

Checklist of CEM TCM L110_BATRTN2

	8,11 to 28,31 to 48,51 to 68,71 to 78, OP2-1 to 8,11 to 28,31 to 48,51 to 68, 71 to 78, MONOP-32,33, 46,47, 66,67, 74)			
167	Connector mounting post (PB_R, RB_R, MON_OP, OP1, OP2) wrt chassis	<100mΩ	<100mΩ	<100mΩ

Continuity measurement for BAT-RTN-1 with Battery relays ON/OFF condition

1). Issue Battery ON (SQB) command (28V pulse @ MON_OP-1 wrt MON_OP-4)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	PB-R-A wrt OP1-1	<100mΩ	68 mΩ	70mΩ
2	PB-R-A wrt OP1-12	<100mΩ	36 mΩ	36mΩ
3	RB-R-A wrt OP2-1	<100mΩ	41 mΩ	41mΩ
4	RB-R-A wrt OP2-12	<100mΩ	32 mΩ	31mΩ
5	OP1-1 wrt MON-OP-74	5kΩ ± 2 %	5.001kΩ	5.000kΩ
6	OP2-1 wrt MON-OP-74	5kΩ ± 2 %	5.000kΩ	5.000kΩ

2). Issue Battery OFF (SQB) command (28V pulse @ MON_OP-2 wrt MON_OP-4)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	OP1-1 wrt MON-OP-74	10kΩ±2 %	10.003kΩ	10.003kΩ
2	OP2-1 wrt MON-OP-74	10kΩ±2 %	10.003kΩ	10.003kΩ
3	PB-R-A wrt OP1-1	20kΩ±2 %	20.003kΩ	20.003kΩ
4	PB-R-A wrt OP1-12	20kΩ±2 %	20.002kΩ	20.002kΩ
5	RB-R-A wrt OP2-1	20kΩ±2 %	20.003kΩ	20.001kΩ
6	RB-R-A wrt OP2-12	20kΩ±2 %	20.003kΩ	20.004kΩ

List of Connectors in the package

BAT – RTN-2

1. PB_R and RB_R=11 pin Male D3899

2. MON_OP, PO and RO=78 pin Female

SL. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1.	PB_R-A wrt RB_R-A	20kΩ ± 1%	20.001kΩ	20.002kΩ
2.	PB_R-A wrt PB_R-B to PB_R-H & J	<150mΩ	8mΩ	8mΩ
3.	RB_R-A wrt RB_R-B to RB_R-H & J	<150mΩ	9mΩ	9mΩ
4.	PB_R-K wrt RB_R-K	<150mΩ	15mΩ	15mΩ
5.	PB_R- A wrt CHASSIS	10 kΩ ± 1%	10.000kΩ	10.001kΩ

