



M18 CCS55

SERVICE PARTS DIAGRAM

TTI Model Number: 018 100 012, 023

M18™ FUEL CIRCULAR SAW

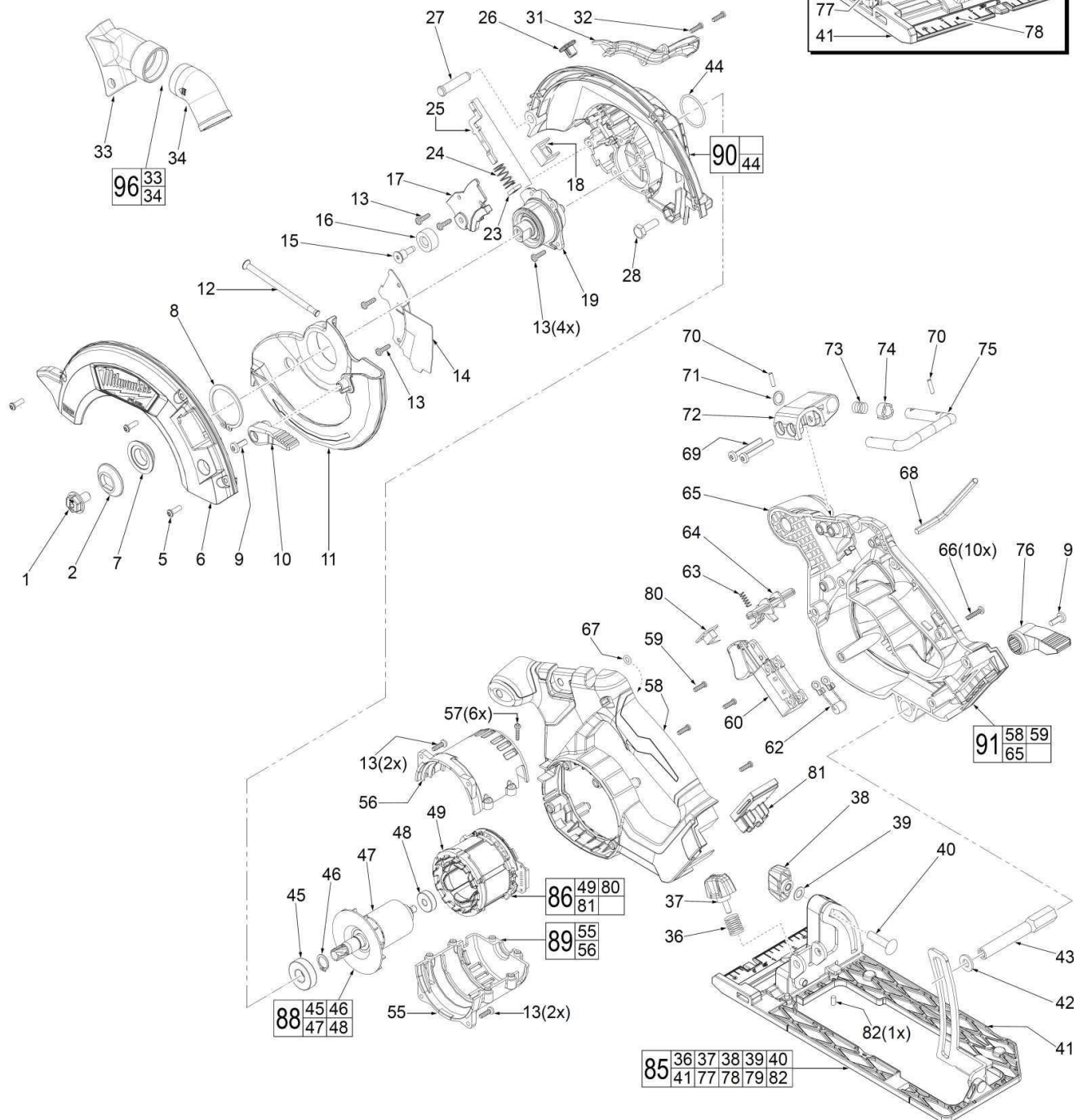
Bulletin Date:

Feb-20

Starting Serial Number:

