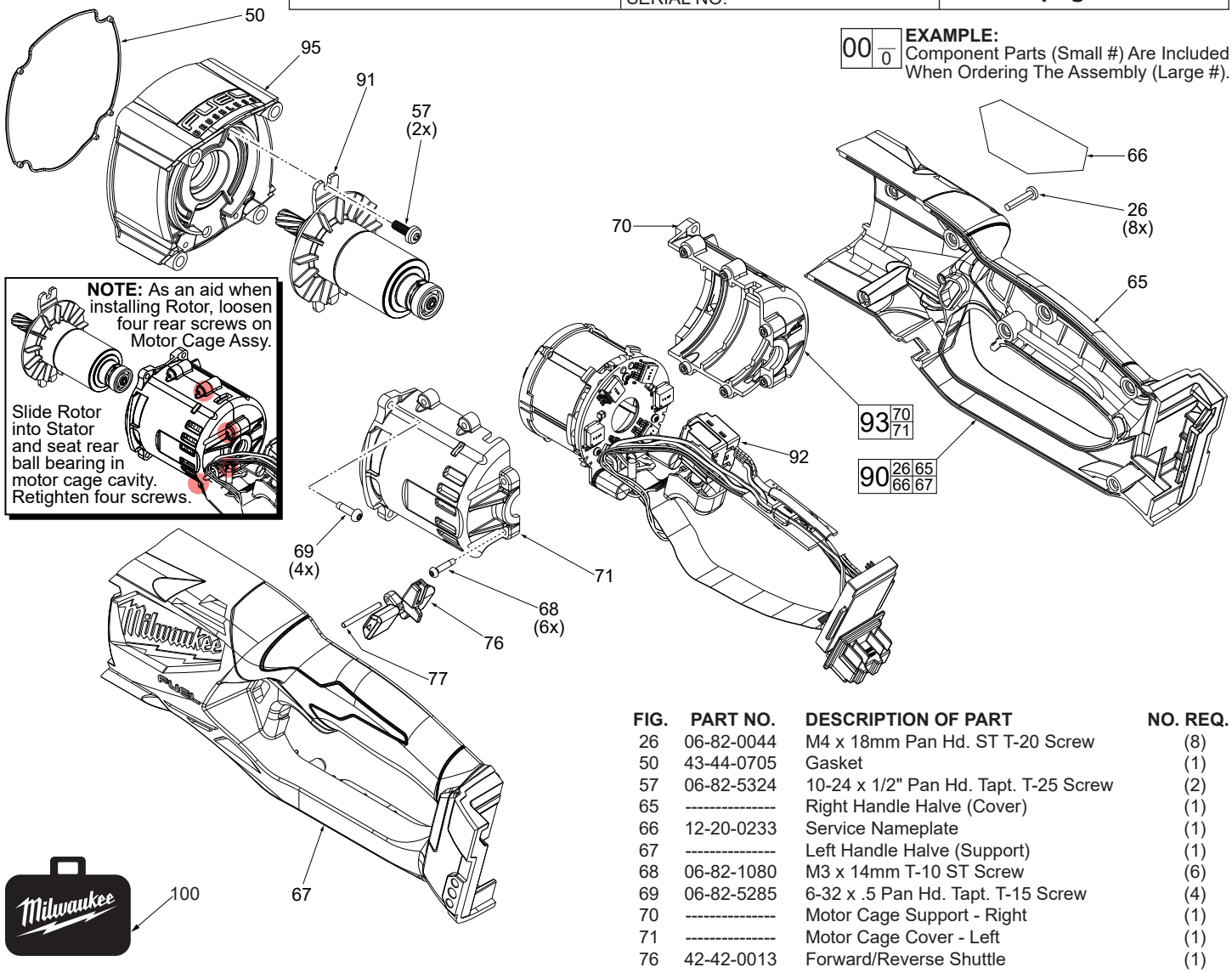
SERVICE PARTS

BULLETIN NO. 54-10-2750

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18™ FUEL™ 7/16" Hex Super-Hawg®			July 2019
CATALOG NO. 2811-20	STARTING SERIAL NO. **K58A**	WIRING INSTRUCTION	**See pages 4 & 5**