6.	RB_R- A wrt CHASSIS	10 k Ω \pm 1%	10.001k Ω	10.001k Ω
7.	MON_OP 44 wrt MON_OP 17	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
8.	MON_OP 44 wrt MON_OP 18	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
9.	MON_OP 44 wrt MON_OP 19	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
10.	MON_OP 17 wrt MON_OP 18	2 k Ω \pm 1%	2.000k Ω	2.000k Ω
11.	MON_OP 17 wrt MON_OP 19	2 k Ω \pm 1%	2.000k Ω	2.000k Ω
12.	MON_OP 18 wrt MON_OP 19	2 k Ω \pm 1%	2.000k Ω	2.000k Ω
13.	MON_OP 46 wrt MON_OP 47	2 k Ω \pm 1%	2.006k Ω	2.006k Ω
14.	MON_OP 46 wrt MON_OP 66	<100m Ω	27m Ω	27m Ω
15.	MON_OP 47 wrt MON_OP 67	<100m Ω	27m Ω	27m Ω
16.	MON_OP 3 wrt MON_OP 7	<1.5 Ω	35m Ω	38m Ω
17.	MON_OP 44 wrt MON_OP 45	<1.5 Ω	25m Ω	25m Ω
18.	MON_OP 64 wrt MON_OP 65	<1.5 Ω	27m Ω	28m Ω
19.	OP1-10 wrt OP1-30	<100m Ω	29m Ω	29m Ω
20.	OP2-10 wrt OP2-30	<100m Ω	31m Ω	31m Ω
21.	MON_OP 74 wrt CHASSIS	<250m Ω	111m Ω	103m Ω
22.	OP1-10 wrt MON_OP 74	10 k Ω \pm 1%	10.001k Ω	10.001k Ω
23.	OP2-10 wrt MON_OP 74	10 k Ω \pm 1%	10.000k Ω	10.000k Ω
24.	MON_OP 48 wrt MON_OP 68	<100m Ω	27m Ω	27m Ω
25.	MON_OP 49 wrt MON_OP 69	<100m Ω	27m Ω	27m Ω
26.	MON_OP 48 wrt MON_OP 49	2 k Ω \pm 1%	2.003k Ω	2.003k Ω
27.	MON_OP 44 wrt MON_OP 21	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
28.	MON_OP 44 wrt MON_OP 22	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
29.	MON_OP 44 wrt MON_OP 23	[1.47k Ω \pm 1%+500m Ω (max)]	1.475k Ω	1.475k Ω
30.	MON_OP 21 wrt MON_OP 22	[2 k Ω \pm 1% + 500m Ω (max)]	2.000k Ω	2.000k Ω
31.	MON_OP 21 wrt MON_OP 23	[2 k Ω \pm 1% + 500m Ω (max)]	2.000k Ω	2.000k Ω
32.	MON_OP 22 wrt MON_OP 23	[2 k Ω \pm 1% + 500m Ω (max)]	2.000k Ω	2.000k Ω
33.	MON_OP-56 wrt MON_OP-58	2 k Ω \pm 1%	2.000k Ω	2.001k Ω
34.	MON_OP-61 wrt MON_OP-62	<100m Ω	25m Ω	26m Ω
35.	MON_OP-52 wrt MON_OP-53	2 k Ω \pm 1%	2.001k Ω	2.001k Ω
36.	MON_OP-55 wrt MON_OP-70	2 k Ω \pm 1%	2.001k Ω	2.001k Ω
37.	MON_OP-59 wrt MON_OP-60	2 k Ω \pm 1%	2.001k Ω	2.001k Ω
38.	OP1-1 wrt OP1- 2	<300m Ω	33m Ω	30m Ω
39.	OP1-1 wrt OP1- 3	<300m Ω	96m Ω	92m Ω
40.	OP1-1 wrt OP1- 4	<300m Ω	95m Ω	92m Ω
41.	OP1-1 wrt OP1- 5	<300m Ω	95m Ω	92m Ω
42.	OP1-1 wrt OP1- 6	<300m Ω	95m Ω	91m Ω
43.	OP1-1 wrt OP1- 7	<300m Ω	95m Ω	92m Ω
44.	OP1-1 wrt OP1- 8	<300m Ω	95m Ω	92m Ω
45.	OP1-1 wrt OP1- 11	<300m Ω	96m Ω	93m Ω

