



SERVICE PARTS LIST

BULLETIN NO.
PN0007645

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M12 FUEL™ Ratchet (1/4")			Feb. 2026
CATALOG NO. 3052-20	SERIAL NO. R60A	WIRING INSTRUCTION PAGES 3 - 5	
NAMEPLATE SPECIFICATIONS: INPUT: 12 V = n ₀ 0 - 550 min ⁻¹ (RPM)			

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

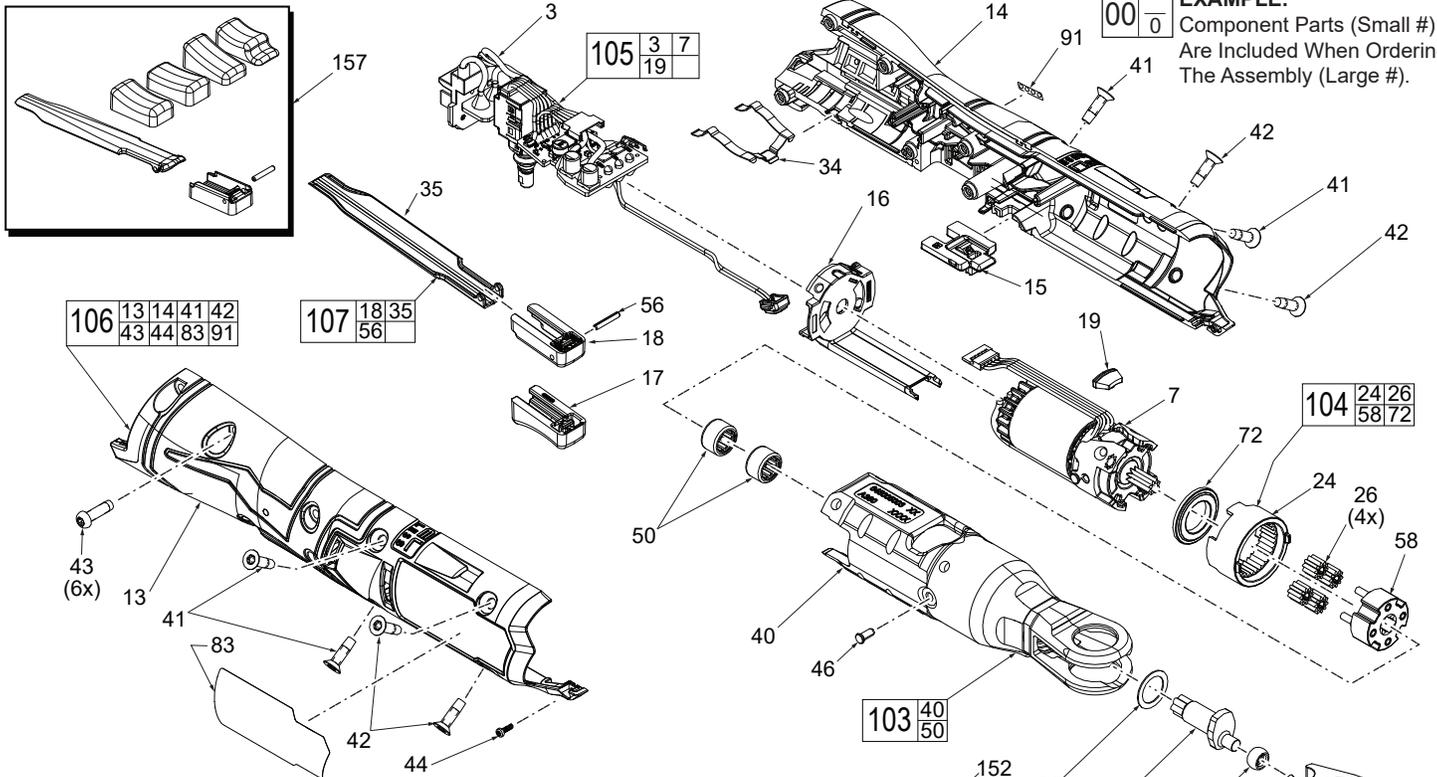


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
3	-----	PCBA	(1)
7	-----	Motor	(1)
13	-----	Handle Support	(1)
14	-----	Handle Cover	(1)
15	45-72-0027	Trigger Lock Out	(1)
16	43-84-0037	Yoke Housing Insert	(1)
17	30-16-2002	Trigger Cap	(1)
18	-----	Paddle Cap	(1)
19	45--06-0056	Stator Bracket Seal	(1)
20	-----	Knob	(1)
24	-----	Ring Gear	(1)
26	-----	Planet Gear	(4)
29	-----	Anvil	(1)
31	43-16-0101	Crank Shaft	(1)
34	42-70-0480	Leaf Spring	(1)
35	-----	Paddle	(1)
36	45-88-0093	Flat Washer	(1)
37	-----	Retaining Ring	(1)
40	-----	Gearcase	(1)
