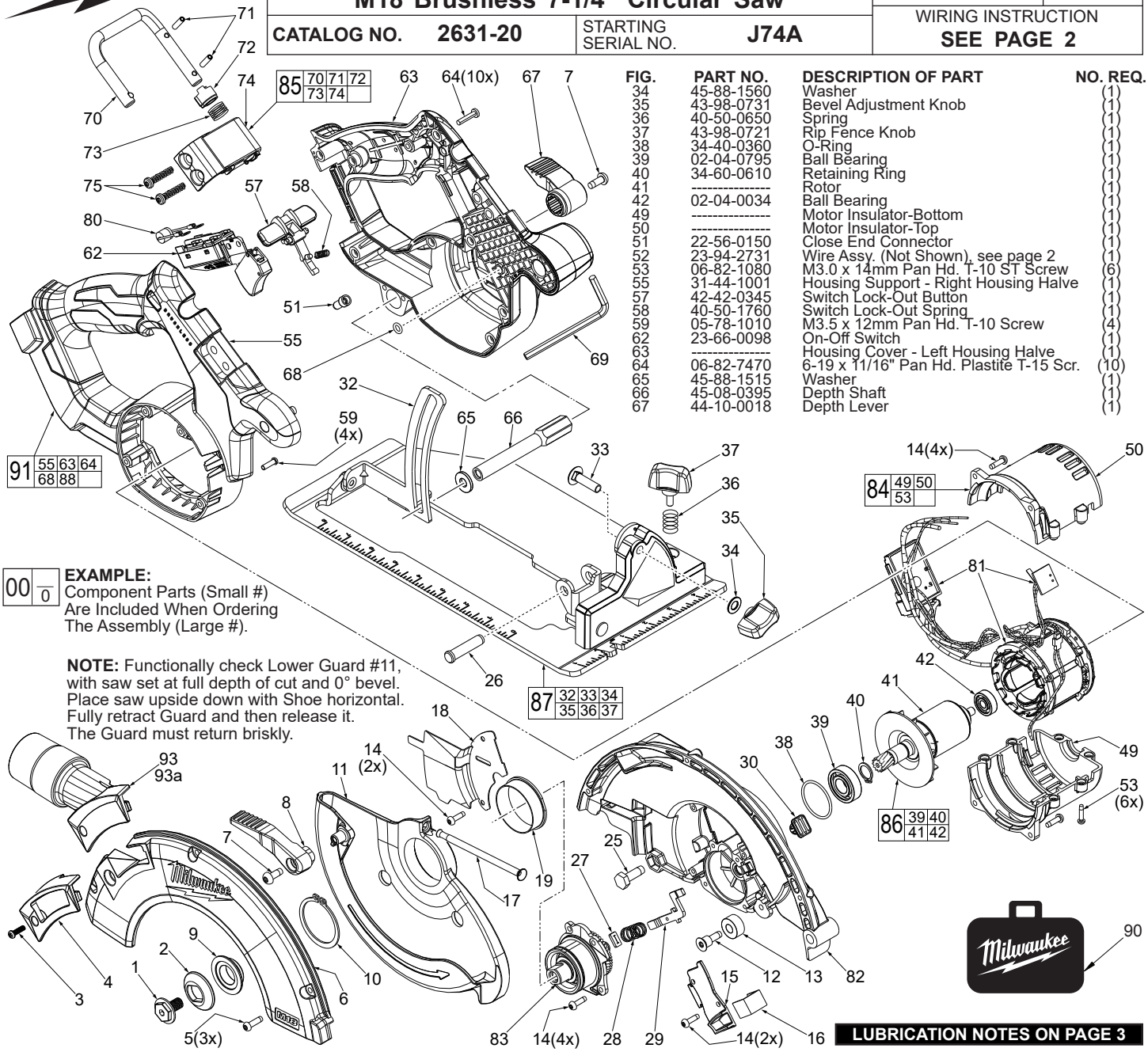
SERVICE PARTS LIST

BULLETIN NO. 54-40-2635

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	REVISED BULLETIN	DATE
M18 Brushless 7-1/4" Circular Saw		Aug. 2023
CATALOG NO. 2631-20 / STARTING SERIAL NO. **J74A**	WIRING INSTRUCTION	**SEE PAGE 2**



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

NOTE: Functionally check Lower Guard #11, with saw set at full depth of cut and 0° bevel. Place saw upside down with Shoe horizontal. Fully retract Guard and then release it. The Guard must return briskly.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
34	45-88-1560	Washer	(1)
35	43-98-0731	Bevel Adjustment Knob	(1)
36	40-50-0650	Spring	(1)
37	43-98-0721	Rip Fence Knob	(1)
38	34-40-0360	O-Ring	(1)
39	02-04-0795	Ball Bearing	(1)
40	34-60-0610	Retaining Ring	(1)
41	----------	Rotor	(1)
42	02-04-0034	Ball Bearing	(1)
49	----------	Motor Insulator-Bottom	(1)
50	----------	Motor Insulator-Top	(1)
51	22-56-0150	Close End Connector	(1)
52	23-94-2731	Wire Assy. (Not Shown), see page 2	(1)
53	06-82-1080	M3.0 x 14mm Pan Hd. T-10 ST Screw	(6)
55	31-44-1001	Housing Support - Right Housing Halve	(1)
57	42-42-0345	Switch Lock-Out Button	(1)
58	40-50-1760	Switch Lock-Out Spring	(1)
59	05-78-1010	M3.5 x 12mm Pan Hd. T-10 Screw	(4)
62	23-66-0098	On-Off Switch	(1)
63	----------	Housing Cover - Left Housing Halve	(1)
64	06-82-7470	6-19 x 11/16" Pan Hd. Plastite T-15 Scr.	(10)
65	45-88-1515	Washer	(1)
66	45-08-0395	Depth Shaft	(1)
67	44-10-0018	Depth Lever	(1)

LUBRICATION NOTES ON PAGE 3

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	06-75-1012	Left Hand Blade Screw	(1)
2	43-34-0795	Outer Blade Flange	(1)
3	05-78-1005	M3.5 x 12mm Pan Hd. Phillips Screw	(1)
4	49-90-4001	Dust Chute	(1)
5	05-78-5316	M4 x 14mm Pan Hd. Tapt. T-20 Screw	(3)
6	28-20-2001	Upper Guard Cover	(1)
7	06-82-5314	10-24 x 1/2" Pan Hd. Tapt. T-25 Screw	(2)
8	44-10-1008	Lower Guard Lever	(1)
9	43-34-0790	Inner Blade Flange	(1)
10	34-60-0860	Retaining Ring	(1)
11	28-41-0023	Lower Guard	(1)
12	45-04-0485	10-32 x 13/16" Bumper Screw	(1)
13	42-38-0224	Rubber Bumper	(1)
14	06-82-5285	6-32 x 1/2" Pan Hd. Taptite T-15 Screw	(12)
15	31-15-0265	Spindle/LED Cover	(1)
16	22-06-2732	LED Assembly	(1)
17	40-50-0045	Lower Guard Spring	(1)
18	44-66-0398	Retaining Plate	(1)
19	45-14-0015	Plastic Sleeve	(1)
25	06-75-5860	1/4-20 x 3/4" Hex Hd. Screw	(1)
26	44-60-0741	Pivot Pin	(1)
27	45-06-0720	Felt Seal	(1)
28	40-50-8046	Spindle Lock Spring	(1)
29	44-20-0653	Spindle Lock Plate	(1)
30	42-42-1030	Spindle Lock Button	(1)
32	----------	Shoe	(1)
33	06-10-4001	M6 x 28mm Carriage Bolt	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
68	34-40-4480	O-Ring	(1)
69	49-96-0600	3/16" Hex Key	(1)
70	----------	Saw Hook Bar	(1)
71	44-60-0585	Coiled Spring Pin	(2)
72	45-22-1005	Detent Sleeve	(1)
73	40-50-0985	Saw Hook Spring	(1)
74	----------	Saw Hook Housing	(1)
75	06-82-0052	M6 x 32mm Pan Hd. T-25 PT Screw	(2)
80	23-38-2840	Diode Assembly	(1)
81	14-20-5001	Electronic Assembly	(1)
82	28-14-9005	Upper Guard Gear Case Assy. w/ Bushing	(1)
83	38-50-0160	Output Shaft Assembly	(1)
84	23-16-9001	Motor Insulator Assembly	(1)
85	14-36-0001	Saw Hook Assembly	(1)
86	23-40-6001	Rotor Assembly	(1)
87	14-74-1001	Shoe Assembly	(1)
88	12-20-8450	Service Nameplate (Not Shown)	(1)
89	49-22-2731	Rip Fence (Not Shown)	(1)
90	50-55-3550	Contractors Bag	(1)
91	14-38-3001	Housing Assembly	(1)
92	10-20-0359	Warning Label (Not Shown)	(1)
93	49-90-3001	Dust Adaptor (Optional)	(1)
93a	49-90-3002	Dust Adaptor (Optional)	(1)