VERSION A - K2017

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



1200





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SERVICE PARTS LIST

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ITEM	PART NUMBER	PART DESCRIPTION	QTY (PCS)
1	660994001	BLADE SCREW	1
2	691248001	OUTER FLANGE	1
5	661420001	M4 X 14MM SCREW	3
6	202100038	UPPER GUARD COVER ASSEMBLY	1
7	691247001	INNER FLANGE	1
8	672174001	RETAINING RING	1
9	660997001	10-24 X 1/2" SCREW	2
10	525824001	LOWER GUARD LEVER	1
11	641189009	LOWER GUARD	1
12	691243001	LOWER GUARD SPRING	1
13	660996001	6-32 X 1/2" SCREW	12
14	673173001	RETAINING PLATE	1
15	691251001	10-32 X 13/16" BUMPER SCREW	1
16	561506002	RUBBER BUMPER	1
17	525828001	SPINDLE AND LED COVER	1
18	290804067	LED ASSEMBLY	1
19	202100004	OUTPUT SHAFT ASSEMBLY	1
23	900162008	FELT SEAL	1
24	691245002	SPINDLE LOCK SPRING	1
25	632624001	SPINDLE LOCK PLATE	1
26	514351001	SPINDLE LOCK BUTTON	1
27	631841002	PIVOT PIN	1
28	660987002	1/4-20 X 3/4" LEFT HAND SCREW	1
31	525817001	DUST BLOWER	1
32	661746001	M3.5-0.6 X 8MM SCREW	2
33	525825001	DUST ADAPTER	1
34	525977001	DUST ELBOW	1
36	672206001	RIP FENCE SPRING	1
37	525819001	RIP FENCE KNOB	1
38	525819002	BEVEL ADJUSTMENT KNOB	1
39	631891001	WASHER	1
40	661892001	M6 X 28MM CARRIAGE BOLT	1
41	-	SHOE	1
42	691254001	WASHER	1
43	693678001	DEPTH SHAFT	1
44	563187002	O-RING	1
45	691117001	BALL BEARING	1
46	691140001	RETAINING RING	1
47	-	ROTOR	1
48	681400003	BALL BEARING	1



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ITEM	PART NUMBER	PART DESCRIPTION	QTY (PCS)
49	-	STATOR WITH PCBA	1
55	525826001	MOTOR INSULATOR - BOTTOM	1
56	525827001	MOTOR INSULATOR - TOP	1
57	660570005	M3.0 X 14MM SCREW	6
58	525821001	HOUSING SUPPORT - LEFT HALVE	1
59	660320010	M3.5 X 12MM SCREW	4
60	760245023	SWITCH	1
62	202100006	DIODE ASSEMBLY WITH TERMINALS	1
63	672029001	SWITCH LOCK-OUT SPRING	1
64	525823001	SWITCH LOCK-OUT BUTTON	1
65	351822003	HOUSING COVER - RIGHT HALVE	1
66	660998001	6-19 X 11/16" SCREW	10
67	561529001	O-RING	1
68	691255005	HEX KEY	1
69	661925001	M6 X 32MM SCREW	2
70	690072006	SAW HOOK PIN	2
71	634824001	WASHER	1
72	526011001	SAW HOOK HOUSING	1
73	673174001	SAW HOOK SPRING	1
74	693679001	DETENT SLEEVE	1
75	673189001	SAW HOOK BAR	1
76	525816001	DEPTH LEVER	1
77	634729001	BEVEL SCALE	1
78	634735001	FRONT SCALE	1
79	661890001	M2.5 X 3.175MM SCREW	4
80	-	MICRO SWITCH	1
81	-	BATTERY CONNECTOR BLOCK	1
82	661008001	SET SCREW	1
85	202100039	SHOE ASSEMBLY	1
86	202100027	STATOR / ELECTRONICS ASSEMBLY	1
88	202100008	ROTOR ASSEMBLY	1
89	202100028	MOTOR INSULATOR ASSEMBLY	1
90	202100010	UPPER GUARD GEARCASE ASSEMBLY WITH NEEDLE BEARING	1
91	202100031	HOUSING ASSEMBLY	1
92	910379306	GIFT BOX 018100012 VERSION	1
92	307640027	DYNACASE ASSEMBLY 018100023 VERSION	1
93	301768002	RIP FENCE (NOT SHOWN)	1
94	941048048	SERVICE NAMEPLATE (NOT SHOWN)	1
96	202100024	DUST ELBOW / ADAPTER ASSEMBLY	1
1200	-	TYPE Y GREASE	1



