



SERVICE PARTS LIST

BULLETIN NO.
54-38-2390

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18 FUEL™ 4-1/2"- 6" Braking Grinder			Feb. 2025
CATALOG NO. 3671-20	SERIAL NO. P19A	WIRING INSTRUCTION See Pages 2-3	

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

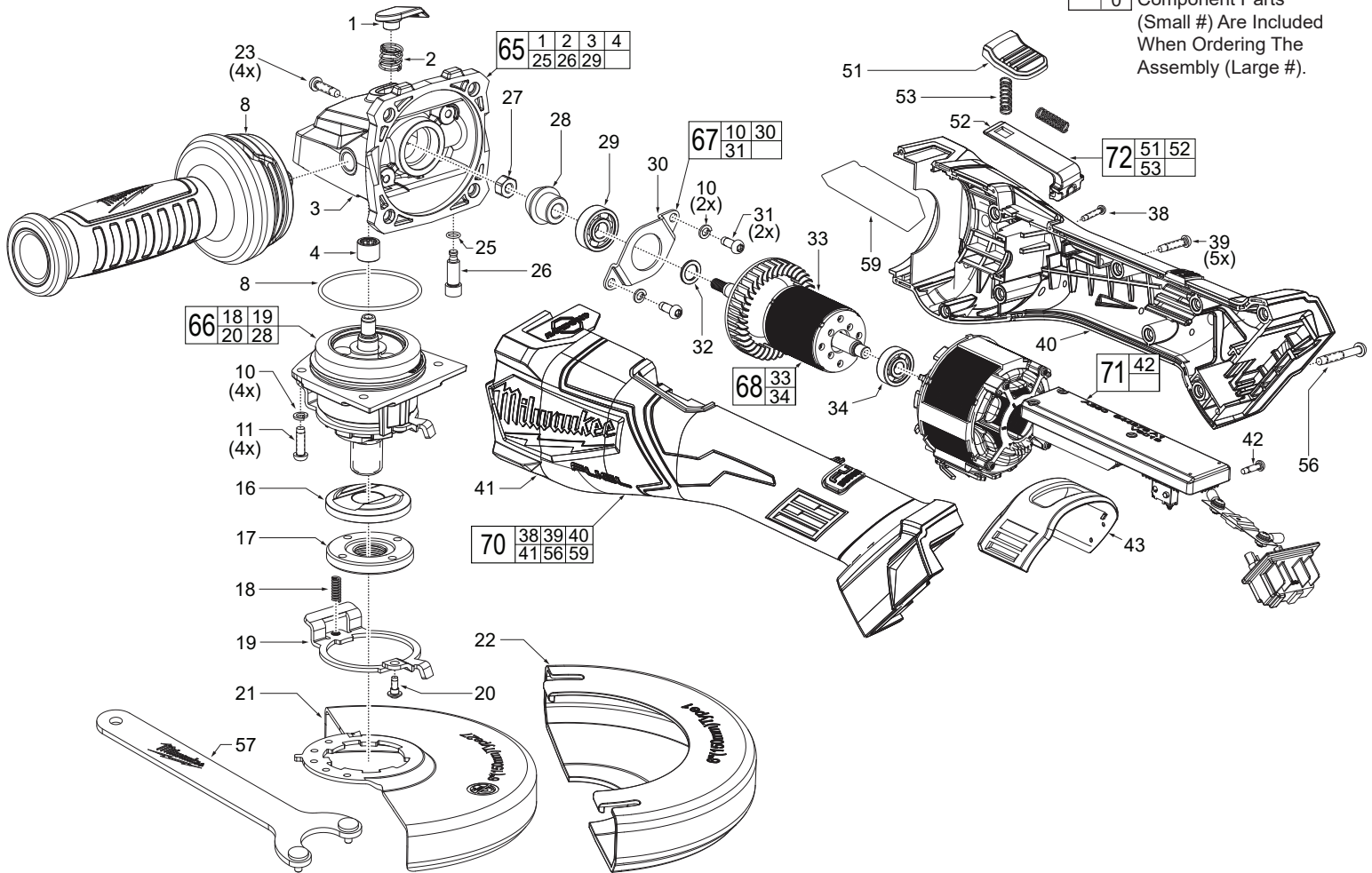
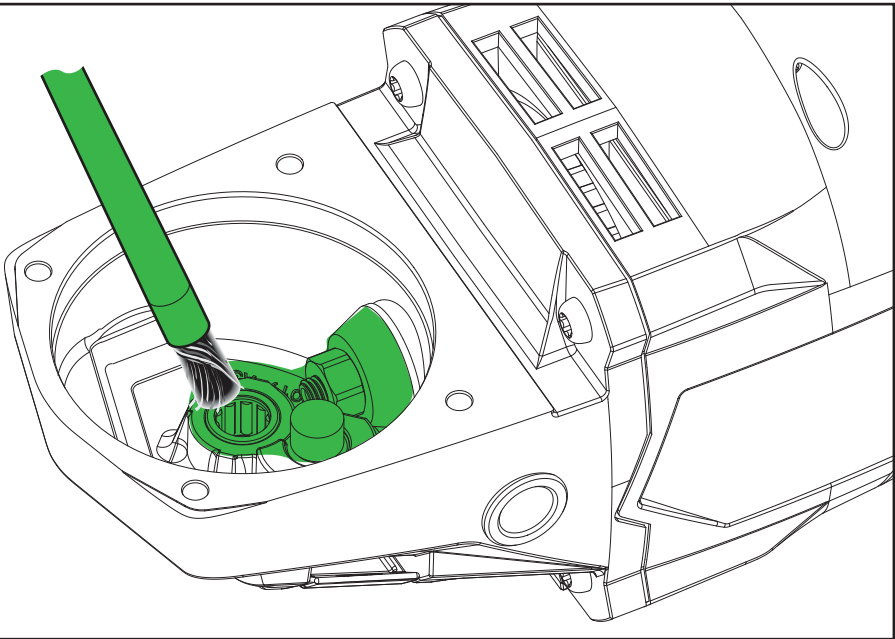


