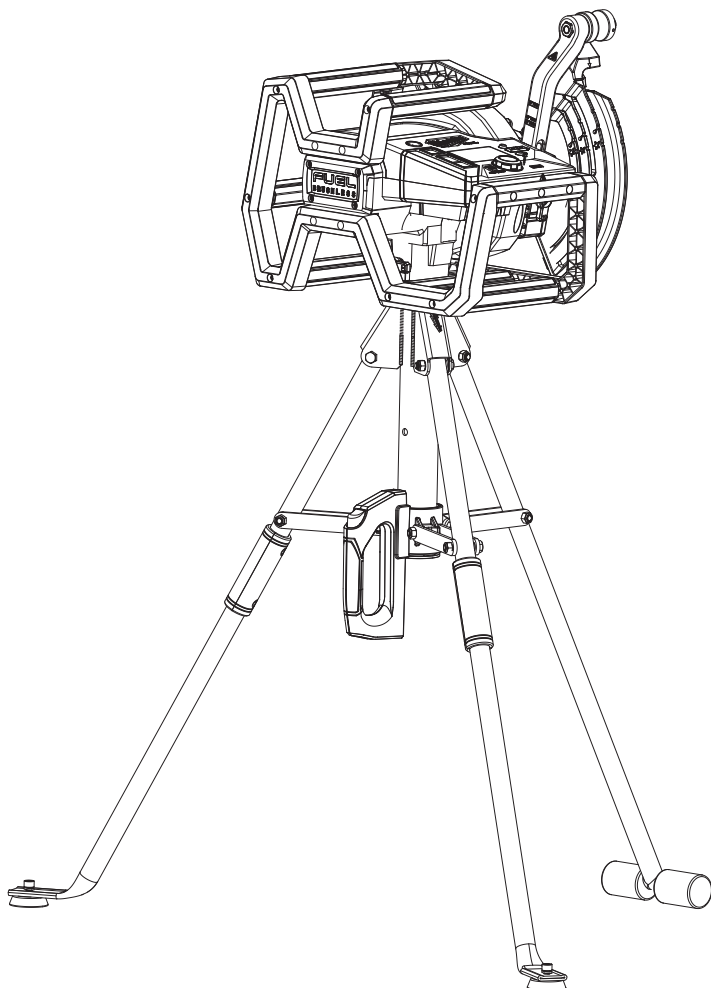




SERVICE PARTS LIST

BULLETIN NO.
PN0013065

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18 FUEL™ Branch Conduit Bender			Sept. 2025
CATALOG NO. 5150-20	SERIAL NO. R10A	WIRING INSTRUCTION See Page 5	



EXTERNAL / PCBA	PAGE 2
INTERNAL / GEAR ASSEMBLIES	PAGE 3
STAND ASSEMBLY	PAGE 4
WIRING SPECS	PAGE 5
LUBRICATION SPECS	PAGE 6
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Only maintenance, service, repairs, and replacements of parts as defined in the Operator's Manual can be performed by the user. All other repairs are to ONLY be performed by personnel authorized by MILWAUKEE TOOL. Do not attempt to install other parts; this COULD void your tool warranty.

For service, parts, or inquiries, contact us:

- Customer Service at 1.800.SAWDUST (1.800.729.3878)
- E-Service tool repair at: www.milwaukeetool.com/e-service
- Find a local authorized MILWAUKEE service location at Milwaukeetool.com
- Find a MILWAUKEE *factory* Service Center Location or MILWAUKEE *factory* Central Repair Center at Milwaukeetool.com. Send the following, prepaid and insured:
 - Your name, address, and phone number
 - Description of the issues
 - Copy of the proof of purchase
 - Tool, charger, and batteries involved with the issues

MILWAUKEE *factory* Central Repair Centers:

MILWAUKEE TOOL
Central Repair
1401 Sycamore Avenue
Greenwood, MS 38930

MILWAUKEE TOOL
Central Repair
2198 Southtech Drive
Greenwood, IN 46143

EXPLODED VIEW – EXTERNAL / PCBA

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

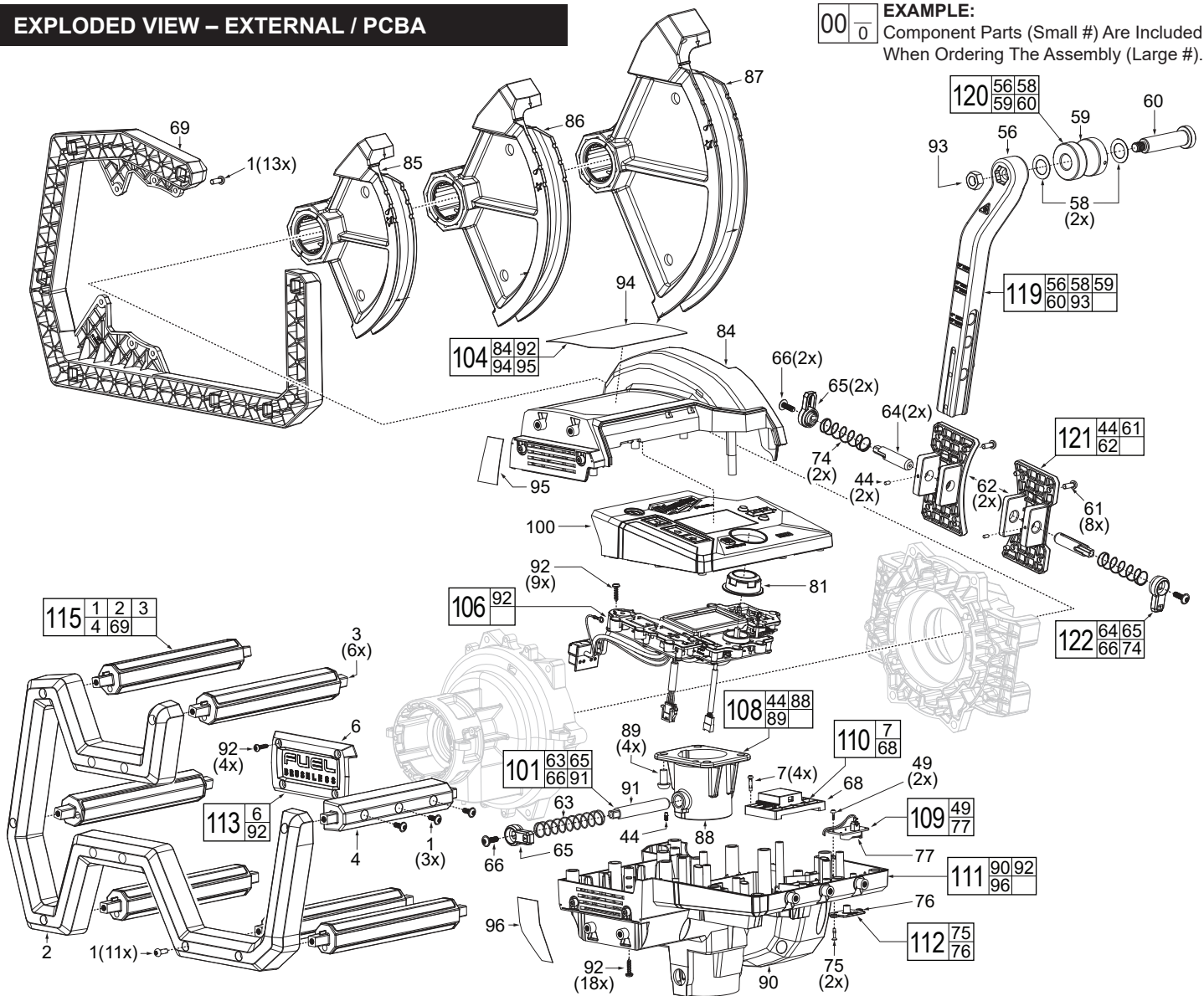


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-78-0032	M5 x 13mm Pan Hd. T-25 Screw	(27)	84	-----	Housing Cover	(1)
2	-----	Left Roll Cage	(1)	85	49-16-0012	1/2" EMT Shoe (Accessory)	(1)
3	-----	Roll Cage Handle	(6)	86	49-16-0034	3/4" EMT Shoe (Accessory)	(1)
4	-----	Roll Cage Front Cross Bar	(1)	87	49-16-0001	1" EMT Shoe (Accessory)	(1)
6	-----	Brushless Logo	(1)	88	-----	Stand Mount	(1)
7	06-82-1080	M3 x 14mm Pan Hd. T-10 Screw	(4)	89	05-74-0241	M8 x 16mm Pan Hd. T-40 Screw	(4)
44	-----	Half Knurling Pin	(3)	90	-----	Housing Support	(1)
49	05-88-0089	M3 x 8mm Pan Hd. T-10 Screw	(2)	91	-----	Stand Pin	(1)
56	-----	Back Former Support	(1)	92	06-82-9220	M4 x 16mm Pan Hd. T-20 Screw	(31)
58	-----	Washer	(2)	93	-----	Back Former Nut	(1)
59	-----	Back Former Roller	(1)	94	12-20-1922	Service Nameplate	(1)
60	-----	Back Former Shoulder Bolt	(1)	95	10-22-1986	Warning Label	(1)