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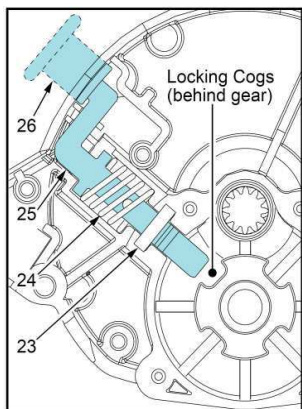
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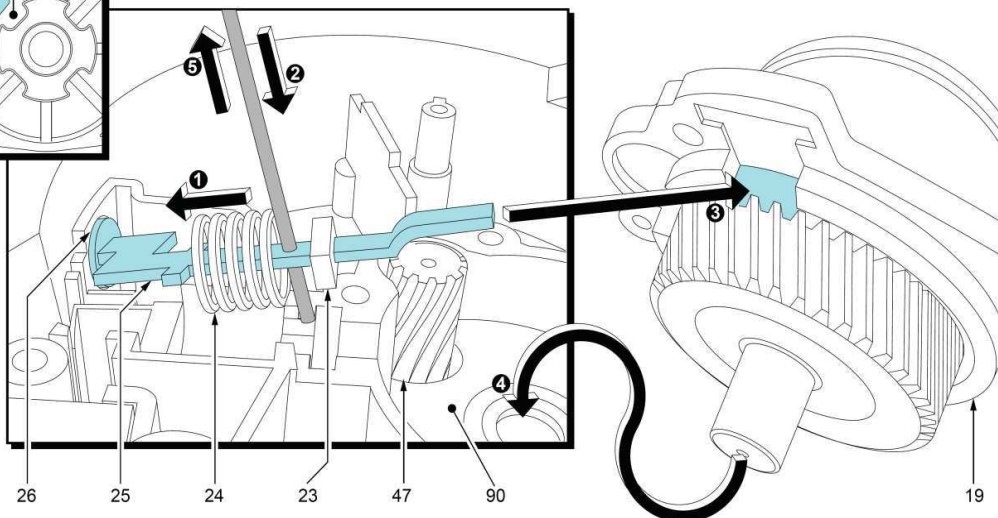
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Detail 'A'

Detail 'A' shows Spindle Lock Spring (24) and Felt Seal (23) in place in the respective cavities of the Upper Guard Gearcase Assembly (90).

NOTE: The spindle hub and gear of the Output Shaft Assembly (19) are not shown for clarity, so the four Locking Cogs of the Lock Block can be seen.



ASSEMBLING OUTPUT SHAFT ASSEMBLY (19) INTO UPPER GUARD GEARCASE ASSEMBLY (90)

To prevent damage to the Felt Seal (23) it is recommended to temporarily remove the felt seal until steps 1 and 2 are completed.

1. With the use of both hands, compress the Spindle Lock Spring (24) back on the Spindle Lock Plate (25) past the small hole on the plate.
2. While holding the spring back with one hand, quickly insert a thin metal instrument into the small hole on the plate. The metal instrument should capture the entire spring (all coils should be behind that tool).

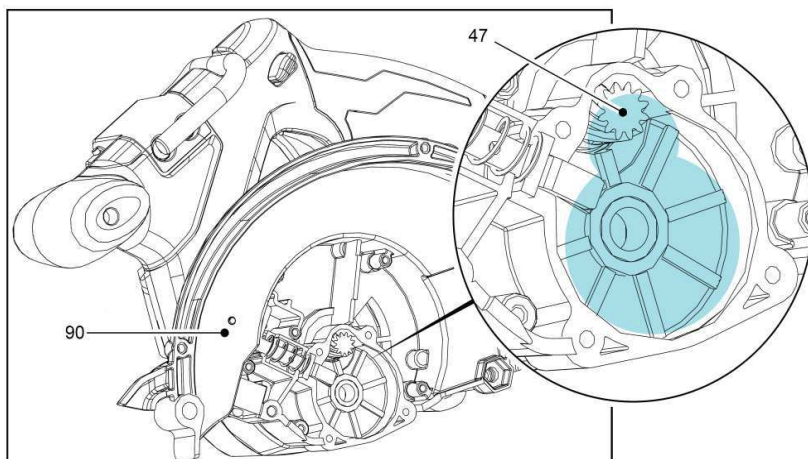
With the spindle lock spring trapped behind the small hole on the spindle lock plate, slide the felt seal back onto the spindle lock plate. Position the felt seal above the corresponding cavity in the Upper Guard Gearcase.

