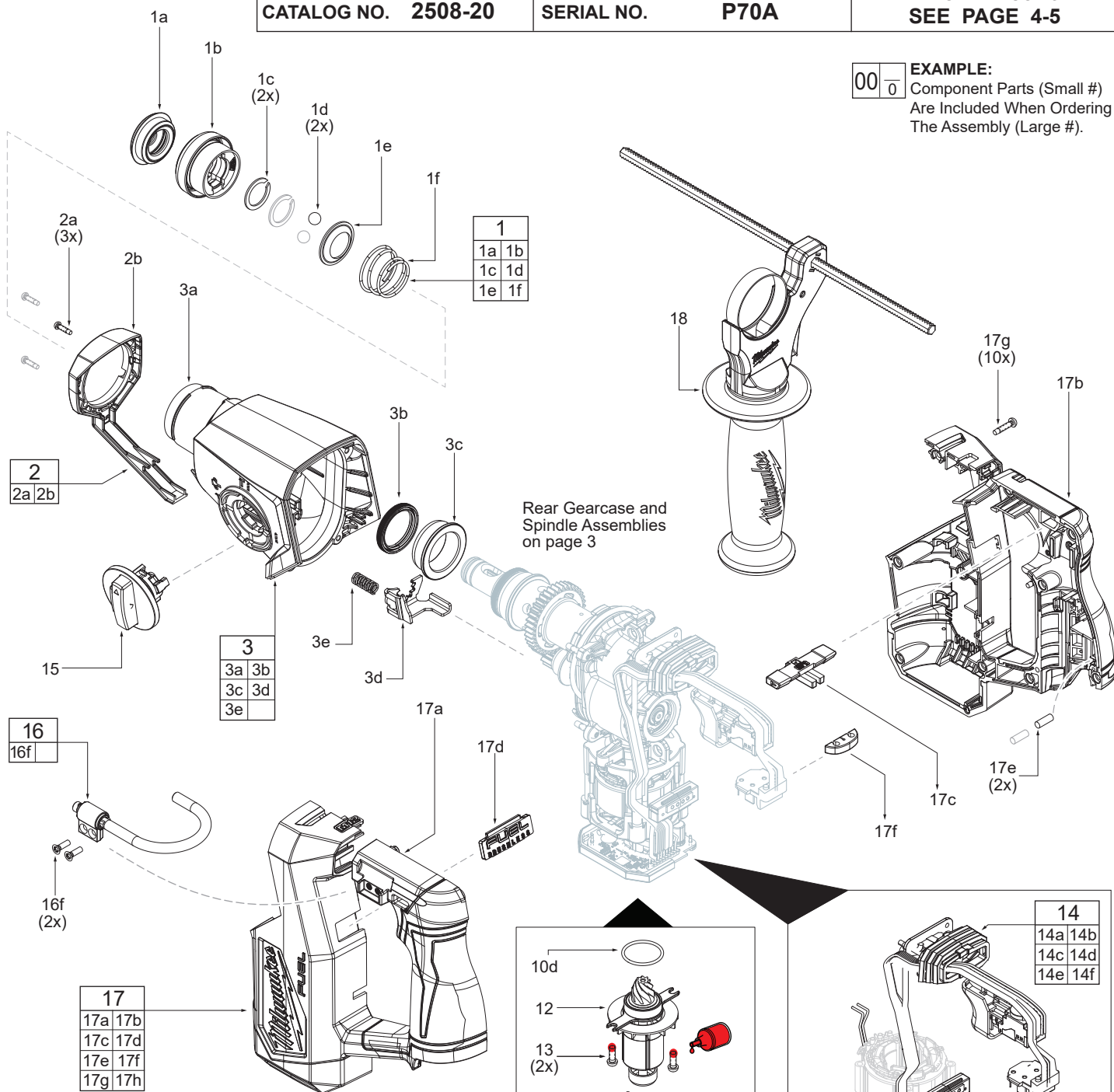


## SERVICE PARTS LIST

BULLETIN NO.  
54-20-2520

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	
<b>M12 FUEL™ 5/8" SDS Plus ROTARY HAMMER</b>	
CATALOG NO. 2508-20	SERIAL NO. P70A

