

ANNEXURE-1

CONTINUITY & ISOLATION TESTS

* **Note:** SHORT specified implies a resistance of <100mΩ &
OPEN specified implies a resistance of >100MΩ, unless specified otherwise.

Note: Continuity between all connector mounting posts of all modules and chassis were measured and found <100mΩ.

Checklist of CEM BS RTN_GNDPYRO

GND-PYRO CARD

SL NO	PIN DETAILS	DESCRIPTION	EXPECTED	OBSERVATION	
				ISRC	FSRC
1	PO1 wrt RO1	RCT_SQB1(+)	<250mΩ	143mΩ	139mΩ
2	PO2 wrt RO2	RCT_SQB2(+)	<250mΩ	146mΩ	144mΩ
3	PO3 wrt RO3	RCT_SQB3(+)	<250mΩ	138mΩ	139mΩ
4	PO4 wrt RO4	RCT_SQB4(+)	<250mΩ	151mΩ	148mΩ
5	PO5 wrt RO5	RCT_SQB5(+)	<250mΩ	160mΩ	159mΩ
6	PO6 wrt RO6	RCT_SQB6(+)	<250mΩ	168mΩ	166mΩ
7	PO7 wrt RO7	RCT_SQB7(+)	<250mΩ	175mΩ	174mΩ
8	PO8 wrt RO8	RCT_SQB8(+)	<250mΩ	181mΩ	182mΩ
9	PO 9 wrt RO 9	PS1 Motor Ignition SQB1	<250mΩ	185mΩ	183mΩ
10	PO 10 wrt RO 10	PS1 Motor Ignition SQB2	<250mΩ	177mΩ	174mΩ
11	PO 11 wrt RO 11	PS1 Motor Ignition SQB3	<250mΩ	93mΩ	92mΩ
12	PO 12 wrt RO 12	PS1 Motor Ignition SQB4	<250mΩ	128mΩ	129mΩ
13	PO 13 wrt RO 13	PS2 Ullage rocket Ignition SQB1	<150mΩ	67mΩ	65mΩ
14	PO 14 wrt RO 14	PS2 Ullage rocket Ignition SQB 2	<150mΩ	75mΩ	75mΩ
15	PO 15 wrt RO 15	PS2 Ullage rocket Ignition SQB 3	<150mΩ	51mΩ	51mΩ
16	PO 16 wrt RO 16	PS2 Ullage rocket Ignition SQB 4	<150mΩ	87mΩ	86mΩ
17	PO 17 wrt RO 17	PS2 Ullage rocket Ignition SQB 5	<150mΩ	90mΩ	89mΩ
18	PO 18 wrt RO 18	PS2 Ullage rocket Ignition SQB 6	<150mΩ	101mΩ	101mΩ
19	PO 19 wrt RO 19	PS2 Ullage rocket Ignition SQB 7	<150mΩ	58mΩ	57mΩ
20	PO 20 wrt RO 20	PS2 Ullage rocket Ignition SQB 8	<150mΩ	85mΩ	86mΩ
21	PO 1 wrt PO 2	RCT_SQB1 & 2	0.8Ω to 1.1Ω	983mΩ	981mΩ

22	PO 3 wrt PO 4	RCT_SQB 3 & 4	0.8Ω to 1.1Ω	993mΩ	991mΩ
23	PO 5 wrt PO 6	RCT_SQB 5 & 6	0.8Ω to 1.1Ω	1.020 Ω	1.018Ω
24	PO 7 wrt PO 8	RCT_SQB 7 & 8	0.8Ω to 1.1Ω	1.035 Ω	1.033Ω
25	PO 9 wrt PO 10	PS1 Motor Ignition SQB1 & SQB 2	0.8Ω to 1.1Ω	1.050 Ω	1.053Ω
26	PO 11 wrt PO 12	PS1 Motor Ignition SQB3 &4	0.8Ω to 1.1Ω	955mΩ	949mΩ
27	PO 13 wrt PO 14	PS2 Ullage rocket Ignition SQB1& 2	0.4Ω to 0.7Ω	514mΩ	516mΩ
28	PO 15 wrt PO 16	PS2 Ullage rocket Ignition SQB 3&4	0.4Ω to 0.7Ω	505mΩ	505mΩ
29	PO 17 wrt PO 18	PS2 Ullage rocket Ignition SQB5 & 6	0.4Ω to 0.7Ω	561mΩ	559mΩ
30	PO 19 wrt PO 20	PS2 Ullage rocket Ignition SQB7& 8	0.4Ω to 0.7Ω	481mΩ	481mΩ
31	CIP-5 wrt 6	BAT LIVE_P	<100mΩ	10mΩ	8mΩ
32	CIP-5 wrt 14		<100mΩ	7mΩ	8mΩ
33	CIP-5 wrt 15		<100mΩ	8mΩ	8mΩ
34	CIR-5 wrt 6	BAT LIVE_R	<100mΩ	10mΩ	10mΩ
35	CIR-5 wrt 14		<100mΩ	19mΩ	16mΩ
36	CIR-5 wrt 15		<100mΩ	6mΩ	9mΩ
37	CIP-7 wrt CIP-13	28V Coil supply(P)	150-350mΩ	256mΩ	255mΩ
38	CIR-7 wrt CIR-13	28V Coil supply(R)	<150mΩ	85mΩ	84mΩ
39	CIP-1 wrt CIR-1	PS2 ULL IGN cmd	400-700mΩ	506mΩ	502mΩ
40	CIP-2 wrt CIR-2	PS2 ULL IGN cmd/	200-400mΩ	282mΩ	281mΩ
41	MP 21 wrt MP 23	RCT Pyro Coil supply CP& CR	>100MΩ	>100MΩ	>100MΩ
42	MP 22 wrt MP 24	RCT Pyro Coil supply CP& CR- Ret	>100MΩ	>100MΩ	>100MΩ
43	MP 25 wrt MP 27	RCT Pyro Coil supply CP/ & CR/	>100MