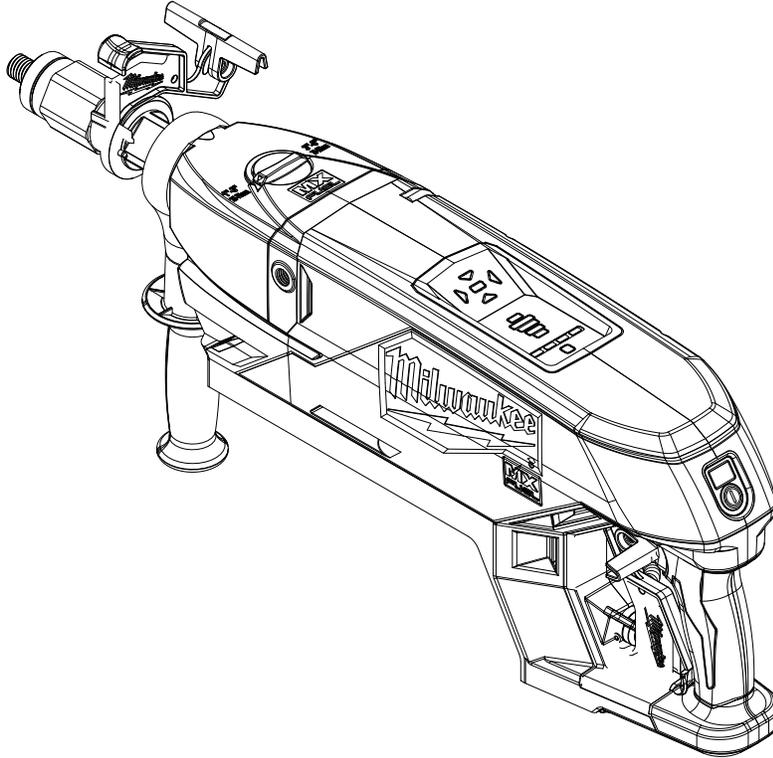




## SERVICE PARTS LIST

BULLETIN NO.  
54-16-9000

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS				REVISED BULLETIN	DATE
<b>MX FUEL™ Hand Held Core Drill</b>					Mar. 2025
CATALOG NO.	<b>MXF301</b>	STARTING SERIAL NO.	<b>K28A</b>	WIRING INSTRUCTION <b>See pages 6 thru 8</b>	



Only maintenance, service, repairs, and replacements of parts as defined in the Operator's Manual can be performed by the user.

All other repairs are to ONLY be performed by personnel authorized by MILWAUKEE TOOL. Do not attempt to install other parts; this COULD void your tool warranty.

### For service, parts, or inquiries, contact us:

- Customer Service at 1.800.SAWDUST (1.800.729.3878)
- E-Service tool repair at: [www.milwaukeetool.com/e-service](http://www.milwaukeetool.com/e-service)
- Find a local authorized MILWAUKEE service location at [Milwaukeetool.com](http://Milwaukeetool.com)
- Find a MILWAUKEE factory Service Center Location or MILWAUKEE factory Central Repair Center at [Milwaukeetool.com](http://Milwaukeetool.com). Send the following, posted paid and insured:
  - Your name, address, and phone number
  - Description of the issues
  - Copy of the proof of purchase
  - Tool, charger, and batteries involved with the issues

### MILWAUKEE factory Central Repair Centers:

MILWAUKEE TOOL  
Central Repair  
1401 Sycamore Avenue  
Greenwood, MS 38930

MILWAUKEE TOOL  
Central Repair  
2198 Southtech Drive  
Greenwood, IN 46143

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**EXAMPLE:**

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

**NOTE:**

For clarity on Electrical components see page 2.  
For Gear Case components see page 3.

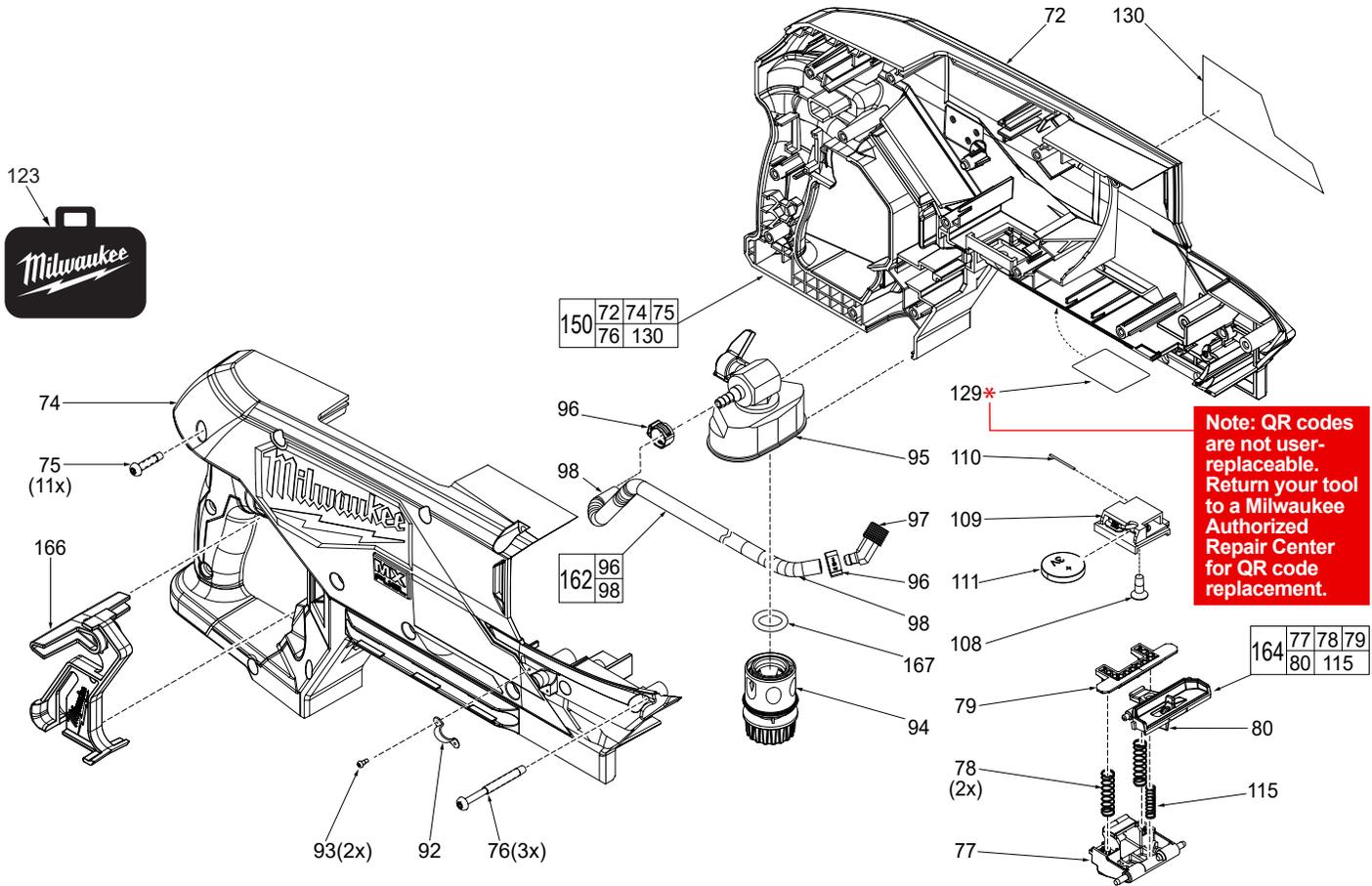


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
72	-----	Handle Support	(1)
74	-----	Handle Cover	(1)
75	06-82-0152	M5 x 22mm Pan Hd. ST T-25 Screw	(11)
76	06-82-0004	M5 x 55mm Pan Hd. Taptite T-25 Screw	(3)
77	-----	Pivot Latch w/Dowels	(1)
78	40-50-0106	Battery Interface Spring	(2)
79	-----	Latch Lock Spring Holder	(1)
80	-----	Plastic Release Lever	(1)
92	42-68-1205	Hose Clamp	(1)
93	05-74-0028	M2.3 x 6mm Pan Hd. Taptite T-8 Screw	(2)
94	42-90-0012	Quick Hose Connector	(1)
95	45-80-0316	Water Valve Body	(1)
96	-----	Hose Clamp Ring	(2)
97	42-86-0077	Water Hose Connector	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
98	-----	Form Hose	(1)
109	31-15-0476	Coin Cell Door	(1)
110	44-60-1915	Pin	(1)
111	-----	3V Coin Cell Battery (CR2032)	(1)
115	40-50-8945	Spring, Lever Biasing	(1)
123	42-55-0301	Blow Molded Carrying Case	(1)
129	-----	QR Code Label	(1)
130	12-20-0224	Service Nameplate	(1)
150	31-44-5400	Housing Kit	(1)
162	45-80-0315	Water Hose Kit	(1)
164	44-20-1074	Latch Assembly	(1)
166	31-92-0535	Lock-On Lever Assembly	(1)
167	34-40-0166	O-Ring	(1)

