



SERVICE PARTS LIST

BULLETIN NO.
54-46-0410

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18™ FUEL™ 1-1/2" Magnetic Drill			May 2018
CATALOG NO. 2787-20	STARTING SERIAL NUMBER	G56A	
		WIRING INSTRUCTION See pages 4 and 5	

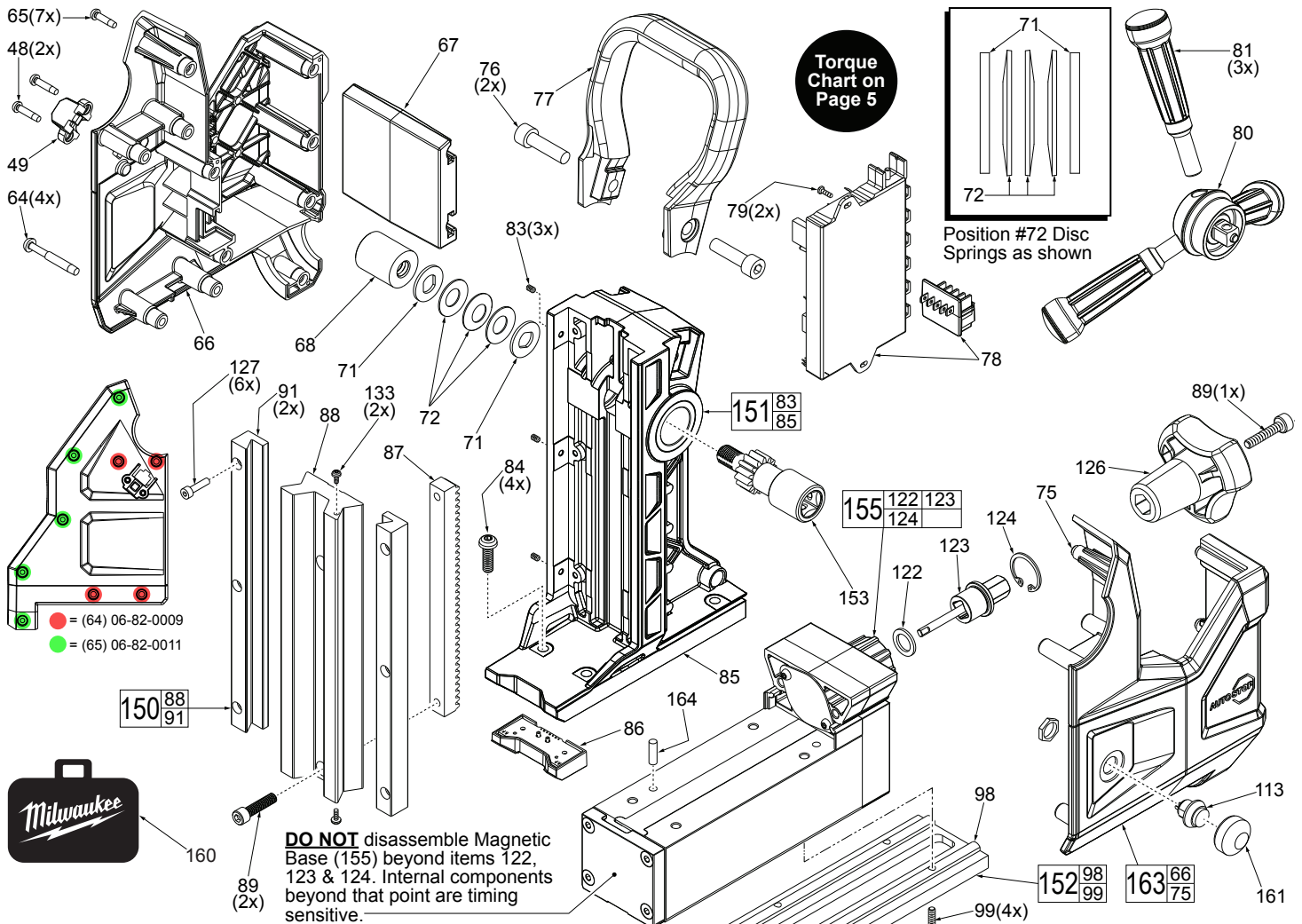


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
48	06-82-3006	M4 x 18mm Pan Hd. T-20 Screw	(2)
49	31-17-0035	Cable Clamp (Same as on drill motor)	(1)
64	06-82-0009	M5 x 1.5mm Pan Hd. T-25 Screw	(4)
65	06-82-0011	M4 x .625 Pan Hd. T-25 Screw	(7)
66	-----	Housing Cover	(1)
67	44-52-0051	Battery Pad	(1)
68	43-12-0055	Handle Square Driver	(1)
71	45-88-0028	Washer	(2)
72	40-50-0029	Disc Spring	(3)
75	-----	Housing Support	(1)
76	05-74-0014	M8 x 1.125, 6mm Hex Socket Hd. Cap Scr	(2)
77	43-62-0017	Carrying Handle	(1)
78	22-09-0022	PCBA/Battery Connector Block Assembly	(1)
79	05-83-0010	M2.5 x 7/32" Round Hd. Phillips Screw	(2)
80	43-78-0032	Quick Connect Hub Assembly	(1)
81	43-62-0022	Feed Handle	(3)
83	06-83-0015	2mm Hex Set Screw	(3)
84	05-81-2787	1/4-20 x 1", 4.5mm Hex Button Hd. Screw	(4)
85	-----	Magstand Base with Bushings	(1)
86	22-09-0042	Lower Control Board with LED	(1)
87	44-80-0061	Rack	(1)
88	-----	Slide	(1)
89	06-75-3050	1/4-20 x 3/4", 3/16" Hex Socket Hd. Screw	(3)
91	-----	Dovetail Rail	(2)
98	-----	Insert Adapter	(1)
99	-----	8-32 Screw	(4)
113	23-66-0017	LED Switch Assembly	(1)
122	45-88-0039	Rubber Washer	(1)
123	45-08-0018	Spindle Lock Shaft	(1)
124	44-86-0032	Retaining Ring	(1)
126	43-98-0047	Magnet Control Knob	(1)
