



SERVICE PARTS LIST

BULLETIN NO.
54-05-2940

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M18 FUEL™ 5 CFM VACUUM PUMP

CATALOG NO. 2941-20

SERIAL NO. N48A

REVISED BULLETIN

DATE
Sep. 2024

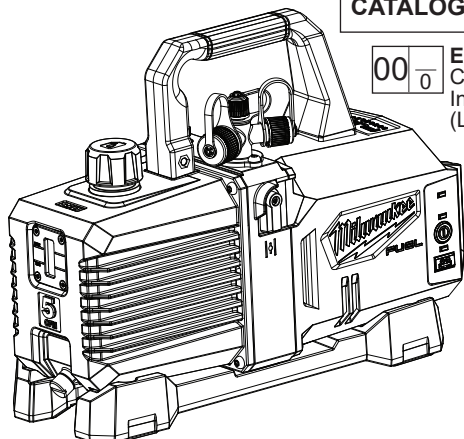
WIRING INSTRUCTION

See Page 4

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

SEE THE NEXT PAGE FOR THE CORRESPONDING LIST
OF SERVICE PARTS AND SERVICE ASSEMBLIES



70 32 66a 66b 66c 66d 66e 66f 66g 66h 66j
66k 66m 66n 66p 66q 66r 66s 66t 66u

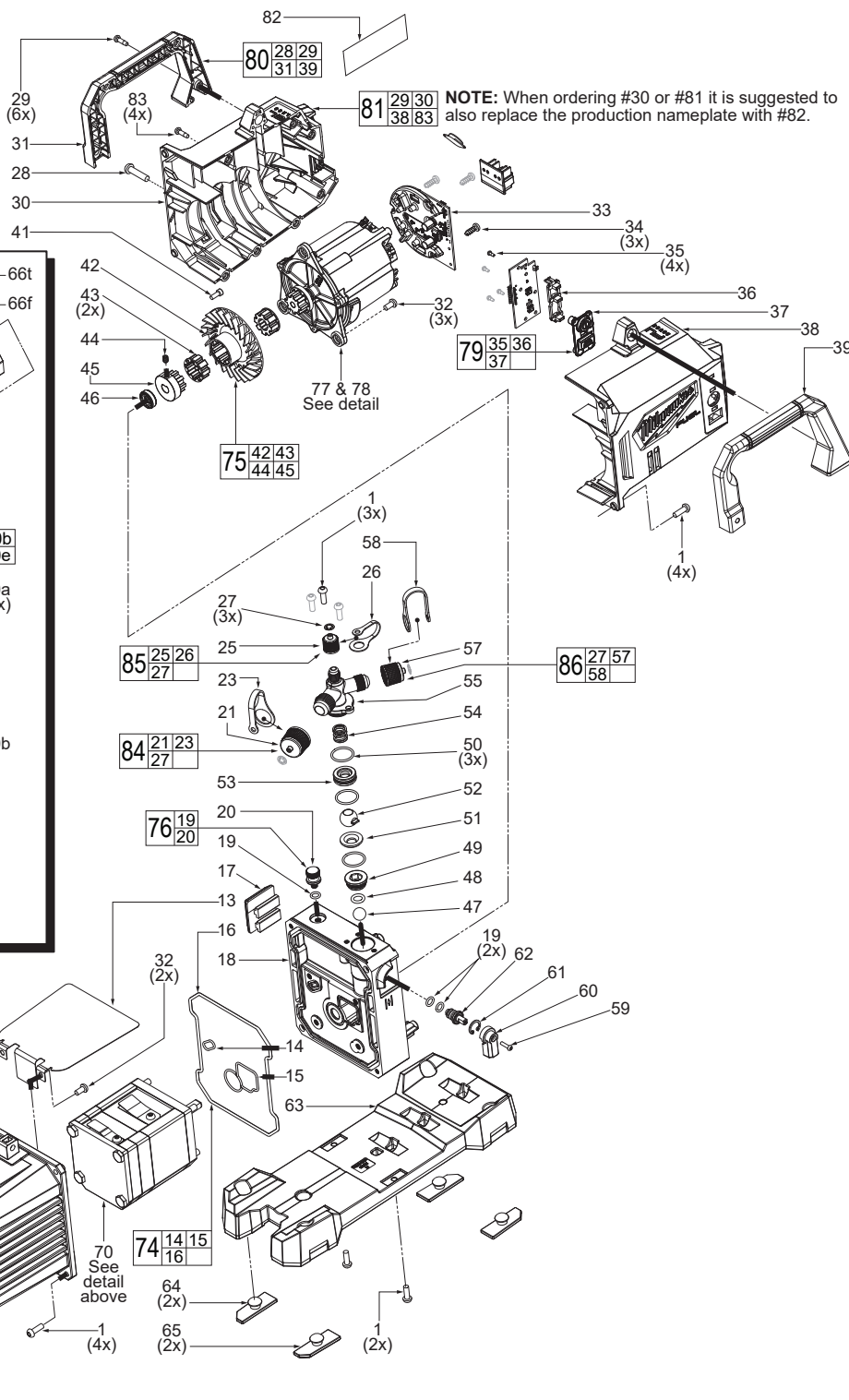
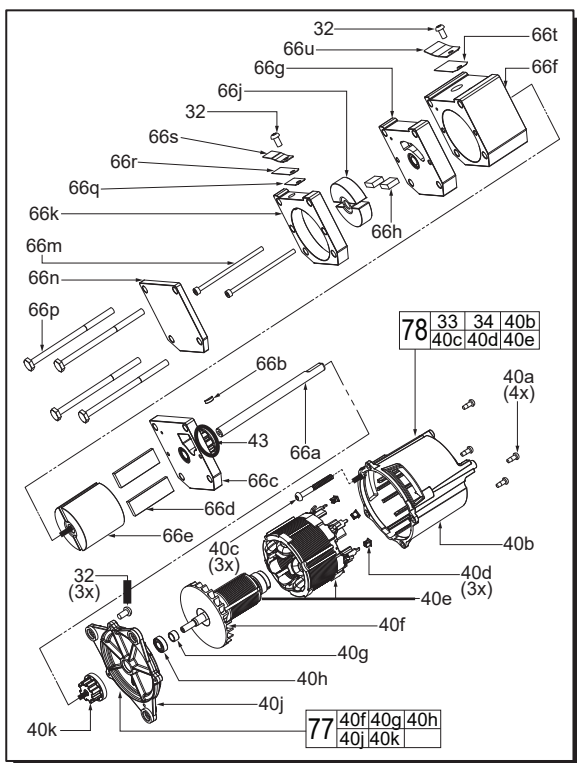
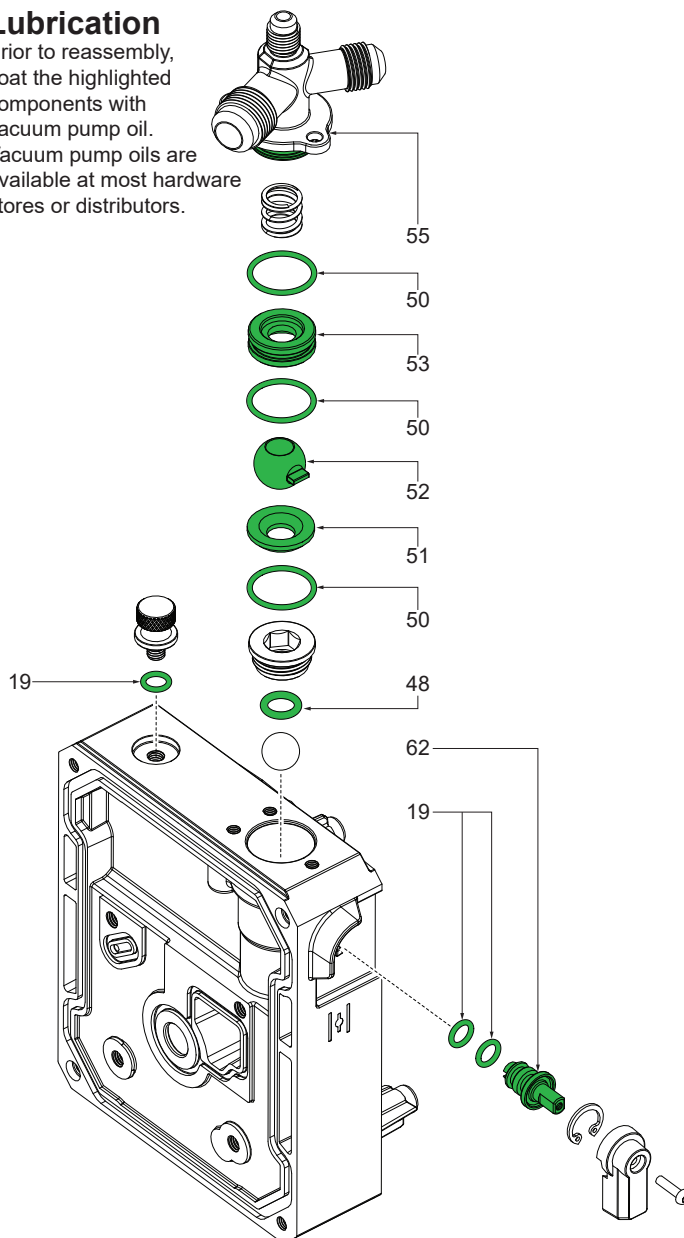


