SERVICE PARTS LIST



SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M18 FUELTM 6-1/2" Circular SAW

CATALOG NO. 2833-20 SERIAL NO. N96A

REVISED BULLETIN May 2024

WIRING INSTRUCTION See Page 3-4

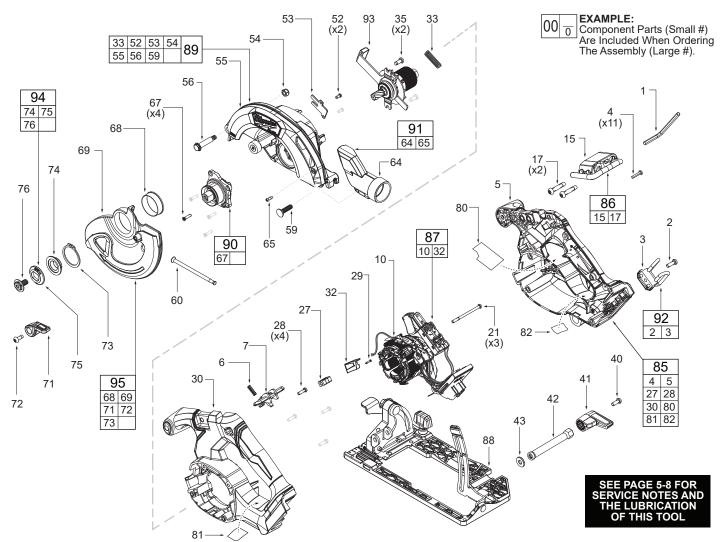
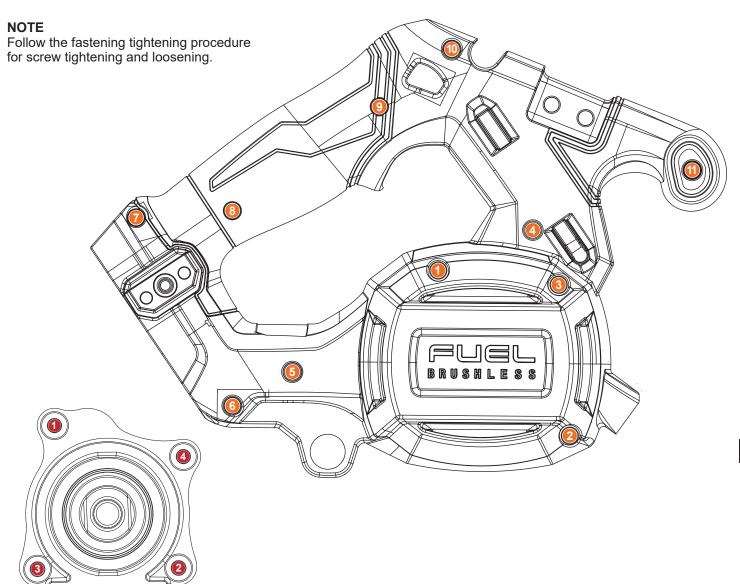