127	05-74-0013	3mm Hex Socket Hd. Cap Screw	(6)
133	05-80-2787	M3 Flat Head Machine Screw	(2)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
150	44-81-0070	Dovetail and Rail Kit	(1)
151	42-20-0015	Support Housing	(1)
152	48-10-0130	Pipe Adapter Insert Kit (Accessory)	(1)
153	36-18-0030	Rack/Gear Shaft Assembly	(1)
155	42-20-2787	Magnetic Base/Rear Gearcase Assembly	(1)
160	42-55-0055	Blow Molded Carrying Case	(1)
161	22-68-0020	Rubber Switch Cover	(1)
163	43-76-2787	Housing Assembly	(1)
164	44-60-0002	Alignment Pin	(1)
45-56-0017	-----	Safety Strap (Not Shown)	(1)
12-20-0057	-----	Service Nameplate (Not Shown)	(1)
10-20-0503	-----	Warning Label (Not Shown)	(1)
10-20-0614	-----	Knob Label (Not Shown)	(1)
10-20-0616	-----	Permanent Magnet Label (Not Shown)	(1)

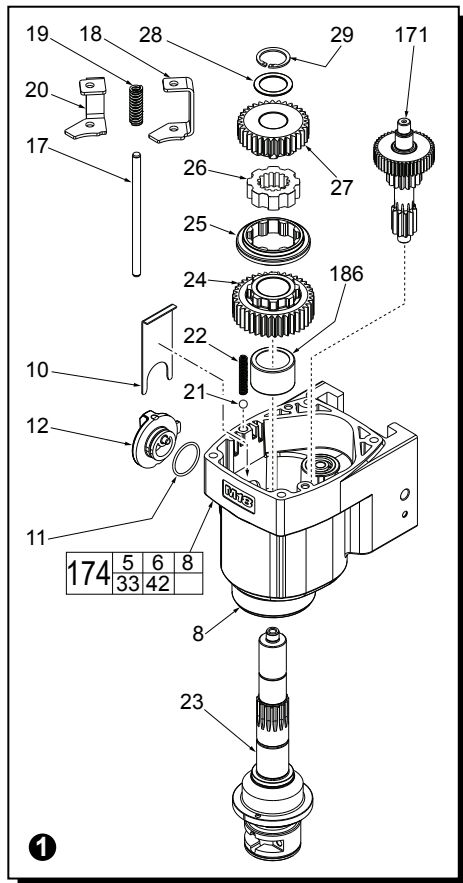
NOTE:
Model 2787-20 M18™ FUEL Magnetic Drill (Serial Break 'A') is designed to operate off of several different M18 REDLITHIUM™ battery sizes from a 1.5 amp-hours to 9.0 amp-hours.
To power a 2787-20 M18™ FUEL Magnetic Drill (Serial Break 'A') with a 48-11-1812 M18™ REDLITHIUM™ 12.0 amp-hour battery, Service Kit 14-46-0091 must be ordered to accommodate the larger size battery.

MILWAUKEE ELECTRIC TOOL CORPORATION
13135 W. Lisbon Road, Brookfield, WI 53005
Drwg. 2

LUBRICATION:

Type "Y" Grease, No. 49-08-5270 (6 oz. tube)
Use approximately 85 grams, 3 ounces

LUBRICATION NOTE: When servicing the drill motor, 90-95% of old grease must be removed prior to new grease being added.



1 Install parts shown into/onto Gear Case Assembly (174) prior to applying any lubrication.

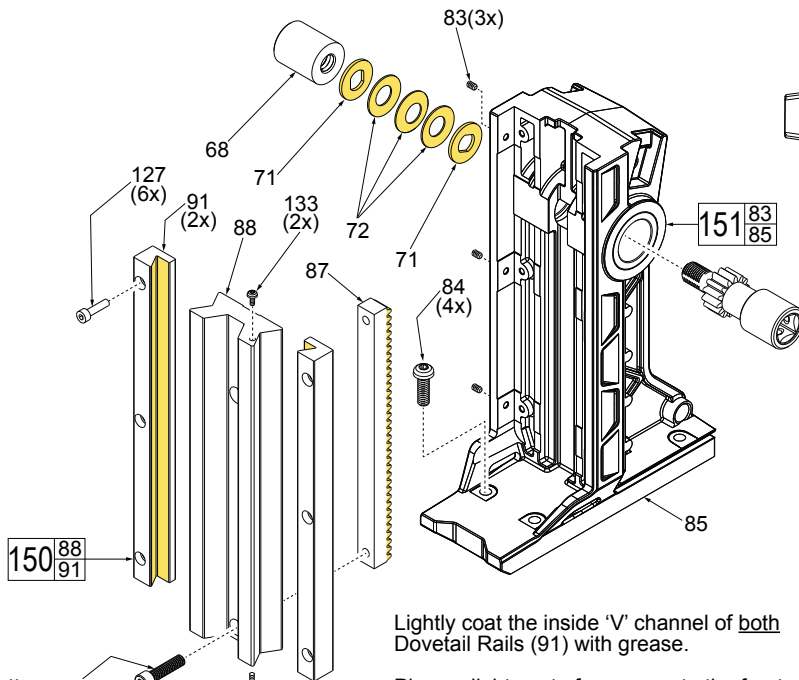
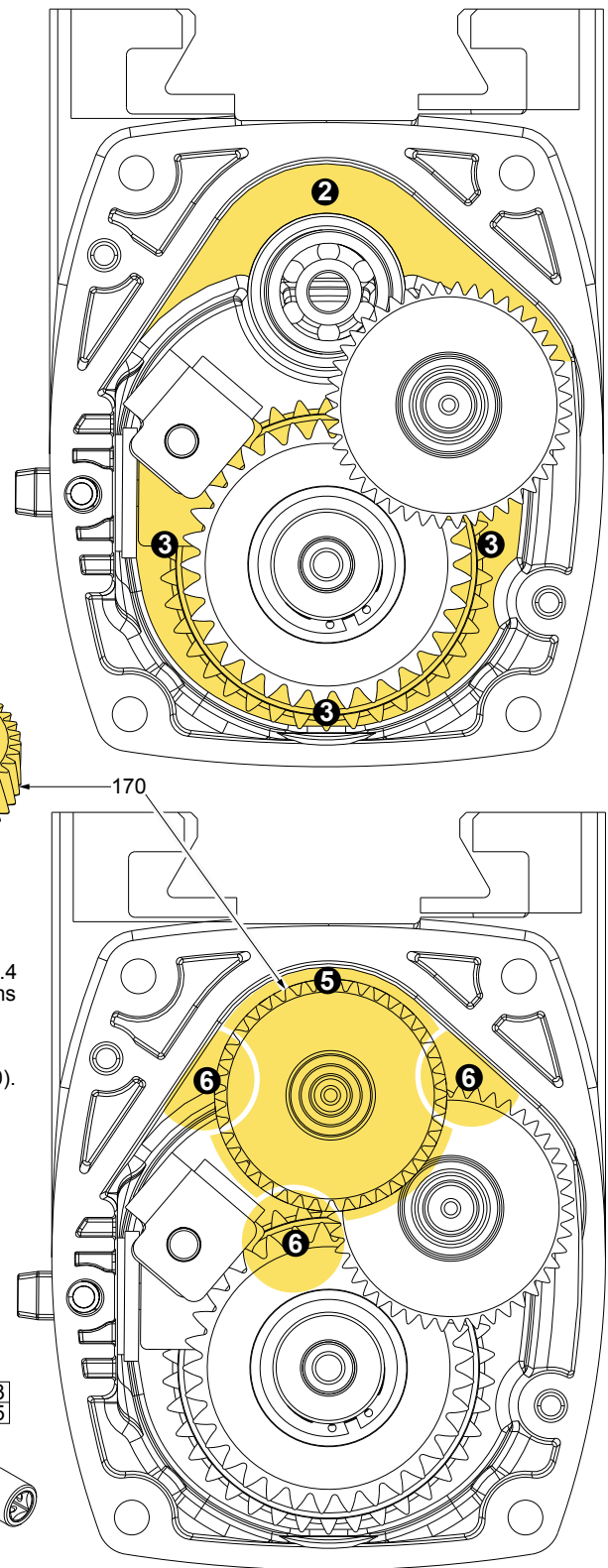
2 Apply 13 grams (approximately .45 ounces) of grease in this area of the gear case prior to installing the Pinion/1st Intermediate Gear Assembly (170).

