



SERVICE PARTS LIST

BULLETIN NO.
54-40-0020

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18 FUEL 14" Abrasive Chop Saw			Feb. 2021
CATALOG NO.	2990-20	STARTING SERIAL	L08A
		WIRING INSTRUCTION See Page 6	

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

Lubrication instructions are on page 4.

Fastener torque specification chart is on page 5.

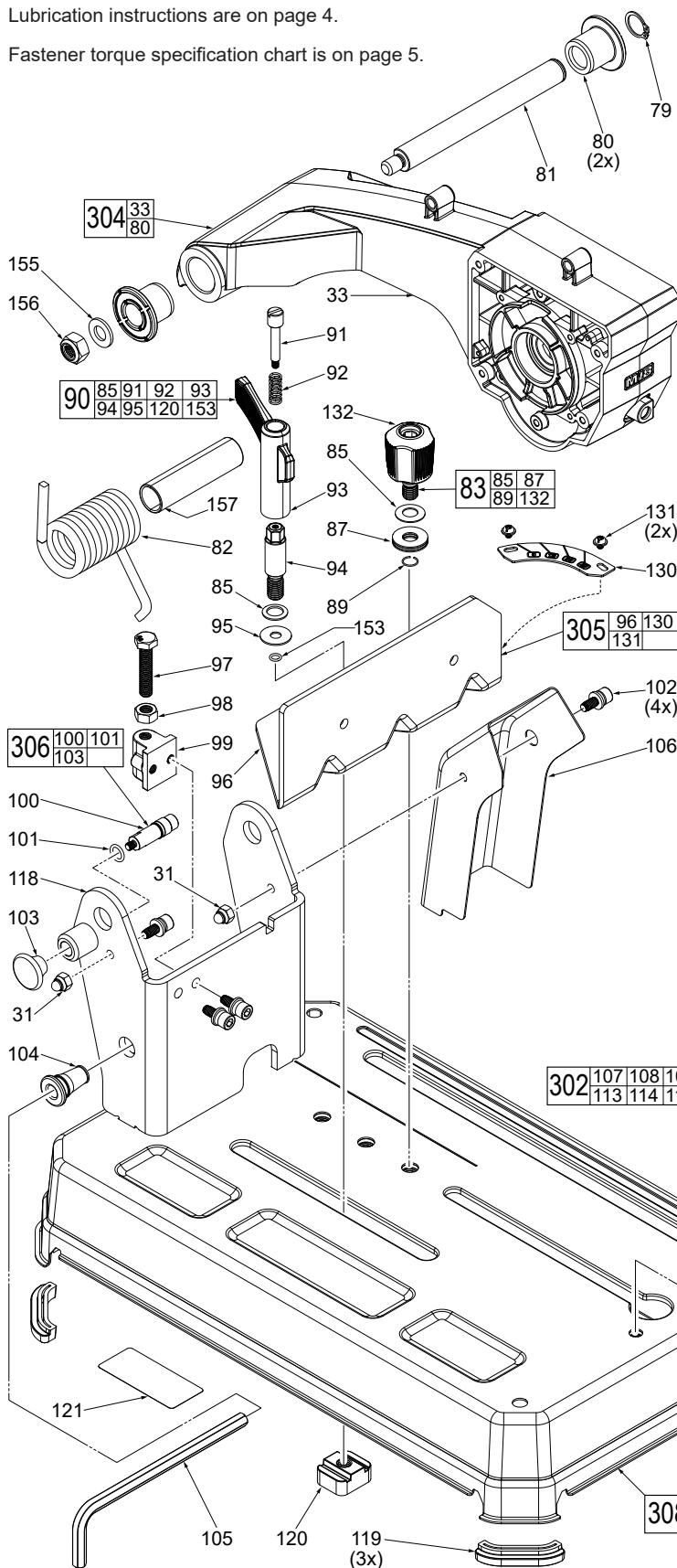


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
31	45-80-0081	Nylon Lock Nut	(2)
33	-----	Upper Arm	(1)
79	34-60-0118	Retaining Ring	(1)
80	-----	Pivot Sleeve	(2)
81	44-64-0018	Pivot Shaft	(1)
82	40-50-0443	Pivot Torsion Spring	(1)
83	44-64-0021	Pivot Bolt Service Kit	(1)
85	45-88-0501	Conical Spring Washer	(2)
87	-----	Needle Bearing	(1)
89	-----	Snap Ring	(1)
90	44-10-0109	Quick Release Service Kit	(1)
91	-----	Quick Release Pin	(1)
92	-----	Quick Release Spring	(1)
93	-----	Quick Release Lever	(1)
94	-----	Quick Release Stud	(1)
95	45-88-0373	Flat Washer	(1)
96	-----	Rear Vise	(1)
97	05-85-0021	M8 x 30mm Hex Hd. Screw	(1)
98	05-55-0132	Hex Nut	(1)
99	42-30-0026	Stopper Body	(1)
100	-----	Lock Down Pin	(1)
101	-----	O-Ring	(1)
102	05-70-0017	M6 x 16mm Skt. Hd. Sems Hex Recess Cr.	(4)
103	-----	Lock Button	(1)
104	43-72-0042	Hex Key Holder	(1)
105	49-96-0081	8mm Hex Key	(1)
106	31-05-0039	Spark Deflector	(1)
