



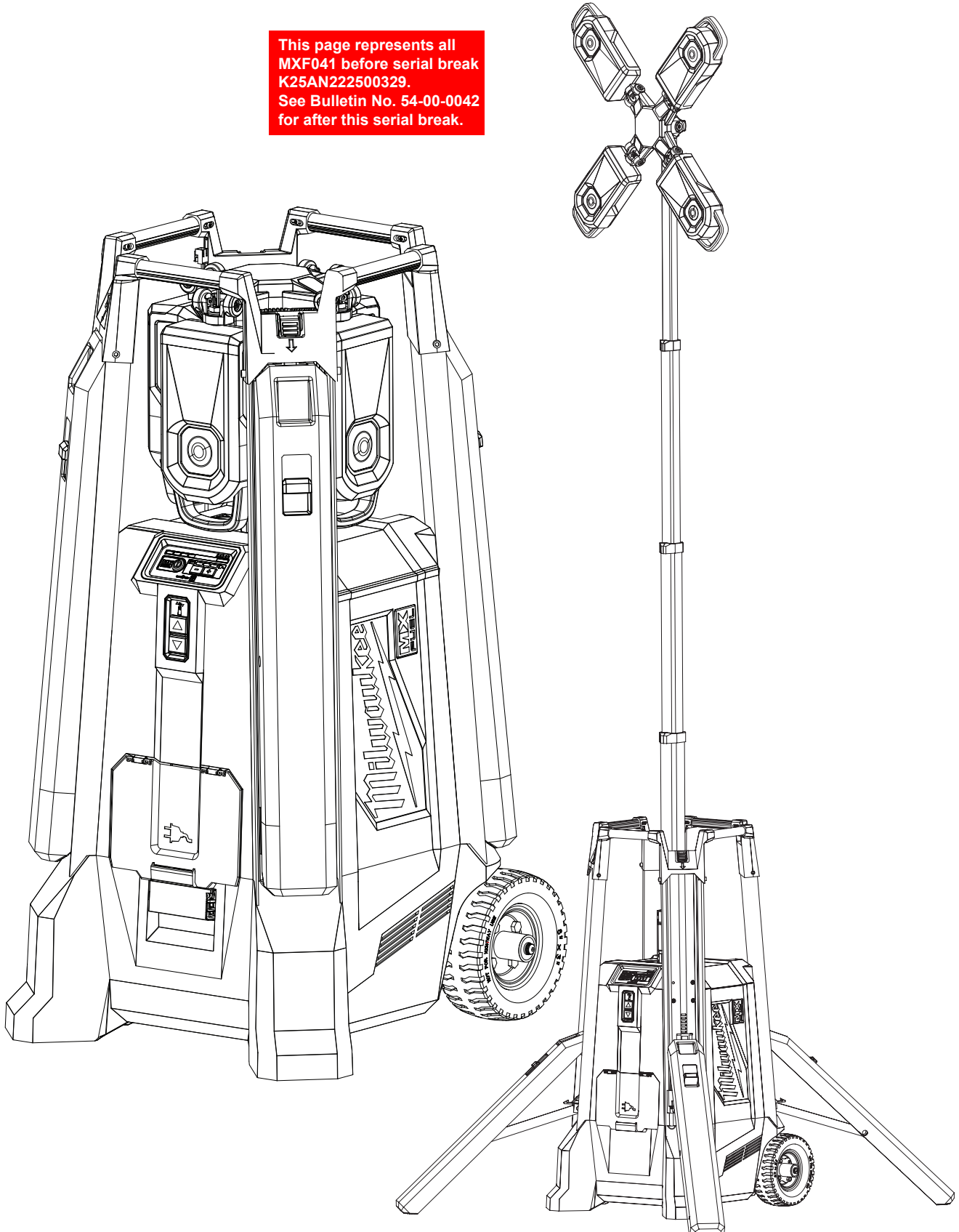
SERVICE PARTS LIST

BULLETIN NO.

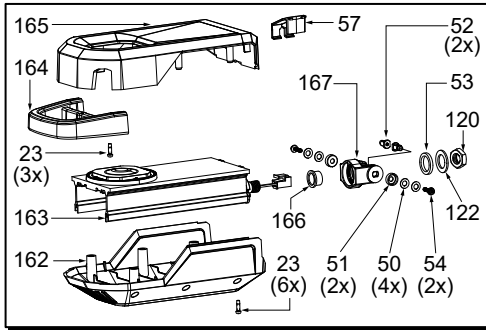
54-00-0041

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS			REVISED BULLETIN	DATE
MX FUEL Site Light				Feb. 2023
CATALOG NO.	MXF041	STARTING SERIAL NO.	WIRING INSTRUCTION	
		K25A	See Pages 6 thru 12	

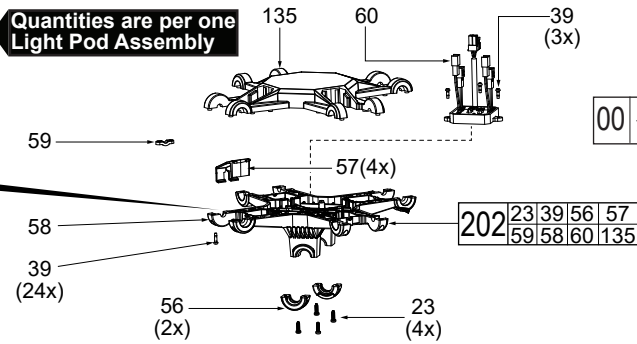
This page represents all
MXF041 before serial break
K25AN222500329.
See Bulletin No. 54-00-0042
for after this serial break.