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

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
26	06-82-0044	M4 x 18mm Pan Hd. ST T-20 Screw	(8)
50	43-44-0705	Gasket	(1)
57	06-82-5324	10-24 x 1/2" Pan Hd. Tapt. T-25 Screw	(2)
65	----------	Right Handle Halve (Cover)	(1)
66	12-20-0233	Service Nameplate	(1)
67	----------	Left Handle Halve (Support)	(1)
68	06-82-1080	M3 x 14mm T-10 ST Screw	(6)
69	06-82-5285	6-32 x .5 Pan Hd. Tapt. T-15 Screw	(4)
70	----------	Motor Cage Support - Right	(1)
71	----------	Motor Cage Cover - Left	(1)
76	42-42-0013	Forward/Reverse Shuttle	(1)
77	44-60-2210	Pin	(1)
90	31-44-0094	Handle Assembly	(1)
91	16-01-0037	Rotor Assembly	(1)
92	14-20-0113	Electronics Assembly Contains: Stator, PCBA, On-Off Switch, LED, Battery Connector Block	(1)
93	23-16-0012	Motor Cage Assembly	(1)
95	14-13-0015	Diaphragm Assembly with Needle Bearings	(1)
100	48-55-3565	FUEL™ Contractor Bag - Large	(1)

SCREW TORQUE CHART			
Item	*Part Number*	*Seat Torque (Kg./cm.)*	*(In./lbs.)*
5	*05-88-9915*	*60-65*	*52-56*
7	*05-88-0510*	*30-45*	*26-39*
16	*06-82-5411*	*45-55*	*30-43*
19	*06-75-3155*	*140-160*	*122-139*
26	*06-82-0044*	*16-20*	*13-17*
30	*06-82-5360*	*75-86*	*65-74*
57	*06-82-5324*	*46-58*	*40-50*
68	*06-82-7240*	*13-15*	*11-13*
69	*06-82-5285*	*12-17*	*10-14*
78	*06-82-0130*	*6-10*	*5-8*
102	*06-82-2368*	*8-12*	*7-10*

IMPORTANT!
To prevent damage to the High Voltage Wire Assembly, a component in the Electronics Assembly #92, see service note on page 4 prior to removing the Motor Cage Cover #71.