107	05-55-0133	M8 Nylon Lock Nut	(1)
108	45-88-0374	Flat Washer	(1)
109	45-84-0122	Clamp Fence	(1)
111	44-40-0171	Vise Shaft	(1)
112	45-88-0502	Flat Washer	(2)
113	05-55-0134	Release Block	(1)
114	45-84-0013	Screw Bar Assembly	(1)
115	05-70-0018	M8 x 20mm Hex Hd. Sems Screw	(2)
116	06-65-0142	Spring Pin	(1)
117	45-07-0015	Vise Mount	(1)
118	-----	Base	(1)
119	44-52-0097	Rubber Foot	(3)
120	05-55-0136	M10 T-Nut Block	(1)
121	10-20-4536	Warning Label	(1)
130	43-82-0014	Adjustable Scale	(1)
131	05-70-0019	M4 x 5mm Pan Hd. Sems T-20 Screw	(2)
132	-----	Knob Assembly	(1)
140	34-60-0119	Retaining Ring	(1)
153	34-40-0293	O-Ring	(1)
155	45-88-0375	Flat Washer	(1)
156	05-55-0137	Hex Nut	(1)
157	42-76-0153	Sleeve	(1)
302	45-84-0019	Vise Assembly Service Kit	(1)
304	28-50-0071	Upper Arm Assembly Service Kit	(1)
305	45-84-0021	Rear Vise Service Assembly	(1)
306	14-46-0206	Lock Down Service Kit	(1)
308	31-06-0022	Base Assembly	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
33	-----	Upper Arm	(1)
34	14-46-0528	Spindle Lock Service Kit	(1)
35	-----	Spindle Lock Button	(1)
36	-----	Retaining Ring	(1)
37	-----	Spindle Lock Pin	(1)
38	-----	Spindle Lock Spring	(1)
39	-----	Inside Housing	(1)
40	05-74-0091	M3 x 12mm Pan Washer Hd. T-10 Screw	(2)
41	05-74-0092	M5 x 12mm Pan Hd. T-25 Screw	(2)
42	16-01-0108	Rotor Assembly Service Kit	(1)

