



SERVICE PARTS LIST

BULLETIN NO.
54-38-2375

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS				REVISED BULLETIN	DATE
M18 FUEL™ 4-1/2" / 5" Dual Trigger Braking Grinder					Oct. 2023
CATALOG NO.	2986-20	STARTING SERIAL NO.	N83A	WIRING INSTRUCTION SEE PAGE 3	

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

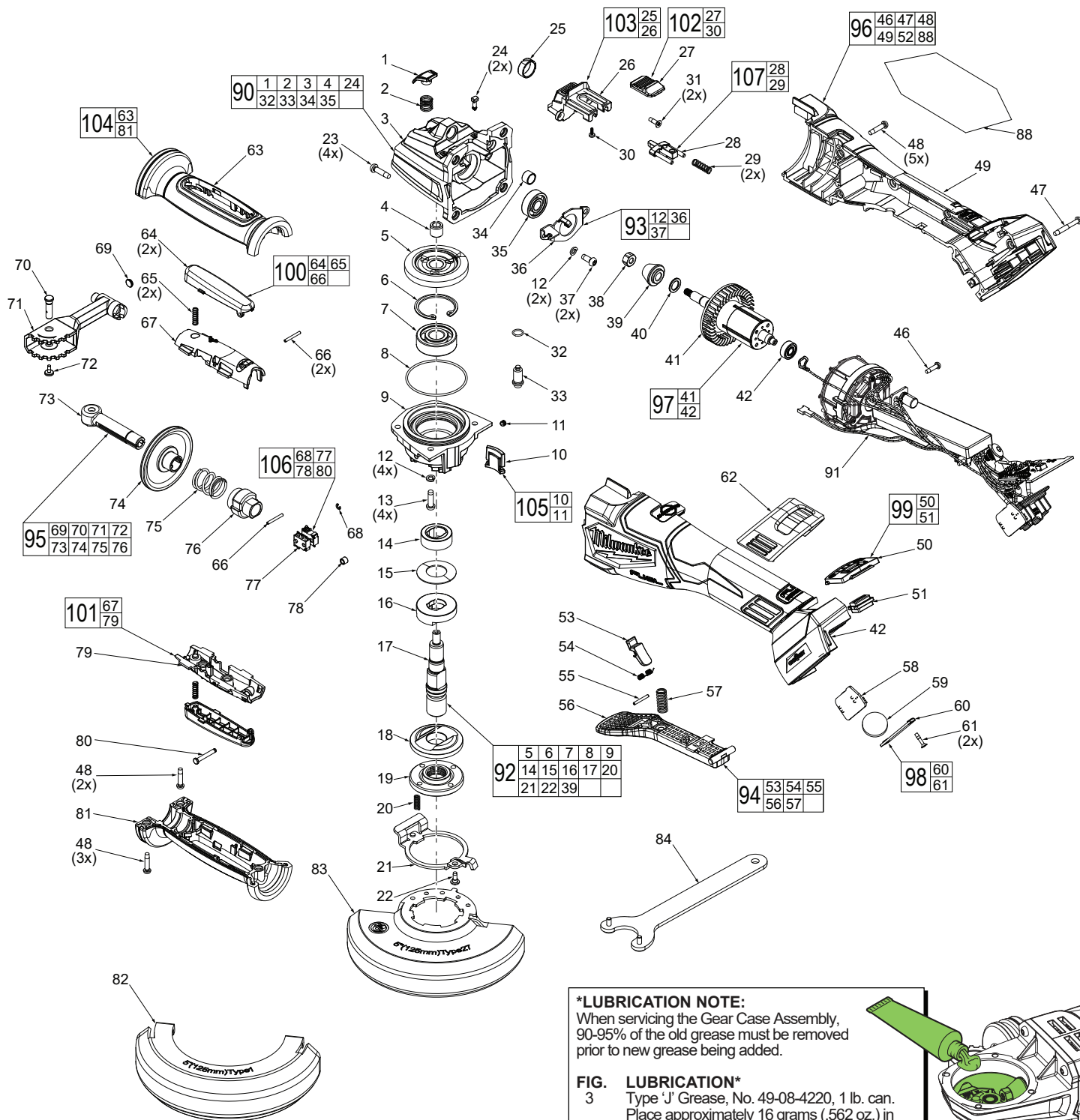


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	-----	Spindle Lock Button	(1)	55	06-65-0005	Pin	(1)
2	40-50-1330	Spindle Lock Spring	(1)	56	-----	Paddle Trigger	(1)
3	-----	Gearcase	(1)	57	-----	Spring	(1)
4	42-40-0025	Bushing	(1)	58	22-09-0064	Coin Cell PCBA	(1)
5	-----	Bevel Gear	(1)	59	-----	Coin Cell Battery (CR32) See local hardware store	(1)
6	34-80-0210	Retainig Ring	(1)	60	-----	Coin Cell Cover	(1)
7	-----	Ball Bearing	(1)	61	-----	M2.6 x 12mm Flat Hd. Phillips Screw	(2)
8	34-40-0330	O-Ring	(1)	62	31-15-0117	Dust Cover	(1)
9	42-74-0035	Gearcase Cover	(1)	63	-----	Side Handle Support	(1)
10	-----	Guard Lock Chip	(2)	64	-----	Side Handle Trigger	(2)
11	06-82-0233	M4 Set Screw	(2)	65	-----	Side Handle Trigger Return Spring	(2)
12	05-90-0225	Spring Washer	(4)	66	-----	Side Handle Trigger Pin	(2)
13	05-78-5316	M4 x14mm Pan Hd. Taptite T-20 Scr.	(4)	67	-----	Side Handle Liner Support	(1)
14	-----	Top Ring	(1)	68	-----	E-Ring	(1)
15	-----	Disk Spring	(1)	69	31-12-0153	Handle Pivot Plug	(1)
16	-----	Spindle Flange	(1)	70	-----	Pivot Eyeball Shaft	(1)
17	-----	Spindle	(1)	71	-----	Handle Pivot	(1)
18	43-34-3000	Backing Flange	(1)	72	-----	Pivot Eyebolt Shaft Pin	(1)
19	44-40-7100	5/8" Flange Nut	(1)	73	-----	Pivot Eyebolt	(1)
20	40-50-0386	Spring	(1)	74	-----	Release Lever	(1)
21	44-20-0091	Lock Tang	(1)	75	-----	Release Lever Return Spring	(1)
22	45-04-0031	M3 x 8.5mm Pan Washer Hd. Phillips Scr.	(1)	76	-----	Pivot Eyebolt Press Block	(1)
23	05-88-1200	M4 x 16mm Pan Hd. Recess ST T20 Screw	(4)	77	-----	Switch Assembly	(2)