207	23	50	51	52	53	54	57	120
	122	162	163	164	165	166	167	

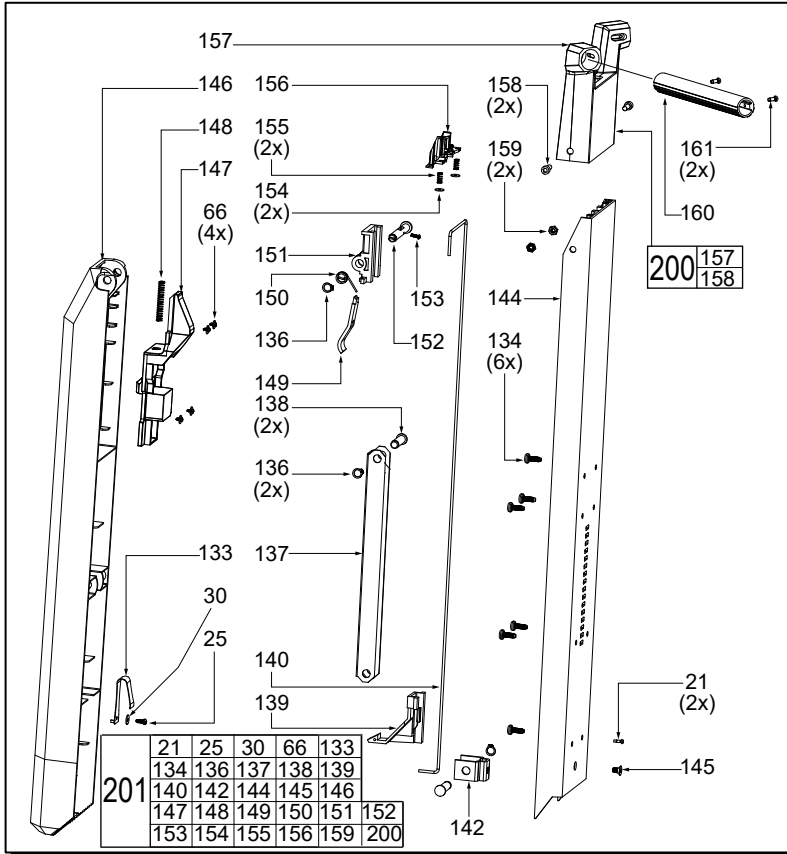


Quantities are per one Light Pod Assembly



00
0

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



Quantities are per one Outrigger Assembly

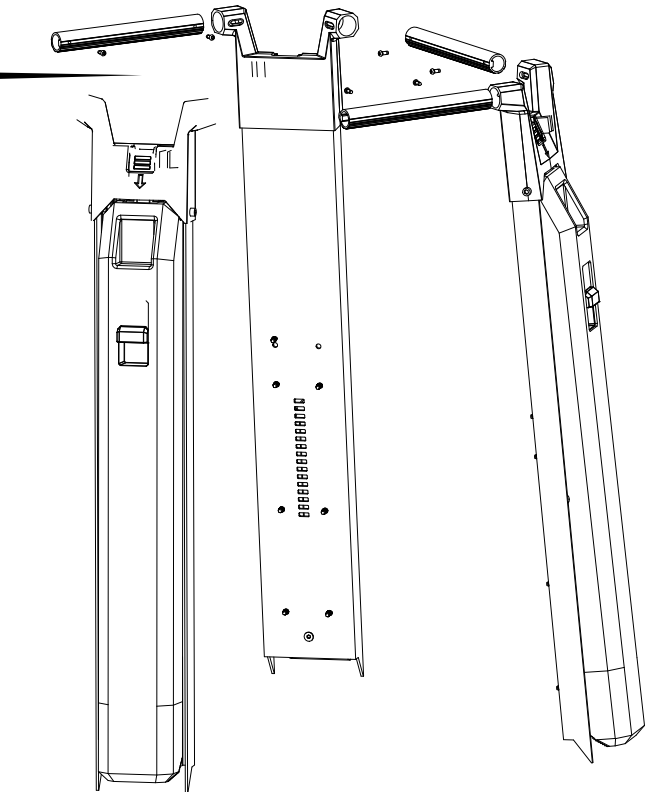


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
21	05-74-0172	M6 Thread Forming Flange Screw	(2)	145	05-74-0171	M6 x 10mm Flat Hd. Hex Recess Screw	(1)
23	06-82-8895	M4 x 14mm Pan Hd. ST T-20 Screw	(13)	146	-----	Leg	(1)
25	05-81-0168	M4 x 25mm Pan Hd. ST T-20 Screw	(1)	147	-----	Release Button	(1)
30	45-88-0237	Flat Washer	(1)	148	-----	Spring	(1)
39	06-82-1087	M3 x 12mm Pan Hd. ST T-10 Screw	(27)	149	-----	Latch Plate	(1)
50	45-88-0238	Bellville Washer	(4)	150	40-50-0078	Torsion Spring	(1)
51	45-88-0122	Cup Washer	(2)	151	-----	Slide Block	(1)
52	05-59-0019	Sleeve Nut	(2)	152	-----	Slide Block Pin	(1)
53	34-40-0173	Silicone Rubber Ring	(1)	153	05-83-0015	M3 x 10mm Pan Hd. Hex Recess Screw	(1)
54	05-74-0157	M4 x 16mm Hex Socket Screw	(2)	154	06-82-2980	Flat Washer	(2)
56	-----	Carriage Cap	(2)	155	40-50-9210	Compression Spring	(2)
57	31-12-0014	Carriage Connector Cap	(4)	156	42-42-0024	Outrigger Release Button	(1)
58	-----	Carriage Bottom	(1)	157	28-10-0010	Handle Mount	(1)
59	44-76-0036	Light Wire Strain Relief	(1)	158	45-04-1090	M6 x 16mm Cap Hd. Hex Recess Screw	(2)
60	14-20-0069	Breakout PCBA Assembly	(1)	159	05-55-2028	M6 Hex Nut	(2)
120	05-55-0112	Jam Nut	(1)	160	45-76-0024	Handle Tube	(1)
122	45-88-0158	Flat Washer	(1)	161	05-78-0105	M4 x 10mm Pan Hd. Taptite T-20 Screw	(2)
133	40-50-0267	Spring Plate	(1)	162	-----	Housing	(1)
134	05-74-1075	M6 x 16mm Pan Hd. Taptite Torx Screw	(6)	163	-----	Light Engine	(1)
135	-----	Carriage Top	(1)	164	-----	Light Rod Handle	(1)
136	34-60-7083	Retaining Ring	(3)	165	-----	Bezel	(1)
137	44-14-0020	Outrigger Linkage	(1)	166	45-88-0126	Sleeve Washer	(1)
138	44-60-7050	Linkage Pin	(2)	167	-----	Light Head Pivot Knuckle	(1)
139	44-20-0056	Outrigger Latch	(1)	200	14-34-0110	Handle Service Kit	(1)
140	44-94-0007	Push Rod	(1)	201	45-72-0006	Outrigger Service Kit (Pre-assembled)	(1)
142	44-34-0019	Outrigger Linkage Mount	(1)	202	43-72-0038	Carriage Service Kit	(1)
144	42-78-0010	Outrigger Track	(1)	207	14-46-0209	Light Pod Assembly (Set of 1)	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
14	-----	Housing Panel Clip	(4)
23	06-82-8895	M4 x 14mm Pan Hd. ST T-20 Screw	(8)
31	05-81-1285	M4 x 10mm Pan Hd. T-20 ST Screw	(12)
87	-----	Mast Mounting Bracket Cap	(1)
88	-----	Mast Mounting Bracket Base	(1)
89	05-77-0040	M6 x 25mm Cap Hd. Hex Recess Bolt	(8)
90	-----	Top Panel	(1)
91	31-10-0015	Extension Cable	(1)
92	34-60-7082	Retaining Ring	(1)
93	02-04-0017	Sleeve Bearing	(1)
94	42-76-2000	Extension Cable Connector	(1)
95	05-81-1283	M3 x 11mm Taptite Screw	(8)
96	42-44-0016	Sewer Cable	(1)
100	66-51-0015	Spring Cable	(1)
101	-----	Sleeve-Pole 1	(1)
102	-----	Sleeve-Pole 2	(1)
103	-----	Sleeve-Pole 3	(1)
104	-----	Sleeve-Pole 4	(1)
105	42-76-0021	Left Housing Collar	(1)
106	-----	Pole 5	(1)
107	42-76-0033	Right Housing Collar	(1)
108	42-76-0032	Collar, Left, Pole 4	(1)
109	-----	Pole 4	(1)
110	42-76-0038	Collar, Right, Pole 4	(1)
111	42-76-0031	Collar, Left, Pole 3	(1)
112	-----	Pole 3	(1)
113	42-76-0036	Collar, Right, Pole 3	(1)
114	42-76-0023	Collar, Left, Pole 2	(1)
115	-----	Pole 2	(1)
116	42-76-0034	Collar, Right, Pole 2	(1)
117	28-12-0010	Mast Top Cap	(1)
118	-----	Pole 1	(1)
119	05-83-0018	Hex Recess Shoulder Bolt	(1)
120	05-55-0112	Jam Nut	(2)
121	45-88-0117	Washer 2	(1)
122	45-88-0158	Washer 3	(1)
123	45-88-0116	Washer 1	(1)
124	45-88-8979	Knob Washer	(1)
125	06-75-3050	1/4-20 x 18mm Hex Recess Mach. Screw	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
126	-----	Carriage Adjuster Knob	(1)
127	-----	Carriage Adjuster Knob Bolt	(1)
128	45-88-8974	M10 Washer	(4)
129	45-88-8977	M10 Belleville Washer	(3)
130	34-60-7084	Retaining Clip	(1)
131	-----	Rotation Cap	(1)
132	45-88-0128	Shoulder Stud	(1)
141	45-88-0124	Sleeved Washer	(1)
143	45-88-2218	M16 Belleville Washer	(1)
203	14-50-0024	Rotation Cap Service Kit	(1)
204	42-92-0079	Top Panel Service Kit	(1)
205	14-50-0037	Rotation Cap Hardware Service Kit	(1)
206	42-78-0025	Pole Service Kit (All components shown here)	(1)

23	31	87	88	89	91	92
93	94	96	100	101	102	103
104	105	106	107	108	109	110
111	112	113	114	115	116	117
118	120	132	203	204	205	

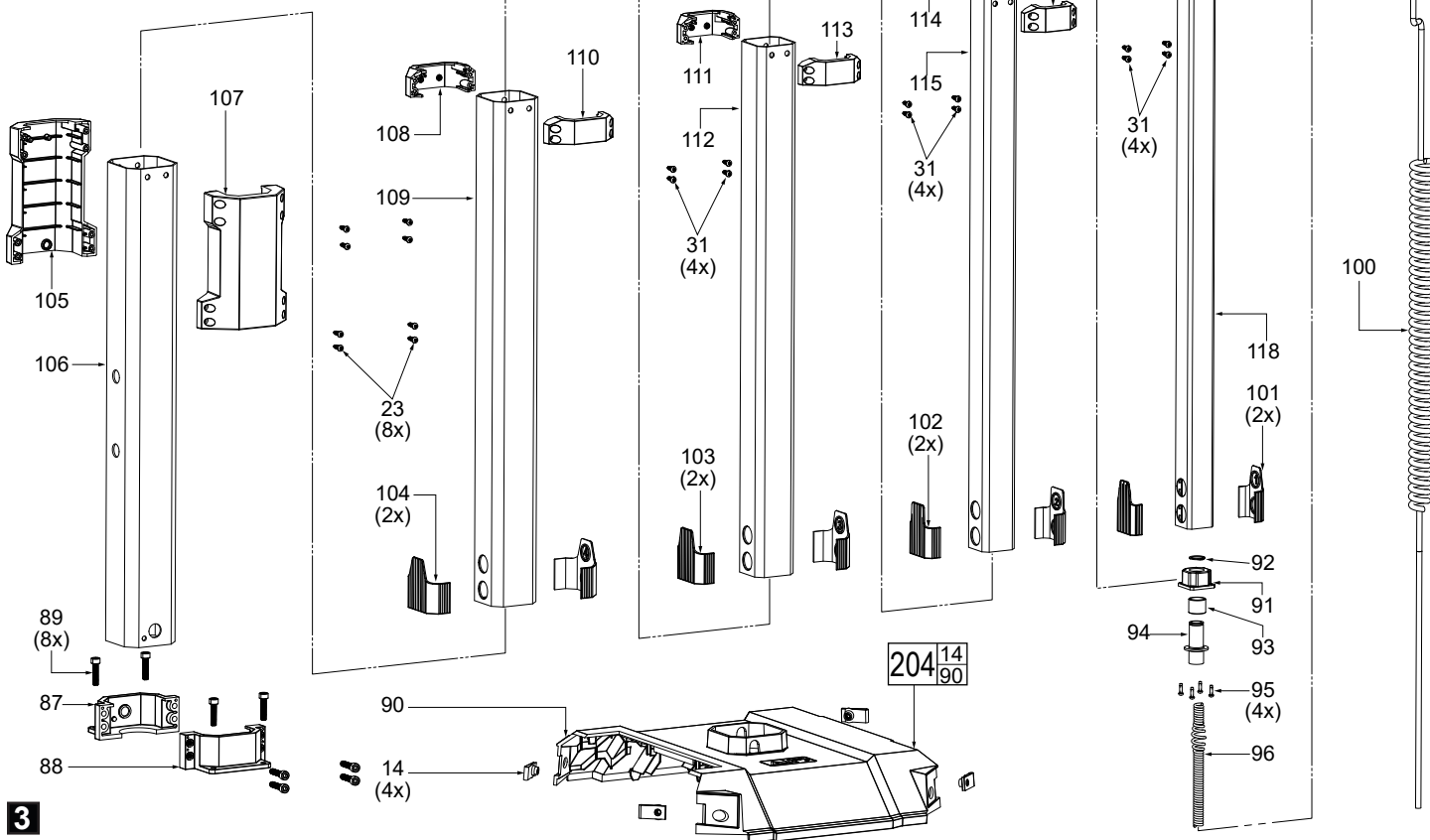
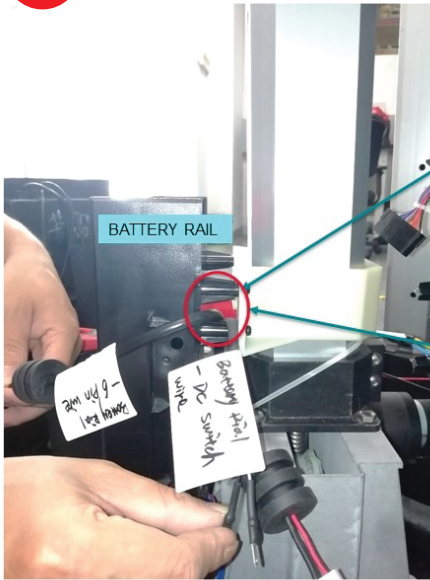