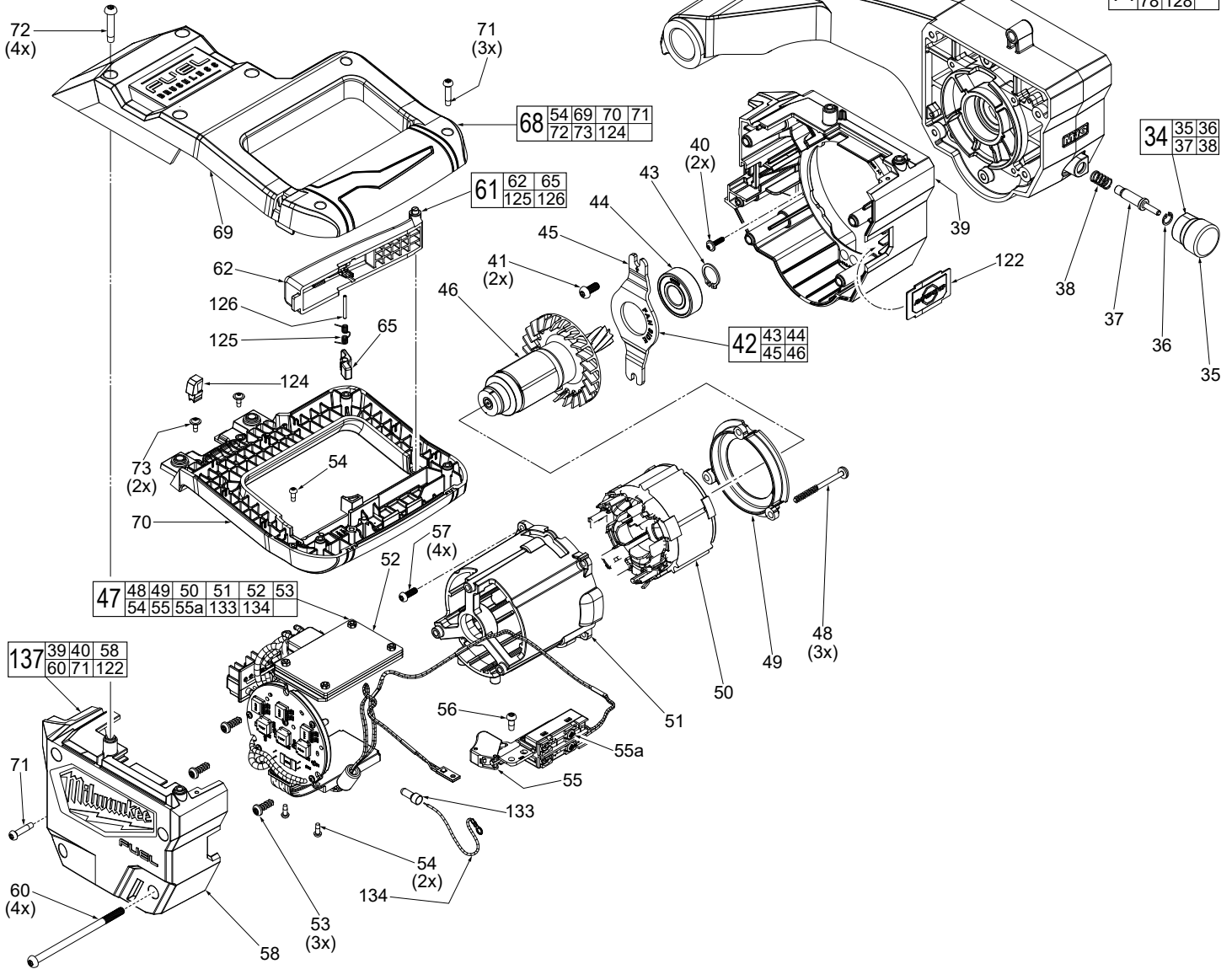


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
43	-----	Retaining Ring	(1)
44	-----	Ball Bearing	(1)
45	-----	Bearing Retainer	(1)
46	-----	Rotor	(1)
47	14-20-0193	Electronics Assembly	(1)
48	-----	K45 x 48mm Pan Hd. PT T-20 Screw	(3)
49	-----	Baffle	(1)
50	-----	Stator	(1)
51	-----	Inner Motor Housing	(1)
52	-----	PCBA	(1)
53	-----	K50 x 14mm Pan Hd. PT T-20 Screw	(3)
54	05-88-0103	M3 x 8mm Pan Hd. ST T-10 Screw	(3)
55	-----	On-Off Switch with Screws	(1)
55a	-----	M3 x 7mm Pan Hd. Phillips Switch Screw	(2)
56	05-88-0107	M4 x 16mm Pan Hd. ST T-20 Screw	(1)
57	05-74-0093	M4 x 12mm Pan Hd. T-20 Mach. Screw	(4)
58	-----	Outside Housing	(1)
60	05-74-0094	M5 x 90mm Pan Hd. T-25 Mach. Screw	(4)
61	31-92-0063	Trigger Paddle Assembly	(1)
62	-----	Trigger Paddle	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
65	-----	Lock Off Lever	(1)
68	31-44-0337	D-Handle Service Kit	(1)
69	-----	D-Handle-Top	(1)
70	-----	D-Handle Bottom	(1)
71	05-81-0464	M4 x 18mm Pan Hd. ST T-20 Screw	(4)
72	05-81-0466	M5 x 26mm Pan Hd. ST T-25 Screw	(4)
73	05-81-0467	M3 x 8mm Pan Washer Hd. ST T-10 Screw	(2)
74	31-44-0338	Carrying Handle Service Kit	(1)
75	-----	Carrying Handle-Left	(1)
76	-----	Carrying Handle-Right	(1)
77	05-74-0096	M5 x 26mm Pan Hd. T-25 Machine Screw	(2)
78	05-55-0131	M5 Hex Nut	(2)
122	-----	Rapid Stop Logo Plate	(1)
124	-----	Feedback LED Lens	(1)
125	-----	Lock-Off Lever Spring	(1)
126	-----	Lock-Off Lever Pin	(1)
128	05-81-0461	M5 x 14mm Pan Hd. ST T-25 Screw	(2)
133	-----	Wire Connector	(1)
134	-----	Ground Wire Assembly	(1)
137	43-76-0080	Inside/Outside Housing Kit	(1)