REVISED BULLETIN	DATE
	Oct. 2024
WIRING INSTRUCTION <b>SEE PAGE 4-5</b>	



## SERVICE BILL OF MATERIAL (BOM) LISTING

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	42-66-2815	Chuck Service Kit	(1)	14a	-----	Stator	(1)
1a	-----	● Rubber Spindle Dust Cap	(1)	14b	-----	● Rubber Cap	(1)
1b	-----	● Chuck Sleeve	(1)	14c	-----	● M2 x 5.5mm Pan Hd. Torx T-8 Screw	(4)
1c	-----	● C-Ring	(2)	14d	-----	CE Bearing Support	(1)
1d	-----	Ball	(2)	14e	-----	● Stator Screw	(4)
1e	-----	Chuck Ring	(1)	14f	-----	PCBA	(1)
1f	-----	Chuck Spring	(1)	15	14-46-5008	Mode Selector Assembly	(1)
2	14-46-0434	Shadowless Lens Service Kit	(1)	16	14-36-0041	Ladder Hook Assembly	(1)
2a	06-82-2395	● M2.6 x 10mm Pan Hd. Torx T-8 Screw	(3)	16f	-----	M3 x .5 FH T-10 Torx B Screw	(2)
2b	-----	Work Light Assembly (LED)	(1)	17	14-34-1201	Handle Kit	(1)
3	14-30-0004	Front Gearcase Service Assembly	(1)	17a	-----	Handle Housing Support (Left Halve)	(1)
3a	-----	Front Gearcase	(1)	17b	-----	Handle Housing Cover (Right Halve)	(1)
3b	-----	● Rotary Seal	(1)	17c	-----	Forward/Reverse Shuttle	(1)
3c	-----	Front Spindle Bushing	(1)	17d	-----	● Brushless Logo Plate	(1)
3d	-----	Locking Plate	(1)	17e	-----	● Rubber Rod	(2)
3e	-----	Locking Spring	(1)	17f	-----	● Rubber Block	(1)
10d	-----	● FE Bearing O-Ring	(1)	17g	06-82-1080	M3 Screw	(10)
12	14-46-5007	Rotor Assembly	(1)	17h	12-20-2537	Service Nameplate (Not Shown)	(1)
13	05-81-1190	● M3 x 0.5 Pan Hd. Torx T-10 Screw	(2)	18	14-34-1202	Side Handle Service Assembly	(1)
14	14-50-0255	Stator and PCBA Assembly	(1)				

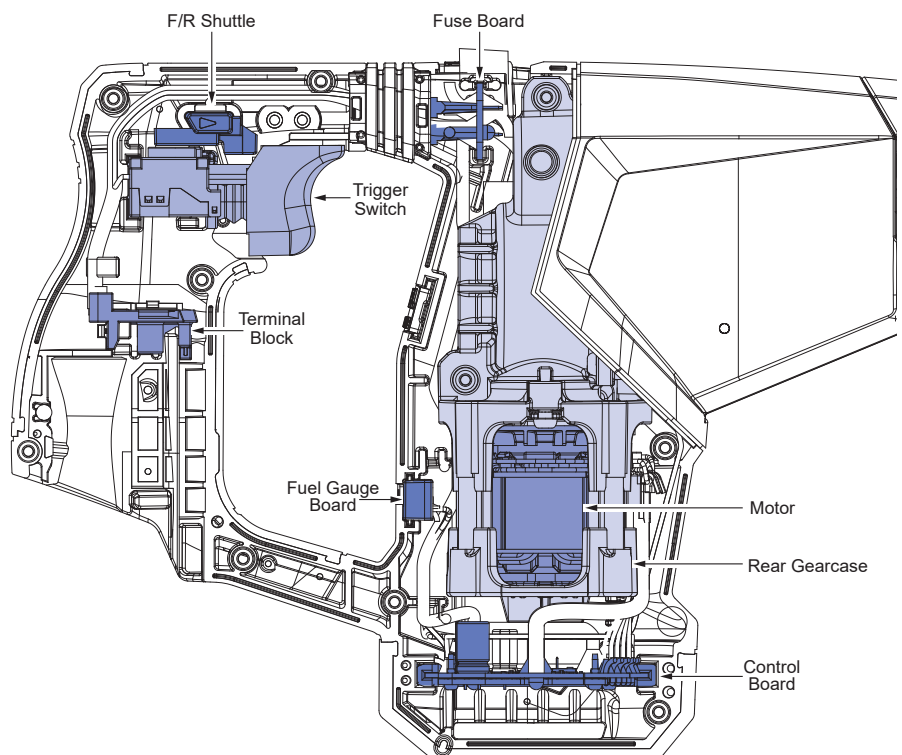
●=Components of the **14-46-2508 Rotary Hammer Maintenance Kit**  
(See bottom of this page for a complete listing)