46.	OP1-1 wrt OP1- 21	<300mΩ	100mΩ	96mΩ
47.	OP1-1 wrt OP1- 22	<300mΩ	99mΩ	96mΩ
48.	OP1-1 wrt OP1- 23	<300mΩ	98mΩ	95mΩ
49.	OP1-1 wrt OP1- 24	<300mΩ	98mΩ	95mΩ
50.	OP1-1 wrt OP1- 25	<300mΩ	97mΩ	94mΩ
51.	OP1-1 wrt OP1- 26	<300mΩ	97mΩ	94mΩ
52.	OP1-1 wrt OP1- 27	<300mΩ	96mΩ	93mΩ
53.	OP1-1 wrt OP1- 28	<300mΩ	95mΩ	92mΩ
54.	OP1-1 wrt OP1-31	<300mΩ	96mΩ	93mΩ
55.	OP1-1 wrt OP1-40	<300mΩ	101mΩ	97mΩ
56.	OP1-1 wrt OP1-41	<300mΩ	101mΩ	98mΩ
57.	OP1-1 wrt OP1-42	<300mΩ	103mΩ	99mΩ
58.	OP1-1 wrt OP1-43	<300mΩ	104mΩ	101mΩ
59.	OP1-1 wrt OP1-44	<300mΩ	105mΩ	102mΩ
60.	OP1-1 wrt OP1-45	<300mΩ	105mΩ	102mΩ
61.	OP1-1 wrt OP1-46	<300mΩ	107mΩ	103mΩ
62.	OP1-1 wrt OP1-47	<300mΩ	107mΩ	103mΩ
63.	OP1-1 wrt OP1-48	<300mΩ	108mΩ	105mΩ
64.	OP1-1 wrt OP1 -60	<300mΩ	101mΩ	97mΩ
65.	OP1-1 wrt OP1-61	<300mΩ	102mΩ	98mΩ
66.	OP1-1 wrt OP1-62	<300mΩ	103mΩ	100mΩ
67.	OP1-1 wrt OP1-63	<300mΩ	104mΩ	101mΩ
68.	OP1-1 wrt OP1-64	<300mΩ	106mΩ	102mΩ
69.	OP1-1 wrt OP1-65	<300mΩ	106mΩ	102mΩ
70.	OP1-1 wrt OP1-66	<300mΩ	107mΩ	103mΩ
71.	OP1-1 wrt OP1-67	<300mΩ	107mΩ	103mΩ
72.	OP1-1 wrt OP1-68	<300mΩ	108mΩ	105mΩ
73.	OP1-1 wrt OP2-11	<300mΩ	127mΩ	124mΩ
74.	OP1-1 wrt OP2-31	<300mΩ	126mΩ	123mΩ
75.	OP1-1 wrt OP2-48	<300mΩ	160mΩ	156mΩ
76.	OP1-1 wrt OP2-68	<300mΩ	159mΩ	156mΩ
77.	OP1-1 wrt OP1-12	<300mΩ	86mΩ	83mΩ
78.	OP1-1 wrt OP1-49	20 kΩ ± 1%	20.009kΩ	20.007kΩ
79.	OP1-12 wrt OP1-13	<300mΩ	30mΩ	29mΩ
80.	OP1-12 wrt OP1-14	<300mΩ	30mΩ	29mΩ
81.	OP1-12 wrt OP1-15	<300mΩ	30mΩ	30mΩ
82.	OP1-12 wrt OP1-16	<300mΩ	30mΩ	30mΩ
83.	OP1-12 wrt OP1-17	<300mΩ	30mΩ	30mΩ
84.	OP1-12 wrt OP1-18	<300mΩ	30mΩ	30mΩ
85.	OP1-12 wrt OP1-19	<300mΩ	30mΩ	30mΩ
86.	OP1-12 wrt OP1-20	<300mΩ	30mΩ	30mΩ
87.	OP1-12 wrt OP1-32	<300mΩ	29mΩ	29mΩ
88.	OP1-12 wrt OP1-33	<300mΩ	29mΩ	29mΩ
89.	OP1-12 wrt OP1-34	<300mΩ	29mΩ	29mΩ
90.	OP1-12 wrt OP1-35	<300mΩ	29mΩ	29mΩ
91.	OP1-12 wrt OP1-36	<300mΩ	29mΩ	29mΩ
92.	OP1-12 wrt OP1-37	<300mΩ	29mΩ	29mΩ
93.	OP1-12 wrt OP1-38	<300mΩ	29mΩ	29mΩ
94.	OP1-12 wrt OP1-39	<300mΩ	29mΩ	30mΩ
95.	OP1-12 wrt OP1 -51	<300mΩ	28mΩ	28mΩ