3. Insert the open end of the spindle lock plate (25) into the opening of the Output Shaft Assembly (19) behind the gear, as shown.

4. Insert the bearing shaft portion of the output shaft assembly into the needle bearing of the upper guard gearcase assembly. Carefully wiggle the entire output shaft assembly until the gearing of the output shaft assembly engages with the pinion gearing of the Rotor (47) and the output shaft assembly slides into place.

Secure the output shaft assembly to the upper guard gearcase assembly with the use of four screws (#13, 660996001, not shown). It is recommended to alternate the tightening of the screws.

5. Remove the thin metal instrument. Check for the proper functioning of the spindle locking mechanism. Rotate the spindle shaft and depress the Spindle Lock Button (26) at the same time. The spindle lock plate should drop into one of four cogs that lock the spindle. Spindle lock mechanism must return briskly when released from engagement in the lock block cog.



LUBRICATION

Type 'Y' Grease, Item 1200

Apply 3.0 grams (.10 oz) of 'Y' Grease to the gear bore in Upper Guard Gearcase (90). The grease should be directed toward the pinion end of the rotor (47).

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'.



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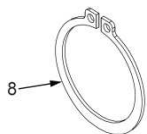
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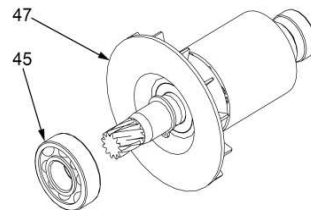
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Retaining Ring (8) has a side with edges that are slightly rounded compared to the other side. When installing on the tool, position retaining ring with the rounded edge facing the lower guard.

Orient Ball Bearing (45) so that the seal faces the fan of the Rotor (47) and the open side faces the gearcase.



IMPORTANT:

- **Strong magnetic force.** Care must be taken when installing the Rotor (47) into the Stator Assembly (49). Do not allow rotor bearing or balancing bushing to hit PCBA on the back end of the stator. This could cause damage to the PCBA. See figure 1.
- Insert the rotor/stator assembly into pinion bore of the Upper Guard Gearcase Assembly (90). Carefully wiggle and push the rotor/stator until the ball bearing in front of the fan is fully seated in the bearing bore of the gearcase. See figure 2.
NOTE: As an aid to installation, apply a light film of lubricant to the bearing bore of the gearcase before assembling the rotor/stator.
- Place the Bottom and Top Motor Insulators (55,56) in place around the rotor/stator assembly. Secure the halves with six Screws (57). A light tapping on the back of the assembled insulator halves may be necessary to completely seat the insulator halves onto the upper guard gearcase. Fasten the insulator halves to the gearcase with four Screws (13). See figure 3. When tightening, alternate the screws to assure square, even pressure.

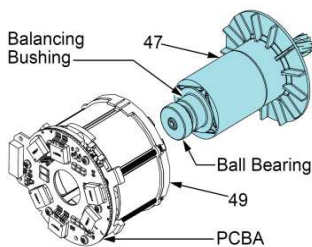


Figure 1

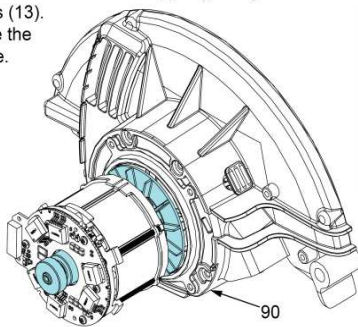


Figure 2

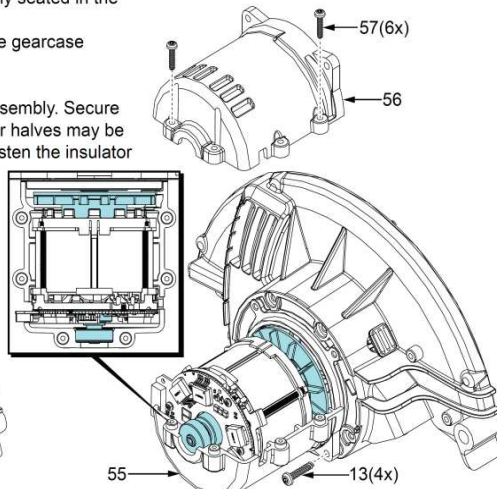
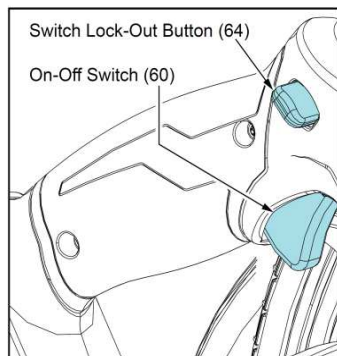