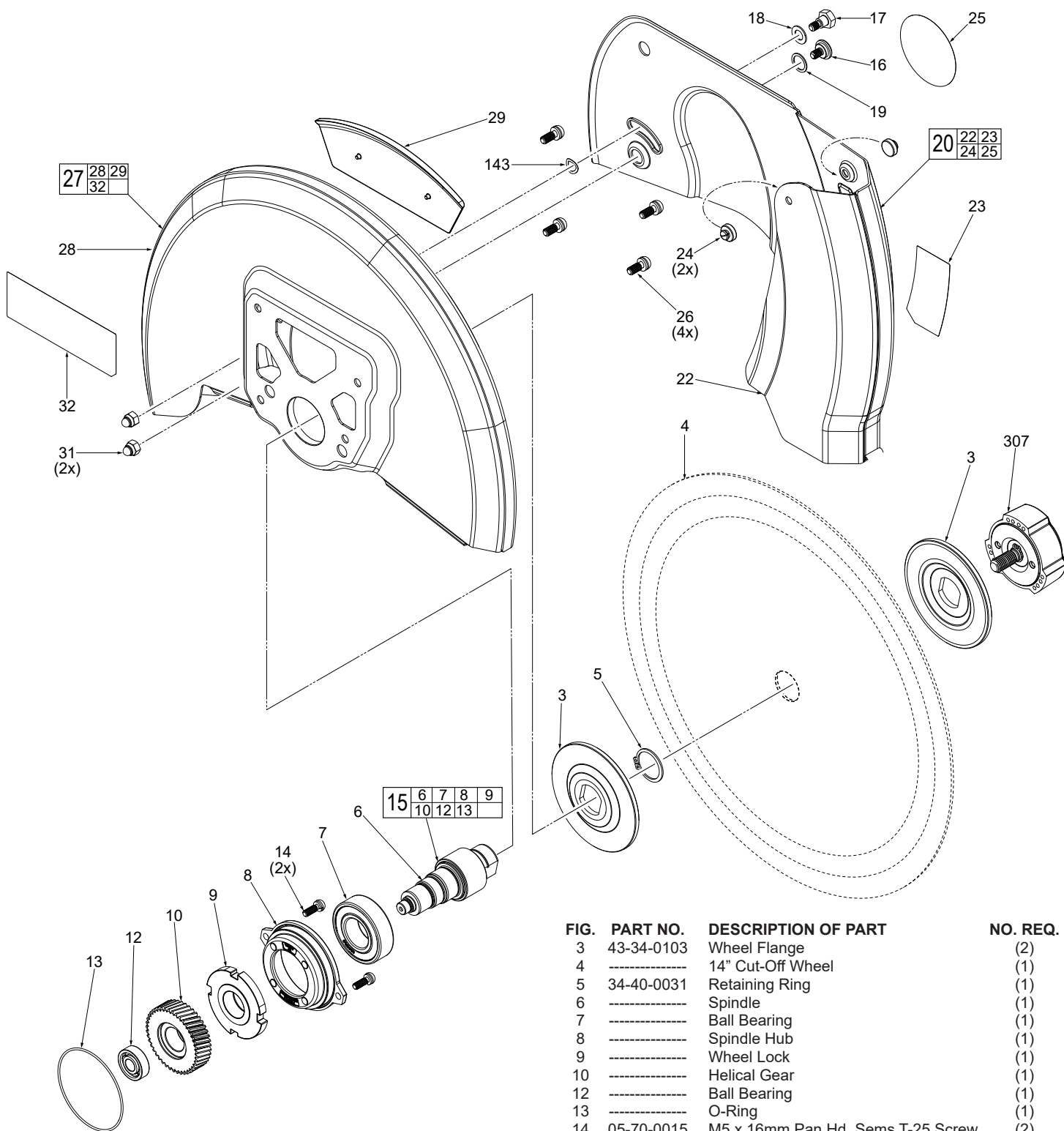