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	06-82-0164	M5 x 15mm Pan Hd. T-25 Machine Screw	(13)
2	-----	M3 x 7mm Flat Hd. T-10 Machine Screw	(4)
3	-----	Sight Glass Cover	(1)
4	-----	Sight Glass	(1)
5	-----	Sight Glass Gasket	(1)
6	31-12-0046	Drain Plug	(1)
7	34-40-0204	Drain Plug O-Ring	(1)
8	45-76-0031	Pump Housing	(1)
9	-----	Cap Body	(1)
10	-----	Filter Element	(1)
11	-----	Exhaust Filter	(1)
12	-----	Oil Fill Cap	(1)
13	31-05-0022	Oil Baffle	(1)
14	43-44-0133	Gas Ballast Hole Gasket	(1)
15	43-44-0132	Pump Body Inlet Gasket	(1)
16	43-44-0131	Pump Housing Gasket	(1)
17	42-38-0067	Bumper	(1)
18	31-01-0074	Trestle	(1)
19	34-40-0214	Ball Valve Shaft O-Ring	(3)
20	31-94-0027	Gas Ballast Valve	(1)
21	-----	1/2 FL Cap	(1)
23	-----	1/2 FL Cap Strap	(1)
25	-----	1/4 FL Cap	(1)
26	-----	1/4 FL Cap Strap	(1)
27	-----	External Push-In Retaining Ring	(3)
28	05-74-0242	M6 x 25mm Pan Hd. T-30 Machine Screw	(1)
29	05-88-5375	M4 x 13.5mm Pan Hd. T-20 ST Screw	(6)
30	-----	Housing Cover	(1)
31	-----	Grip - Cover Side	(1)
32	05-81-2000	M5 x 10mm Pan Hd. T-25 Machine Screw	(7)
33	-----	PCBA	(1)
34	06-95-6215	M5 x 14mm Pan Hd. T-20 ST Screw	(3)
35	06-82-0196	M2.5 x 6mm Pan Hd. Taptite T-8 Screw	(4)
36	43-62-0056	Light Pipe	(1)
37	14-34-0043	Pad Style Button	(1)
38	-----	Housing Support	(1)
39	-----	Grip - Support Side	(1)
40a	-----	M4 x 10mm Pan Hd. T-20 ST Screw	(4)
40b	-----	Motor Housing	(1)
40c	-----	M5 x 42mm Pan Hd. T-25 ST Shoulder Scr.	(3)
40d	-----	Silicon Isolator	(3)
40e	-----	Stator	(1)
40f	-----	Rotor	(1)
40g	-----	Spacer	(1)
40h	-----	Front Bearing	(1)
40j	-----	Motor Mounting Plate	(1)
40k	-----	Motor Coupler	(1)
41	05-74-0735	M4 x 10mm Cap Hd. T-20 Machine Screw	(1)
42	42-90-0052	Coupler Fan	(1)
43	42-90-0036	Coupler Sleeve	(2)
44	06-83-0020	M5 x 8mm Set Screw	(1)
45	42-90-0051	Shaft Coupler	(1)
46	22-09-0031	Skeleton Oil Seal	(1)
47	02-02-0112	AL Hollow Ball	(1)
48	34-40-0211	Ball Plug O-Ring	(1)
49	31-53-0018	Ball Plug	(1)
50	34-40-0210	PTFE Disk O-Ring	(3)
51	31-88-0016	Lower Ball Disk	(1)
52	31-44-0014	Ball Valve	(1)
53	31-88-0015	Upper Ball Disk	(1)
54	45-88-0104	Spring	(1)
55	45-76-0054	Manifold	(1)
57	-----	3/8 FL Cap	(1)
58	-----	3/8 FL Cap Strap	(1)
59	05-74-0501	M32 x 12mm Pan Hd. T-10 Machine Screw	(1)
60	31-44-0204	Ball Valve Knob	(1)
61	34-80-0027	Internal Retaining Ring	(1)
62	20-60-0010	Ball Valve Shaft	(1)
63	45-24-0081	Pedestal	(1)
64	44-34-0071	Rubber Foot - Left Side	(2)
65	44-34-0070	Rubber Foot - Right Side	(2)
66a	-----	Rotor Shaft	(1)
66b	-----	Woodruff Key	(1)
66c	-----	Plate - S1	(1)
66d	-----	Vane 1	(2)
66e	-----	Rotor 1	(1)
66f	-----	Plate - S2	(1)
66g	-----	Plate - S3	(1)
66h	-----	Vane 2	(2)
66j	-----	Rotor 2	(1)

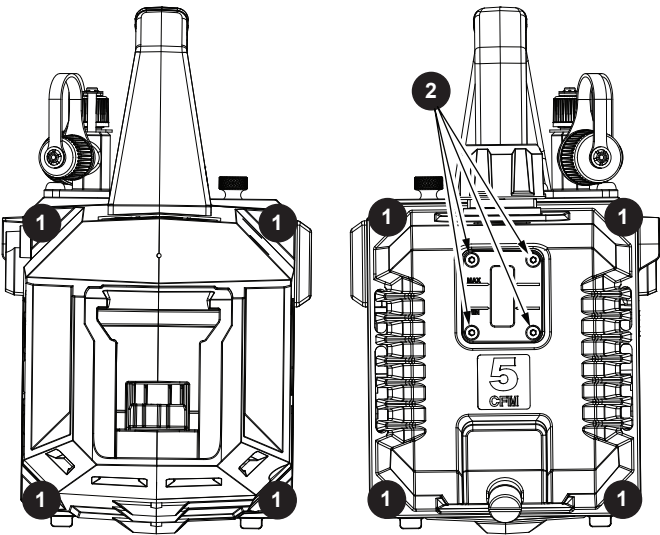
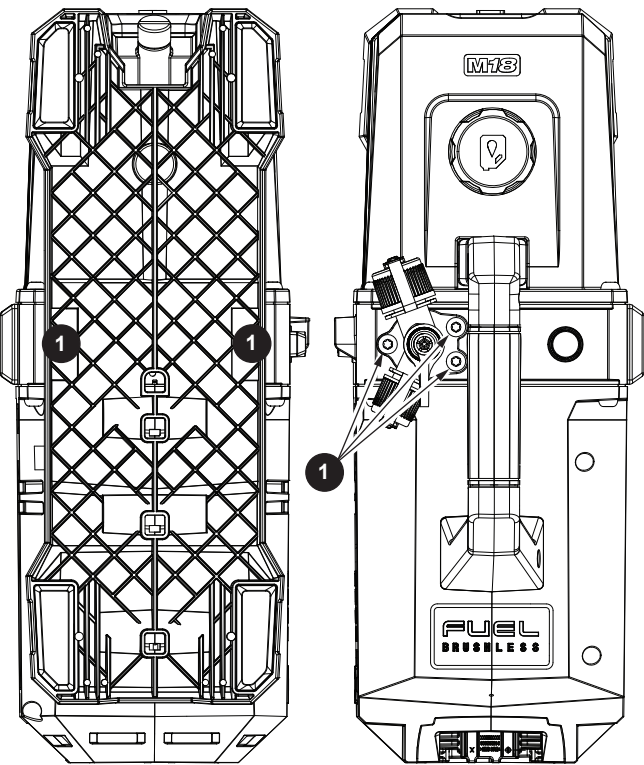
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
66k	-----	Plate - S4	(1)
66m	-----	M4 x 82mm Screw	(2)
66n	-----	Plate - S5	(1)
66p	-----	M6 x 105mm Hex Hd. Machine Screw	(4)
66q	-----	Stage 2 Valve Spacer	(1)
66r	-----	Stage 2 Reed Valve	(1)
66s	-----	Stage 2 Valve Limiter	(1)
66t	-----	Stage 1 Reed Valve	(1)
66u	-----	Stage 1 Valve Limiter	(1)
70	14-46-0497	Pump Service Assembly	(1)
71	14-46-0508	Drain Plug Service Kit	(1)
72	14-46-0509	Sight Glass Service Kit	(1)
73	14-46-0507	Vent Cap Service Kit	(1)
74	14-46-0506	Gasket Service Kit	(1)
75	14-46-0498	Pump Side Fan & Hub Service Kit	(1)
76	14-46-0504	Gas Ballast Knob Service Kit	(1)
77	14-46-0499	Pump Rotor & Hub Service Kit	(1)
78	14-46-0502	Electronics Service Assembly	(1)
79	14-46-0503	Button Service Kit	(1)
80	14-46-0512	Pump Handle Service Kit	(1)
81	14-46-0511	Pump Housing Service Kit	(1)
82	12-20-0583	Service Nameplate	(1)
83	05-81-1210	M4 x 22mm Pan Hd. ST T-20 Screw	(4)
84	14-20-1625	1/2 Cap Service Assembly	(1)
85	14-20-1620	1/4 Cap Service Assembly	(1)
86	14-20-1615	3/8 Cap Service Assembly	(1)