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Drwg. 1

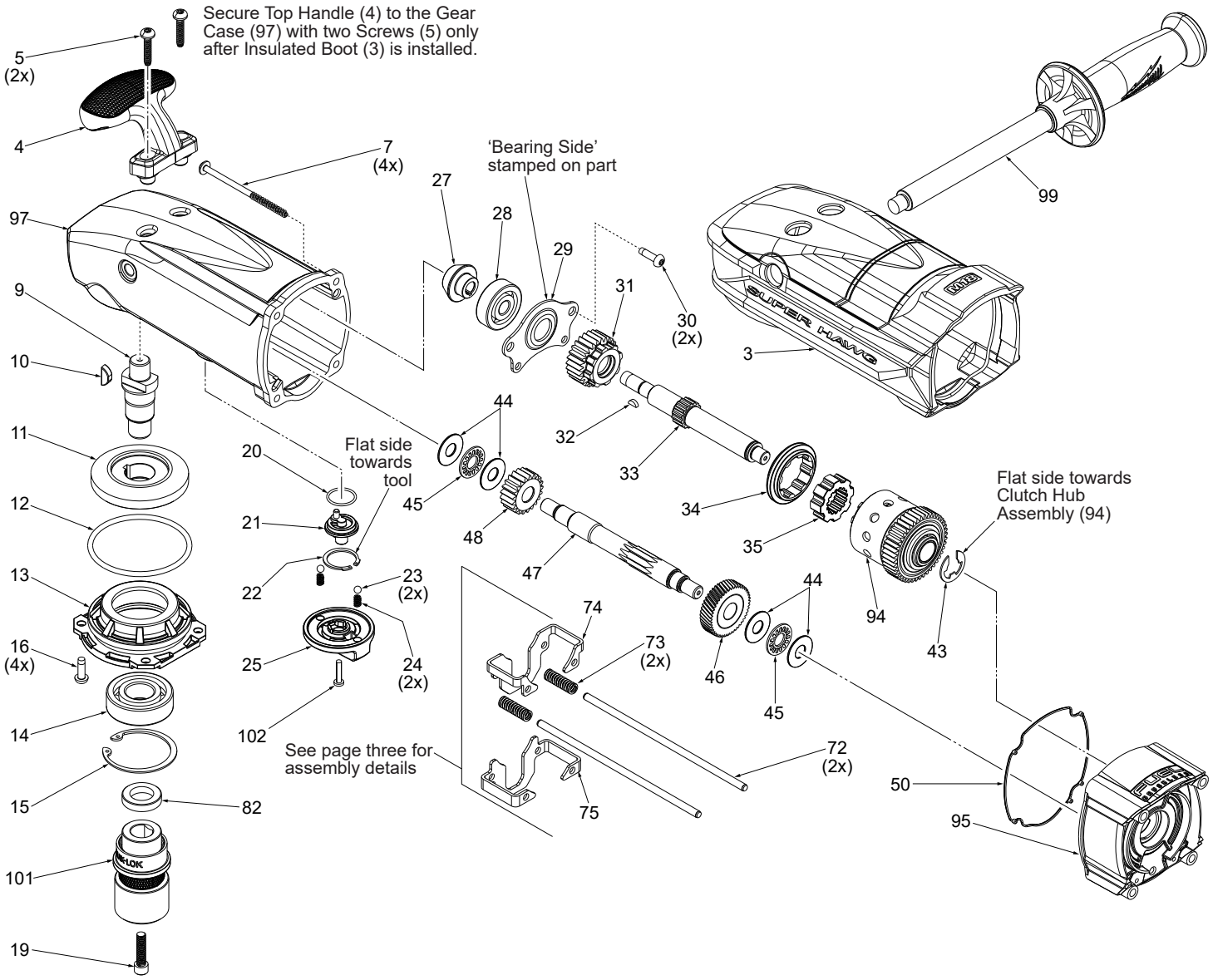
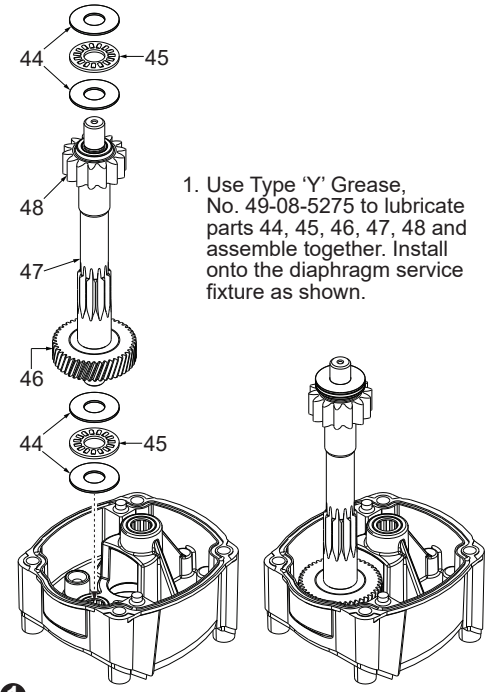


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
3	45-12-0020	Insulated Boot	(1)
4	31-44-2709	Top Handle	(1)
5	05-88-9915	M5 x 1.23 x 25mm Pan Hd. DG T-25 Screw	(2)
7	05-88-0510	M5 x 80mm Pan Hd. T-20 PT Screw	(4)
9	38-50-0027	Spindle	(1)
10	06-42-2400	Woodruff Key	(1)
11	32-05-0400	Bevel Gear	(1)
12	34-40-0005	O-Ring	(1)
13	28-53-0095	Spindle Mounting Hub	(1)
14	02-04-2031	Ball Bearing	(1)
15	34-80-2980	Retaining Ring	(1)
16	06-82-5411	10-24 x .625 Pan Hd. Taptite T-25 Screw	(4)
19	06-75-3155	1/4-20 x 1" Socket Head Screw-LH Thread	(1)
20	34-40-1570	O-Ring	(1)
21	28-53-0085	Shifting Hub	(1)
22	44-86-0032	Retaining Ring	(1)
23	02-02-1300	Steel Ball	(2)
24	40-50-8690	Detent Spring	(2)
25	43-98-0067	Shifting Knob	(1)
27	32-60-0280	Bevel Pinion	(1)
28	02-04-1055	Ball Bearing	(1)
29	44-66-1005	Bearing Retaining Plate	(1)
30	06-82-5360	1/4-20 x .625 Pan Hd. Taptite T-30 Screw	(2)
31	32-44-0500	2nd Intermediate Gear Assembly - High	(1)
32	06-42-0800	Woodruff Key	(1)
33	36-66-0300	2nd Intermediate Shaft	(1)
34	42-90-0015	Shifting Ring	(1)
35	43-12-0065	Drive Hub	(1)
43	34-60-1450	E-Ring	(1)
44	45-88-0395	Thrust Washer	(4)
45	02-80-0180	Thrust Bearing	(2)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
46	32-42-0200	1st Intermediate Gear	(1)
47	32-60-0018	2nd Intermediate Pinion - High	(1)
48	32-60-0405	2nd Intermediate Shaft	(1)
50	43-44-0705	Gasket	(1)
72	44-94-0012	Shifting Rod	(2)
73	40-50-0067	Shifter Spring	(2)
74	42-76-0281	Short Shift	(1)
75	42-76-0271	Long Shift	(1)
82	31-86-0010	Spacer	(1)
94	14-08-0010	Clutch Hub Assembly	(1)
95	14-13-0015	Diaphragm Assembly with Needle Bearings	(1)
97	14-30-0505	Gearcase Assembly with Needle Bearings	(1)
99	14-34-0030	Side Handle Assembly	(1)
101	42-66-0055	7/16" Hex Chuck Assembly	(1)\
102	06-82-2368	3.5 x 16mm Pan Hd. ST T-10 Screw	(1)