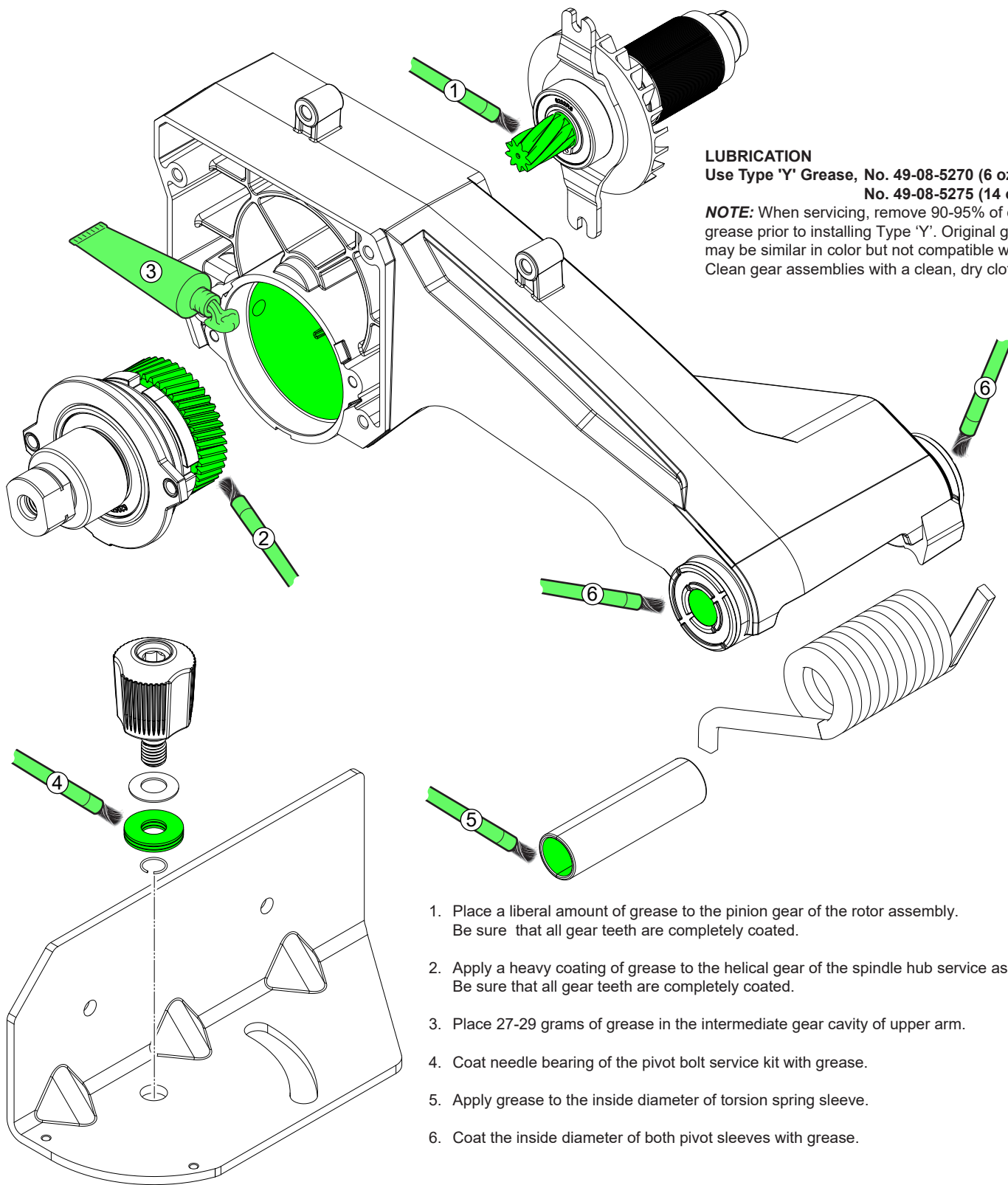