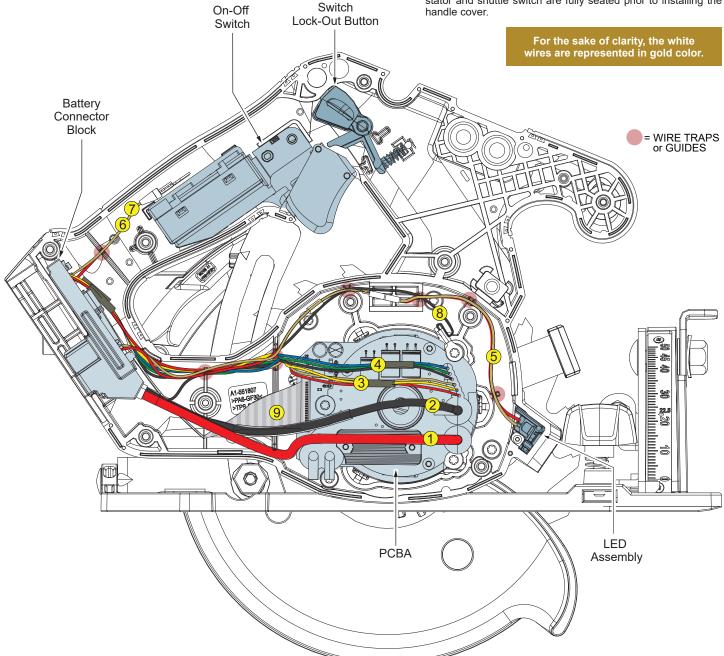
FIG	PART NO.		NO. REQ.	FIG	. PART NO.	DESCRIPTION OF PART	NO. REQ.
1	49-96-0600	3/16" Hex Key	(1)	60	40-50-0045	Spring Guard	(1)
2		M5 x 0.8 Pan Hd. Torx T-25 Screw	(1)	64		Dust Extraction Nozzle	(1)
3		Belt Hook Framer	(1)	65		M3.5 x 10mm Pan Hd. #2 B Taptite Screw	(1)
4		#6-19 Pan Hd. Torx T-15 Screw	(11)	67		M3.5 x 15mm Flat Hd. Torx T-10 B Screw	(4)
5		Handle Cover	(1)	68	42-24-0119	Bushing Sleeve	(1)
6	40-50-1760	Safety Button Spring	(1)	69	28-41-0041	Lower Guard	(1)
7	31-15-0178	Safety Button	(1)	71	44-20-0621	Lower Guard Lever	(1)
10		PCBA and Stator	(1)	72	06-82-5314	#10-24 Pan Hd. Torx T-25 S Taptite Screw	(1)
15		Saw Hook Housing	(1)	73	34-60-0177	External Retaining Ring	(1)
17		M6 x 28mm Pan Hd. Torx T-30 Screw	(2)	74	43-34-0790	Inner Flange	(1)
21	05-74-0265	M4 x 58.5mm Pan Hd. Torx T-20 Screw	(3)	75	43-34-0044	Outer Flange	(1)
27		Retention Rubber	(3)	76	42-60-0367	Flange Bolt	(1)
28		M4 x 14mm Pan Hd. Torx T-20 Screw	(4)	80	12-20-0174	Service Nameplate	(1)
29	45-88-0229	M2 x 10mm Pan Hd. Torx T-6 B Screw	(1)	81	10-22-1113	Warning Label	(1)
30		Handle Support	(1)	82	10-22-1114	Warning Label	(1)
32		Work Light Assembly	(1)	85	31-44-0614	Handle Kit	(1)
33		Shaft Lock Spring	(1)	86	42-92-0601	Housing Hook Assembly	(1)
35	05-74-1030	M5 x 12mm Pan Hd. Torx T-25 S Taptite Screen	ew (2)	87	14-20-0479	PCBA and Stator Assembly	(1)
40	05-78-0032	M5 x 13mm Pan Hd. Torx T-25 M Screw	(1)	88	31-15-0377	Shoe Assembly	(1)
41	44-20-0619	Depth Lock Lever	(1)	89	28-14-0056	Gearcase Assembly	(1)
42	45-08-0155	Depth Shaft	(1)	90	36-66-0129	Output Shaft and Gear Assembly	(1)
43	45-88-1515	Washer Flat	(1)	91	31-01-0202	Dust Kit	(1)
52		M3.5 x 8mm Pan Hd. Torx T-10 S Taptite Screen	w (2)	92	42-92-0605	Belt Hook Kit	(1)
53		Shaft Lock Spring Retention Plate	(1)	93	16-01-0210	Rotor Assembly	(1)
54		M6 x 6mm Hexagon Nut	(1)	94	14-46-0991	Blade Bolt Kit	(1)
55		Gearcase	(1)	95	14-46-0992	Lower Guard Kit	(1)
56		Pivot Shoulder Bolt	(1)				` /
59		Carriage Bolt	(1)			MILWALIKEE TOOL A	.41
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SCREW TORQUE SPECIFICATIONS								
		SEAT T	ORQUE					
FIG.	PART NO.	DESCRIPTION OF FASTENER	WHERE USED	(kgf-cm)	(lb-in)			
2		M5 x 0.8 Pan Hd. Torx T-25 Screw	Belt Hook	28 ± 2	24 ± 1.7			
4		#6-19 Pan Hd. Torx T-15 Screw	Handle Cover	14 ± 1	12 ± 0.9			
17		M6 x 28mm Pan Hd. Torx T-30 Screw	Saw Hook Housing	30 ± 3	26 ± 2.6			
21	05-74-0265	M4 x 58.5mm Pan Hd. Torx T-20 Screw	Stator	23 ± 2	19 ± 1.7			
28		M4 x 14mm Pan Hd. Torx T-20 Screw	Handle Support	23 ± 2	19 ± 1.7			
29	45-88-0229	M2 x 10mm Pan Hd. Torx T-6 B Screw	Handle Support	3 ± 0.3	2.6 ± 0.3			
35	05-74-1030	M5 x 12mm Pan Hd. Torx T-25 Screw	Bearing Retaining Plate	30 ± 3	26 ± 2.6			
40		M5 x 13mm Pan Hd. Torx T-25 M Screw	Depth Lock Lever	35 ± 3	30 ± 2.6			
42	45-08-0155	Depth Shaft	Shoe Assembly	40 ± 4	35 ± 3.5			
52		M3.5 x 8mm Pan Hd. Torx T-10 Screw	Shaft Lock Spring Retention Plate	6 ± 1	5.2 ± 0.9			
56		Pivot Shoulder Bolt	Gearcase	22 ± 2	19 ± 1.7			
65		M3.5 x 10mm Pan Hd. #2 B Screw	Dust Extraction Nozzle	10 ± 1	8.7 ± 0.9			
67		M3.5 x 15mm Flat Hd. Torx T-10 Screw	Output Bearing Hub	17 ± 1	15 ± 0.9			
72	06-82-5314	#10-24 Pan Hd. Torx T-25 S Screw	Lower Guard Lever	35 ± 3	30 ± 2.6			
76	42-60-0367	Flange Bolt	Outer Flange	7 ± 1	6.1 ± 0.9			