61	05-74-1088	M5 x 14mm Pan Hd. T-25 Screw	(8)	96	10-22-1987	Warning Label	(1)
62	-----	Support Arm Cover	(2)	100	42-92-0083	UI Cover Assembly	(1)
63	-----	Stand Pin Spring	(3)	101	44-60-5150	Stand Pin Kit	(1)
64	-----	Support Arm Pin	(2)	104	42-92-5150	Housing Cover Kit	(1)
65	-----	1/4-Turn Pin Cap	(3)	106	14-20-5150	PCBA Assembly	(1)
66	-----	M5 x 16mm PWH T-25 Screw	(3)	108	42-92-0112	Stand Mount Assembly	(1)
68	-----	Battery Terminal Cover	(1)	109	14-20-1019	Coin Cell Board Kit	(1)
69	-----	Right Roll Cage	(1)	110	14-46-0912	Terminal Cover Kit	(1)
73	-----	Coin Cell Battery (CR2032) - See local hardware store	(1)	111	31-44-0504	Housing Support Kit	(1)
74	-----	Support Arm Spring	(2)	112	42-92-5150	Coin Cell Cover Kit	(1)
75	05-80-0433	M2.6 x 12mm Flat Hd. Phillips Screw	(2)	113	14-46-0913	Brushless Logo Kit	(1)
76	-----	Coin Cell Cover	(1)	115	14-46-0915	Roll Cage Handle Kit	(1)
77	-----	Coin Cell Board	(1)	119	14-46-0918	Back Former Assembly	(1)
78	-----	Motor Wire Assembly (Not Shown)	(1)	120	14-46-0919	Back Former Roller Kit	(1)
81	14-00-0071	Dial	(1)	121	14-46-0920	Support Arm Cover Assembly	(1)
				122	14-46-0921	Support Arm Pin Kit	(1)