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
3	43-34-0103	Wheel Flange	(2)
4	-----	14" Cut-Off Wheel	(1)
5	34-40-0031	Retaining Ring	(1)
6	-----	Spindle	(1)
7	-----	Ball Bearing	(1)
8	-----	Spindle Hub	(1)
9	-----	Wheel Lock	(1)
10	-----	Helical Gear	(1)
12	-----	Ball Bearing	(1)
13	-----	O-Ring	(1)
14	05-70-0015	M5 x 16mm Pan Hd. Sems T-25 Screw	(2)
15	14-73-0062	Spindle Hub Service Assembly	(1)
16	05-80-0119	M6 Shoulder Screw	(1)
17	05-80-0120	M6 Shoulder Screw	(1)
18	45-88-0261	Paper Washer	(1)
19	45-88-0262	Paper Washer	(1)
20	14-32-0132	Lower Guard Service Kit	(1)
22	-----	Lower Guard	(1)
23	10-20-4538	Lower Guard Label	(1)
24	42-38-0048	Rubber Bumper	(2)
25	10-20-4537	Round Lower Guard Label	(1)
26	05-70-0016	M6 x 16mm Pan Hd. Sems T-30 Screw	(4)
27	14-32-0134	Upper Guard Service Assembly	(1)
28	-----	Upper Guard	(1)
29	-----	Logo Plate	(1)
31	45-80-0081	Nylon Lock Nut	(2)
32	12-20-0236	Service Nameplate	(1)
143	45-88-0462	Wave Washer	(1)
307	44-10-0191	Tool Free Bolt Assembly	(1)



LUBRICATION

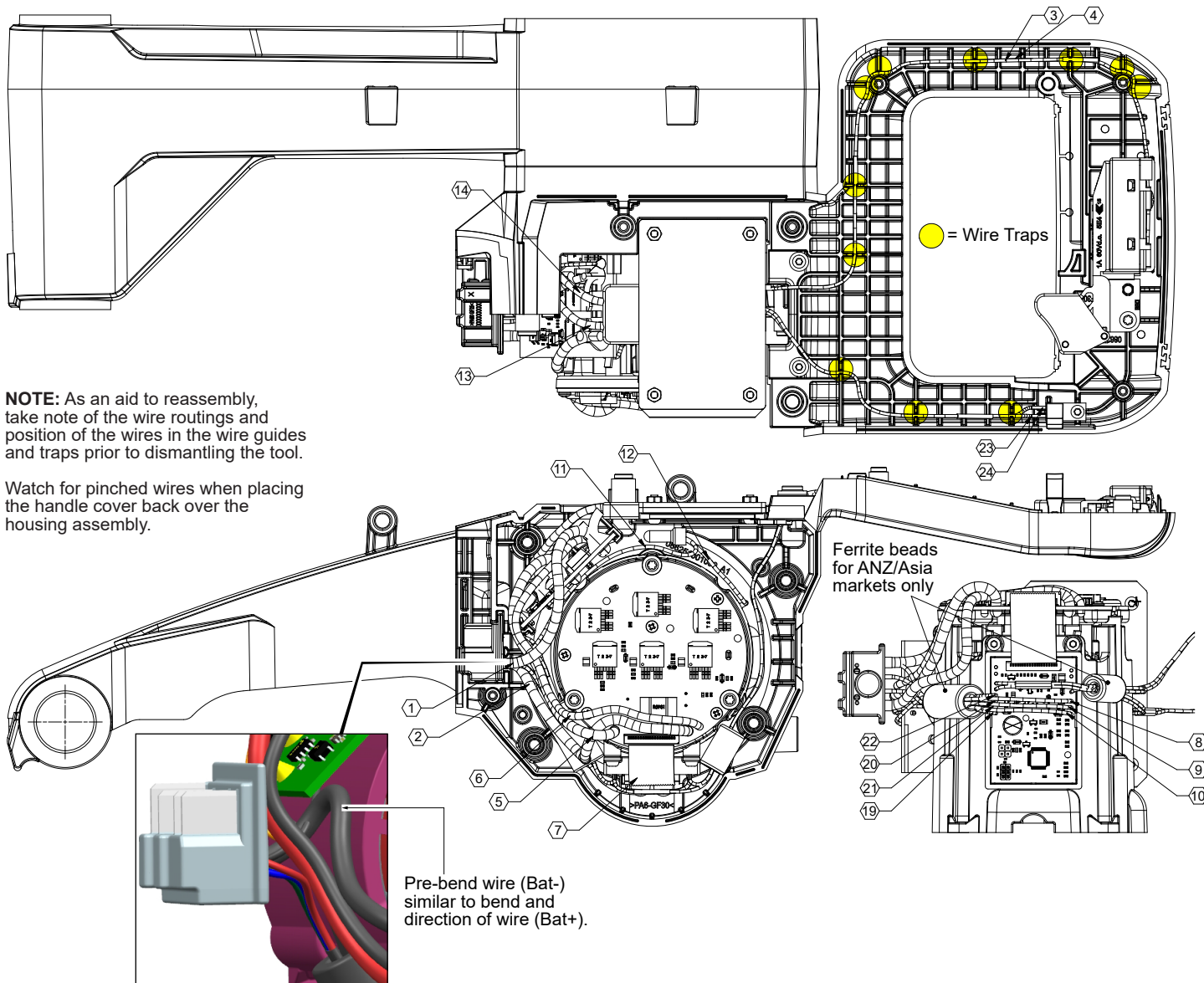
Use Type 'Y' Grease, No. 49-08-5270 (6 oz. tube)
No. 49-08-5275 (14 oz. tub)

NOTE: When servicing, remove 90-95% of existing grease prior to installing Type 'Y'. Original grease may be similar in color but not compatible with 'Y'. Clean gear assemblies with a clean, dry cloth.

1. Place a liberal amount of grease to the pinion gear of the rotor assembly. Be sure that all gear teeth are completely coated.
2. Apply a heavy coating of grease to the helical gear of the spindle hub service assembly. Be sure that all gear teeth are completely coated.
3. Place 27-29 grams of grease in the intermediate gear cavity of upper arm.
4. Coat needle bearing of the pivot bolt service kit with grease.
5. Apply grease to the inside diameter of torsion spring sleeve.
6. Coat the inside diameter of both pivot sleeves with grease.