3 With the aid of a grease gun, place 26 grams (approximately .9 ounces) in and around the gear case cavity for the 3rd Intermediate Gear system (24, 25, 26 and 27).

4 Apply a heavy coating of grease over the entire Pinion/1st Intermediate Gear Assembly (170).

5 Install the assembly (170) into gear case and place 5-8 grams (.17-.28 ounces) fully around gear space.

6 This step will require 39 grams (1.4 ounces) of grease. Place 13 grams (approximately .45 ounces) of grease at each of three positions over and around the Pinion/1st Intermediate Gear Assembly (170).

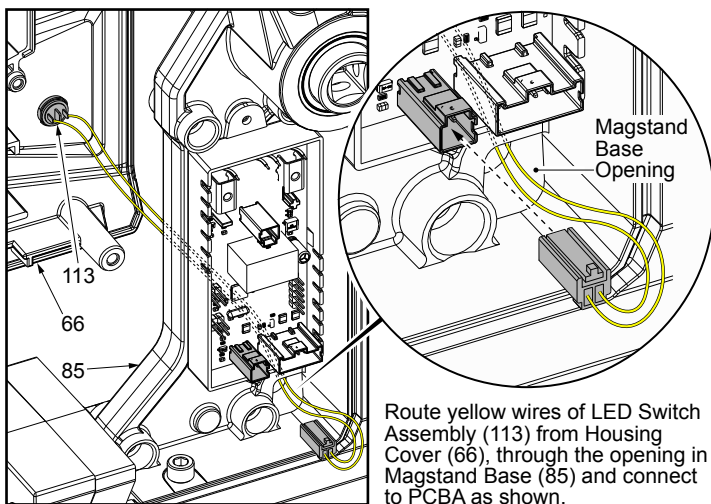


This bottom screw (89) must be loosened 3 to 4 turns in order to remove the Slide (97) and the Rack (96).

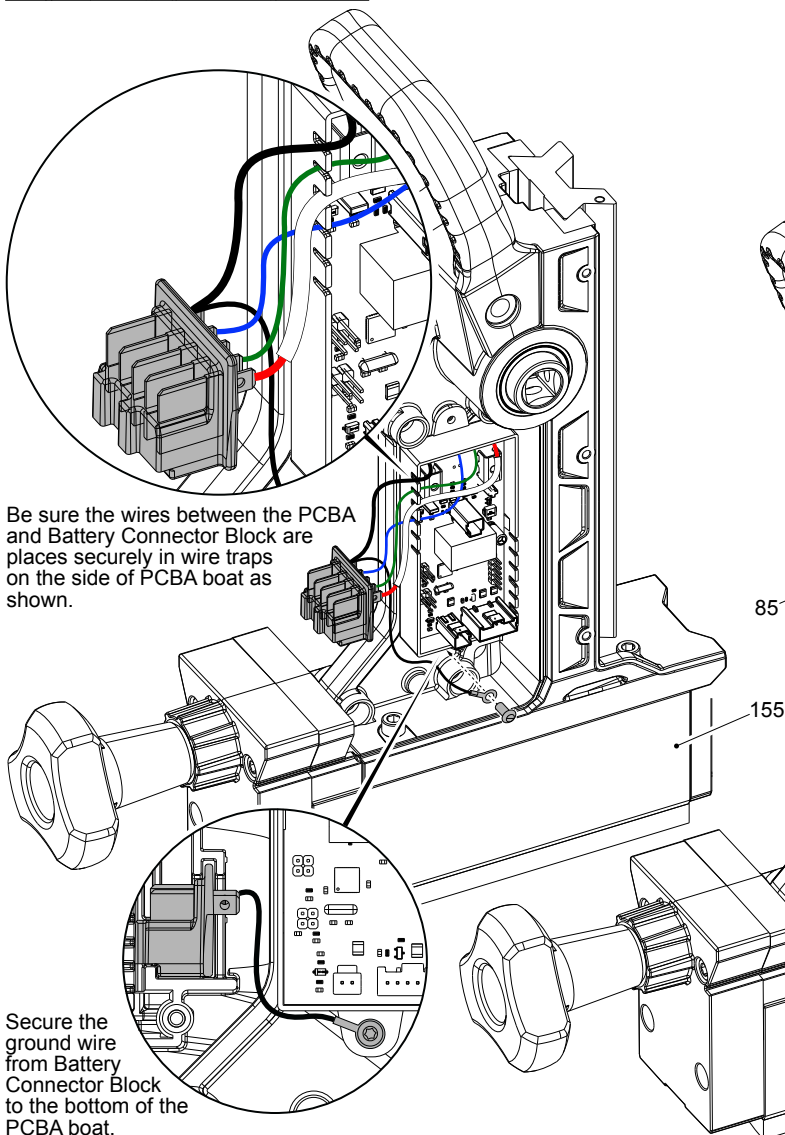
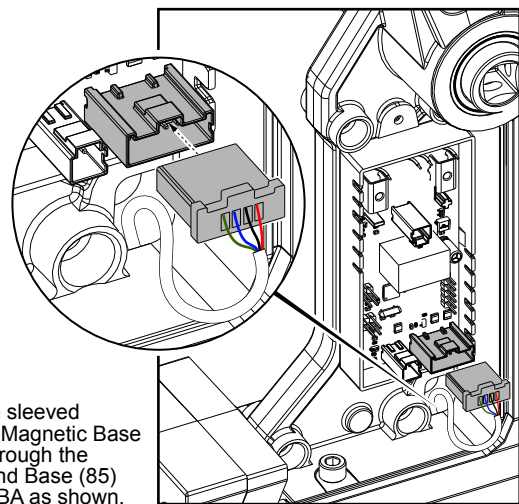
Lightly coat the inside 'V' channel of both Dovetail Rails (91) with grease.