41	05-81-0594	M4 x 14mm Flat Head T-20 ST Screw	(4)
42	05-88-0038	M4 x 15mm Flat Head T-20 Mach.Screw	(4)
43	05-88-5375	M4 x 13.5mm Pan Head T-20 ST Screw	(6)
44	06-82-0243	M2 x 6mm Pan Head T-6 PT Screw	(1)
46	44-60-0890	Drive Pin	(1)
50	-----	Needle Bearing	(2)
56	-----	Trigger Paddle Pin	(1)
58	-----	Carrier	(1)
61	45-98-0101	Yoke	(1)
62	42-40-0325	Bushing	(1)
68	-----	Friction Plate	(1)
72	-----	Planet Washer	(1)
83	12-20-6058	Service Nameplate	(1)
89	45-88-9201	Anvil Washer	(1)
91	10-15-9201	Fuel Gauge Label	(1)
101	42-06-0076	1/4" Anvil Assembly Tall	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
103	14-29-2003	Gearcase/Bearing Assembly	(1)
104	14-29-2001	Gear Train Kit	(1)
105	14-20-3002	Motor PCBA Assembly	(1)
106	31-50-2001	Handle Kit	(1)
107	31-92-0011	Paddle Assembly	(1)
152	49-16-3052	1/4" Ratchet Boot (Accessory)	(1)
157	49-16-3053MTC	Trigger Kit (Accessory)	(1)

FIG. NOTES
83, 91 A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.