SCREW TORQUE SPECIFICATIONS

SEAT TORQUE					
FIG.	PART NO.	DESCRIPTION OF FASTENER	WHERE USED	(KG/CM)	(IN/LBS)
Fasteners on Page 1	91	Quick Release Pin	Quick Release Service Kit	23±3	20±2
	98	05-55-0132 Hex Nut	Stopper Body	180±20	156±17
	102	05-70-0017 M6 x 16mm Skt. Hd. Sems Hex Rec.	Base/Stopper Body	70±5	60±4
	103	Lock Button	Lock Down Pin	23±3	20±2
	107	05-55-0133 M8 Nylon Lock Nut	Vise Shaft	180±20	156±17
	115	05-70-0018 M8 x 20mm Hex Hd. Sems Screw	Vise Mount/Base	140±10	121±8
	131	05-70-0019 M4 x 5mm Pan Hd. Sems T-20 Scr.	Rear Vise/Adjustable Scale	26±3	22±2
	132	Knob Assembly	Rear Vise/Base	23±3	20±2
Fasteners on Page 2	156	05-55-0137 Hex Nut	Pivot Shaft	80±5	69±4
	40	05-74-0091 M3 x 12mm Pan Washer Hd. T-10	Inside Housing	9±1	7±1
	41	05-74-0092 M5 x 12mm Pan Hd. T-25 Screw	Bearing Retainer	33±3	28±2
	48	K45 x 48mm Pan Hd. PT T-20 Screw	Baffle/Stator/Inner Motor Housing	25±3	21±2
	53	K50 x 14mm Pan Hd. PT T-20 Screw	PCBA/Inner Motor Housing	14±3	12±2
	54	05-88-0103 M3 x 8mm Pan Hd. ST T-10 Screw	PCBA	7.5±1.5	6.5±1
	55a	M3 x 7mm Pan Hd. PH Switch Scr.	On-Off Switch	10±2	8±1
	56	05-88-0107 M4 x 16mm Pan Hd. ST T-20 Screw	On-Off Switch/D-Handle-Bottom	14±2	12±1
	57	05-74-0093 M4 x 12mm Pan Hd. T-20 Mach. Scr.	Inner Motor Housing	17±3	14±2
	60	05-74-0094 M5 x 90mm Pan Hd. T-25 Mach. Scr.	Outside Housing	23±3	20±2
	71	05-81-0464 M4 x 18mm Pan Hd. ST T-20 Screw	Outside Housing	18±2	15±1
	72	05-81-0466 M5 x 26mm Pan Hd. ST T-25 Screw	D-Handle-Top	35±3	30±2
	73	05-81-0467 M3 x 8mm PWH Hd. ST T-10 Screw	D-Handle-Bottom	3±.25	2.6
	77	05-74-0096 M5 x 26mm Pan Hd. T-25 Mach. Scr.	Carrying Handle	23±3	20±2
Fasteners on Page 3	128	05-81-0461 M5 x 14mm Pan Hd. ST T-25 Screw	Carrying Handle	23±3	20±2
	14	05-70-0015 M5 x 16mm Pan Hd. Sems T-25 Scr.	Spindle Hub	40±3	34±2
	16	05-80-0119 M6 Shoulder Screw	Lower Guard	40±3	34±2
	17	05-80-0120 M6 Shoulder Screw	Lower Guard	40±3	34±2
	26	05-70-0016 M6 x 16mm Pan Hd. Sems T-30 Scr.	Upper Guard	80±5	69±4
Red denotes critical torque value					



WIRING SPECIFICATIONS

Wire No.	Wire Color	Origin or Gauge	Length	Wire Origin Designator
1	Red	AWG10	-----	Battery Terminal Block to SSD Board
2	Black	AWG10	-----	Battery Terminal Block to Power Board
3	Yellow	AWG26	-----	Switch to Control Board
4	Yellow	AWG26	-----	Switch to Control Board
5	Red	AWG10	-----	SSD Board to Power Board
6	Black	AWG14	-----	SSD Board to Power Board
7	White	Ribbon Cable	-----	Control Board to Power Board
8	Red	AWG24	-----	Battery Terminal Block to Control Board
9	Blue	AWG24	-----	Battery Terminal Block to Control Board
10	Green	AWG24	-----	Battery Terminal Block to Control Board
11	Black	AWG24	-----	Battery Terminal Block to Close End Connector
12	Black	AWG24	-----	Upper Arm to Close End Connector
13	Red	AWG14	-----	SSD Board to Resistor
14	White	AWG14	-----	SSD Board to Resistor
19	Red	AWG26	-----	Control Board to SSD Board
20	Black	AWG26	-----	Control Board to SSD Board
21	Yellow	AWG26	-----	Control Board to SSD Board
22	Orange	AWG26	-----	Control Board to SSD Board
23	Red	AWG26	-----	Performance LED Board to Control Board
24	Black	AWG26	-----	Performance LED Board to Control Board