EXPLODED VIEW – INTERNAL / GEARS

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

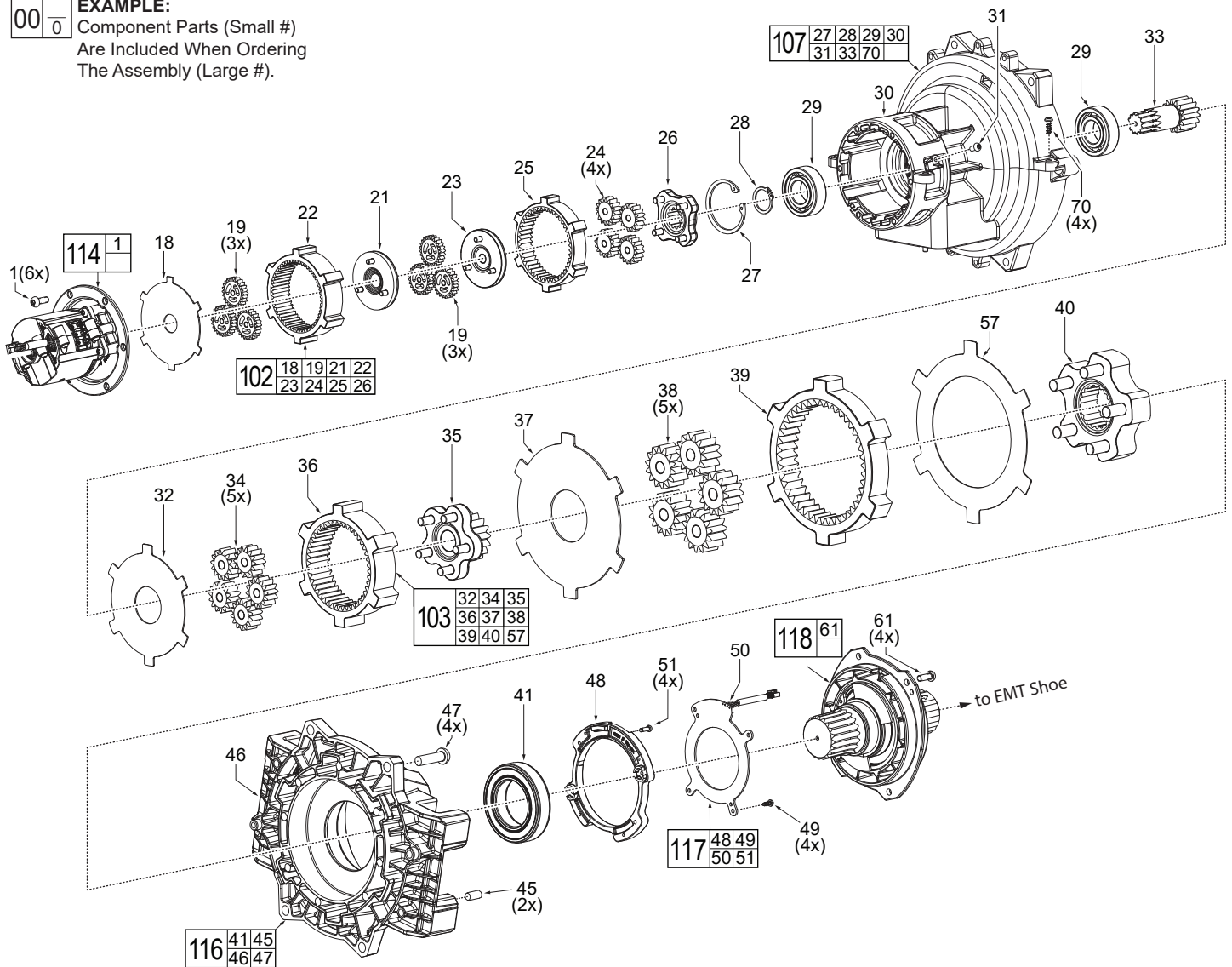


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-78-0032	M5 x 13mm Pan Hd. T-25 Screw	(6)
18	-----	1st Washer	(1)
19	-----	1st & 2nd Planet Gears	(6)
21	-----	2nd Sun Gear	(1)
22	-----	1st & 2nd Ring Gear	(1)
23	-----	3rd Sun Gear	(1)
24	-----	3rd Planet Gear	(4)
25	-----	3rd Ring Gear	(1)
26	-----	3rd Carrier	(1)
27	-----	Snap Ring	(1)
28	-----	External Retaining Ring	(1)
29	-----	Ball Bearing	(2)
30	-----	Gearcase	(1)
31	05-81-0166	M4 x 7mm Pan Hd T-20 Screw	(1)
32	-----	4th Washer	(1)
33	-----	Alignment Shaft	(1)
34	-----	4th Planet Gear	(5)
35	-----	5th Sun Gear	(1)
36	-----	4th Ring Gear	(1)
37	-----	5th Washer	(1)
38	-----	5th Planet Gear	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
39	-----	5th Ring Gear	(1)
40	-----	5th Carrier	(1)
41	-----	Output Shaft Bottom Bearing	(1)
45	-----	1/4"-20 Ball Plunger	(2)
46	-----	Gearcase Top Cover	(1)
47	05-74-1087	M8 x 28mm Pan Hd. T-40 Screw	(4)
48	-----	ZMID Mount	(1)
49	05-88-0089	M3 x 8mm Pan Hd. T-10 Screw	(1)
50	-----	ZMID Board	(1)
51	-----	M3 x 9.5mm Pan Hd. T-10 Screw	(4)
57	-----	Grease Baffle Washer	(1)
61	05-74-1088	M5 x 0.8 x 14mm Pan Hd. T-25 Screw	(4)
70	05-74-1089	M5 x 1.588 x 14mm Pan Hd. T-25 Screw	(4)
102	14-46-0910	Input Gear Stages Kit	(1)
103	14-46-0911	Output Gear Stages Kit	(1)
107	14-29-0004	Gearcase Assembly	(1)
114	14-46-0914	Motor Assembly	(1)
116	14-29-0006	Gearcase Top Cover Assembly	(1)
117	14-46-0916	ZMID Mount Kit	(1)
118	14-46-0917	Output Shaft Assembly	(1)

EXPLODED VIEW – STAND

00 0

EXAMPLE:

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

***Conduit Bender Stand Assembly
14-46-0927 consists of all parts
shown below.**

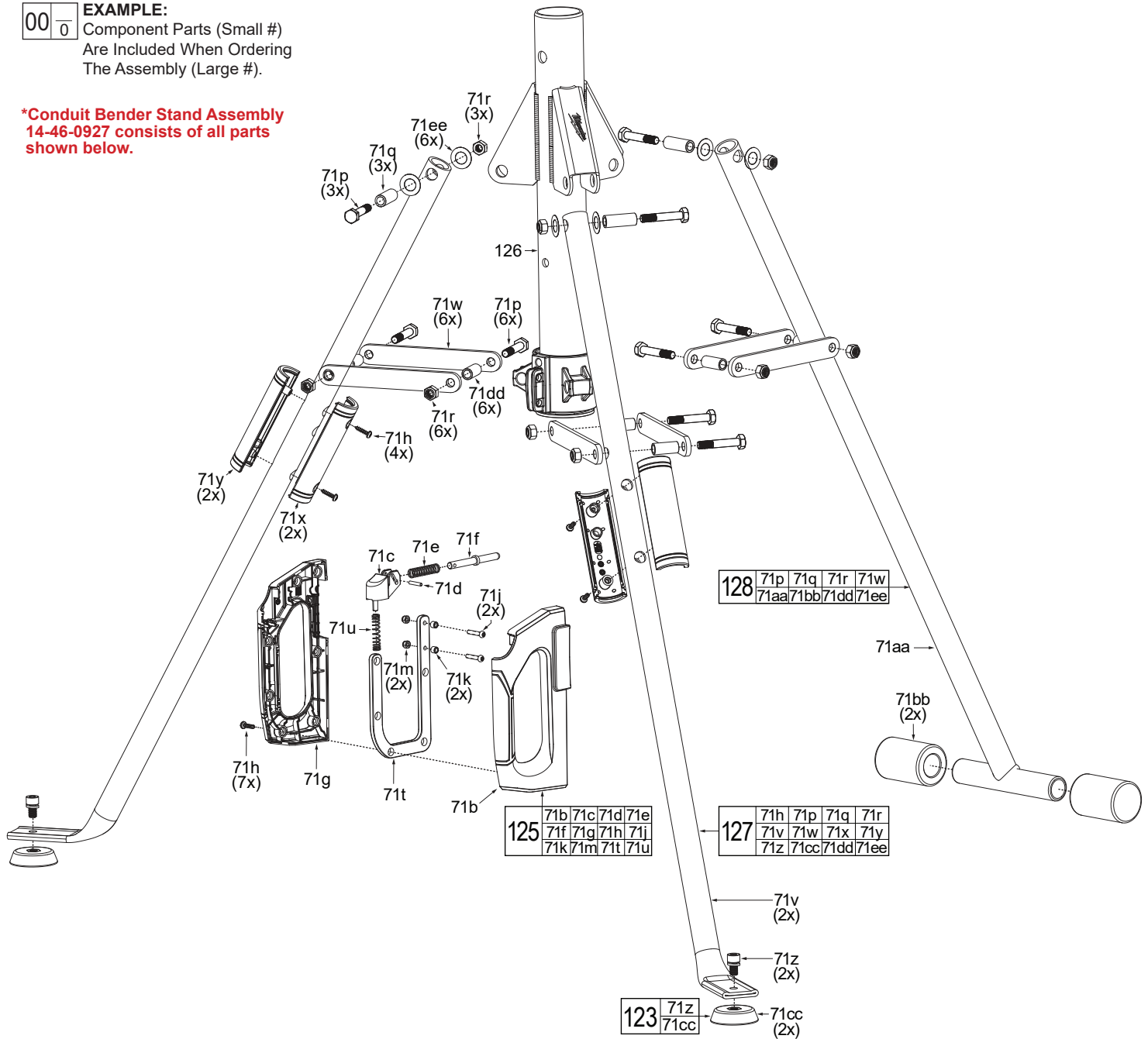
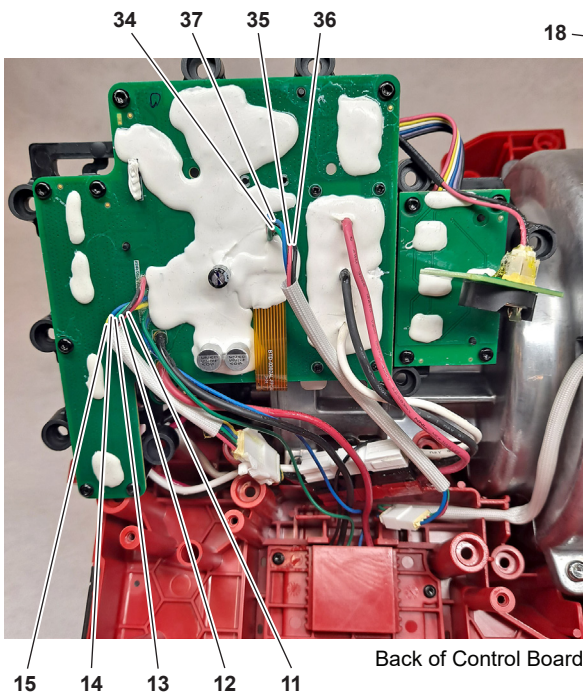
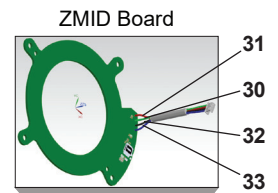
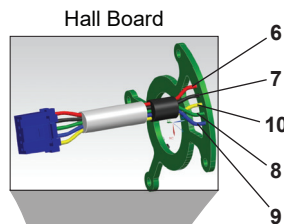