Be sure that all wires of the electronics assembly are routed as shown, being careful to push down completely into wire traps. Be sure that the trigger switch, PCBA, battery connector block, stator and shuttle switch are fully seated prior to installing the handle cover.



WIRING SPECIFICATIONS							
Wire No.	Wire Color	Description					
1	Red	Connect with PCBA (Control Board) and Battery Connector Block					
2	Black	Connect with PCBA (Control Board) and Battery Connector Block					
3	Group: White, Yellow, Red	Connect with PCBA (Control Board) and Battery Connector Block					
4	Group: Blue, Green, Black	Connect with PCBA (Control Board) and Battery Connector Block					
5	Group: Red, White	Connect with LED Assembly and Battery Connector Block					
6	White	Connect with On/Off Switch and Battery Connector Block					
7	Red	Connect with On/Off Switch and Battery Connector Block					
8	Black	Connect with Stator (below PCBA) and Battery Connector Block					
9	Gray Ribbon Wire	Connect with PCBA (Control Board) and Battery Connector Block					



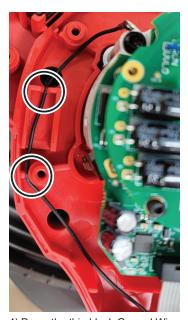
1) Install the Power Supply Board into the Handle Support (30).



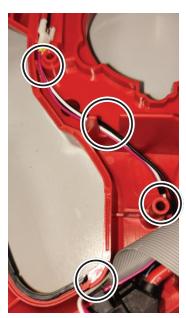
2) Press the Switch Wire into the groove of the Handle Support.



 Press the thin black Ground Wire into the groove of the Handle Support.



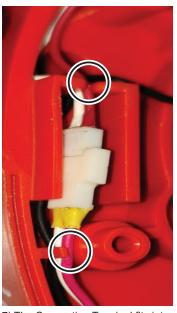
Press the thin black Ground Wire into the 2 grooves of the Handle Support shown above.
 NOTE: The Connecting Terminal will later go above this black wire.



5) Push LED wire into the gap of the Housing, around the right side of screw column, pass through the gap and press into groove at left of next screw column



6) Push LED wire into groove.



 The Connecting Terminal fits into housing as shown - with its wires pushed into grooves on both ends.



8) The thin blue and green wires get inserted into the housing groove and passed through the gaps



Battery Supply Block

9) The widest ribbon wire is first passed vertically through the gap and then the excess is bent downward. The red and black wires are placed on the other side of the screw column.

Dech 5215U Grease #49-08-0021

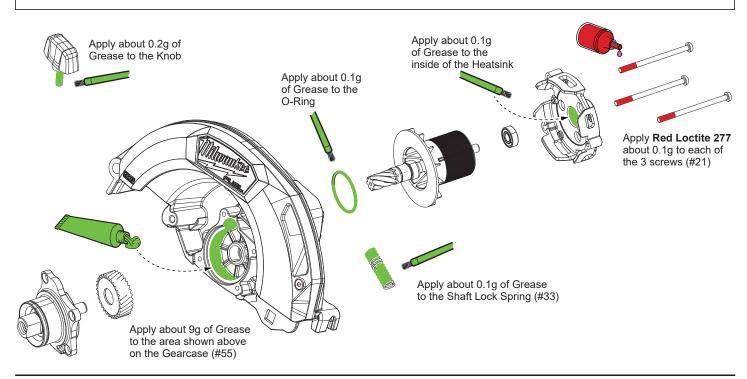
Regarding parts to be lubricated: Apply a light coating of grease to all highlighted parts shown prior to installation.