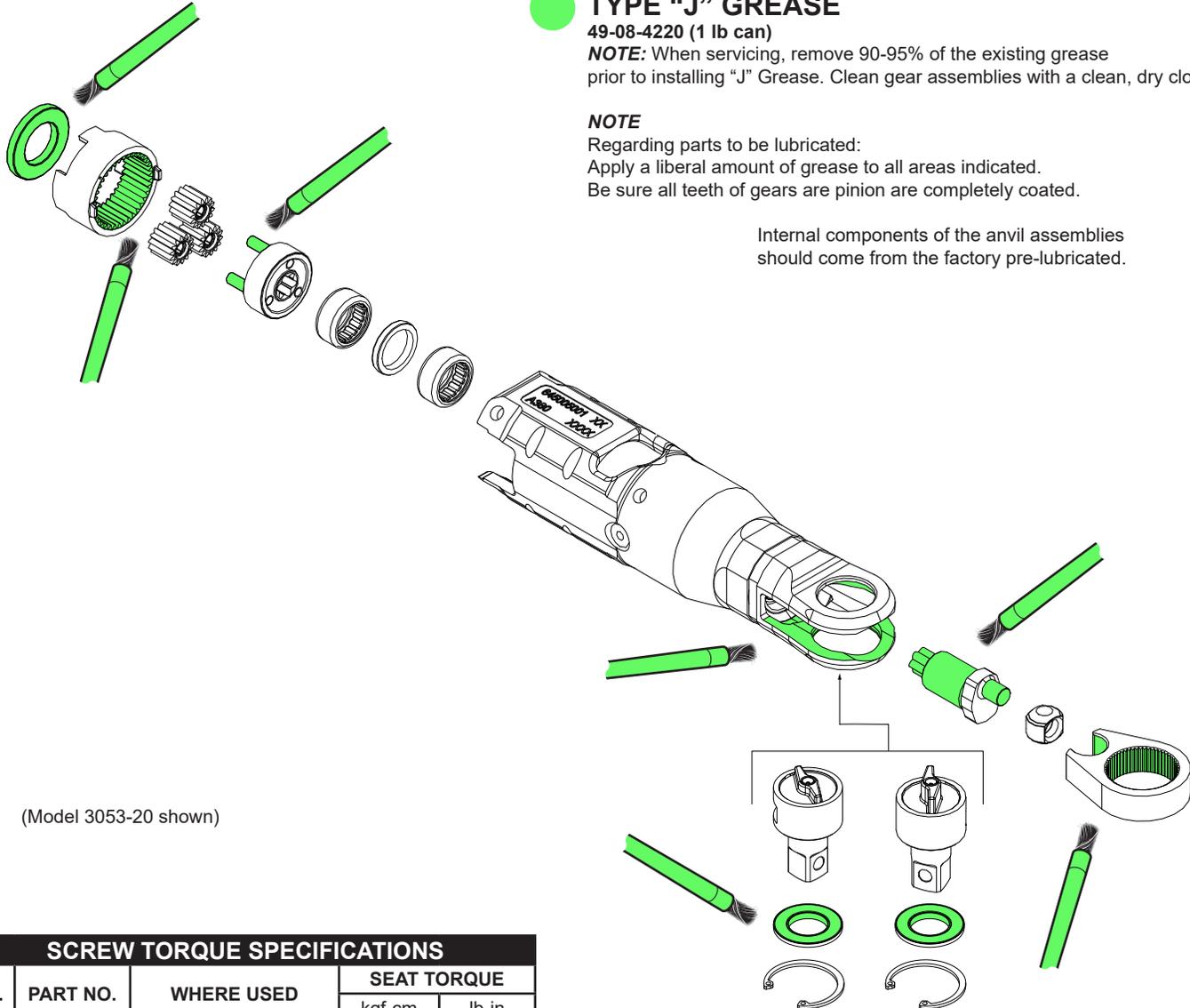
LUBRICATION INSTRUCTIONS

TYPE "J" GREASE 49-08-4220 (1 lb can)

NOTE: When servicing, remove 90-95% of the existing grease prior to installing "J" Grease. Clean gear assemblies with a clean, dry cloth.

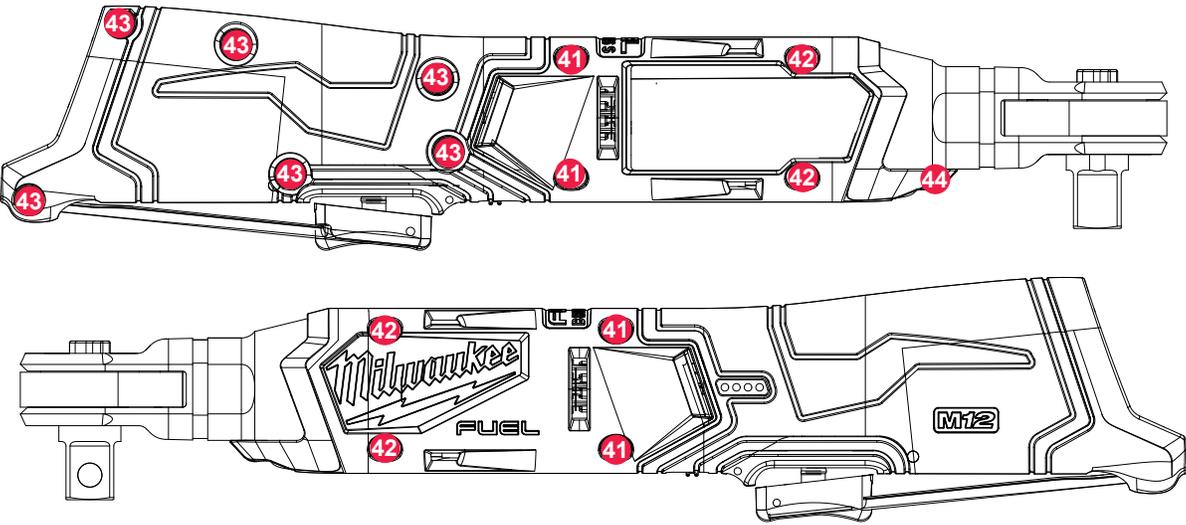
NOTE
Regarding parts to be lubricated:
Apply a liberal amount of grease to all areas indicated.
Be sure all teeth of gears and pinion are completely coated.