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
71b	-----	Handle Support	(1)	71w	42-40-0009	Links	(6)
71c	-----	Release Button	(1)	71x	42-40-0028	Stand Leg Grip Cover	(2)
71d	-----	Release Button Pin	(1)	71y	42-40-0029	Stand Leg Grip Support	(2)
71e	-----	Button Pin Spring	(1)	71z	-----	Rubber Foot Pin	(2)
71f	-----	Connecting Rob Pin	(1)	71aa	-----	Tee Leg Tube	(1)
71g	-----	Handle Cover	(1)	71bb	42-38-5150	Rubber Foot	(2)
71h	05-74-0247	M4 x 16mm T-20 Screw	(11)	71cc	-----	Pad Assembly	(2)
71j	-----	M4 x 20mm Pan Hd. T-20 Screw	(2)	71dd	42-40-0033	Linkage Bush	(6)
71k	-----	Hook Bushing	(2)	71ee	42-40-0034	Bushing Washer	(6)
71m	-----	M4 x 5mm Hex Nut	(2)	123	14-46-0922	Pad Kit	(1)
71p	42-40-0007	M8 x 45mm Hex Screw	(9)	125	14-46-0923	Stand Handle Kit	(1)
71q	42-40-0008	Bracket Bush	(3)	126	42-92-0142	Center Column Assembly	(1)
71r	-----	M8 x 8mm Hex Nut	(9)	127	14-46-0928	Padded Leg Tube Assembly	(1)
71t	-----	Tabbed Hook	(1)	128	14-46-0925	Tee Leg Tube Assembly	(1)
71u	-----	Release Button Spring	(1)	*	14-46-0927	Conduit Bender Stand Assembly	(1)
71v	-----	Padded Leg Tube	(2)				