1. Use Type 'Y' Grease, No. 49-08-5275 to lubricate parts 44, 45, 46, 47, 48 and assemble together. Install onto the diaphragm service fixture as shown.

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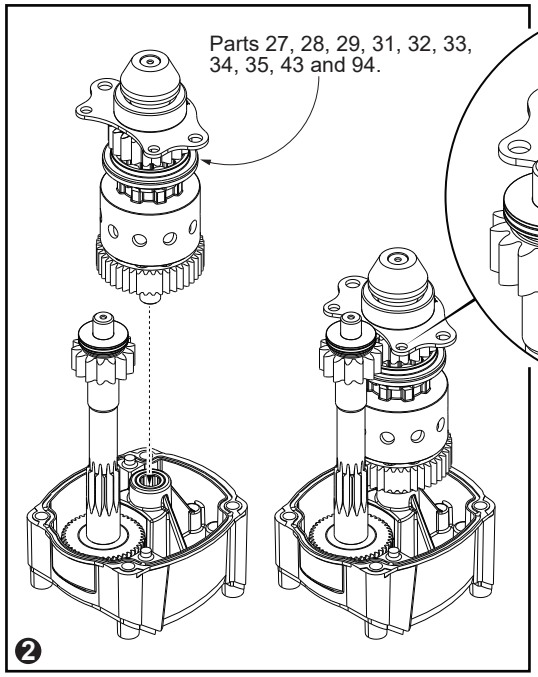

2. Use Type 'Y' Grease, No. 49-08-5275 to lubricate parts 27, 28, 29, 31, 32, 33, 35 and 94. Assemble together and contain with E-Ring 43. Install onto the diaphragm service fixture as shown. Use a Shifting Rod, 72 to properly align the holes in the Bearing Retaining Plate with the holes in the service fixture. Remove the Shifting Rod.

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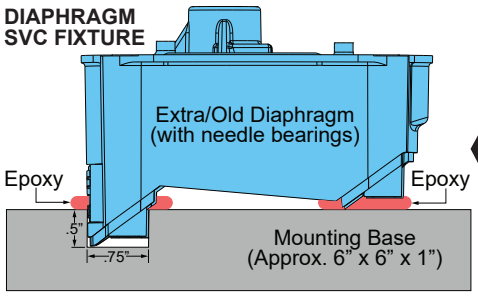
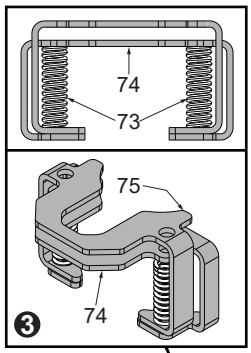


As an aid to reinstalling the gearing/clutch mechanism into a FUEL™ Super-Hawg®, a fixture can be made with an old used diaphragm (with the needle bearings) and a piece of mounting stock such as a piece of wood. A fixture such as this will free both hands for assembling.



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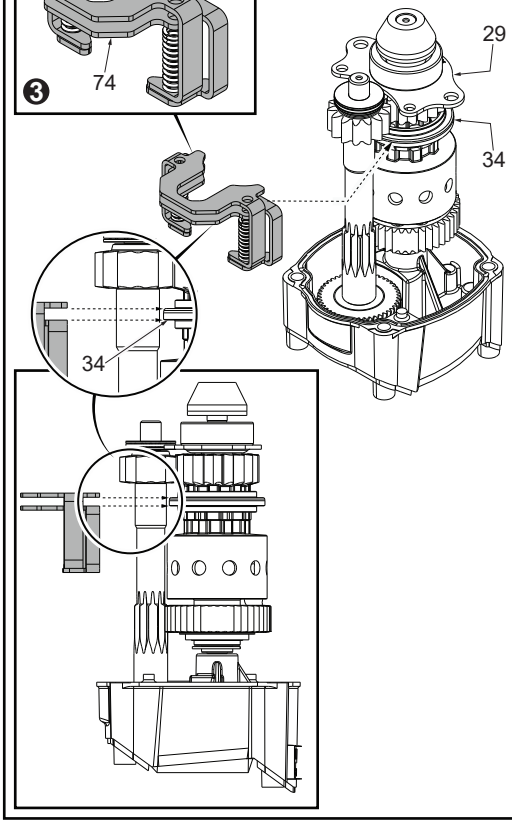
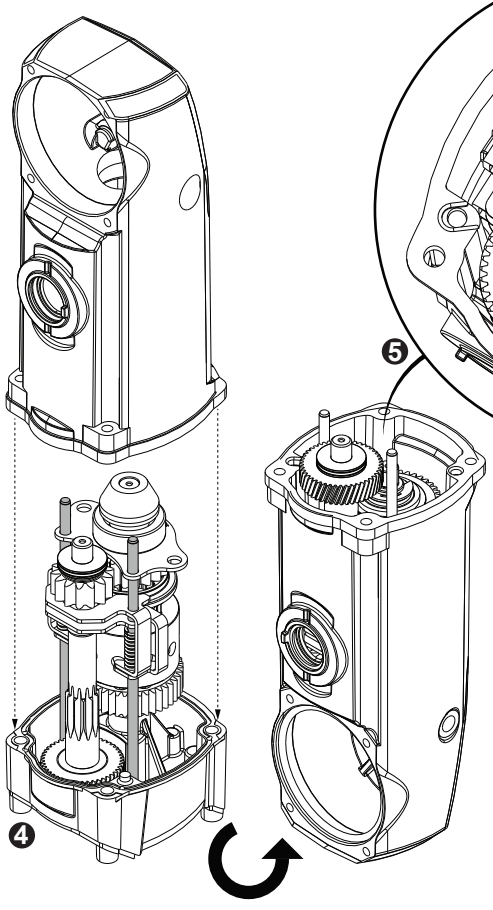
3. Use Type 'Y' Grease, No. 49-08-5275 to lubricate parts 73, 74 and 75. Assemble parts together as shown. Install onto Shifting Ring 34, lining up the Shifting Rod holes of 29, 74 and 75.



4. Carefully feed both Shifting Rods through the holes in the Bearing Retaining Plate and the Long and Short Shift Plates down into the corresponding holes in the service fixture. Carefully place the Gearcase Assembly over the gearing and onto the service fixture. Turn the assembly over and remove the diaphragm service fixture.



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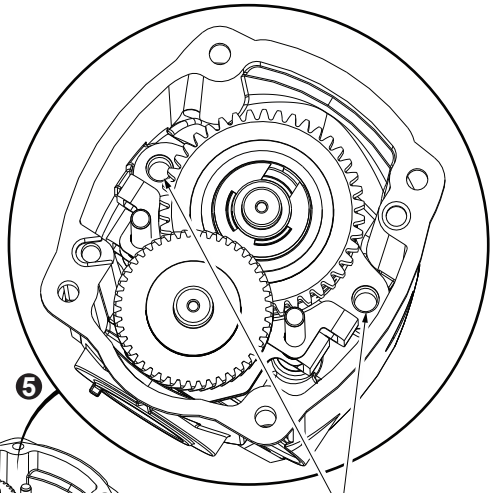