# ELECTRONICS

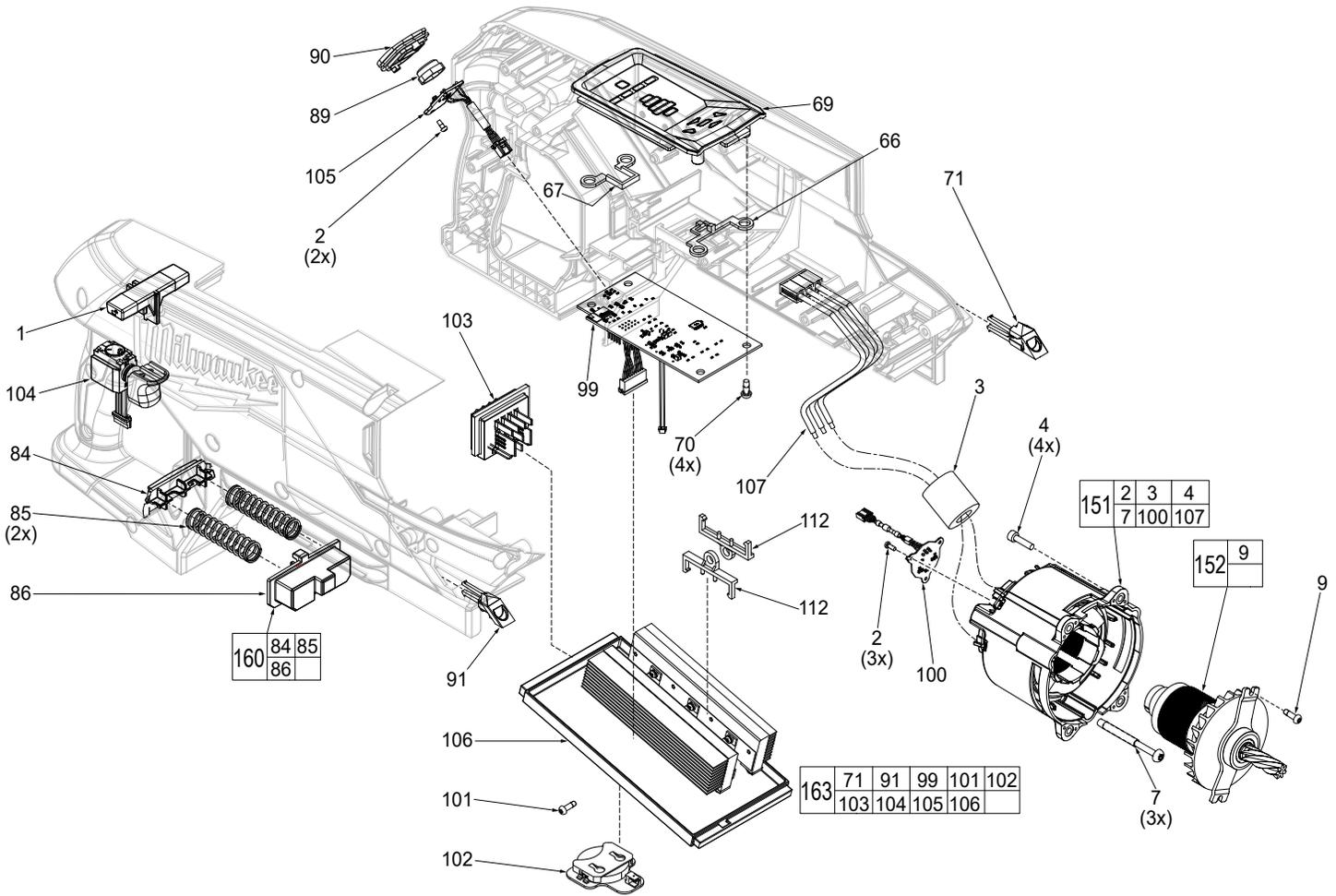


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	42-42-4005	Lock-Off Slider	(1)
2	06-82-9610	M2.5 x 6mm Pan Hd. Taptite T-8 Screw	(5)
3	-----	Ferrite Bead	(1)
4	05-74-0013	M3 x 8mm ST FH Phillips #2 Screw	(4)
7	05-88-5905	M4 x 41mm Pan Hd. T-20 PT Screw	(3)
9	05-81-1338	M4 x 10mm Pan Hd. T-20 Mach. Screw	(2)
66	45-36-7100	Leveling Compass Spacer	(1)
67	45-36-7105	One-Key Light Spacer	(1)
69	43-76-2140	Command Center Housing	(1)
70	05-71-0017	M4 x 10mm Pan Hd. ST T-20 Screw	(4)
71	-----	Work Light Lens-Handle Support Side	(1)
84	-----	Ejection Spring Mount	(1)
85	40-50-0109	Spring	(2)
86	-----	Battery Ejector	(1)
89	42-42-4010	Arm Button	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
90	31-15-2355	Arm Housing	(1)
91	-----	Work Light Lens-Cover Side	(1)
99	14-20-0423	Command Center PCBA	(1)
100	-----	Hall Sensor PCBA	(1)
101	06-82-0029	M5 x 16mm Pan Hd. ST T-25 Screw	(1)
102	14-20-0119	Coin Cell PCBA	(1)
103	-----	Terminal Block Assembly	(1)
104	23-66-5370	Signal Switch	(1)
105	14-20-2876	Arm Board PCBA	(1)
106	14-20-2877	Power Board Assembly	(1)
107	-----	Motor Wire Connector Assembly	(1)
112	42-70-0022	Plastic Connector Clip	(2)
151	23-58-0015	Stator Assembly	(1)
152	16-01-6010	Rotor Assembly	(1)
160	14-46-9235	Ejector Kit	(1)
163	14-20-0422	Electronics Assembly	(1)

# GEARCASE ASSEMBLY

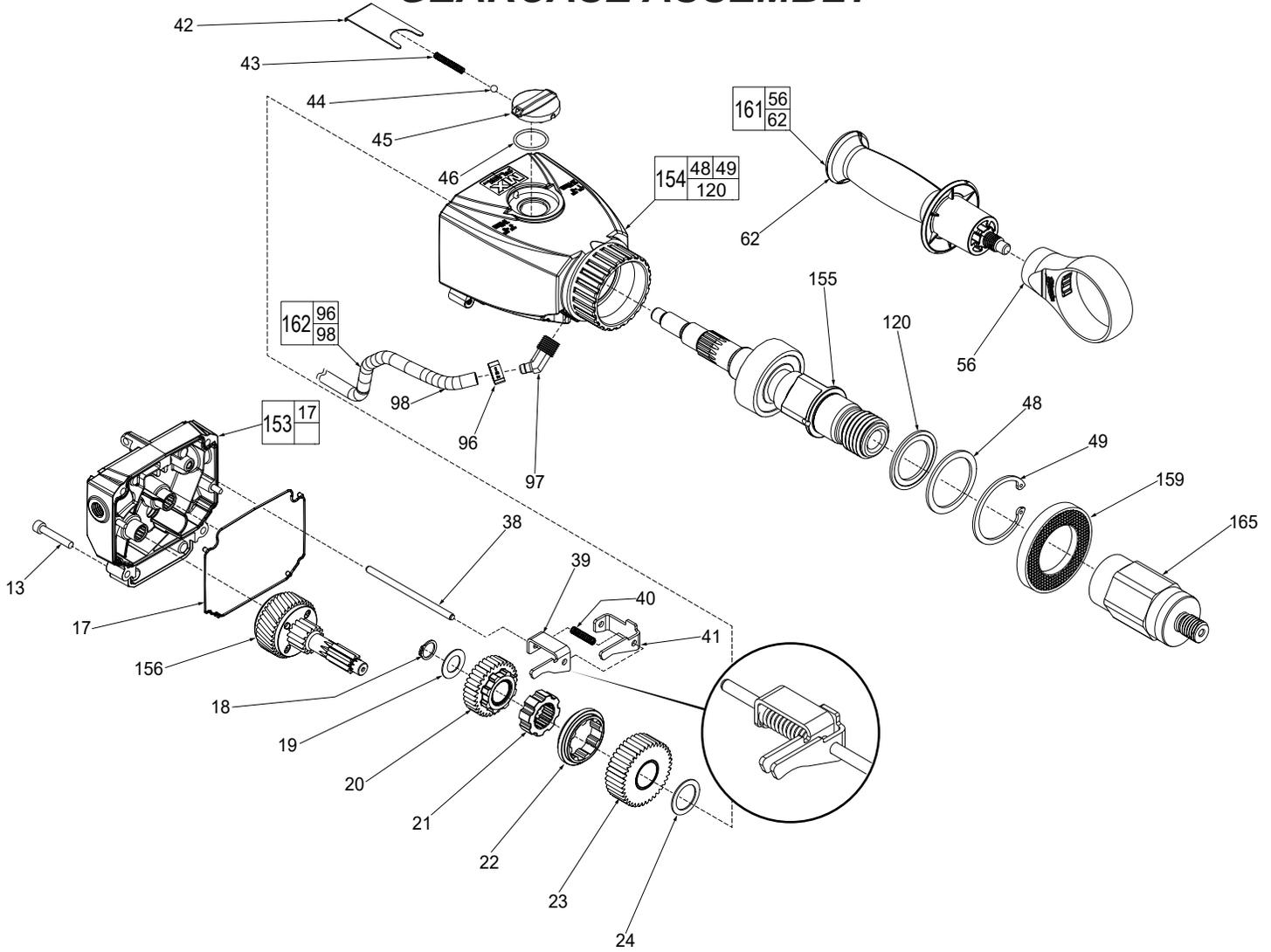


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
13	05-75-0012	M5 x 30mm Cap Hd. Hex Recess Screw	(4)
17	-----	Diaphragm Seal	(1)
18	34-60-0026	External Retaining Ring	(1)
19	45-88-8930	Washer	(1)
20	32-44-1320	2nd High Gear	(1)
21	43-12-0065	Drive Hub	(1)
22	42-90-0305	Coupler	(1)
23	32-44-1325	2nd Low Gear	(1)
24	45-88-8935	Washer	(1)
38	44-94-0017	Guide Rod	(1)
39	42-36-0210	Shift Bracket A	(1)
40	40-50-8940	Shift Spring	(1)
41	42-36-0211	Shift Bracket B	(1)
42	44-90-0040	Shift Knob Retainer	(1)
43	40-50-0038	Spring	(1)
44	02-02-0103	Spring Detent Ball	(1)
45	44-10-0058	Speed Selector Knob	(1)
46	34-40-1570	O-Ring	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
48	-----	Washer	(1)