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	-----	Battery Door Buckle	(1)	169	05-74-1077	Captive Screw Retainer	(2)
2	44-60-0107	M4 x 48mm Pin	(2)	208	44-81-0021	Battery Rail Service Kit	(1)
3	44-14-0023	Battery Door Linkage	(2)	209	31-12-0093	Left Side Panel Service Kit	(1)
4	-----	Pad Lock Bracket	(1)	210	31-12-0096	Battery Door Service Kit	(1)
5	05-83-0017	M4 x 18mm Cap Hd. Machine Bolt	(2)	211	31-12-0098	Back (Battery Panel) Service Kit	(1)
6	-----	Battery Door	(1)	212	31-12-0103	Right Side (Charger Panel) Service Kit	(1)
7	44-60-0104	M4 x 38mm Pin	(2)	213	14-34-0162	Decoupler Lever Service Kit	(1)
8	-----	Battery Door Gasket	(1)	214	31-12-0104	UI Panel Service Assembly	(1)
9	-----	Battery Door Hook	(2)	215	45-06-0037	Top Drive Cone Service Assembly	(1)
10	05-81-1282	Screw	(2)	216	43-62-0076	AC Door Service Assembly	(1)
11	-----	Coin Cell Cover	(1)	218	45-94-0032	Wheel and Axle Service Kit	(1)
12	-----	Back Housing	(1)				
13	06-65-1540	M3 x 80mm Pin	(2)				
14	-----	Housing Panel Clip	(24)				
15	05-81-1281	M8 x 16mm Pan Hd. Hex Recess Screw	(2)				
16	45-94-0021	Wheel	(1)				
17	45-88-8981	Flat Washer	(2)				
18	-----	Axle	(1)				
19	-----	Axle Cover	(1)				
20	05-74-0154	M4 x 50mm Pan Hd. Hex Recess Screw	(4)				
21	05-74-0172	M6 Thread Forming Flange Screw	(8)				
22	31-44-0123	Left Lift Handle	(1)				
23	06-82-8895	M4 x 14mm Pan Hd. ST T-20 Screw	(44)				
24	31-44-0128	Right Lift Handle	(1)				
26	-----	Charger Box	(1)				
27	-----	Right Side Panel	(1)				
28	-----	Left Side Panel	(1)				
29	-----	Power Board/Driver Board Assembly	(1)				
30	45-88-0237	Flat Washer	(4)				
31	05-81-1285	M4 x 10mm Pan Hd. ST T-20 Screw	(19)				
32	14-20-0077	MX Bluetooth Board	(1)				
33	-----	3V Coin Cell Battery	(1)				
34	05-81-1284	M3 x 6mm Pan Hd. St Torx Screw	(2)				
35	14-20-0079	ORCA Strator	(1)				
36	06-82-0154	M3 x 10mm Pan Hd. ST T-10 TP Screw	(6)				
37	05-81-1280	M2 x 6mm Pan Hd. ST T-8 Screw	(3)				
38	-----	Battery Cover	(2)				
39	06-82-1087	M3 x 12mm Pan Hd. ST T-10 Screw	(7)				
40	-----	Battery Rail Assembly	(1)				
41	43-76-0017	Front Housing	(1)				
42	-----	Release Linkage	(1)				
43	-----	Linkage Spring	(1)				
44	-----	Paddle Linkage	(1)				
45	-----	Decoupler Spring	(1)				
46	-----	Linkage Pin	(1)				
47	-----	Decoupler-handle	(1)				
49	06-65-0013	Cotter Pin	(1)				
61	-----	Axle Mounting Bracket	(2)				
62	05-74-0153	M4 x 25mm Pan Hd. T-20 Mach. Screw	(5)				
63	-----	Top Drive Cone	(1)				
64	-----	Drive Pulley Assembly	(1)				
65	-----	Idler Pulley	(1)				
67	-----	Mounting Clamp	(1)				
68	34-40-7250	O-Ring	(1)				
69	02-04-0330	Ball Bearing	(1)				
70	34-60-7081	Snap Ring	(5)				
71	-----	Idler Pulley Shaft	(1)				
72	-----	Motor Drive Pulley Shaft	(1)				
73	-----	Ball Bearing	(1)				
74	-----	Gear Box Assembly	(1)				
75	31-10-0025	Motor Bracket	(1)				
76	31-17-0011	Base Exit Clamp	(1)				
77	44-66-0091	Axle Support Plate	(1)				
78	43-76-0026	Bottom Housing	(1)				
79	58-15-0373	EMC Box	(1)				
80	-----	AC Door Gasket	(1)				
81	-----	AC Cover Latch	(1)				
82	-----	DP PP Door Spring	(2)				
83	-----	AC Cover Latch	(1)				
84	-----	AC Door	(1)				
85	14-20-0086	AC Inlet	(1)				
86	06-65-7327	M3 x 40mm Pin	(2)				
97	-----	Mast Switch Board	(1)				
98	-----	UI Assembly	(1)				
99	-----	UI Trim	(1)				
168	14-46-0002	Zip Tie Mounts	(6)				