## TORQUE CHART

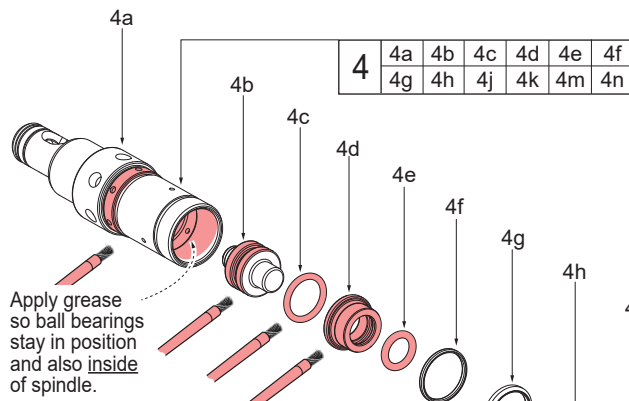
SCREW TORQUE SPECIFICATIONS					
FIG.	PART NO.	PART	WHERE USED	SEAT TORQUE	
				(kgf-cm)	(lb-in)
2a	06-82-2395	M2.6 x 10mm PH Torx T-8 Screw	Work Light Assembly	5.5-7.5	4.8-6.5
6	05-78-1010	M3.5 x .6 PH T-10 Torx Screw	Rear Spindle Bushing	18-22	16-19
11	05-81-5383	M3.5 x .5 PH Torx Screw	Front Gearcase	13-17	11-15
13	05-81-1190	M3 x 0.5 Pan Hd. Torx T-10 Screw	Rotor Retaining Plate	13-17	11-15
14c	-----	M2 x 5.5mm Ph. Torx T-8 Screw	Hale Sensor	3-5	2.6-4.3
14e	-----	Stator Screw	Stator	13-17	11-15
15j	-----	M3.5 PH T-10 Screw (Not Shown)	Mode Selector	13-17	11-15
16f	-----	M3 x .5 FH T-10 Torx B Screw	Ladder Hook	12-16	10-14
17g	06-82-1080	M3 Screw	Handle Cover	8-10	7-9

### ●14-46-2508 Rotary Hammer Maintenance Kit

1a	-----	Dust Cap	(1)
1b	-----	Chuck Sleeve	(1)
1c	-----	C-Ring	(2)
2a	06-82-2395	M2.6 x 10mm Screw	(3)
3b	-----	Rotary Seal	(1)
4c	-----	Screw	(1)
4e	-----	O-Ring	(1)
4f	-----	Bumper Ring	(1)
4g	-----	Anvil Sleeve Ring	(1)
4h	-----	Anvil Snap Ring	(1)
4k	-----	2.5mm Steel Ball	(6)
4m	-----	Spindle Retaining Ring	(2)
4n	-----	Spindle Thrust Washer	(1)
5b	-----	Striker O-Ring	(1)
6	05-78-1010	M3.5 x .6 Screw	(2)
8b	-----	U-Shaped Washer	(1)
10a	-----	Gearcase O-Ring	(1)
10c	-----	Felt Plug	(1)
10d	-----	FE Bearing O-Ring	(2)
10f	-----	Bevel Snap Ring	(1)
10g	-----	Flat Snap Ring	(1)
11	05-81-5383	M3.5 x 1.27 PH Screw	(4)
13	05-81-1190	M3 x 0.5mm PH Screw	(2)
14b	-----	Rubber Cap	(1)
14c	-----	M2 x 5.5mm PH Screw	(4)
14e	-----	Stator Screw	(4)
16f	-----	M3 x .5 FH Torx Screw	(2)
17e	-----	Rubber Rod	(2)
17f	-----	Rubber Block	(1)
17g	06-82-1080	M3 ST Screw	(10)
	45-00-0230	B118 Grease Tube	(1)



# BOM and LUBRICATION INSTRUCTIONS



► **Type 'B118' Grease**  
**No. 45-00-0230, 1.75 oz./50g tube**  
 Apply thin coat of grease to areas indicated.  
 NOTE: Whole tube will not be used to fill the entire gear case.  
 Extra amount can be used when applying thin coating to parts.

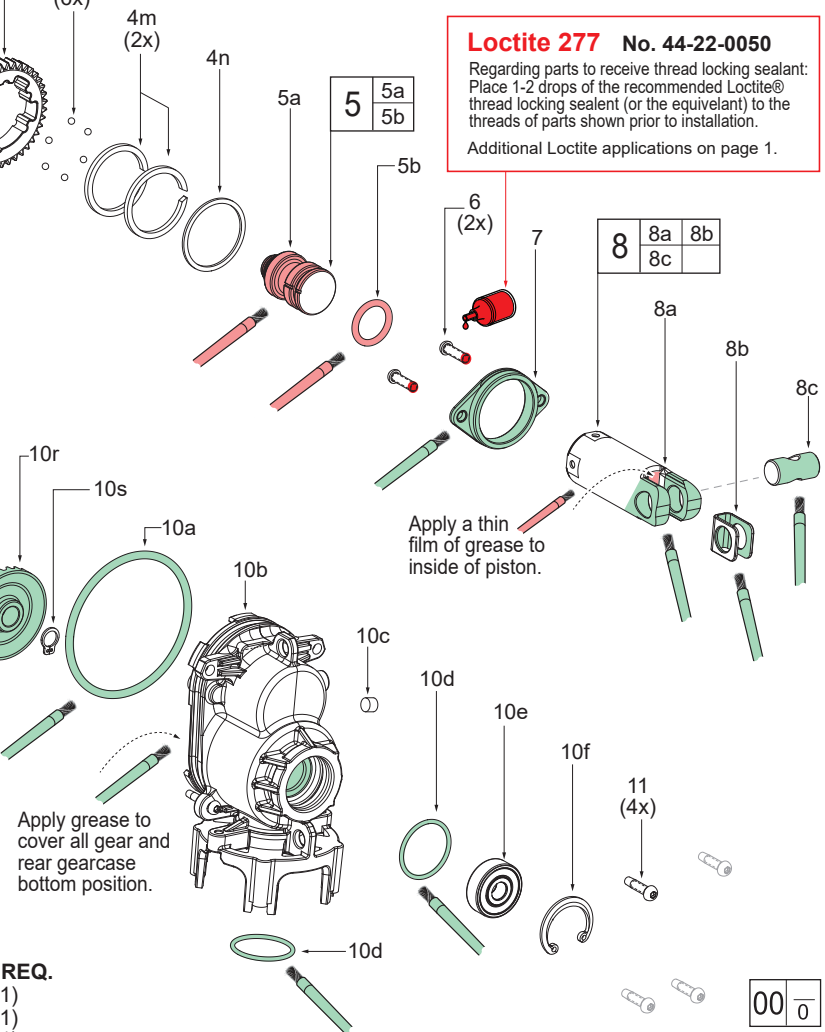
► **Type 'GE 00' Urethyn Grease**  
**No. 49-08-5355, 2.8 oz./80g tube**  
 Apply thin coat of grease to areas indicated.  
 NOTE: Whole tube will not be used to complete this application.