49	-----	Internal Retaining Ring	(1)
56	-----	Side Handle Carrier Assembly	(1)
62	43-62-2870	Side Handle	(1)
96	-----	Hose Clamp Ring	(2)
97	42-86-0077	Water Hose Connector	(1)
98	-----	Form Hose	(1)
120	-----	Bearing Spacer	(1)
153	14-13-0575	Diaphragm Assembly w/ Needle Bearings	(1)
154	14-30-2875	Gearcase Assembly w/ Seals and Bearing	(1)
155	14-73-0515	Spindle Kit	(1)
156	14-08-0145	Clutch/Gear Assembly	(1)
159	43-34-0940	Flange Assembly	(1)
161	14-34-6005	Side Handle Assembly	(1)
162	45-80-0315	Water Hose Kit	(1)
165	48-03-0040	Adapter Assembly	(1)

## LUBRICATION NOTES:

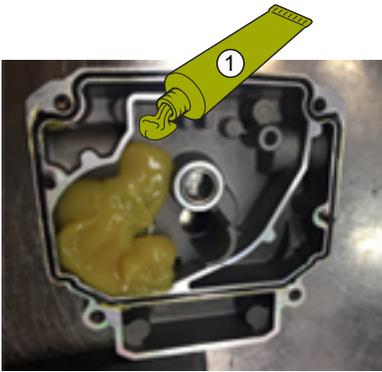
### Type 'Y' Grease

No. 49-08-5270, 6oz. tube

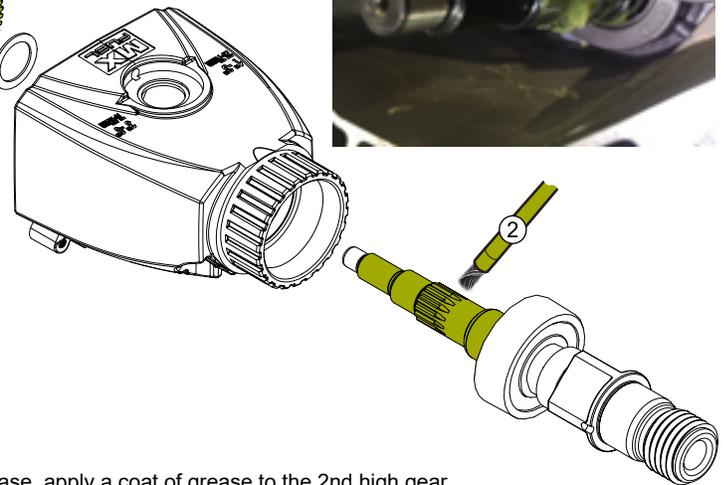
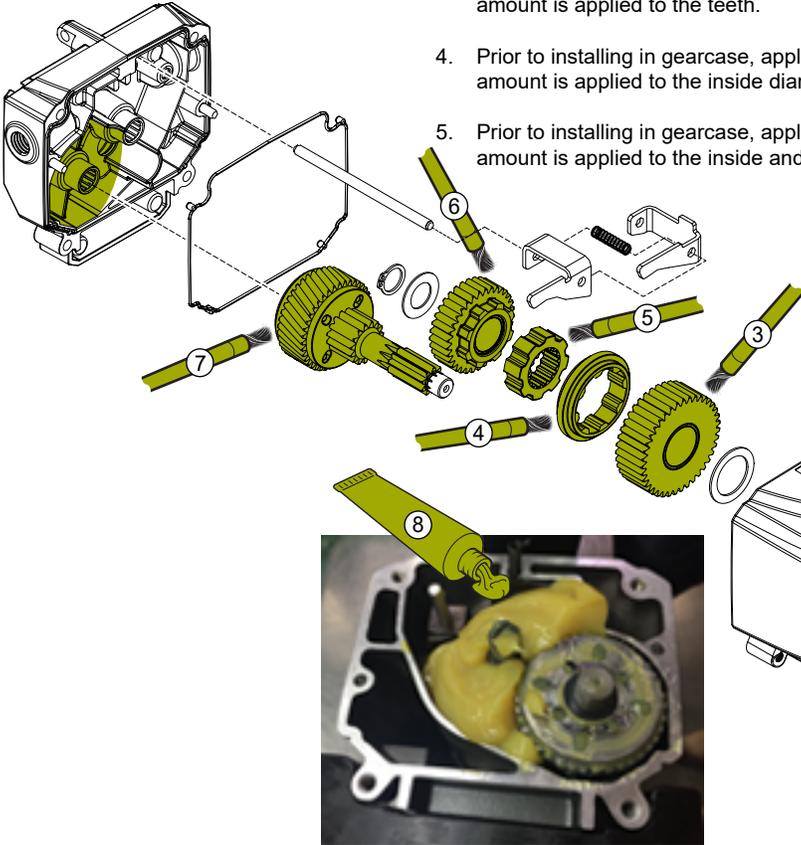
No. 49-08-5275, 14oz. tub