96.	OP1-12 wrt OP1 -52	<300mΩ	29mΩ	28mΩ
97.	OP1-12 wrt OP1 -53	<300mΩ	28mΩ	28mΩ
98.	OP1-12 wrt OP1 -54	<300mΩ	28mΩ	28mΩ
99.	OP1-12 wrt OP1 -55	<300mΩ	29mΩ	28mΩ
100.	OP1-12 wrt OP1 -56	<300mΩ	29mΩ	28mΩ
101.	OP1-12 wrt OP1 -57	<300mΩ	29mΩ	29mΩ
102.	OP1-12 wrt OP1 -58	<300mΩ	29mΩ	29mΩ
103.	OP1 -12 wrt OP1- 59	<300mΩ	29mΩ	29mΩ
104.	OP1-49 wrt OP1-50	<300mΩ	27mΩ	27mΩ
105.	OP1- 49 wrt OP1- 69	<300mΩ	28mΩ	27mΩ
106.	OP1- 49 wrt OP1- 70	<300mΩ	28mΩ	28mΩ
107.	OP1- 49 wrt OP1-71	<300mΩ	55mΩ	54mΩ
108.	OP1- 49 wrt OP1-72	<300mΩ	54mΩ	54mΩ
109.	OP1- 49 wrt OP1-73	<300mΩ	54mΩ	53mΩ
110.	OP1- 49 wrt OP1-74	<300mΩ	54mΩ	53mΩ
111.	OP1- 49 wrt OP1-75	<300mΩ	53mΩ	53mΩ
112.	OP1- 49 wrt OP1-76	<300mΩ	53mΩ	53mΩ
113.	OP1- 49 wrt OP1-77	<300mΩ	53mΩ	52mΩ
114.	OP1- 49 wrt OP1-78	<300mΩ	52mΩ	52mΩ
115.	OP1- 49 wrt OP2-49	<300mΩ	35mΩ	35mΩ
116.	OP1-49 wrt OP2-50	<300mΩ	36mΩ	35mΩ
117.	OP1- 49 wrt OP2- 69	<300mΩ	35mΩ	35mΩ
118.	OP1- 49 wrt OP2- 70	<300mΩ	36mΩ	35mΩ
119.	OP1- 49 wrt OP2-71	<300mΩ	47mΩ	47mΩ
120.	OP1- 49 wrt OP2-72	<300mΩ	47mΩ	47mΩ
121.	OP1- 49 wrt OP2-73	<300mΩ	47mΩ	47mΩ
122.	OP1- 49 wrt OP2-74	<300mΩ	47mΩ	46mΩ
123.	OP1- 49 wrt OP2-75	<300mΩ	46mΩ	46mΩ
124.	OP1- 49 wrt OP2-76	<300mΩ	46mΩ	45mΩ
125.	OP1- 49 wrt OP2-77	<300mΩ	46mΩ	45mΩ
126.	OP1- 49 wrt OP2-78	<300mΩ	52mΩ	52mΩ
127.	OP1-1 wrt OP2-1	<300mΩ	93mΩ	90mΩ
128.	OP1-1 wrt OP2-12	<300mΩ	84mΩ	81mΩ
129.	OP2-1 wrt OP2-2	<300mΩ	33mΩ	32mΩ
130.	OP2-1 wrt OP2-3	<300mΩ	32mΩ	32mΩ
131.	OP2-1 wrt OP2-4	<300mΩ	33mΩ	32mΩ
132.	OP2-1 wrt OP2-5	<300mΩ	33mΩ	32mΩ
133.	OP2-1 wrt OP2-6	<300mΩ	33mΩ	32mΩ
134.	OP2-1 wrt OP2-7	<300mΩ	33mΩ	33mΩ
135.	OP2-1 wrt OP2-8	<300mΩ	33mΩ	32mΩ
136.	OP2-1 wrt OP2 -21	<300mΩ	32mΩ	31mΩ
137.	OP2-1 wrt OP2 -22	<300mΩ	32mΩ	31mΩ
138.	OP2-1 wrt OP2 -23	<300mΩ	32mΩ	31mΩ
139.	OP2-1 wrt OP2 -24	<300mΩ	32mΩ	32mΩ
140.	OP2-1 wrt OP2 -25	<300mΩ	32mΩ	31mΩ
141.	OP2-1 wrt OP2 -26	<300mΩ	32mΩ	32mΩ
142.	OP2-1 wrt OP2 -27	<300mΩ	32mΩ	31mΩ
143.	OP2-1 wrt OP2 -28	<300mΩ	32mΩ	32mΩ
144.	OP2-1 wrt OP2- 40	<300mΩ	31mΩ	31mΩ