\*Prior to reinstalling, clean gear assemblies with a clean, dry cloth.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
4	14-73-0051	Spindle Service Assembly	(1)
4a	-----	Spindle	(1)
4b	-----	Anvil	(1)
4c	-----	● Anvil O-ring	(1)
4d	-----	● Anvil Sleeve	(1)
4e	-----	● Parking O-ring	(1)
4f	-----	● Bumper Ring	(1)
4g	-----	● Anvil Sleeve Ring	(1)
4h	-----	● Anvil Snap Ring	(1)
4j	-----	● Spindle Spur Gear	(1)
4k	-----	● 2.5mm Steel Ball	(6)
4m	-----	● External Spindle Retaining Ring	(2)
4n	-----	● Spindle Thrust Washer	(1)
5	14-46-4990	Striker Service Kit	(1)
5a	-----	Striker	(1)
5b	-----	● Striker O-Ring	(1)
6	05-78-1010	● M3.5 x .6 Pan Hd. T-10 Torx Screw	(2)
7	42-40-0042	● Rear Spindle Bushing	(1)
8	14-46-5004	Piston Service Kit	(1)
8a	-----	Piston	(1)
8b	-----	● U-Shaped Washer	(1)
8c	-----	● Wrist Pin	(1)
10	14-46-5006	I-Shaft and Rear Gearcase Assembly	(1)
10a	-----	● Main Gearcase O-Ring	(1)

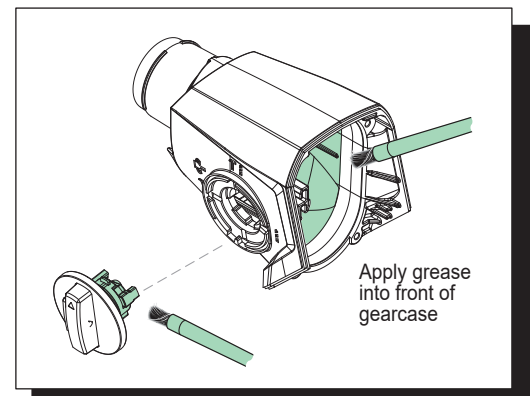
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
10b	-----	Rear Gearcase	(1)
10c	-----	● Felt Plug for Gearcase	(1)
10d	-----	● FE Bearing O-Ring	(2)
10e	-----	● I-Shaft Bearing with Washer	(1)
10f	-----	● Bevel Snap Ring	(1)
10g	-----	● Flat Snap Ring	(1)
10h	-----	Pinion	(1)
10j	-----	Front Coupler	(1)
10k	-----	Couplers Spring	(1)
10m	-----	Wobble Coupler	(1)
10n	-----	Wobble Bearing	(1)
10p	-----	I-Shaft, 11T	(1)
10q	-----	Wobble Spacer	(1)
10r	-----	8x34 Spiral Bevel Gear	(1)
10s	-----	Retaining Ring, STW-6	(1)
11	05-81-1190	● M3.5 x 1.27 Pan Hd. T-10 Torx Screw	(4)

**Loctite 277 No. 44-22-0050**  
 Regarding parts to receive thread locking sealant:  
 Place 1-2 drops of the recommended Loctite® thread locking sealant (or the equivalent) to the threads of parts shown prior to installation.  
 Additional Loctite applications on page 1.



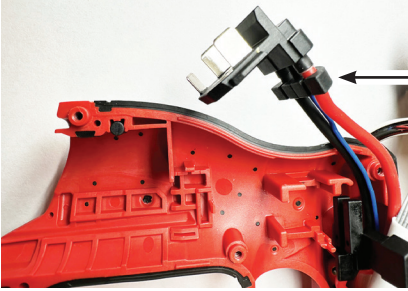
Apply grease to cover all gear and rear gearcase bottom position.

● = Components of the **14-46-2508 Rotary Hammer Maintenance Kit**  
 (See bottom of page 2 for a complete listing)



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

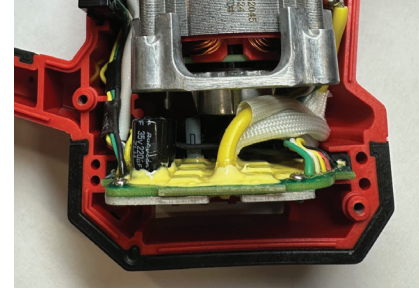
## WIRING INSTRUCTIONS



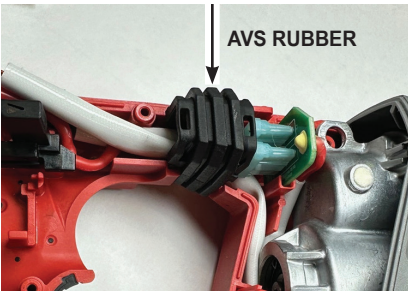
INSTALL THE RUBBER BLOCK TO THE TERMINAL AS SHOWN.



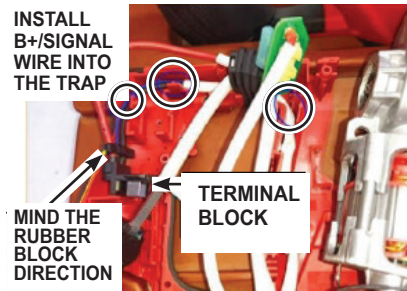
INSTALL THE B+ AND SIGNAL WIRE TO THE HANDLE GROOVE AS SHOWN.



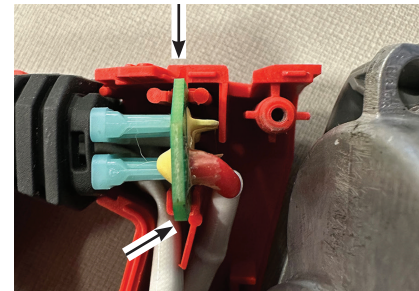
INSTALL THE PCBA TO THE HANDLE BLOCK AS SHOWN.



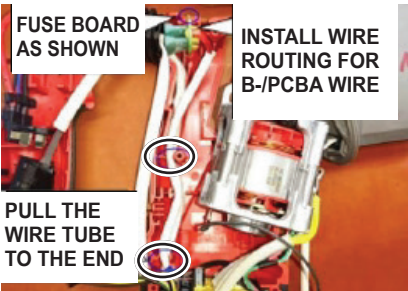
INSTALL THE AVS RUBBER TO THE HANDLE 4X RIBS.



INSTALL THE TERMINAL BLOCK FIRST.



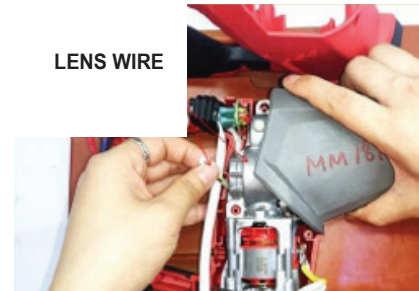
INSTALL THE FUSE BOARD IN THE SLOTS AND DIRECTION AS SHOWN.



INSTALL THE B-/PCBA WIRE INTO HOUSING TRAPS AS SHOWN ABOVE.



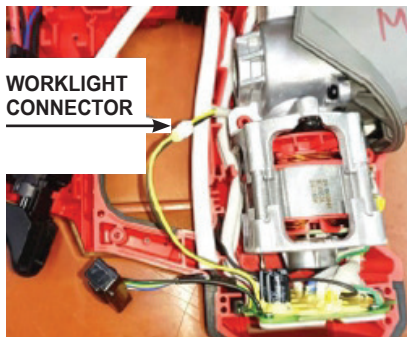
WIRE ROUTING FOR THE WORKING LENS WIRE AROUND THE REAR GEARCASE EDGE.



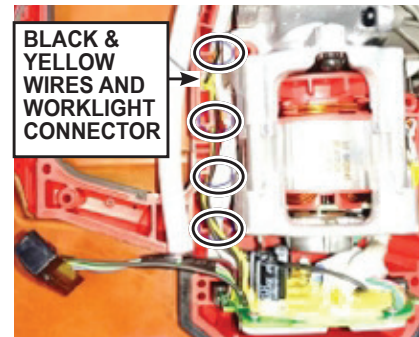
BE SURE TO PULL THE LENS WIRE WHILE INSTALLING THE REAR GEARCASE.



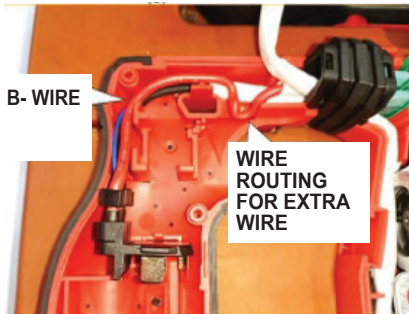
INSTALL THE STATOR WIRES AS SHOWN ABOVE.