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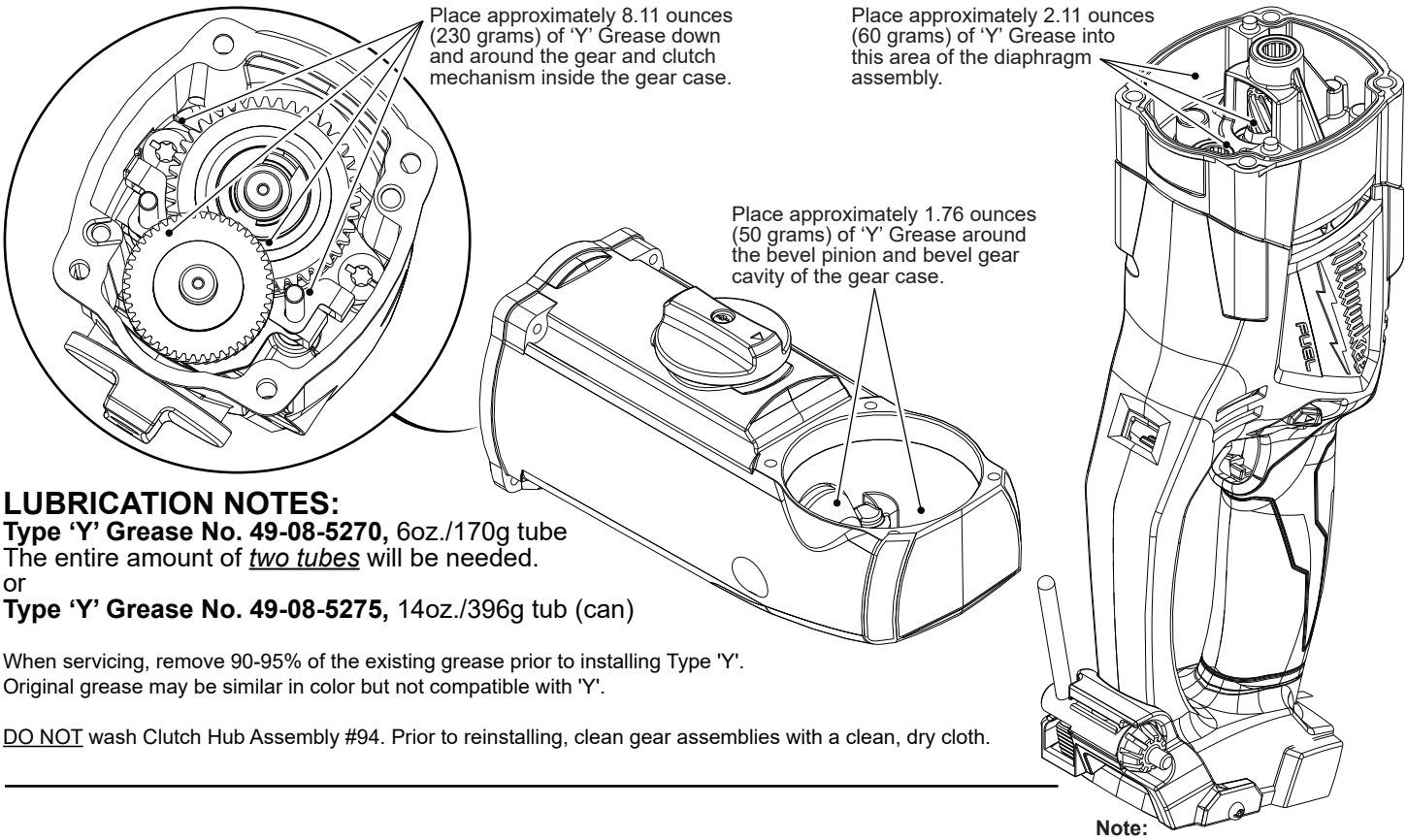
5. Secure gear/clutch mechanism into Gearcase Assembly (97) by using a long T-30 bit to drive two 06-82-5360 Screws.



LUBRICATION NOTES:

Type 'Y' Grease No. 49-08-5270, 6oz./170g tube
The entire amount of *two tubes* will be needed.
or
Type 'Y' Grease No. 49-08-5275, 14oz./396g tub (can)

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'.

DO NOT wash Clutch Hub Assembly #94. Prior to reinstalling, clean gear assemblies with a clean, dry cloth.

Note:
2809-20 shown in this illustration.