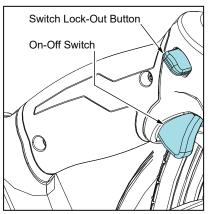


Red Loctite® 277 #44-22-0050

NOTE

Regarding parts to receive thread locking sealant: Place one to two drops of the recommended Loctite® thread locking sealant (or the equivalent) to the threads of parts shown prior to installation.





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

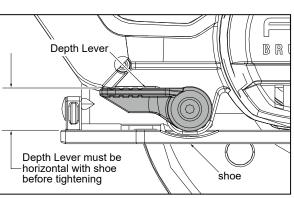
Release trigger. Actuate the lock-out lever and apply a reasonable amount of force to the switch trigger. The tool must turn on. While the trigger is still in the "ON" position, release the lock-out. Release the trigger. The tool must stop and the lock-out lever must again prevent the actuation of the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

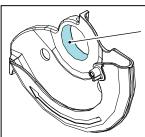
Lower Guard

> Lower Guard

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Repeat the switch check two more times

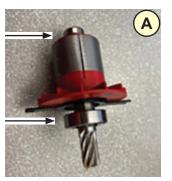


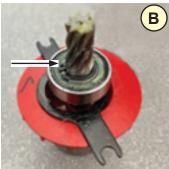


NOTE:

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

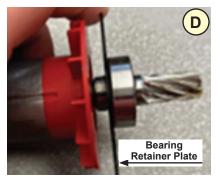
Functionally check the Lower Guard, with the saw set at full depth. Place the saw upside down with the shoe horizontal. Fully retract the guard and then release it. The guard must return briskly.

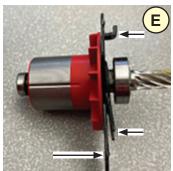


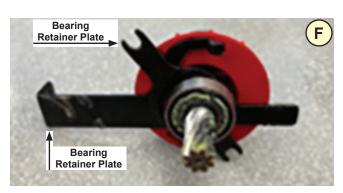




- Ensure both bearings are installed onto the rotor shaft (A), and that the large bearing has a retaining ring installed to prevent axial movement (B).
- 2) The shaft lock lever shown above **{C}** is to be installed between the bearing retainer plate and the rotor fan as shown in **{D and E}**.

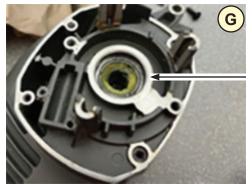


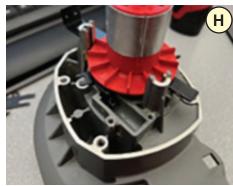


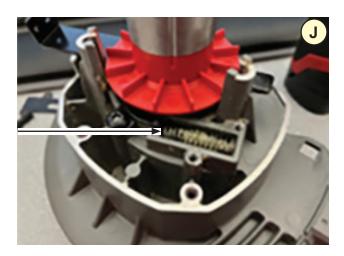


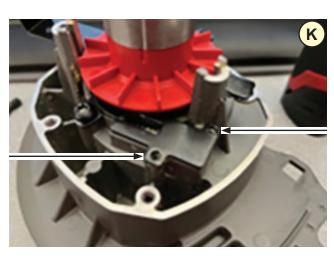
NOTE - Orientation of Lever to Plate is important – Spring Leg of Lever must be oriented correctly relative to Retainer Plate. Spring Leg must be oriented towards the gear side of the Rotor Shaft as shown in **{F}**

- 3) Ensure O-ring is installed in bearing pocket of gearcase as shown in **{G}**.
- Push/wiggle rotor shaft into gearcase bearing fit will be tight into pocket, but push and wiggle until it seats fully. {H}
- 5) Fasten down the two bearing plate screws.
- 6) Add grease to shaft lock spring and install in pocket insert end shown in image first. {J}
- 7) Set spring cover in place and fasten down with two screws. **{K}**