Internal components of the anvil assemblies should come from the factory pre-lubricated.



(Model 3053-20 shown)

SCREW TORQUE SPECIFICATIONS				
FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			kgf-cm	lb-in
41	05-81-0594	Handle Housing	15±1.5	13±1.3
42	05-88-0038	Handle Housing	15±1.5	13±1.3
43	05-88-5375	Handle Housing	11±1	13±1
44	06-82-0243	Handle Housing	1±0.2	1±0.2



WIRING INSTRUCTIONS



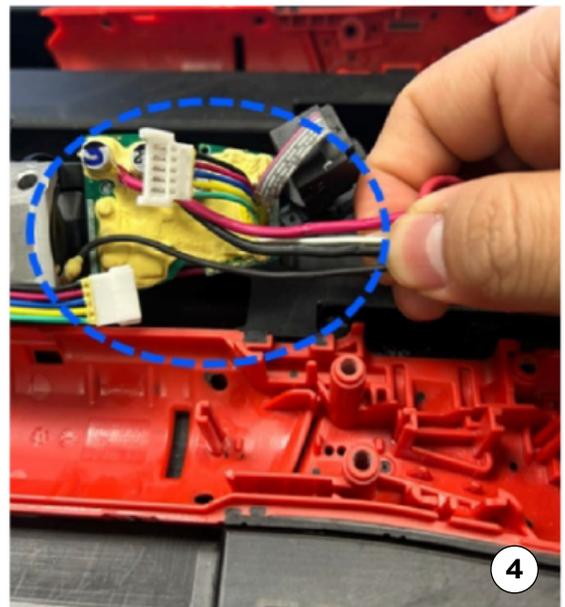
1. Route the connector and trigger over the indicated cables.



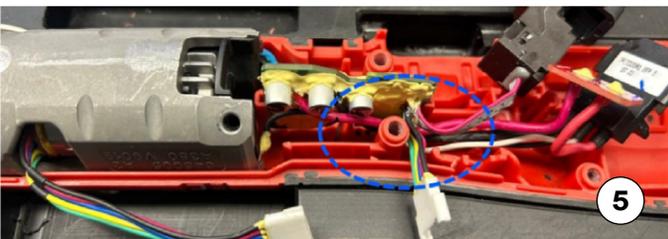
2. Center the LED in the Gearcase slot.