Place a light coat of grease onto the front teeth of the Rack (87).

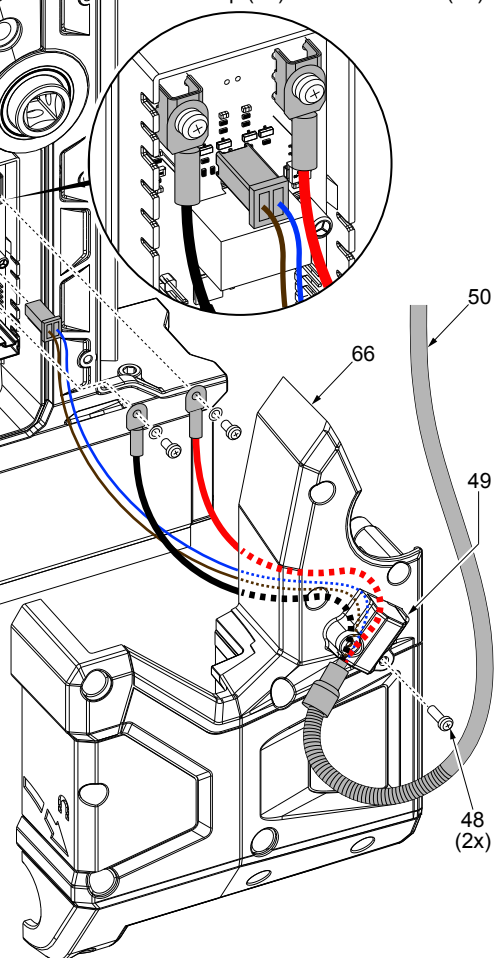
Lightly coat both sides of the two Washers (71) and three Disc Springs (72).