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	-----	Spindle Lock Button	(1)	32	45-88-0406	Washer	(1)
2	-----	Spindle Lock Spring	(1)	33	-----	Rotor Assembly	(1)
3	-----	Gear Case	(1)	34	02-04-0034	Ball Bearing	(1)
4	-----	Needle Bearing	(1)	38	06-82-2385	M2.6 x 14mm Pan Hd. Torx T8 Screw	(1)
8	34-40-0560	O-Ring	(1)	39	05-88-0122	M3.5 x 16mm Steel Screw	(5)
10	05-90-0225	Spring Washer	(6)	40	-----	Handle Housing - Cover	(1)
11	05-78-5316	M4 x 14mm Pan Hd. Taptite T20 Screw	(4)	41	-----	Handle Housing - Support	(1)
16	43-34-3000	Disc Flange	(1)	42	06-82-1087	M3 x 12mm Pan-Hd Torx T-10 Screw	(1)
17	44-40-7100	Flange Nut	(1)	43	31-15-9010	Dust Cover	(1)
18	40-50-0386	Spring	(1)	51	42-42-0147	Lock-On Button	(1)
19	44-20-0091	Lock Tang	(1)	52	31-84-0110	Slide Pole	(1)
20	45-04-0031	M3 x .5mm Pan Washer Hd. Phillips Screw	(1)	53	40-50-0217	Spring	(1)
21	28-41-0034	6" Type 27 Wheel Guard	(1)	56	06-82-2025	M3.5 x 26mm PT Screw	(1)
22	43-54-4020	6" Type 1 Wheel Guard	(1)	57	49-96-7215	Wrench	(1)
23	05-88-1200	M4 x 16mm Pan Hd. Recess ST T20 Screw	(4)	59	12-20-3671	Service Nameplate	(1)
24	42-62-0125	Side Handle	(1)	65	14-29-0001	Gearcase Assembly	(1)
25	-----	O-Ring	(1)	66	14-29-0002	Gearcase Cover Housing Assembly	(1)
26	-----	Spindle Lock Pin	(1)	67	14-46-0448	Bearing Retainer Service Kit	(1)
27	05-55-0620	Hex Nut	(1)	68	16-01-0003	Motor Rotor Assembly	(1)
28	32-05-0052	Bevel Pinion	(1)	70	14-46-0450	Handle Housing Service Kit	(1)
29	-----	Ball Bearing	(1)	71	14-20-0528	PCBA Assembly	(1)
30	44-66-0450	Ball Bearing Retainer	(1)	72	14-46-0470	Slide Trigger Assembly	(1)
31	05-78-0105	Pan Hd. Torx Taptite Screw	(2)				

LUBRICATION NOTES

For the Gearcase Assembly (fig.65) apply “J” Grease (No. 49-08-4220). Coat bevel pinion, needle bearing hole and surrounding area liberally.

NOTE - When servicing the Gear Case Assembly, 90-95% of the old grease must be removed prior to new grease being added.