1

SHOW THE POSITION OF THE WIRE

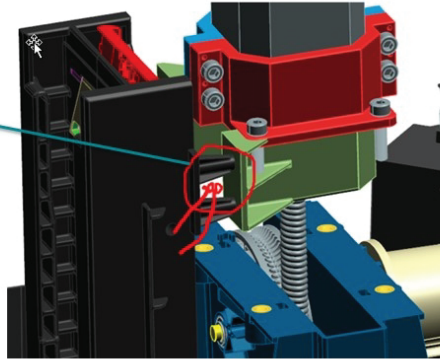
DC SWITCH AND 6PIN WIRE FROM BATTERY RAIL



✦ DETAIL ASSEMBLING INFORMATION FOR THE DC SWITCH WIRE, See Step 2.

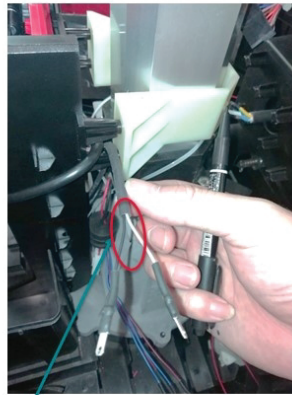
✦ DETAIL ASSEMBLING INFORMATION FOR THE 6 PIN WIRE, See Step 3.

WHEN ASSEMBLING THE BATTERY RAIL, **DC SWITCH WIRE** AND **6 PIN WIRE** NEED TO COME OUT OF THIS POSITION.

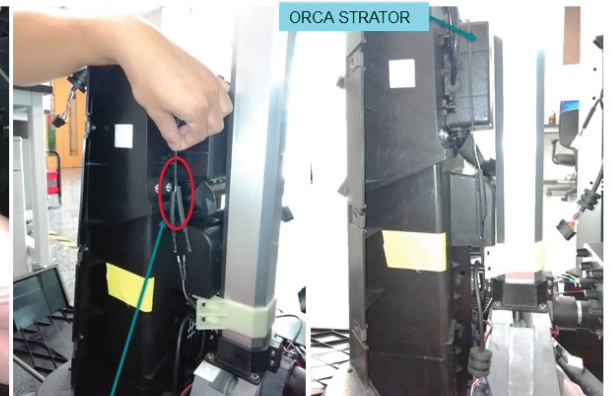


ASSEMBLING DC SWITCH WIRE

2



✓ **DC SWITCH WIRE** FROM BATTERY RAIL WILL BE CONNECT IT WITH THE WIRE FROM ORCA STRATOR



✓ **THIS WIRE FROM ORCA STRATOR**

3

ASSEMBLING 6 PIN WIRE FROM BATTERY RAIL



✓ **6 PIN WIRE AND 8PIN WIRE FROM ORCA STRATOR** NEED FIX IT ON THIS POSITION

✦ Detail assembling information see **Step 10** (8 Pin wire)

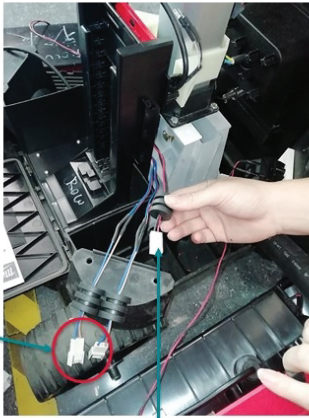


✓ **6 PIN WIRE FROM BATTERY RAIL** WILL BE CONNECT IT WITH **6 PIN WIRE FROM ORCA STRATOR**

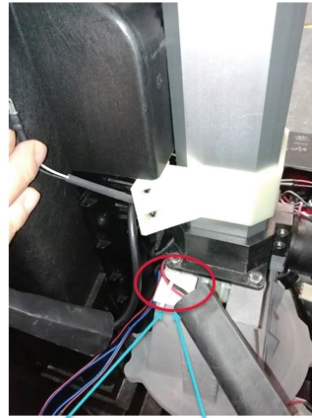
4

SHOW THE POSITION OF THE WIRE

AC SWITCH AND 2 PIN WIRE FROM BATTERY RAIL



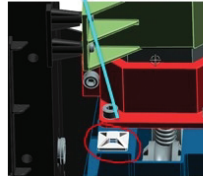
✓ ROW: 2PCS AC SWITCH WIRE FROM BATTERY RAIL



✓ 2 PIN WIRE FROM BATTERY RAIL, IT'S NEED BE FIX IT ON THIS POSITION

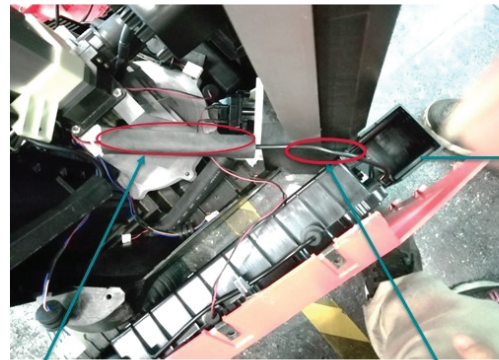
◆ DETAIL ASSEMBLING INFORMATION SEE STEP5 (2PIN WIRE)

◆ DETAIL ASSEMBLING INFORMATION SEE PAGE6 AND PAGE7 (AC SWITCH WIRE)



ASSEMBLING 2 PIN WIRE FROM BATTERY RAIL

5



CHARGER BOX

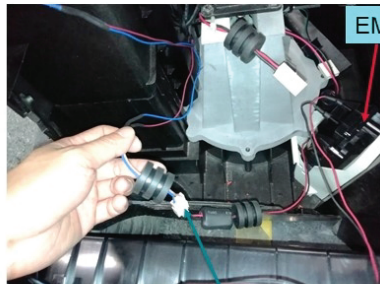
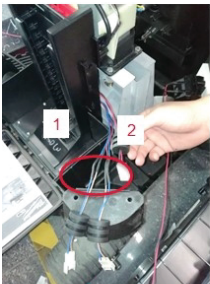
✓ 2 PIN WIRE FROM THE CHARGE BOX

✓ 2 PIN WIRE FROM BATTERY RAIL WILL BE CONNECT IT WITH 2 PIN WIRE FROM THE CHARGE BOX

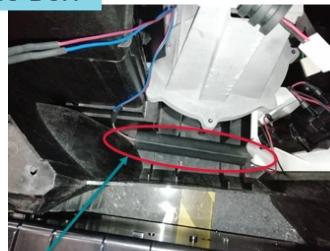
6

ASSEMBLING AC SWITCH WIRE#1 FROM BATTERY RAIL

ROW VERSION



EMC BOX



□ Put it in this position after assembly

✓ ROW: 2PCS AC SWITCH WIRE FROM BATTERY RAIL (ONLY HAVE 1PCS AC SWITCH WIRE FOR THE UL VERSION)

✓ AC SWITCH WIRE WILL BE CONNECT IT WITH THE 2PIN WIRE FROM THE EMC BOX, (AC SWITCH WIRE#1 AND WIRE#2 YOU CAN CHOOSE ANY ONE TO ASSEMBLE. THIS IS FOR ROW VERSION)

7

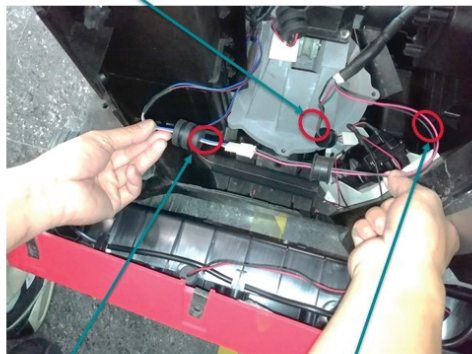
7

ASSEMBLING AC SWITCH WIRE#2 FROM BATTERY RAIL

ROW VERSION

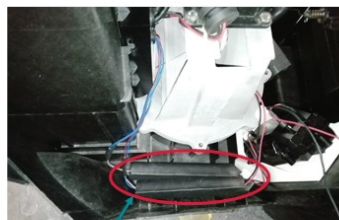
✓ AC INLET 2PIN WIRE #2

✦ DETAIL ASSEMBLING INFORMATION SEE STEP16 (AC INLET 2PIN WIRE #2)



✓ AC SWITCH WIRE#2 WILL BE CONNECT IT WITH THE AC INLET 2PIN WIRE#1

✓ AC INLET 2PIN WIRE #1



□ PUT IT IN THIS POSITION AFTER ASSEMBLY

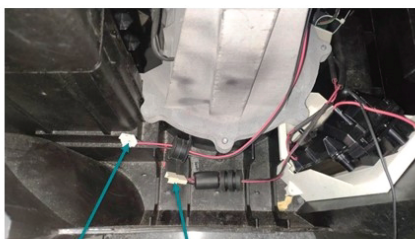


UL VERSION PLEASE SEE **STEP 8 AND STEP 9**

ASSEMBLING 2 PIN WIRE#1 FROM EMC BOX

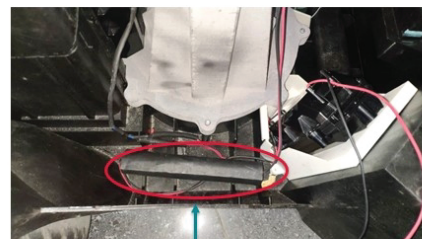
(UL VERSION)

8



✓ 2 PIN WIRE #1 FROM EMC BOX OF UL VERSION WILL BE CONNECT IT WITH 2PIN WIRE FROM AC INLET

✓ 2 PIN WIRE FROM AC INLET



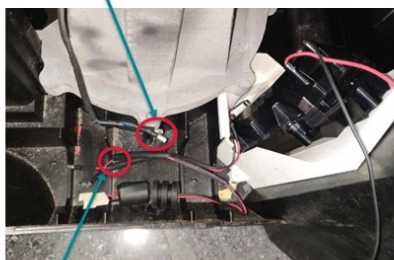
□ PUT IT IN THIS POSITION AFTER ASSEMBLY

9

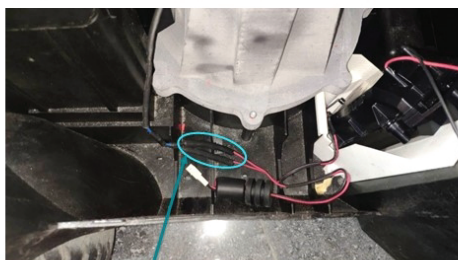
ASSEMBLING 2 PIN WIRE#2 FROM EMC BOX

(UL VERSION)

✓ 2 PIN AC SWITCH WIRE FROM BATTERY RAIL (THIS WIRE COLOR IS BLUE AND BROWN)