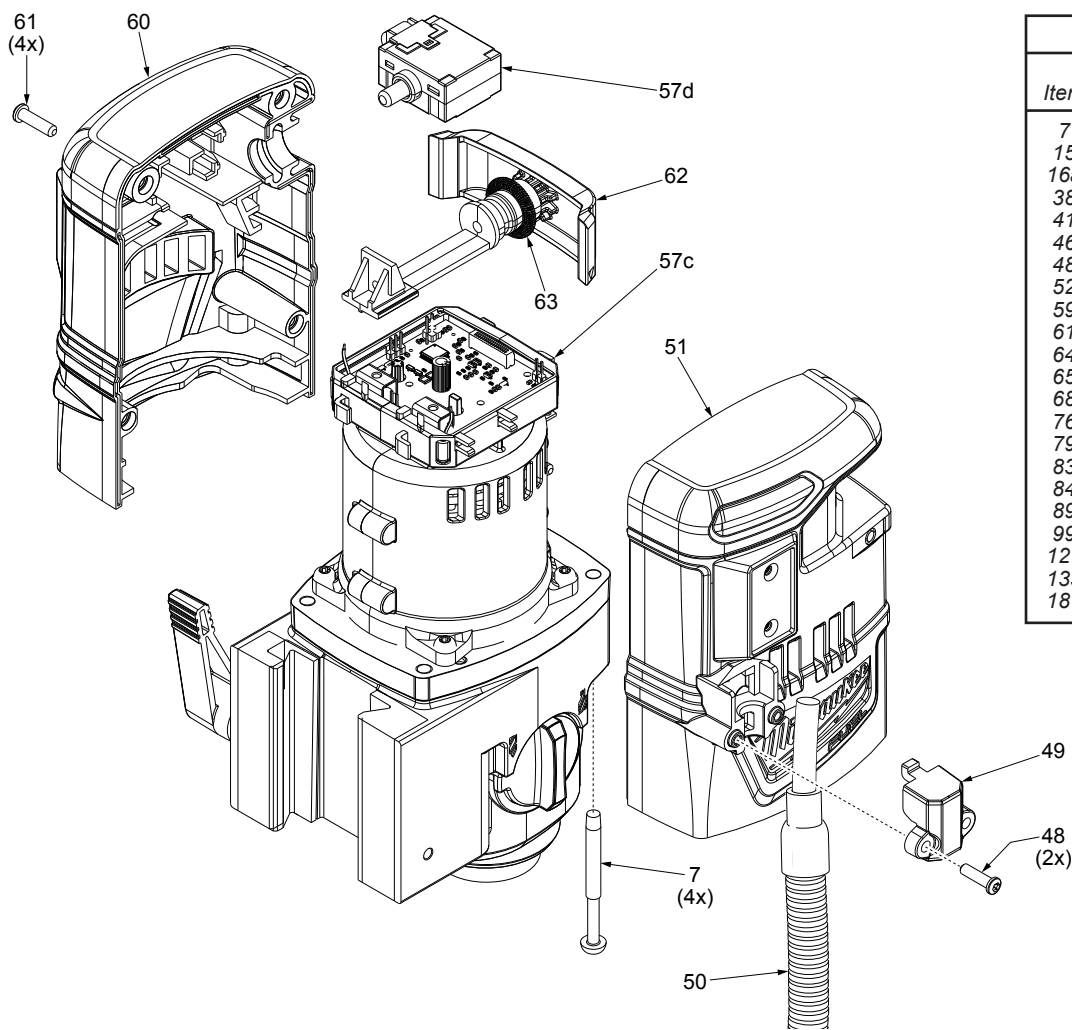


Route the four wire sleeved assembly from the Magnetic Base Assembly (155), through the opening in Magstand Base (85) and connect to PCBA as shown.



Route the wires from the Power Cable (50) from drill motor through the opening in the Housing Support (75). Secure the black and red wires to PCBA with a lock washer and screw at each terminal. Connect the remaining brown/blue wire assembly as shown. Secure Power Cable to the Housing Cover (66) with Cord Clamp (49) and two Screws (48).