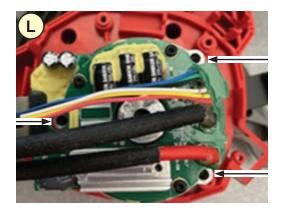


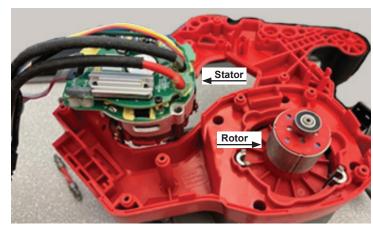




STATOR INSTALL

- Place stator over rotor.
 CAUTION: Magnetic force will pull the stator downwards.
- 2) Ensure the stator is aligned on the rotor and the top bearing on the rotor shaft is aligned with the bearing pocket.
- 3) Slide the three stator screws into their holes in the stator {L}
 - Ensure the ground wire is installed onto the top-right screw {M}
 - Tighten each 1-2mm at a time, working around in a circle to prevent the stator from being twisted on installation.
 - Torque to spec.
- 4) Proceed with wire routing and remainder of installation.

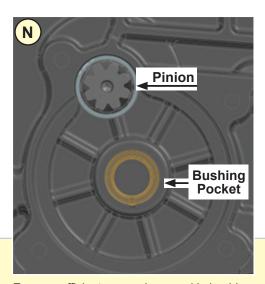






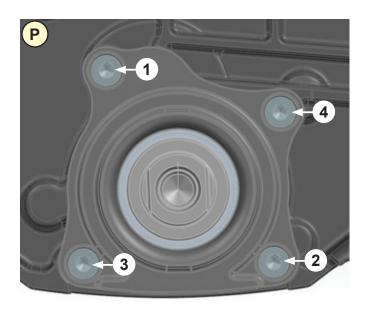
OUTPUT HUB INSTALL

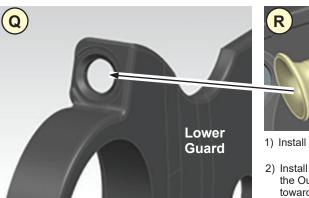
- 1) Ensure gearcase has been properly filled with grease. {N}
 - Fully clean all components.
 - **NOTE <u>DO NOT</u>** use solvents on or around the bearings and seals, it could potentially damage them.
 - Fill quantity is 9.4g of DECH 5215 grease.
 - Ensure there is sufficient grease spread around the teeth of both gears.

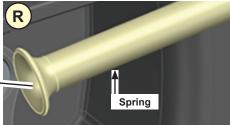


Ensure sufficient grease is spread in bushing pocket and around pinion teeth; also spread grease on gear teeth before installation.

- 2) Install output hub into tool wiggling back and forth, or rotation of the output shaft may be required to install.
- 3) Install the four screws to the required torque spec snug all four screws up, then tighten to spec to ensure the hub stays straight.
 - Tighten in a cross-pattern {P}
- 4) Install lower guard according to provided instructions







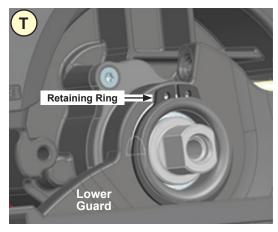
- 1) Install Spring onto Lower Guard. {Q,R}
- 2) Install the white Lower Guard Bushing into the Output Hub with the shoulder inwards towards the Output Hub. **{S}**



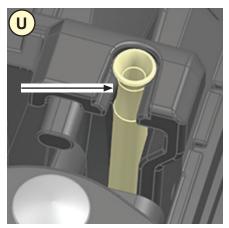


Retaining Ring has a side with edges that are slightly rounded compared to the other side.

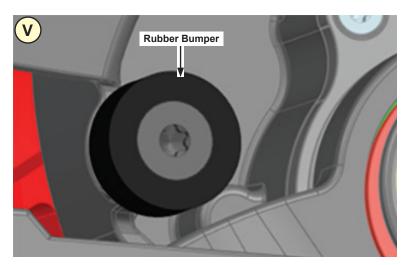
When installing on the tool, position retaining ring with the rounded edge facing the lower guard.



- 3) Install Lower Guard onto Bushing.
- 4) Install external Retaining Ring; ensure it is fully seated within the groove on the Output Hub. {T}



 Push Spring into slot in Gearcase; ensure it is fully seated. Push the narrow section of the Spring through the slot to prevent damage to the Spring. {U}



6) Place the rubber bumper on the shoulder screw, retract the lower guard slightly, then install the screw into the threaded hole in the gearcase. **{V}**



- 7) Install the lower guard retraction lever onto the guard. {W}
- 8) Reinstall the blade bolt and flanges.