3. Red and white wires are situated above the black wires.



4. Connector and Trigger are placed on top of black, white and red wires.

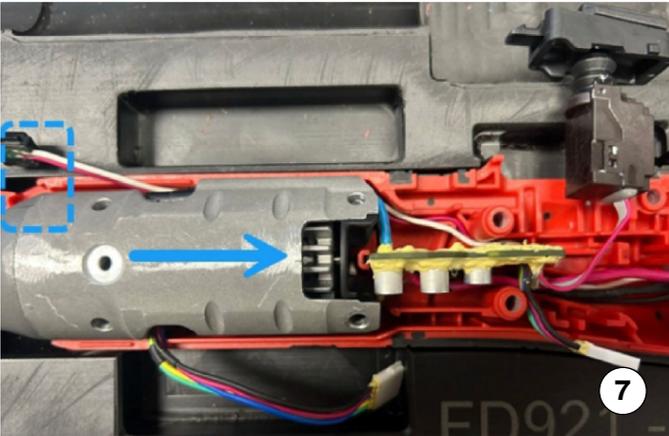


5. While holding the cables, place PCBA into housing support until fully seated. Route cables inside of slot.

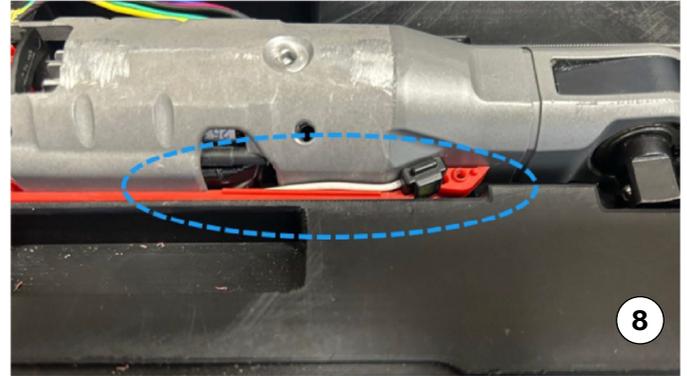


6. Confirm black wires are on the bottom of housing, red and white wires are on top and wrap connector wire around the outside of the boss.

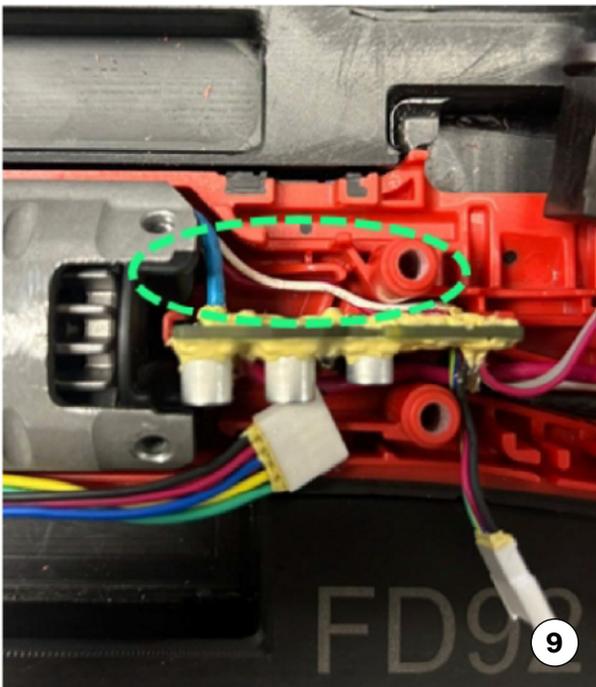
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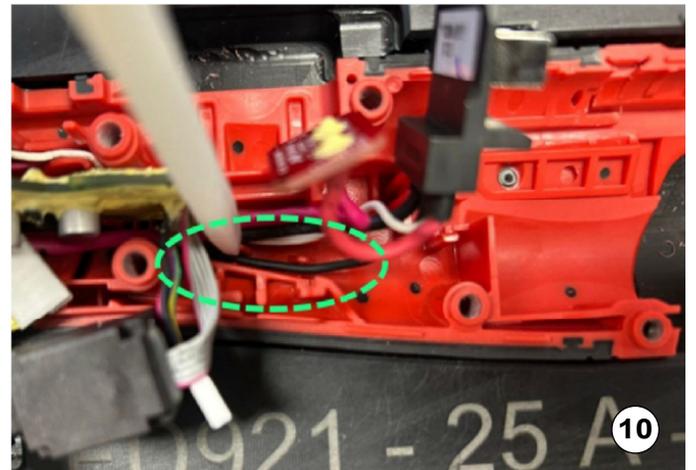
7. Insert gearcase and align with housing. Be sure the LED slot is also aligned.



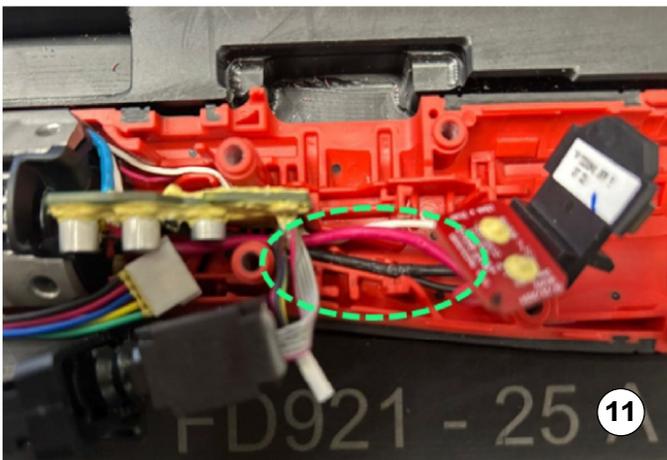
8. Insert LED into the LED slot and route the wires with the white wire above the red wire in the housing.



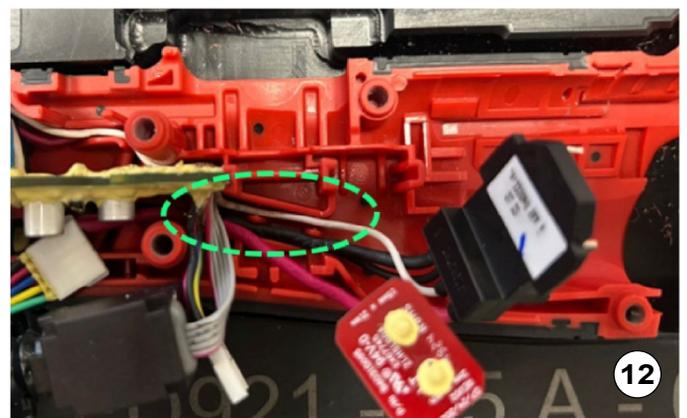
9. Route the LED wires through the wire trap in the housing.



10. Route the black wire through the wire trap in the housing.

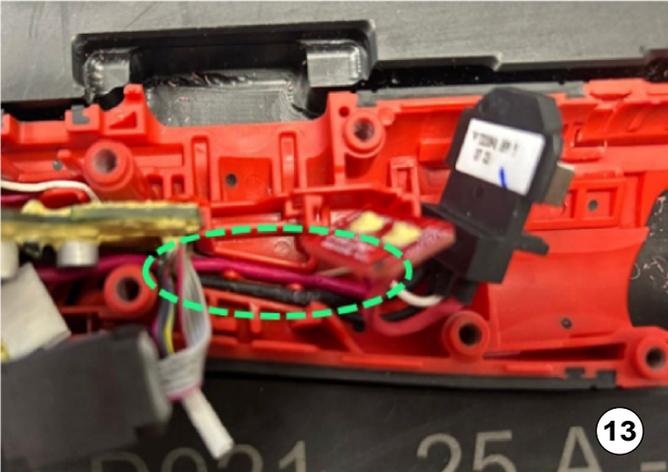


11. Route the thick black wire over the thin black wire in the bottom wire trap.

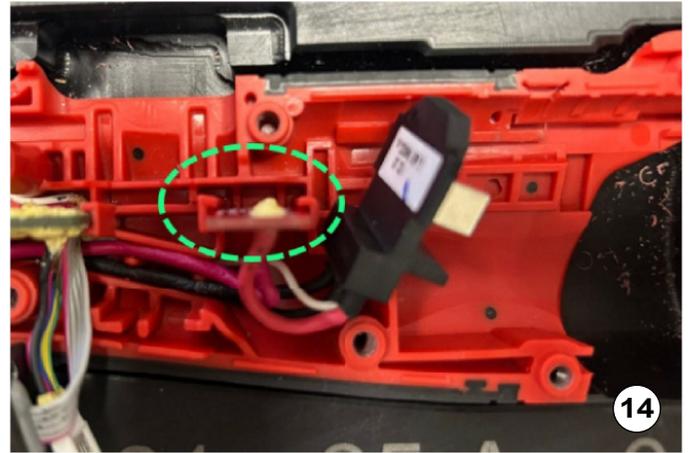


12. Route the white wire through the top wire trap in the housing.

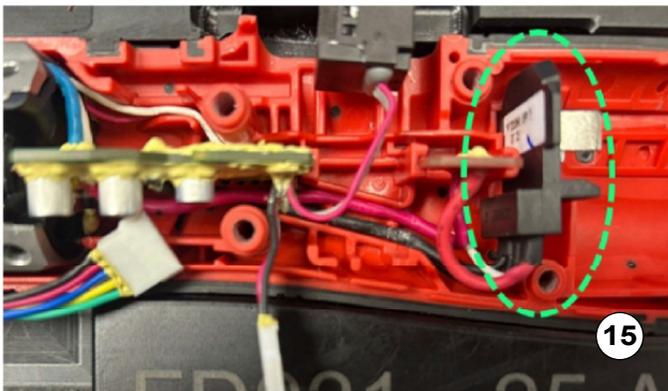
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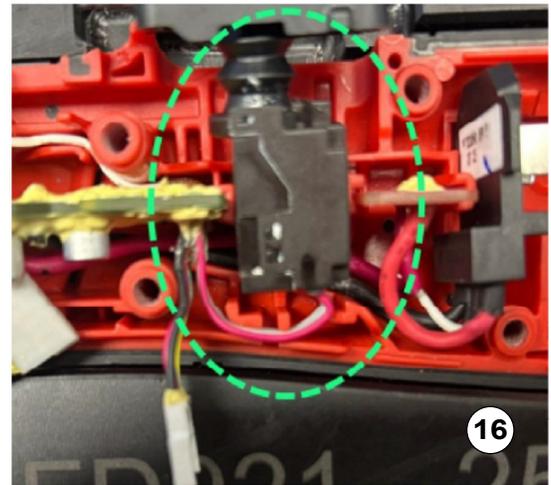
13. Route the red wire over the white wire.



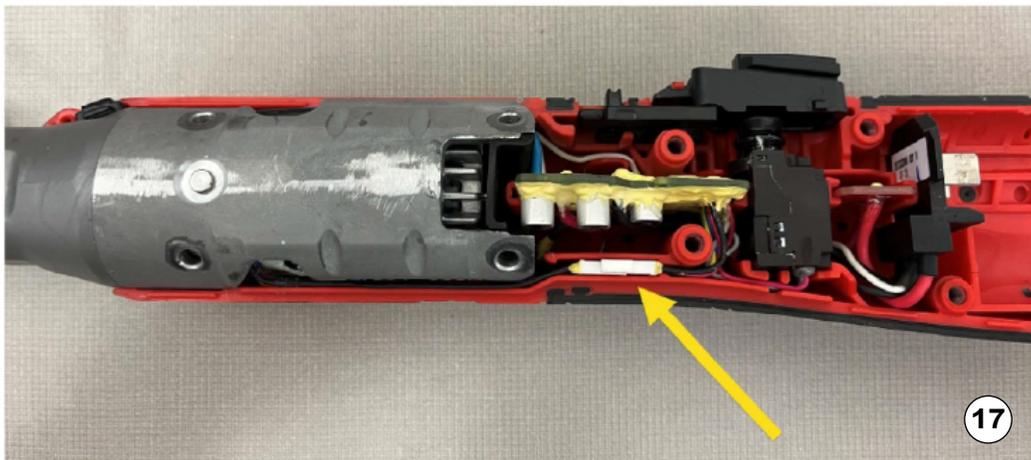
14. Insert HIT board into slot.



15. Insert the battery terminal into the slot.



16. Insert trigger into the housing and route wires through bottom wire traps.



17. Connect and route hall sensor wires against gearcase. Install the connector in the bottom slot. Prior to installing the housing cover, be sure there are no interferences.