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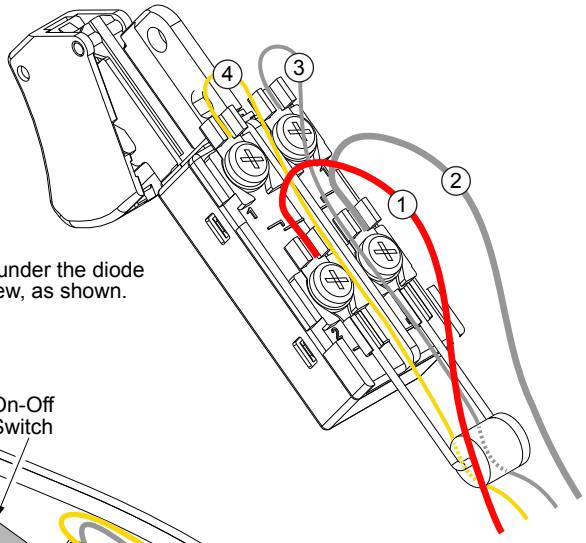
WIRING OF THE ON-OFF SWITCH

- **Orient the diode with the grey stripe to the right as shown.** Place ring terminals of diode assembly onto the switch prior to installing red wires #1 and white wire #2.
- Place ring terminal of red wire #1 (from the top PCBA position) at the bottom left position of switch over diode terminal. Be sure wire is routed over the diode assembly.
- Place ring terminal of white wire #2 (from the battery connector block) at the bottom right position of the switch over diode terminal. Be sure wire is routed over the diode assembly.
- Secure diode assembly and wires #1 and #2 with 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.



= WIRE TRAPS or GUIDES

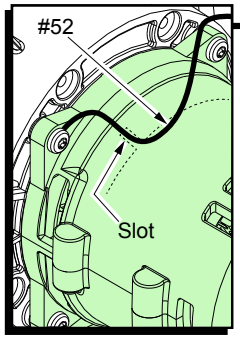
Switch Lock-Out Button

On-Off Switch

Micro Switch

Diode Assembly

O-Ring #67 is seated inside boss cavity. #67 helps retain Hex Key #68.



High Voltage Wire #52 is routed through the slot in the Housing Support #54 and grounded by a screw #14 to Motor Insulator halve #50.

Slot

Battery Connector Block

#75 Wire Connector

This view is shown without the Wire Ribbon (between the Battery Connector Block and the PCBA) for clarity.

Wire Ribbon is to be placed in this trap

LED Assy.

Motor Insulator (Top and Bottom)

Opening in Gearcase

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.