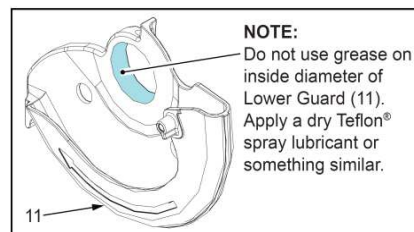
Figure 3



Functionally check Switch Lock-Out (64) by attempting to turn on tool by applying a reasonable amount of force, up to 8 lbs., to the switch trigger (60). The tool must not turn on.

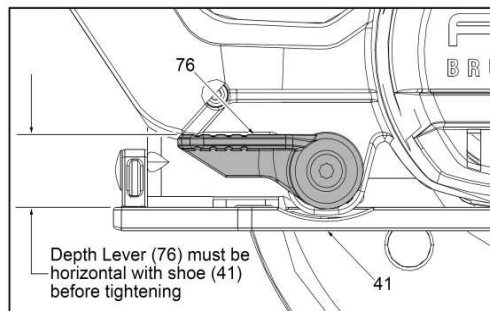
Release trigger. Actuate the lock-out lever and apply a reasonable amount of force to the switch trigger. The tool must turn on. While the trigger is still in the "ON" position, release the lock-out. Release the trigger. The tool must stop and the lock-out lever must again prevent the actuation of the Switch.

Repeat the switch check two more times.

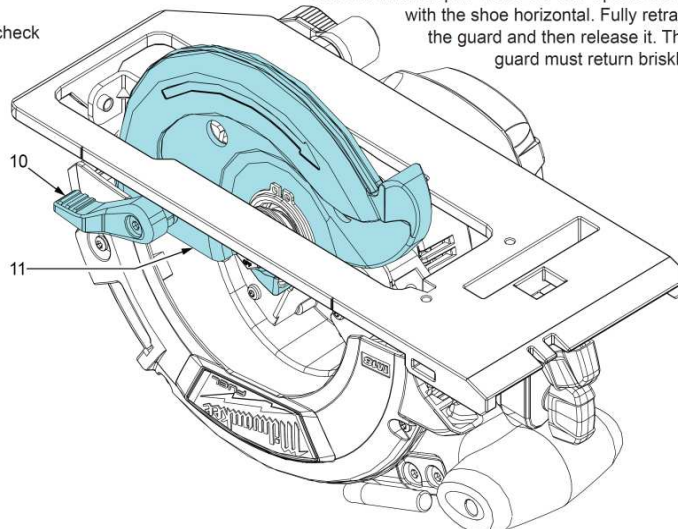


NOTE:
Do not use grease on inside diameter of Lower Guard (11). Apply a dry Teflon® spray lubricant or something similar.

Functionally check the Lower Guard (11), with the saw set at full depth. Place the saw upside down with the shoe horizontal. Fully retract the guard and then release it. The guard must return briskly.