#### NOTE:

When servicing, remove 90-95% of the existing grease prior to installing Type 'Y'. Original grease may be similar in color but not compatible with 'Y'. Clean gear assemblies with a clean, dry cloth.

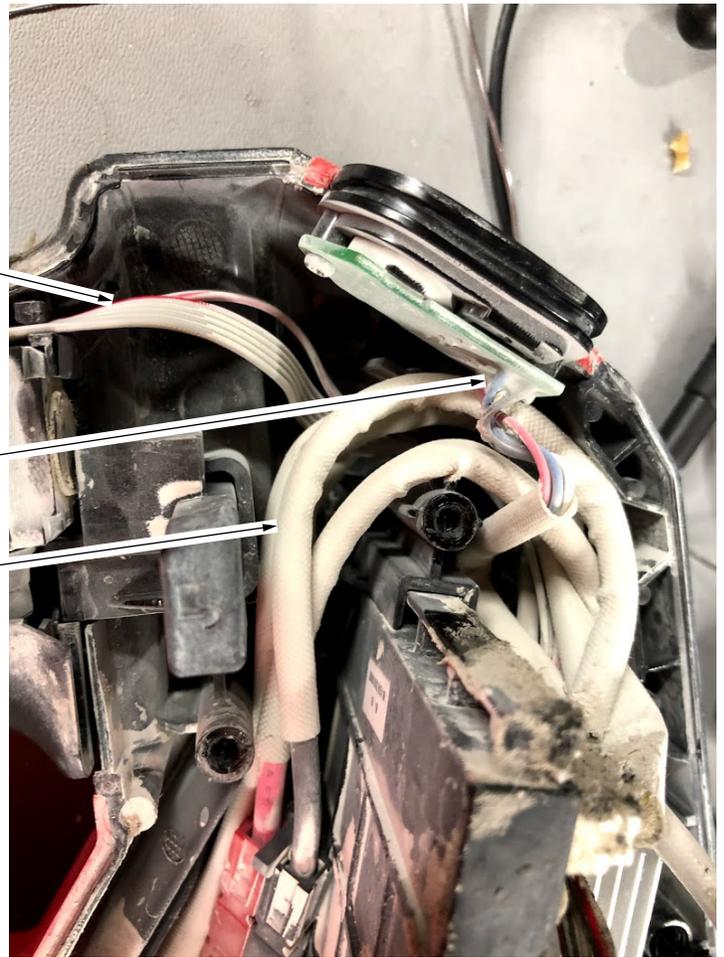


1. Place 20g grease in diaphragm cavity as shown.
2. After installing the spindle assembly into gearcase assembly, apply grease to spindle shaft area, being sure that a liberal amount is applied to the teeth.
3. Prior to installing in gearcase, apply a coat of grease to the 2nd low gear, being sure that a liberal amount is applied to the teeth.
4. Prior to installing in gearcase, apply a coat of grease to the coupler, being sure that a liberal amount is applied to the inside diameter teeth.
5. Prior to installing in gearcase, apply a coat of grease to the drive hub, being sure that a liberal amount is applied to the inside and outside teeth.