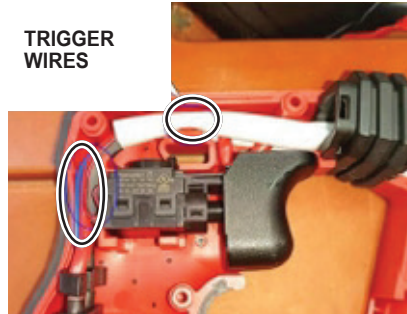
CONNECT THE WORKLIGHT CONNECTOR WIRES.



INSTALL THE WIRES INTO THE HOUSING TRAPS.



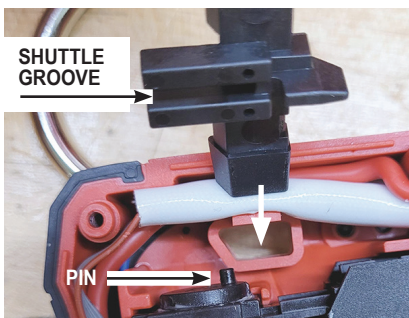
INSTALL THE B- WIRE IN TRAPS WITH EXTRA SLACK AS SHOWN.



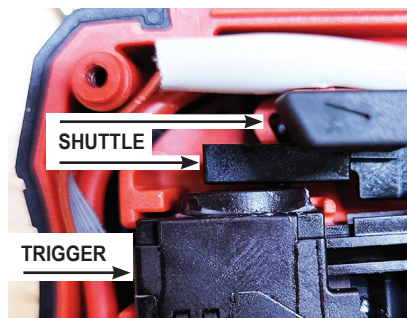
INSTALL THE TRIGGER WIRE IN HOUSING TRAPS AS SHOWN.



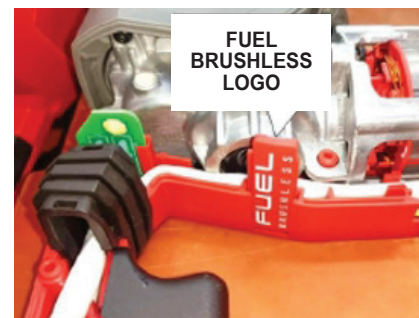
ROUTE TRIGGER WIRES AROUND SCREW COLUMN AS SHOWN.



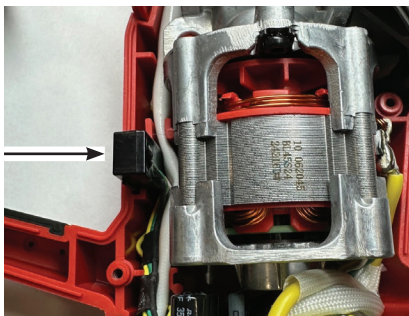
MAKE SURE THE TRIGGER PIN WILL BE IN THE GROOVE OF THE SHUTTLE WHEN ASSEMBLING PARTS INTO HOUSING.



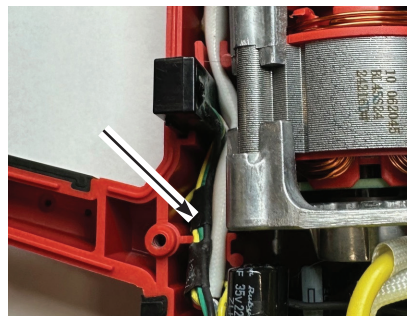
ONCE ASSEMBLED, TRIGGER PIN WILL BE IN SHUTTLE GROOVE AND NOT VISIBLE ANYMORE.



INSERT LOGO PLATE INTO SLOT AS SHOWN.



PLACE FUEL GAUGE BOARD IN SLOT AS SHOWN ABOVE.



MAKE SURE ALL WIRES ARE IN THE TRAPS AND NOT ABOVE THE SCREW RIB OF HOUSING.



INSTALL THE HANDLE COVER.

### WARNING

- Take notice of wire routing and position in wire guides and traps while dismantling tool.
- Be sure that all components of the electronics kit are seated firmly and squarely in housing recesses.
- Avoid pinched wires, be sure all wires and sleeves are pressed completely down in wire guides and traps.
- Prior to installing housing cover onto handle support, be sure that there are no interferences.
- Be sure to check for proper functionality of switches and buttons after housing halves have been secured.