145.	OP2-1 wrt OP2- 41	<300mΩ	31mΩ	31mΩ
146.	OP2-1 wrt OP2- 42	<300mΩ	31mΩ	31mΩ
147.	OP2-1 wrt OP2- 43	<300mΩ	31mΩ	31mΩ
148.	OP2-1 wrt OP2- 44	<300mΩ	31mΩ	31mΩ
149.	OP2-1 wrt OP2- 45	<300mΩ	32mΩ	31mΩ
150.	OP2-1 wrt OP2- 46	<300mΩ	31mΩ	31mΩ
151.	OP2-1 wrt OP2- 47	<300mΩ	32mΩ	31mΩ
152.	OP2-1 wrt OP2- 60	<300mΩ	32mΩ	31mΩ
153.	OP2-1 wrt OP2- 61	<300mΩ	31mΩ	30mΩ
154.	OP2-1 wrt OP2- 62	<300mΩ	30mΩ	30mΩ
155.	OP2-1 wrt OP2- 63	<300mΩ	31mΩ	31mΩ
156.	OP2-1 wrt OP2- 64	<300mΩ	32mΩ	31mΩ
157.	OP2-1 wrt OP2- 65	<300mΩ	32mΩ	31mΩ
158.	OP2-1 wrt OP2- 66	<300mΩ	32mΩ	31mΩ
159.	OP2-1 wrt OP2- 67	<300mΩ	31mΩ	31mΩ
160.	OP2-12 wrt OP2- 13	<300mΩ	32mΩ	32mΩ
161.	OP2-12 wrt OP2- 14	<300mΩ	32mΩ	32mΩ
162.	OP2-12 wrt OP2- 15	<300mΩ	33mΩ	32mΩ
163.	OP2-12 wrt OP2- 16	<300mΩ	33mΩ	33mΩ
164.	OP2-12 wrt OP2- 17	<300mΩ	33mΩ	32mΩ
165.	OP2-12 wrt OP2- 18	<300mΩ	33mΩ	32mΩ
166.	OP2-12 wrt OP2- 19	<300mΩ	33mΩ	32mΩ
167.	OP2-12 wrt OP2- 20	<300mΩ	33mΩ	32mΩ
168.	OP2-12 wrt OP2 -32	<300mΩ	31mΩ	31mΩ
169.	OP2-12 wrt OP2 -33	<300mΩ	32mΩ	31mΩ
170.	OP2-12 wrt OP2 -34	<300mΩ	32mΩ	32mΩ
171.	OP2-12 wrt OP2 -35	<300mΩ	32mΩ	32mΩ
172.	OP2-12 wrt OP2 -36	<300mΩ	32mΩ	32mΩ
173.	OP2-12 wrt OP2 -37	<300mΩ	33mΩ	32mΩ
174.	OP2-12 wrt OP2 -38	<300mΩ	32mΩ	32mΩ
175.	OP2-12 wrt OP2 -39	<300mΩ	32mΩ	32mΩ
176.	OP2-12 wrt OP2 -51	<300mΩ	32mΩ	31mΩ
177.	OP2-12 wrt OP2 -52	<300mΩ	31mΩ	31mΩ
178.	OP2-12 wrt OP2 -53	<300mΩ	31mΩ	31mΩ
179.	OP2-12 wrt OP2 -54	<300mΩ	32mΩ	31mΩ
180.	OP2-12 wrt OP2 -55	<300mΩ	32mΩ	31mΩ
181.	OP2-12 wrt OP2 -56	<300mΩ	31mΩ	30mΩ
182.	OP2-12 wrt OP2 -57	<300mΩ	31mΩ	31mΩ
183.	OP2-12 wrt OP2 -58	<300mΩ	33mΩ	32mΩ
184.	OP2-12 wrt OP2 -59	<300mΩ	32mΩ	31mΩ
185.	OP1-10 wrt OP1-30	<300mΩ	29mΩ	29mΩ
186.	OP2-10 wrt OP2-30	<300mΩ	31mΩ	31mΩ
187.	OP1-10 wrt OP2-10	20kΩ \pm 1%	20.002kΩ	20.001kΩ
188.	OP1-10 wrt OP1 49	20kΩ \pm 1%	20.000kΩ	20.000kΩ
189.	OP2-10 wrt OP2-49	20kΩ \pm 1%	19.999kΩ	19.999kΩ
190.	MON_OP-40 wrt MON_OP-41	<100mΩ	25mΩ	27mΩ
191.	MON_OP-42 wrt MON_OP-43	<100mΩ	25mΩ	26mΩ
192.	MON_OP-32 wrt MON_OP-33	<150mΩ	66mΩ	66mΩ
193.	MON_OP-35 wrt MON_OP-36	<150mΩ	82mΩ	82mΩ
194.	MON_OP-32 wrt OP 1-1	<150mΩ	101mΩ	98mΩ

195.	MON_ OP-33 wrt OP 2-1	<150mΩ	80mΩ	79mΩ
196.	MON_ OP-35 wrt OP 1-49	<150mΩ	94mΩ	93mΩ
197.	MON_ OP-36 wrt OP 1-49	<150mΩ	91mΩ	91mΩ
198.	MON_ OP-66 wrt MON_ OP-32	1 kΩ ± 1%	1.005kΩ	1.005kΩ
199.	MON_ OP-67 wrt MON_ OP-33	1kΩ ± 1%	1.001kΩ	1.001kΩ
200.	MON_ OP-68 wrt MON_ OP-35	1 kΩ ± 1%	1.001kΩ	1.001kΩ
201.	MON_ OP-69 wrt MON_ OP-36	1 kΩ ± 1%	1.003kΩ	1.003kΩ
202.	MON_ OP-32 wrt MON_ OP-35	20 kΩ ± 1%	20.007kΩ	20.005kΩ
203.	MON_ OP-61 wrt OP1-1, OP1-2 OP1-11	>100MΩ	>100MΩ	>100MΩ
204.	MON_ OP-61 wrt OP2-49	>100MΩ	>100MΩ	>100MΩ
205.	OP1-1 wrt MON_ OP- 64	>100MΩ	>100MΩ	>100MΩ
206.	MON_ OP-42 wrt MON_ OP-44	>100MΩ	>100MΩ	>100MΩ
207.	MON_ OP-40 wrt MON_ OP-44	>100MΩ	>100MΩ	>100MΩ
208.	MON_ OP-40 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
209.	MON_ OP-40 wrt OP1-1	>100MΩ	>100MΩ	>100MΩ
210.	MON_ OP-61 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
211.	MON_ OP-40 wrt OP2-49	>100MΩ	>100MΩ	>100MΩ
212.	CHASSIS wrt OP1- 1	10 kΩ ± 1%	10.001kΩ	10.002kΩ
213.	CHASSIS wrt MON_ OP-46	11 kΩ ± 1%	11.006kΩ	11.006kΩ
214.	CHASSIS wrt MON_ OP-47	11 kΩ ± 1%	11.002kΩ	11.002kΩ
215.	CHASSIS wrt MON_ OP-48	11 kΩ ± 1%	11.001kΩ	11.001kΩ
216.	CHASSIS wrt MON_ OP-49	11 kΩ ± 1%	11.003kΩ	11.003kΩ
217.	CHASSIS wrt OP1- 10	10 kΩ ± 1%	10.001kΩ	10.001kΩ
218.	CHASSIS wrt OP1- 49	10 kΩ ± 1%	10.000kΩ	10.000kΩ
219.	CHASSIS wrt OP2-10	10 kΩ ± 1%	9.999kΩ	10.000kΩ
220.	CHASSIS wrt PB_R- K	>100MΩ	>100MΩ	>100MΩ
221.	CHASSIS wrt RB_R- K	>100MΩ	>100MΩ	>100MΩ
222.	MON_ OP-1 wrt MON_ OP-46	>100MΩ	>100MΩ	>100MΩ
223.	MON_ OP-1 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
224.	MON_ OP-1 wrt MON_ OP-17	>100MΩ	>100MΩ	>100MΩ
225.	MON_ OP-2 wrt MON_ OP-46	>100MΩ	>100MΩ	>100MΩ
226.	MON_ OP-2 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
227.	MON_ OP-2 wrt MON_ OP-17	>100MΩ	>100MΩ	>100MΩ
228.	MON_ OP-5 wrt MON_ OP-48	>100MΩ	>100MΩ	>100MΩ
229.	MON_ OP-5 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
230.	MON_ OP-5 wrt MON_ OP-21	>100MΩ	>100MΩ	>100MΩ
231.	MON_ OP-6 wrt MON_ OP-48	>100MΩ	>100MΩ	>100MΩ
232.	MON_ OP-6 wrt MON_ OP-64	>100MΩ	>100MΩ	>100MΩ
233.	MON_ OP-6 wrt MON_ OP-21	>100MΩ	>100MΩ	>100MΩ
234.	MON_ OP-5 wrt MON_ OP-8	150Ω±15 Ω/ 225Ω±20 Ω	225.559Ω	224.170Ω
235.	MON_ OP-6 wrt MON_ OP-8	150Ω±15 Ω / 225Ω±20 Ω	227.624Ω	226.231Ω
236.	MON_ OP-1 wrt MON_ OP-4	60Ω±6Ω / 90Ω±9 Ω	89.939Ω	89.407Ω