Depth Lever (76) must be horizontal with shoe (41) before tightening





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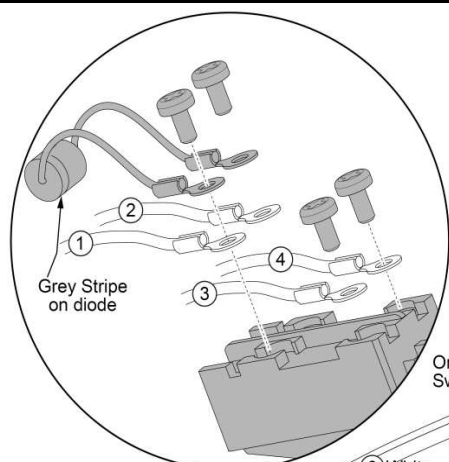
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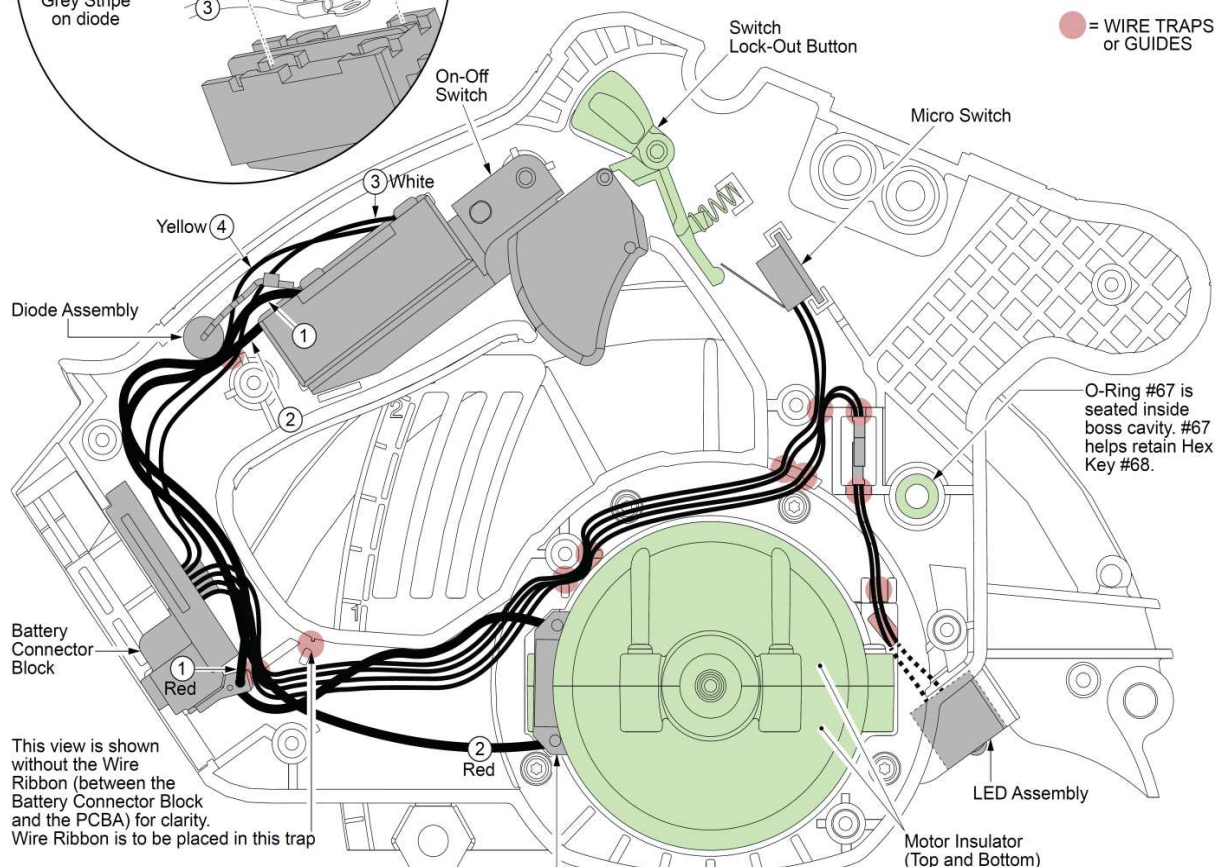
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WIRING OF THE ON-OFF SWITCH



- Place ring terminal of red wire #1 (from the battery connector block) at the bottom right position of switch.
- Place ring terminal of red wire #2 (from the PCBA) at the bottom left position of the switch.
- Orient the diode with the grey stripe to the right as shown. Place ring terminals of diode assembly over the terminals of red wires #1 and #2 and secure with two switch screws.
- Route white wire #3 (from the battery connector block) between red wires #1 and #2, and under the diode assembly, to the upper right position of the switch. Secure the ring terminal with a switch screw, as shown.
- Route yellow wire #4 (from the battery connector block) between red wires #1 and #2, and under the diode assembly, to the upper left position of the switch. Secure the ring terminal with a switch screw, as shown.



Stator / Electronics Assembly (Encased in the Motor Insulator Halves)
Containing: Stator, PCBA, Battery Connector Block and Micro Switch

Figure 1:
Shown without the Spindle Lock Assembly for clarity.

- Insert the LED Assembly into cavity of Upper Guard Gearcase as shown.
- Route male connector and wires through the openings in the Gearcase and Housing Support.
- Be sure that LED wires are in Gearcase trap and pull taut.

Figure 2:

- Connect the male connector of the LED Assembly with the Female connector from Battery Connector Block.

Figure 3:

- Place the joined connectors in the Housing Support cavity and route all wires in the appropriate wire traps as shown in main illustration.