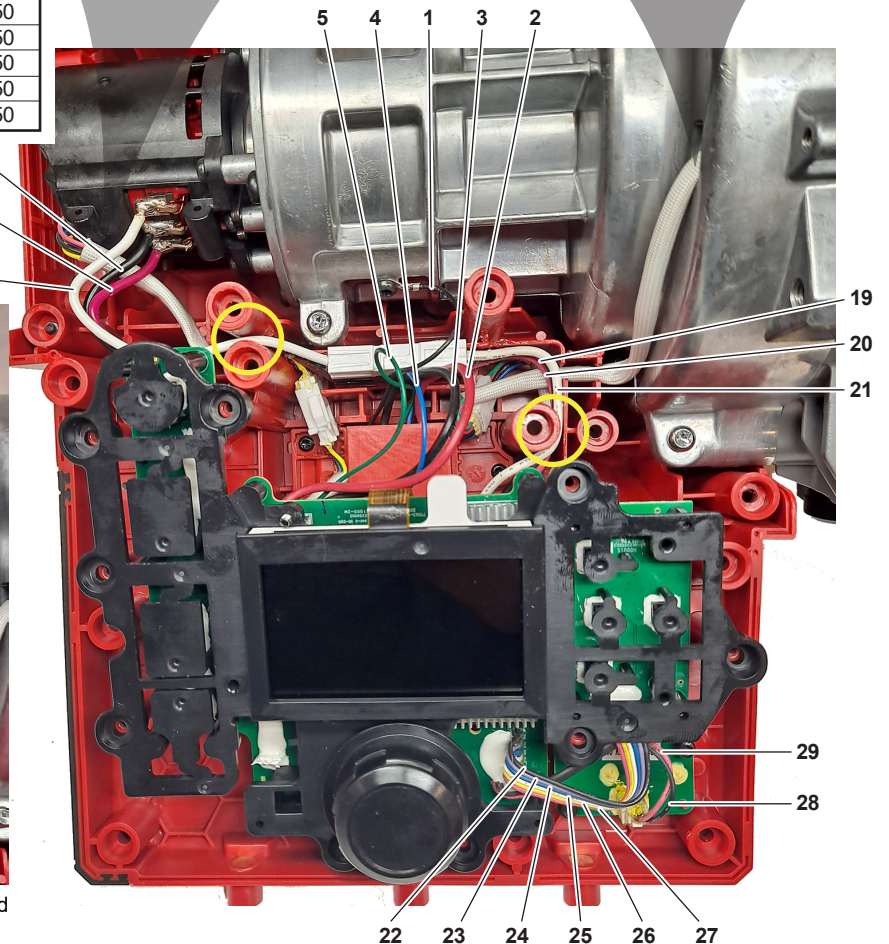
WIRING

Wire No.	Destination (From-To)	Wire Color	Length (mm)
1	Ground Wire	Black	100
2	Main Board to Terminal Block	Red	150
3	Main Board to Terminal Block	Black	150
4	Main Board to Battery Terminal	Blue	160
5	Main Board to Battery Terminal	Green	160
6	Hall Board to Control Board Connector	Red	110
7	Hall Board to Control Board Connector	Black	110
8	Hall Board to Control Board Connector	Green	110
9	Hall Board to Control Board Connector	Blue	110
10	Hall Board to Control Board Connector	Yellow	110
11	Control Board to Hall Board Connector	Red	80
12	Control Board to Hall Board Connector	Black	80
13	Control Board to Hall Board Connector	Green	80
14	Control Board to Hall Board Connector	Blue	80
15	Control Board to Hall Board Connector	Yellow	80
16	Motor to Control Board Connector	Black	115
17	Motor to Control Board Connector	Red	115
18	Motor to Control Board Connector	White	115
19	Control Board to Motor Connector	Black	115
20	Control Board to Motor Connector	Red	125
21	Control Board to Motor Connector	White	105
22	Control Board to Select Board	Black	75
23	Control Board to Select Board	Purple	75
24	Control Board to Select Board	Blue	75
25	Control Board to Select Board	White	75
26	Control Board to Select Board	Yellow	75
27	Control Board to Select Board	Red	75
28	Control Board to Coin Cell Board	Black	75
29	Control Board to Coin Cell Board	Red	75
30	ZMID Board to Control Board Connector	Green	250
31	ZMID Board to Control Board Connector	Red	250
32	ZMID Board to Control Board Connector	Black	250
33	ZMID Board to Control Board Connector	Blue	250
34	Control Board to ZMID Connector	Green	150
35	Control Board to ZMID Connector	Red	150
36	Control Board to ZMID Connector	Black	150
37	Control Board to ZMID Connector	Blue	150

- 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 (see areas circled in yellow below).
- Prior to securing the housing cover onto the housing support, be sure that there are no interferences.



Back of Control Board



LUBRICATION

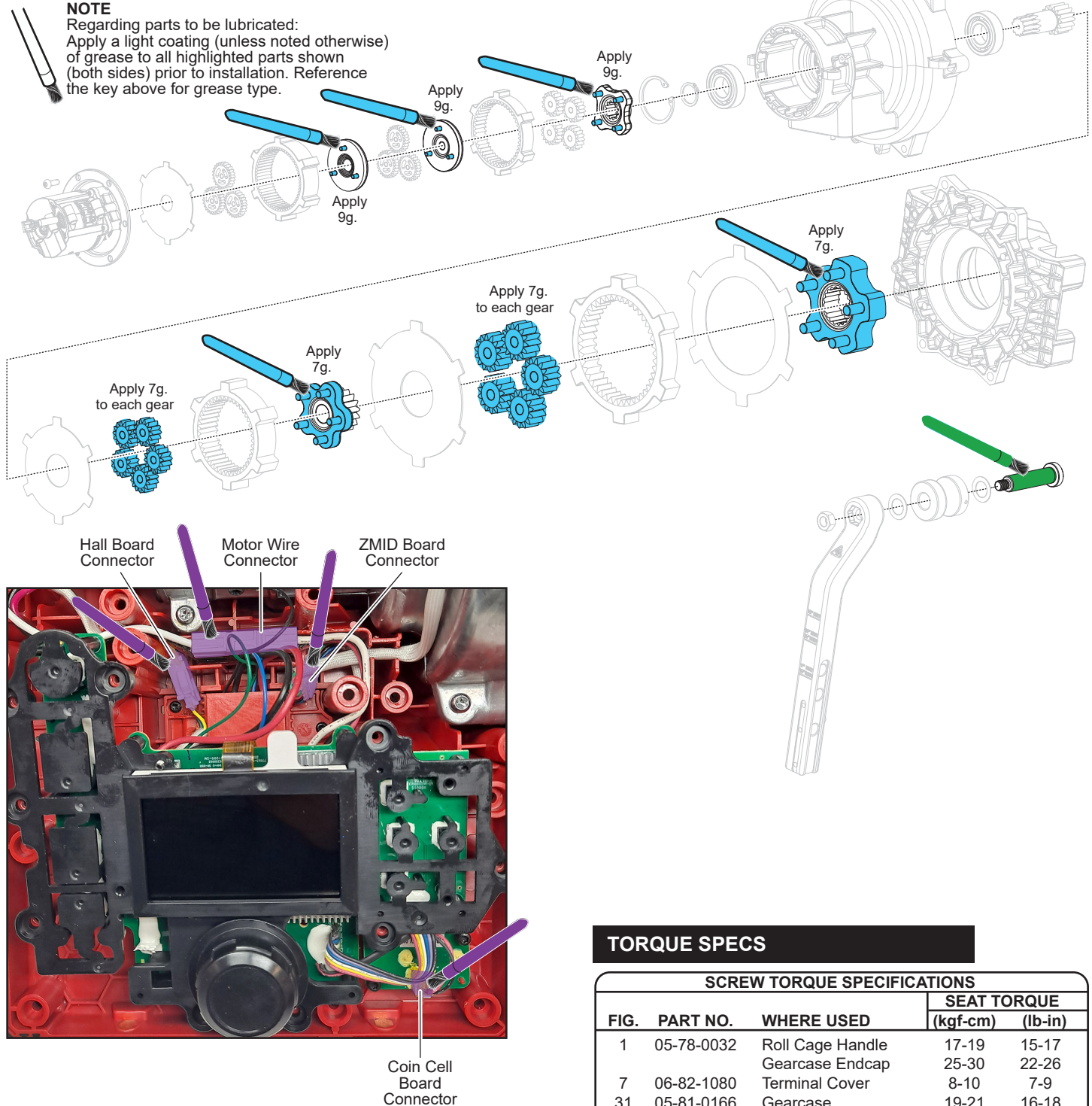
● = Type "J" Grease, 49-08-4220

● = Type "T" Grease, 49-08-4290

● = V102 Dielectric Grease

NOTE

Regarding parts to be lubricated:
Apply a light coating (unless noted otherwise)
of grease to all highlighted parts shown
(both sides) prior to installation. Reference
the key above for grease type.



TORQUE SPECS

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	WHERE USED	SEAT TORQUE	
			(kgf-cm)	(lb-in)
1	05-78-0032	Roll Cage Handle	17-19	15-17
		Gearcase Endcap	25-30	22-26
7	06-82-1080	Terminal Cover	8-10	7-9
31	05-81-0166	Gearcase	19-21	16-18
47	05-74-1087	Gearcase Cover	90-100	78-87
49	05-88-0089	Coin Cell Board	4.5-6.5	3.9-5.6
51	-----	Zmid Mount	4.5-6.5	3.9-5.6
60	-----	Back Former	408-509	354-442
61	05-74-1088	Support Arm Cover	25-30	22-26
66	-----	Support Arm Pin	25-30	22-26
70	05-74-1089	Gearcase	15-18	13-16
75	05-80-0433	Coin Cell Cover	2.5-3.5	2.2-3.0
89	05-74-0241	Stand Mount Assembly	70-75	61-65
92	06-82-9220	Housing Support	12-14	10-12