237.	MON_OP-2 wrt MON_OP-4	60Ω±6Ω / 90Ω±9 Ω	91.437Ω	90.893Ω
238.	All pins wrt Chassis(except pins PB-R-A to J,RB-R-A to J,OP1-1 to 8,11 to 28,31 to 48,51to 68,71 to 78,OP2-1 to 8,11 to 28,31 to 48,51 to 68, 71 to 78, MONOP-32,33,35,36,46,47,48,49,66, 67,68,69,74)	>100MΩ	>100MΩ	>100MΩ
239.	Connector mounting post (PB_R, RB_R, MON_OP, OP1, OP2) wrt chassis	<100mΩ	<100mΩ	<100mΩ

Continuity measurement for BAT-RTN-2 with Battery relays ON/OFF condition

1). Issue Battery ON (SQB) command (28V pulse @ MON_OP-1 wrt MON_OP-4)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	PB-R-A wrt OP1-1	<100mΩ	63mΩ	62mΩ
2	PB-R-A wrt OP1-12	<100mΩ	32mΩ	32mΩ
3	RB-R-A wrt OP2-1	<100mΩ	38mΩ	38mΩ
4	RB-R-A wrt OP2-12	<100mΩ	30mΩ	29mΩ
5	OP1-1 wrt MON-OP-74	5kΩ ± 2 %	5.001 kΩ	5.001kΩ
6	OP2-1 wrt MON-OP-74	5kΩ ± 2 %	5.001 kΩ	5.001kΩ

2). Issue Battery OFF (SQB) command (28V pulse @ MON_OP-2 wrt MON_OP-4)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	OP1-1 wrt MON-OP-74	10kΩ±2 %	10.001kΩ	10.002kΩ
2	OP2-1 wrt MON-OP-74	10kΩ±2 %	10.001kΩ	10.002kΩ
3	PB-R-A wrt OP1-1	20kΩ±2 %	20.001kΩ	20.002kΩ
4	PB-R-A wrt OP1-12	20kΩ±2 %	20.001kΩ	20.002kΩ
5	RB-R-A wrt OP2-1	20kΩ±2 %	20.001kΩ	20.002kΩ
6	RB-R-A wrt OP2-12	20kΩ±2 %	20.001kΩ	20.002kΩ

3). Issue Battery ON (Valve) command (28V pulse @ MON_OP-5 wrt MON_OP-8)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	OP1-10 wrt OP1-49	<100mΩ	53 mΩ	53mΩ
2	OP2-10 wrt OP1-49	<100mΩ	58 mΩ	57mΩ
3	OP1-10 wrt MON-OP-74	5kΩ ± 2 %	5.001 kΩ	5.000kΩ
4	OP2-10 wrt MON-OP-74	5kΩ ± 2 %	5.001 kΩ	5.000kΩ

4). Issue Battery OFF (Valve) command (28V pulse @ MON_OP-6 wrt MON_OP-8)

Sl. No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1	OP1-10 wrt OP1-49	20kΩ±2 %	20.000kΩ	20.000kΩ
2	OP2-10 wrt OP1-49	20kΩ±2 %	19.999kΩ	19.999kΩ