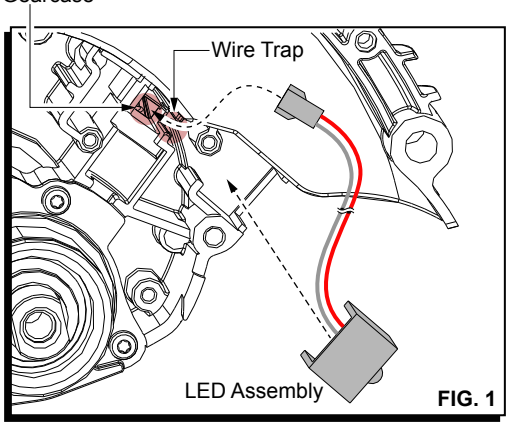


FIG. 1

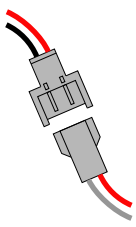


FIG. 2

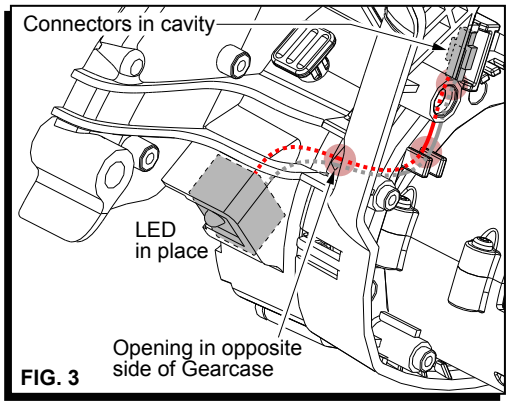
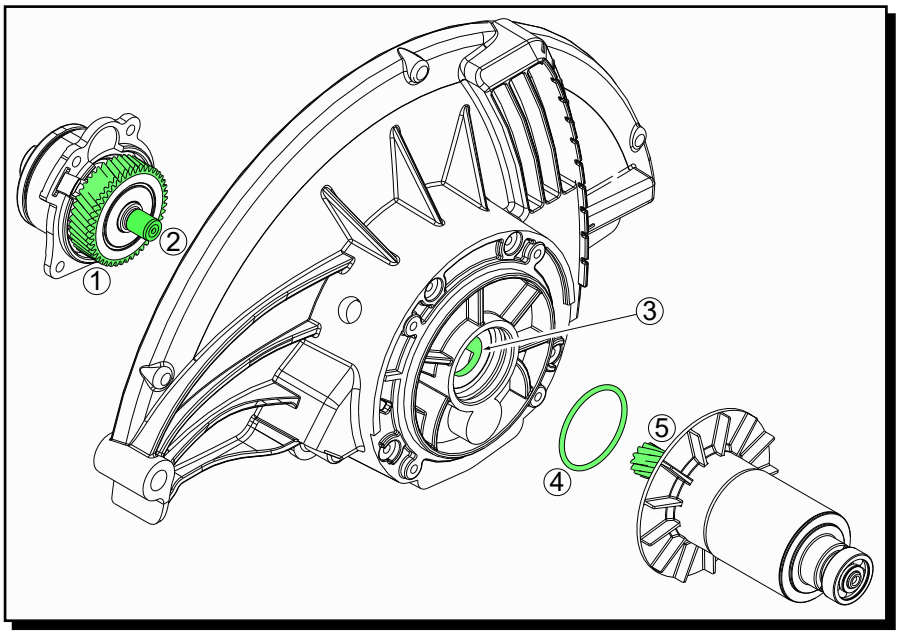
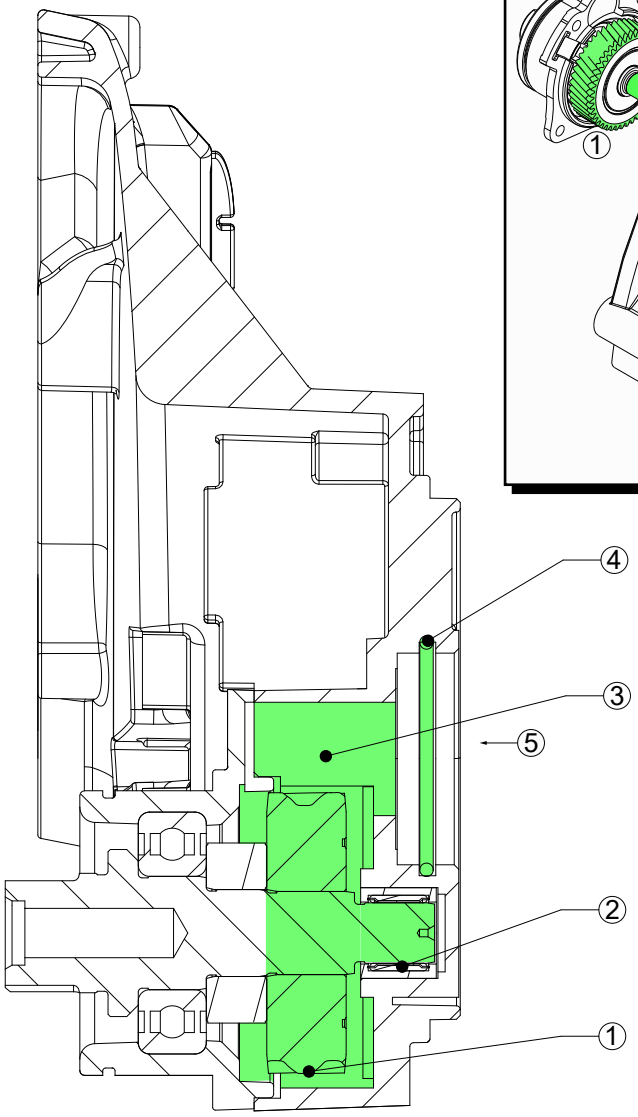