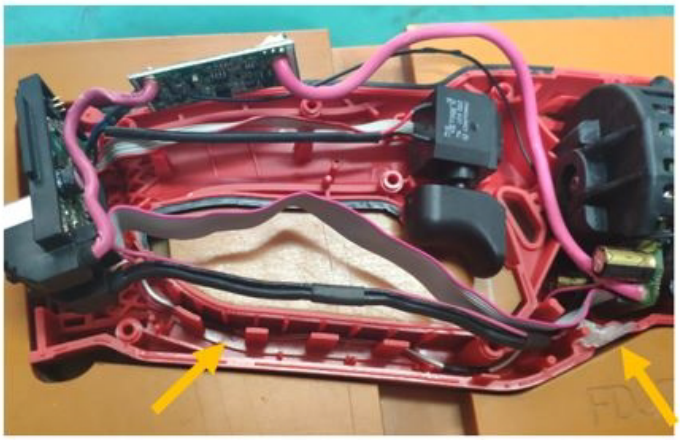
WIRING

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

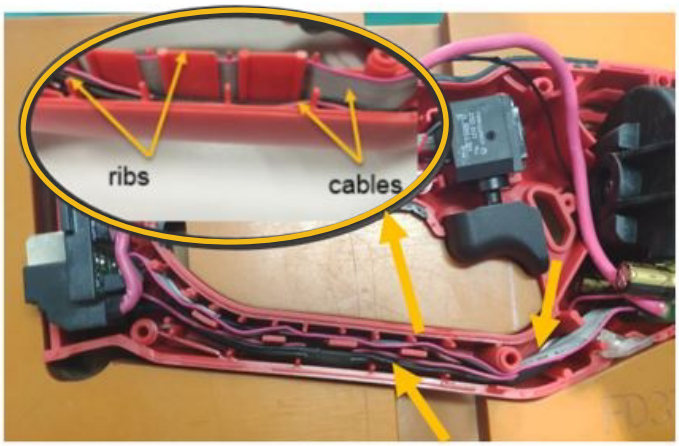
Be sure that all components of the electronics kit are seated firmly and squarely in the handle recesses.

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

Prior to installing the handle cover onto the handle support, be sure that there are no interferences.

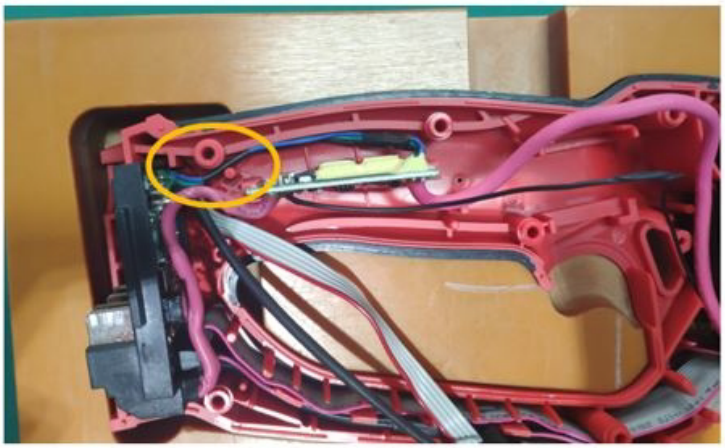


Step 1.
Place the LED into the slot as picture shows.

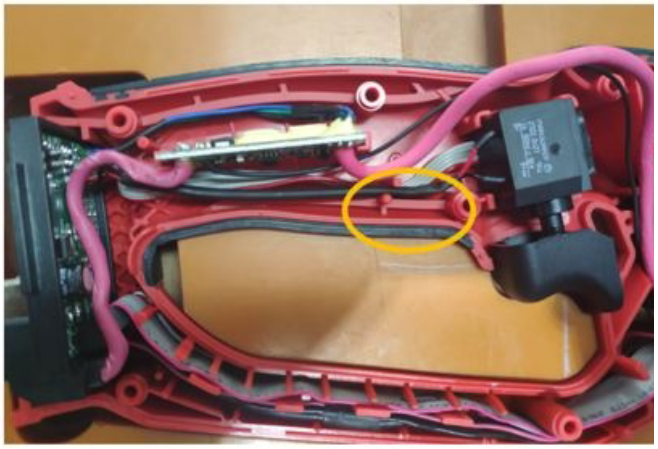


Step 2.
Place the ribbon cable and wires in traps and make sure they are below the ribs.

WIRING



Step 3.
Place the SSD Board.



Step 4.
Place the Switch and Switch Wire where shown in the picture above.

Step 5.
Place the Forward/Reverse Shuttle in handle as picture shows above.

Step 6.
Assemble Handle Halves and secure with screws in the sequence shown above.