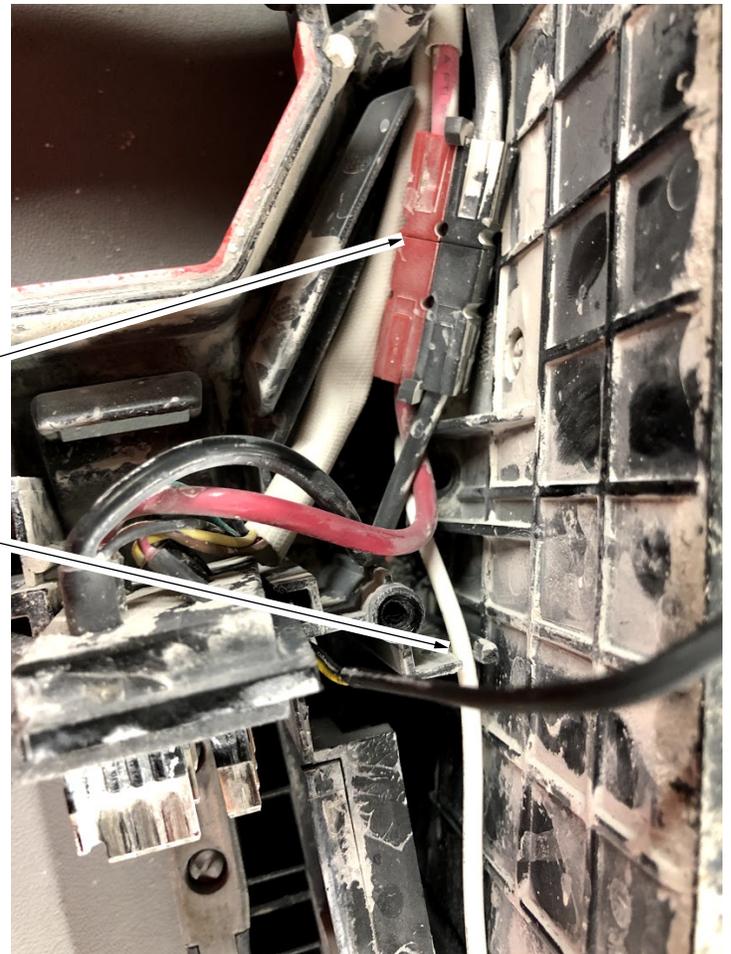


6. Prior to installing in gearcase, apply a coat of grease to the 2nd high gear, being sure that a liberal amount of grease is applied to the gear teeth.
7. Note: Internal components of the clutch/gear assembly come prelubricated from the factory. Coat exterior of clutch/gear assembly with grease as shown before placing into gearcase. Be sure that a liberal amount is applied to the teeth.
8. With gearing mechanism installed, place 140g grease in gearcase cavity as shown.

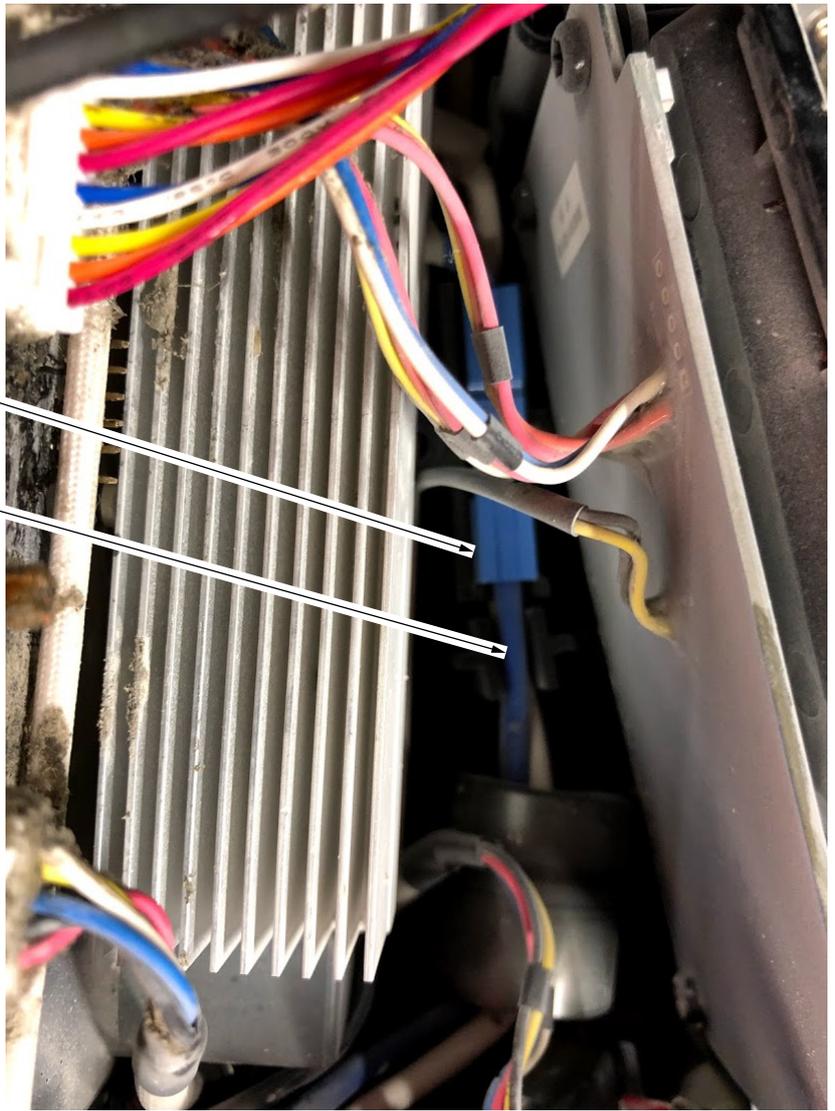
- Route trigger wires underneath all wires then through the guides down to the slot.
- Arm button should route under and be placed into designated slot in the handles on tool.
- Route power wires and battery signal wires around the screw boss down towards battery.