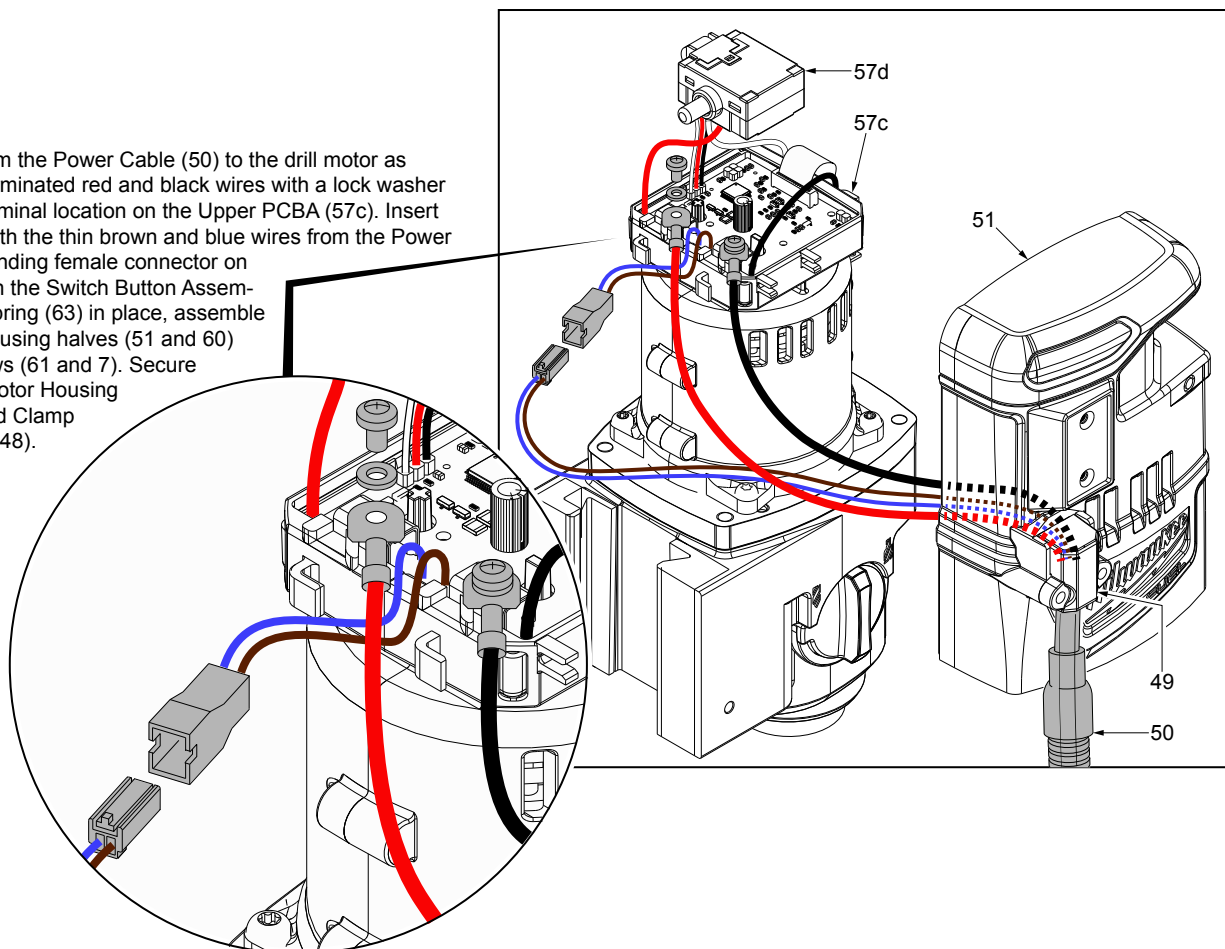


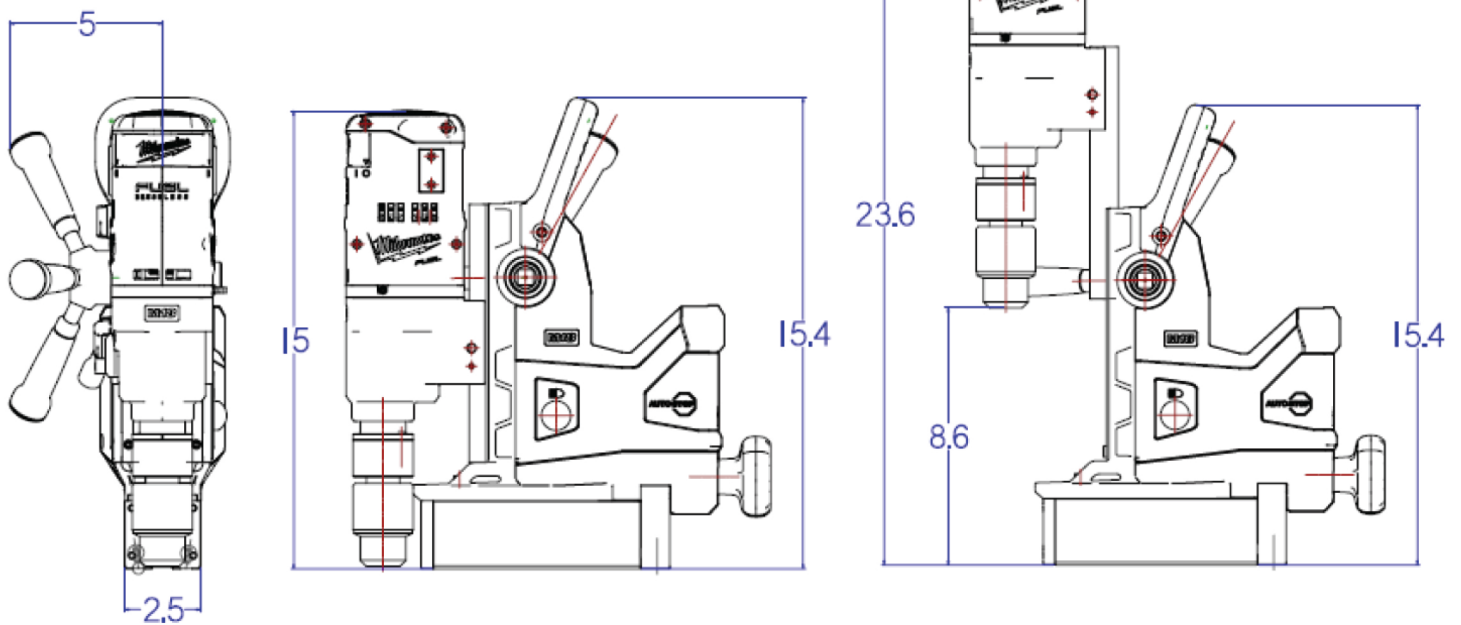


SCREW TORQUE CHART

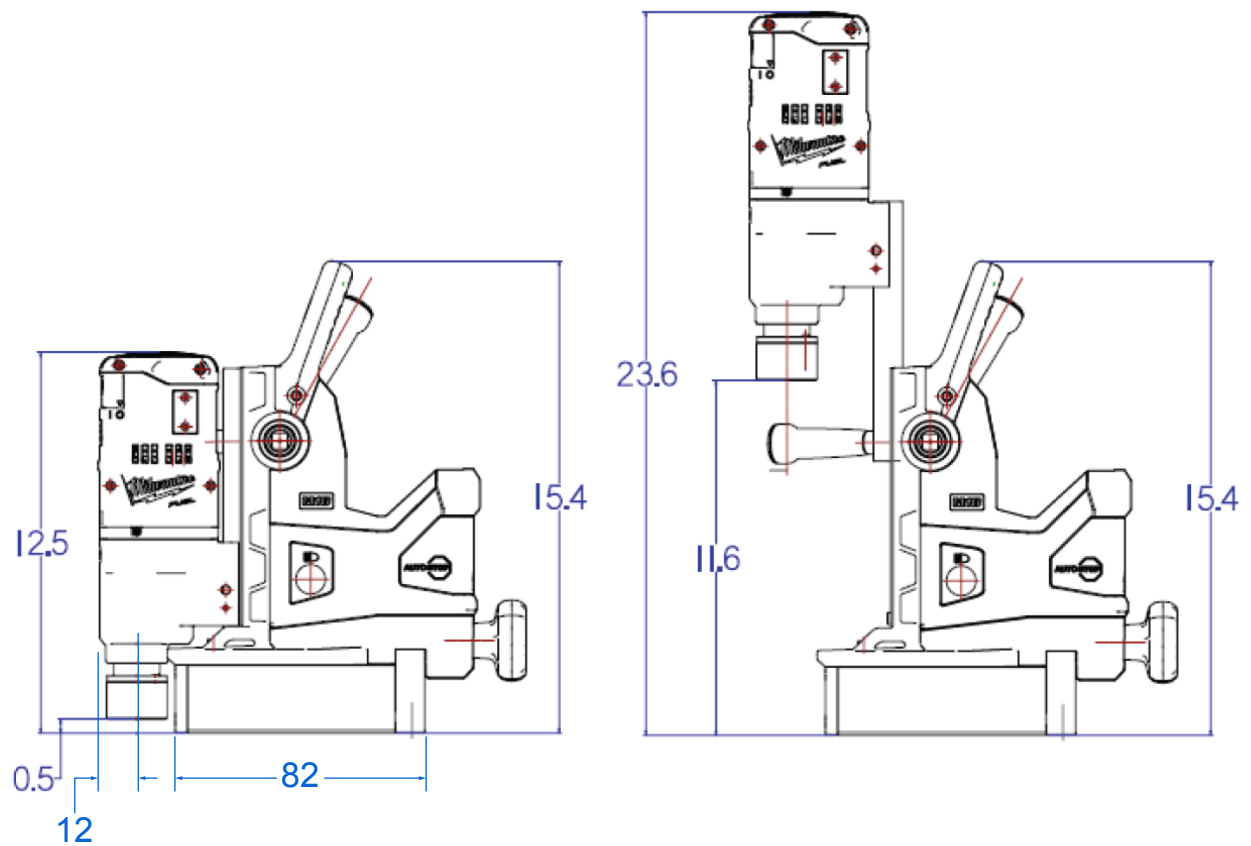
Item	Part Number	Seat Torque	
		(Kg./cm.)	(In./lbs.)
7	06-82-0040	28-33	24-28
15	05-81-1410	4-6	3-5
16a	-----	6-10	5-8
38	43-33-0025	4-8	3-7
41	05-83-0020	15-20	13-17
46	06-81-0007	7-10	6-8
48	06-82-3006	13-17	11-14
52	05-78-0910	12-18	10-15
59	06-82-1080	10-15	8-13
61	06-82-0018	15-20	13-17
64	06-82-0009	28-33	24-28
65	06-82-0011	15-20	13-17
68	43-12-0055	460	399
76	05-74-0014	35-40	30-34
79	05-83-0010	3-7	2-6
83	06-83-0015	4	3
84	05-81-2787	28-33	24-28
89	06-75-3050	28-33	24-28
99	-----	20-25	17-21
127	05-74-0013	25-30	21-26
133	05-80-2787	10-15	8-13
187	42-04-0200	50-75	43-65

Connect the wires from the Power Cable (50) to the drill motor as shown. Secure the terminated red and black wires with a lock washer and screw at each terminal location on the Upper PCBA (57c). Insert the male connector with the thin brown and blue wires from the Power Cable to the corresponding female connector on the Upper PCBA. With the Switch Button Assembly (62) and Garter Spring (63) in place, assemble together two motor housing halves (51 and 60) and secure with screws (61 and 7). Secure Power Cable to the Motor Housing Support (51) with Cord Clamp (49) and two Screws (48).





CHUCK ADAPTER SET-UP



ANNULAR CUTTER SET-UP