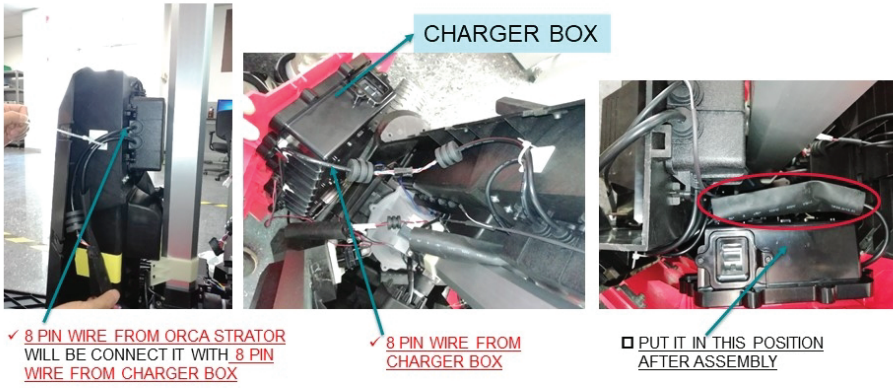


✓ 2PIN WIRE #2 FROM EMC BOX OF UL VERSION WILL BE CONNECT IT WITH 2 PIN AC SWITCH WIRE FROM BATTERY RAIL FOR UL VERSION

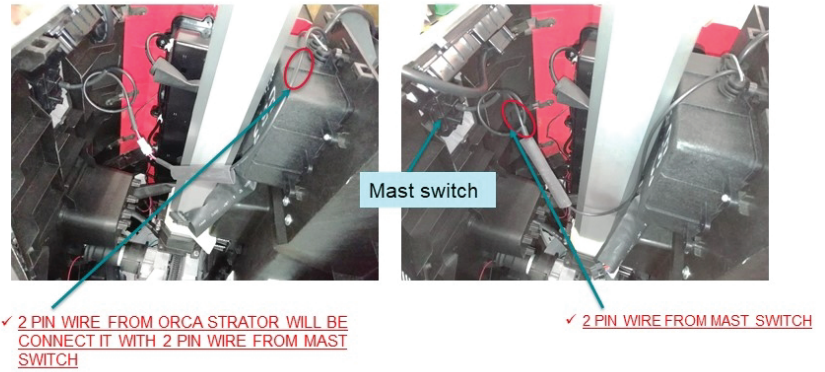


□ PUT IT IN THIS POSITION AFTER ASSEMBLY

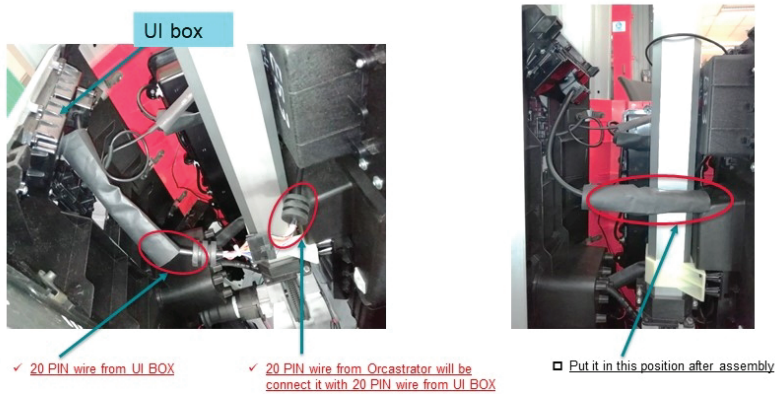
10 ASSEMBLING 8 PIN WIRE FROM ORCA STRATOR



ASSEMBLING 2 PIN WIRE FROM ORCA STRATOR 11

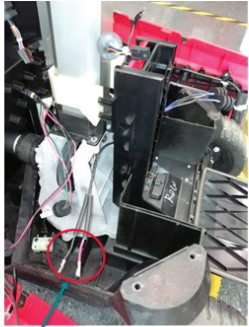


12 ASSEMBLING 20 PIN WIRE FROM ORCA STRATOR

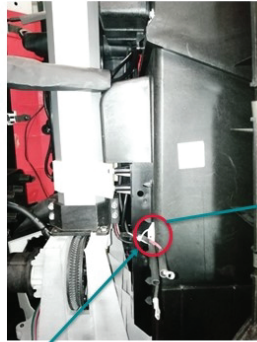


13

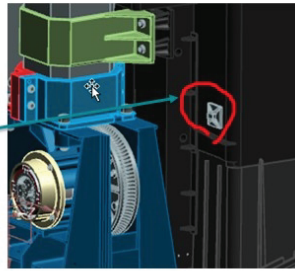
SHOW THE POSITION OF THE 2 PIN WIRE FROM BATTERY RAIL



✓ 2 PIN WIRE FROM
BATTERY RAIL



✓ 2 PIN WIRE FROM BATTERY RAIL NEED FIX IT ON
THIS POSITION



✦ DETAIL ASSEMBLING INFORMATION SEE STEP 14 (2 PIN WIRE
FROM BATTERY RAIL)

ASSEMBLING 2 PIN WIRE FROM BATTERY RAIL

14



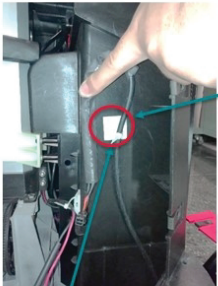
✓ 2 PIN WIRE FROM
BATTERY RAIL

✓ 2 PIN WIRE FROM DRIVER &
POWER BOX WILL BE
CONNECT WITH 2 PIN WIRE
FROM BATTERY RAIL

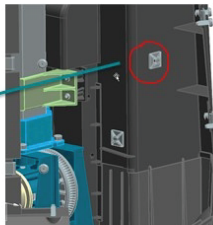


15

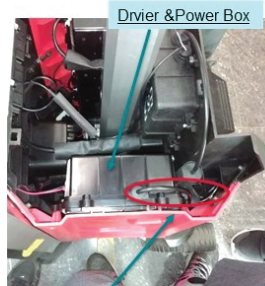
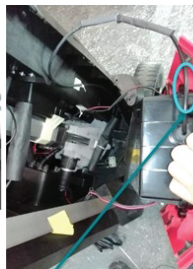
ASSEMBLING 4 PIN WIRE FROM DRIVER & POWER BOX