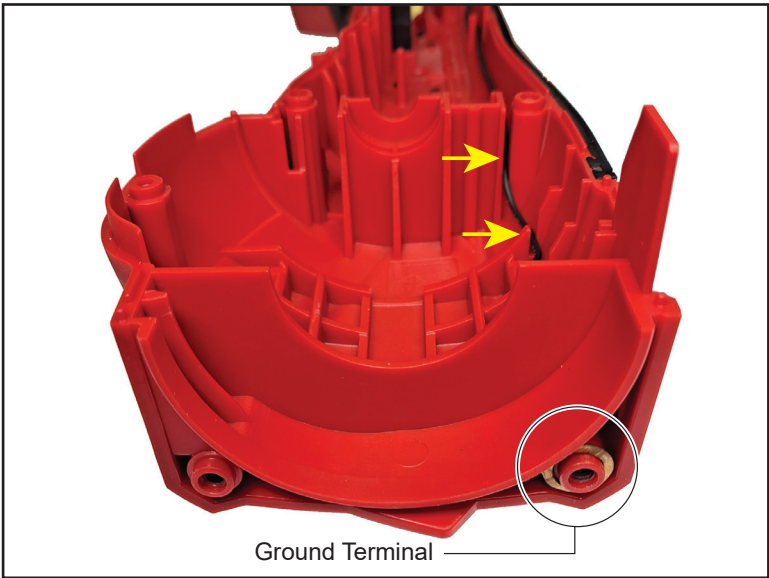


SCREW TORQUE SPECS

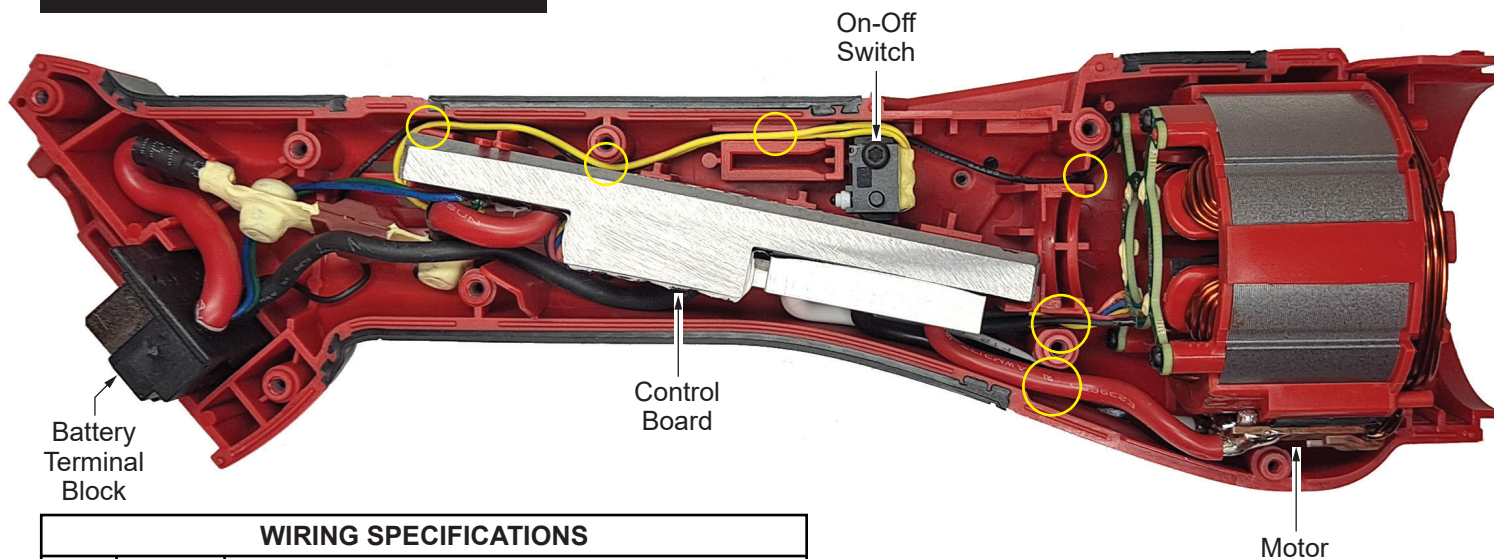
SCREW TORQUE SPECIFICATIONS				
FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			(kgf-cm)	(lb-in)
11	05-78-0316	Spindle Hub	23-29	20-25
20	05-88-0120	Spindle Hub	7-9	6-8
23	06-82-0168	Gearcase	15-19	13-16
27	05-55-0620	Rotor Shaft	100±2	89±1.7
31	05-88-0119	Bearing Retainer	23-29	20-25
38	05-88-0123	Handle Housing	5±0.5	4±0.4
39	05-88-0122	Handle Housing	12.5-16.5	10.8-14.3
42	06-82-1087	Switch	4±0.5	3±0.4
56	06-82-2025	Handle Housing	12.5-16.5	10.8-14.3

SERVICE WIRING

Prior to installing the electronics assembly (71) into the housing support (41), place grounding terminal over screw boss as shown. Route ground wire, removing as much slack as possible. Be sure wire is pressed firmly to the back of the wire traps.



SERVICE WIRING



WIRING SPECIFICATIONS

Wire No.	Wire Color	Orientation
1	Red	From Hall Board to Power Control Board
2	Orange	From Hall Board to Power Control Board
3	Blue	From Hall Board to Power Control Board
4	Yellow	From Hall Board to Power Control Board
5	Black	From Hall Board to Power Control Board
6	White	From Power Control Board to Stator
7	Black	From Power Control Board to Stator
8	Red	From Power Control Board to Stator
9	Yellow	From Power Control Board to On-Off Switch
10	Yellow	From Power Control Board to On-Off Switch
11	Black	From Battery Terminal Block to Brake
12	Red	From Power Control Board to Brake
13	Blue	From Power Control Board to Battery Terminal Block
14	Green	From Power Control Board to Battery Terminal Block
15	Black	HV Wire From Battery Terminal Block to Gearcase
16	Black	From Battery Terminal Block to Power Control Board

- 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 slide trigger to assure tool is operating properly.