FIG. 3

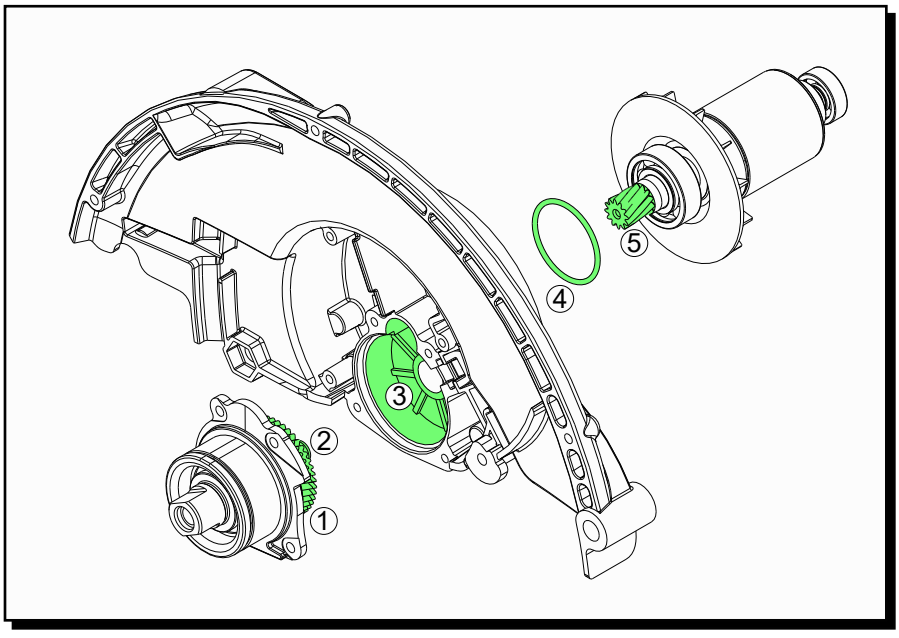
Figure 2:
- Connect the male connector of the LED Assembly with the Female connector from Battery Connector Block.

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.





LUBRICATION
(Type 'Y' Grease, No. 49-08-5270):

When servicing, remove 90-95% of the existing grease prior to installing Type 'J'. Original grease maybe similar in color but not compatible with 'J'.

1. Apply a heavy coating of grease (approximately 1.5-2g) to all teeth of gear on output shaft assembly.
2. Place a light coat of grease to the shaft end of output shaft assembly.
3. Prior to installing output shaft assembly, place a liberal amount of grease (approximately 3-3.5g) in the gear and pinion cavity of upper guard gearcase assembly.
4. Lightly coat o-ring with grease prior to installing in groove of upper guard gearcase assembly.
5. Apply a heavy coating of grease to all teeth of the rotor pinion.