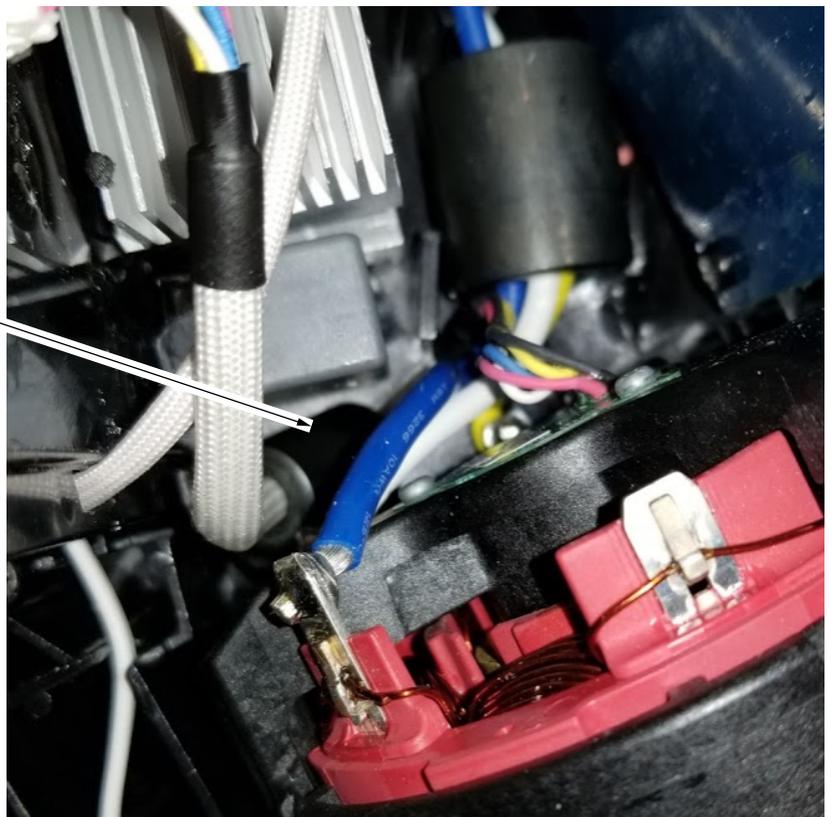
- Power wires clip to battery terminal power wires and attach using an Anderson clip.
- Load-in handle worklight LED, should route through the guide lines underneath PCBA.



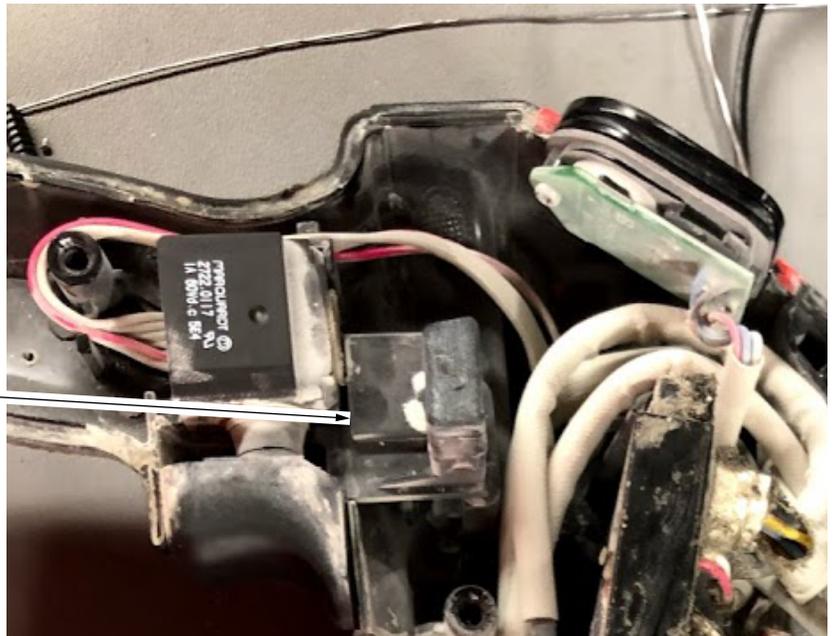
- Connect phase wires to motor from PCBA and use an Anderson clip to hold them together. PCBA should slide into card-guides with the phase wires inserting into slots available to them.



- Hall board wires should be connected to the appropriate slot and routed with the ferrite placed to the right of power board.



- Ensure that trigger lock is placed appropriately.



- Plug command center into power board and place the board into the designated spot in handles.