Lubrication

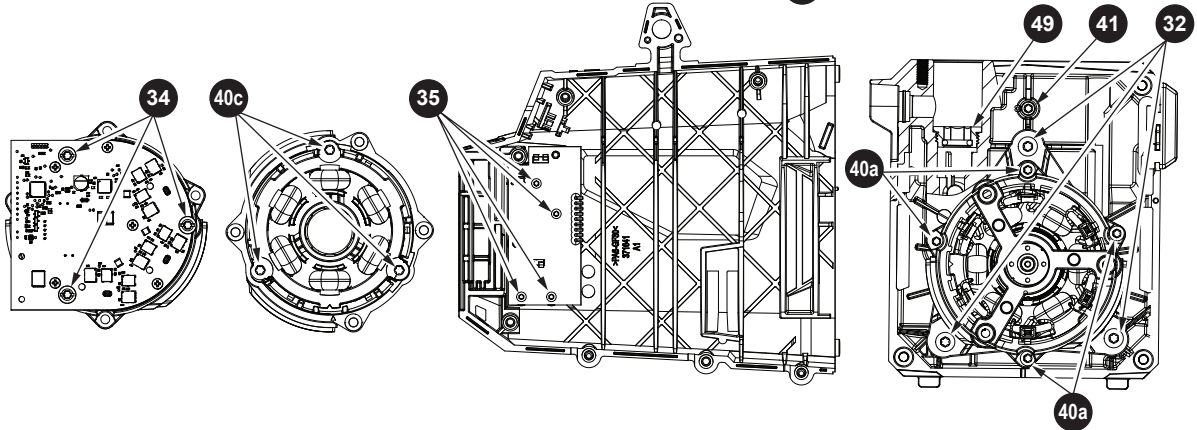
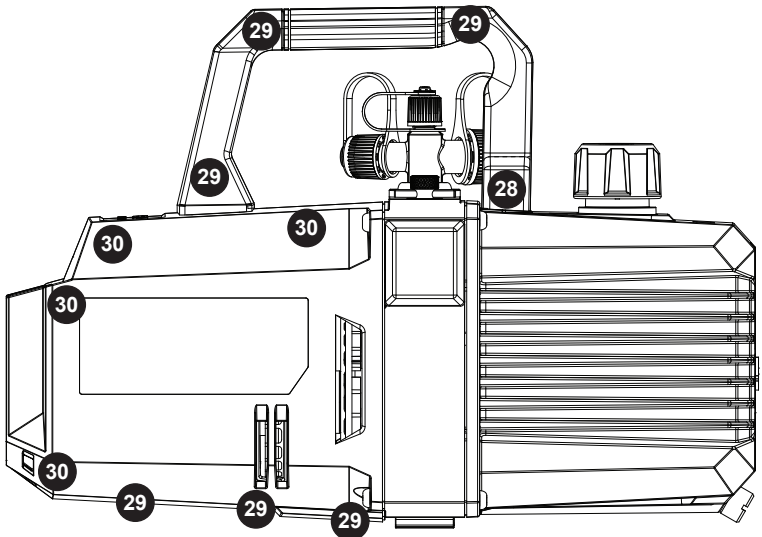
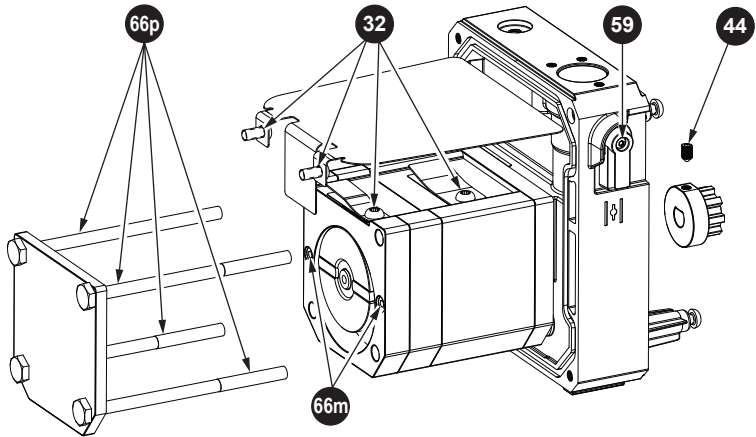
Prior to reassembly, coat the highlighted components with vacuum pump oil. Vacuum pump oils are available at most hardware stores or distributors.

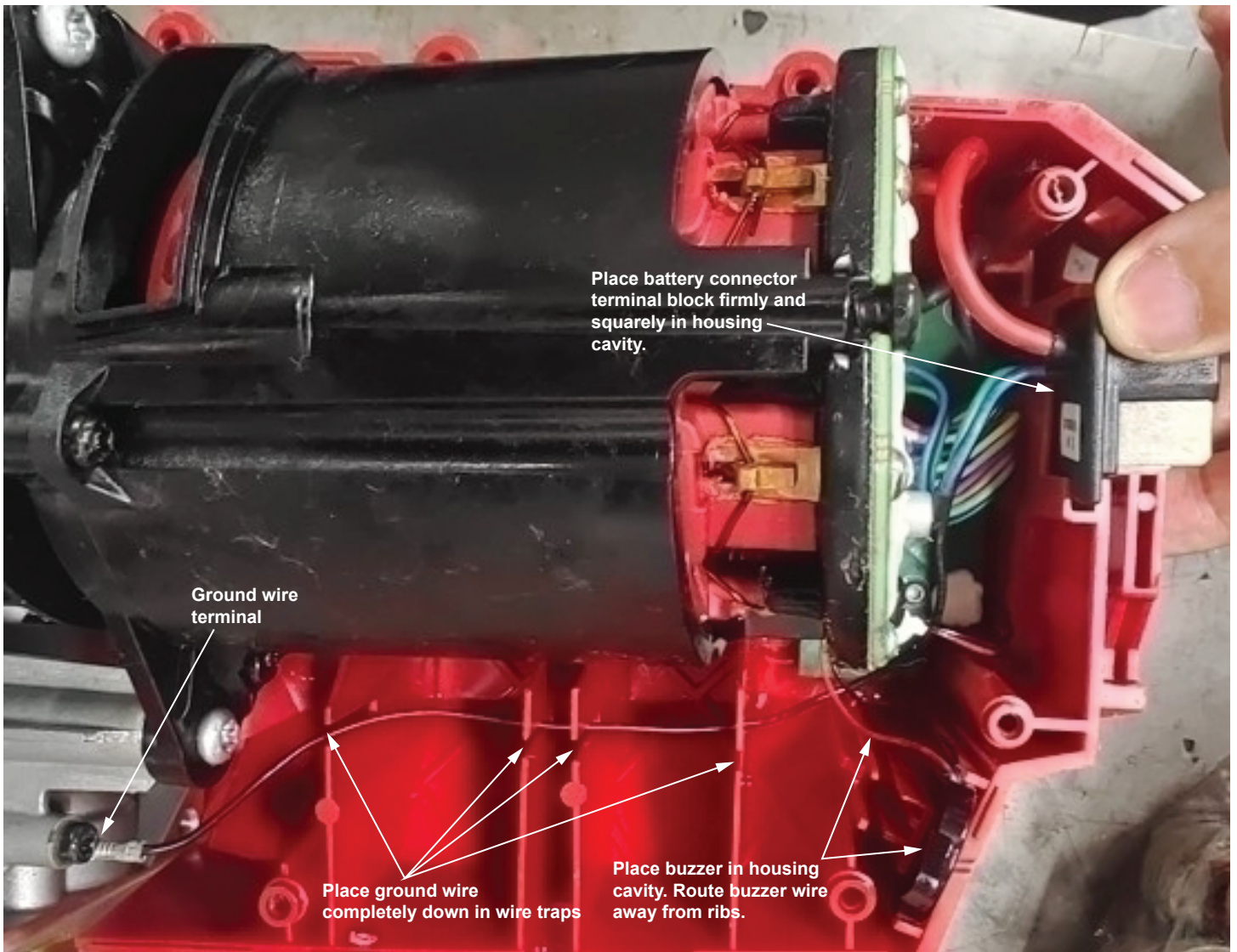


Screw Torque Specifications



SCREW TORQUE SPECIFICATIONS				SEAT TORQUE	
FIG.	PART NO.	WHERE USED		(kgf-cm)	(lb-in)
1	06-82-0164	Several areas, see illustration.		18±2	15.6±1
2	-----	Sight Glass Service Kit		4.5±1	3.9±1
28	05-74-0242	Pump Housing/Pump Handle		35±2	30.3±1
29	05-88-5375	Pump Housing/Pump Handle		10±2	8.6±1
32	05-81-2000	Several areas, see illustration.		20±2	17.3±1
34	06-95-6215	PCBA		9.5±1	8.2±1
35	05-74-0505	Button Service Kit		4.5±0.5	3.9±0.5
40a	-----	Electronics Service Assembly		9±1	7.8±1
40c	-----	Electronics Service Assembly		15±2	13±1
41	05-74-0735	Trestle		12±1	10.4±1
44	06-83-0020	Shaft Coupler		10±2	8.6±1
49	31-53-0018	Ball Plug used in Trestle		15±2	13±1
59	05-74-0501	Ball Valve Knob		12±1	10.4±1
66m	-----	Pump Service Assembly		20±2	17.3±1
66p	-----	Pump Service Assembly		180±18	156±15
83	05-81-1210	M4 x 22mm Pan Hd. ST T-20 Screw		10±2	8.6±1





Wiring