24	-----	Handle Pivot Support Block	(2)	78	-----	Rubber Support Block	(1)
25	-----	Large Pivot Bushing	(1)	79	-----	Side Handle Liner Cover	(1)
26	-----	Nose Cone	(1)	80	-----	Switch Pin	(1)
27	-----	Pivot Lock Button	(1)	81	-----	Side Handle Cover	(1)
28	-----	Lock Mechanism	(1)	82	43-54-4010	5" Guard	(1)
29	-----	Lock Mechanism Return Spring	(2)	83	43-54-1221	5" Grinding Wheel	(1)
30	-----	M2 x 55mm PT Screw	(5)	84	49-96-7215	Wrench	(1)
31	05-74-0477	M3 x 10mm Flat Hd. ST T10 Screw	(2)	88	12-20-0359	Service Nameplate	(1)
32	34-40-0270	O-Ring	(1)	90	14-46-0628	Gearcase Assembly	(1)
33	-----	Spindle Lock Pin	(1)	91	14-20-0452	Electronics Assembly	(1)
34	42-24-0027	Small Pivot Bushing	(1)	92	14-46-0627	Spindle Hub Assembly	(1)
35	02-40-0621	Ball Bearing	(1)	93	14-46-0631	Bearing Retainer Kit	(1)
36	34-60-0129	Bearing Retainer	(1)	94	31-92-0068	Paddle Trigger Assembly	(1)
37	05-78-0105	M4 x 10mm Pan Hd. Tapt. Screw T-20	(2)	95	14-46-0621	Side Handle Assembly	(1)
38	05-55-0620	M5 Hex Nut	(1)	96	14-46-0637	Main Handle Housing Kit	(1)
39	-----	Pinion Bevel	(1)	97	14-46-0636	Rotor and Bearing Assembly	(1)
40	45-88-0406	Washer	(1)	98	14-46-0639	Coin Cell Cover Kit	(1)
42	02-04-0111	Ball Bearing	(1)	99	14-46-0638	Mode Selector Kit	(1)
46	06-82-1087	M3.0 x 12mm Pan Hd. ST T-10 Screw	(1)	100	14-46-0623	Side Handle Mechanical Switch Kit	(1)
47	05-88-0024	M3.5 x 26mm Pan Hd. ST T10 Screw	(1)	101	14-46-0626	Side Handle Switch Insert Kit	(1)
48	06-82-2025	M3.5 x 16mm Pan Hd. Plast. T-10	(10)	102	14-46-0633	Side Handle Pivot Switch Kit	(1)
49	-----	Handle Housing Cover	(1)	103	14-46-0632	Nose Cone Kit	(1)
50	-----	Mode Selector Plate	(1)	104	14-46-0622	Side Handle Housing Kit	(1)
51	-----	Mode Selector Button	(1)	105	14-46-0468	Lock Chip Screw Kit	(1)
52	-----	Handle Housing Support	(1)	106	14-46-0624	Side Handle Electrical Switch Kit	(1)
53	-----	Paddle Lock Off	(1)	107	14-46-0634	Side Handle Switch Guide Kit	(1)
54	-----	Lock Off Spring	(1)				

SCREW TORQUE SPECIFICATIONS				
FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			(kgf-cm)	(lb-in)
11	06-82-0233	Spindle Hub	8±1	7±1
13	05-78-5316	Spindle Hub	26±3	23±3
22	45-04-0031	Spindle Hub	8±1	7±1
23	05-88-1200	Gearcase	16±2	14±2
30	-----	PCBA/Pivot Lock Button	2.5±0.5	2±0.4
31	05-74-0477	Spindle Hub	9.0±0.5	8±0.4
37	05-78-0105	Bearing Retainer	26±3	23±3
38	05-55-0620	Rotor Shaft	102±2	89±2
46	06-82-1087	Switch	4±0.5	3±0.4
47	05-88-0024	Handle Housing	14.5±2	13±2
48	06-82-2025	Handle Housing	14.5±2	13±2
61	-----	Coin Cell Cover	4.5±0.5	4±0.4

SERVICE WIRING



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

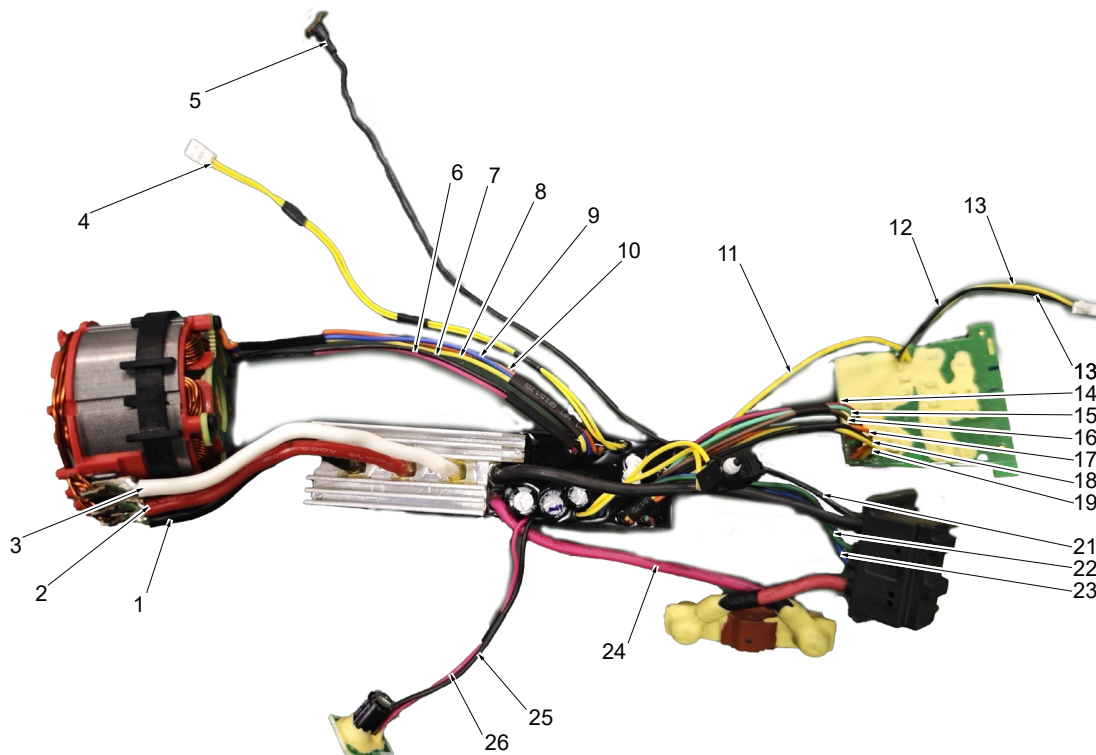
Be sure that all components of the electronics kit are seated firmly and squarely in the housing recesses.

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

Prior to securing the housing cover onto the housing support, be sure that there are no interferences.

Before installing the battery, check for proper functionality of paddle trigger.

Install battery and depress paddle trigger to assure tool is operating properly.



WIRING SPECIFICATIONS

Wire No.	Wire Color	Orientation
1	Black	From Power Control Board to Stator
2	Red	From Power Control Board to Stator
3	White	From Power Control Board to Stator
4	Yellow	From Power Control Board to Motor
5	Black	From Gearcase to Terminal Block
6	Red	From Power Control Board to Hall Board
7	Black	From Power Control Board to Hall Board
8	Yellow	From Power Control Board to Hall Board
9	Blue	From Power Control Board to Hall Board
10	Orange	From Power Control Board to Hall Board
11	Yellow	From Power Control Board to Mode Board
12	Black	From Mode Board to Coin Cell Board
13	Yellow	From Mode Board to Coin Cell Board

WIRING SPECIFICATIONS

Wire No.	Wire Color	Orientation
14	Red	From Power Control Board to Mode Board
15	Green	From Power Control Board to Mode Board
16	Brown	From Power Control Board to Mode Board
17	Orange	From Power Control Board to Mode Board
18	Black	From Power Control Board to Mode Board
19	Yellow	From Power Control Board to Mode Board
21	Black	From Power Control Board to Battery Terminal
22	Green	From Power Control Board to Battery Terminal
23	Blue	From Power Control Board to Battery Terminal
24	Red	From Power Control Board to Battery Terminal
25	Black	From Power Control Board to External Capacitor Board
26	Red	From Power Control Board to External Capacitor Board