✓ 4 PIN OF SPRING WIRE NEEDS TO
FIX IT ON THIS POSITION



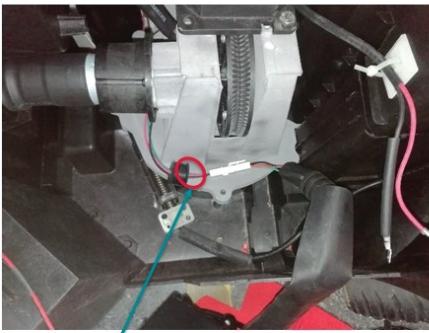
✓ 4 PIN WIRE FROM THE DRIVER
& POWER BOX WILL BE
CONNECT IT WITH THE 4 PIN OF
SPRING WIRE



□ PUT IT IN THIS POSITION
AFTER ASSEMBLY

16

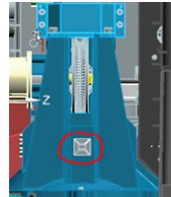
ASSEMBLING AC INLET 2 PIN WIRE #2



✓ **AC INLET 2PIN WIRE #2** WILL BE CONNECT WITH THE **2PIN WIRE FROM DRIVER & POWER BOX**

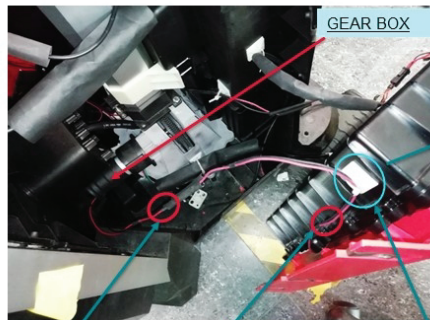
✓ **2 PIN WIRE FROM DRIVER & POWER BOX**

□ **FIX IT** IN THIS POSITION AFTER ASSEMBLY



ASSEMBLING MOTOR WIRE

17



✓ **WIRE FROM THE MOTOR SIDE**

✓ **WIRE FROM THE DRIVER & POWER BOX MOTOR WIRE**

✓ **DRIVER & POWER BOX MOTOR WIRE NEED FIX IT ON THIS POSITION**



✓ **PUT IT IN THIS POSITION AFTER ASSEMBLY**

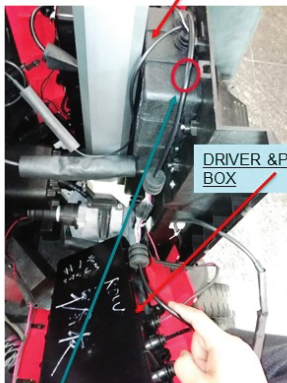


DRIVER & POWER BOX

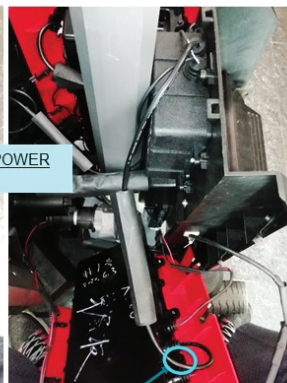
18

ASSEMBLING 10 PIN WIRE FROM ORCA STRATOR

ORCA STRATOR



✓ **10 PIN WIRE FROM THE ORCA STRATOR** WILL BE CONNECT IT WITH **10 PIN WIRE FROM THE DRIVER & POWER BOX**



✓ **10 PIN WIRE FROM THE DRIVER & POWER BOX**



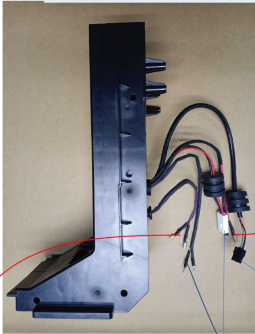
✓ **PUT IT IN THIS POSITION AFTER ASSEMBLY**

HEAT SHRINK SPECIFICATIONS				
DESCRIPTION	USAGE	HEAT SHRINK	RATE	MATERIAL
Power/Driver Box	2	11 I.D., 180mm	2:1	Flexible heat shrinkable polyolefin tubing.
	1	30 I.D., 220mm	2:1	Flexible heat shrinkable polyolefin tubing.
	4	6.4 I.D., 60mm	3:1	Flexible heat shrinkable polyolefin tubing with liner.
EMC Box UL	2	4.7 I.D., 60mm	3:1	Flexible heat shrinkable polyolefin tubing with liner.

MOTOR



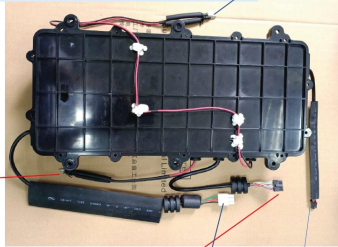
BATTERY RAIL UL



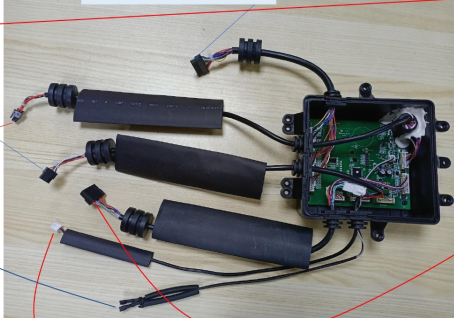
UI



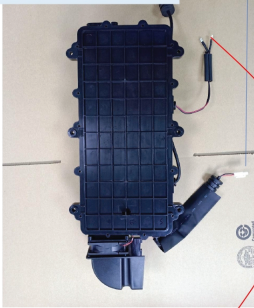
POWER/DRIVER BOX



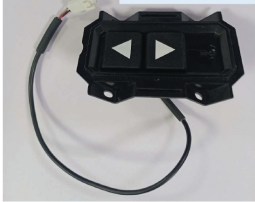
ORCA STATOR



CHARGER BOX



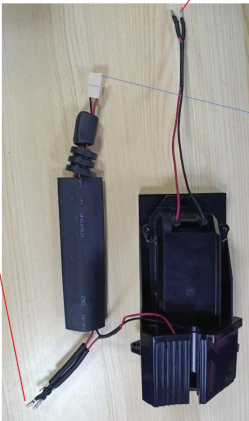
MAST SWITCH BOARD



LED SPRING WIRE



EMC BOX UL



AC INLET UL



BREAKOUT BOARD

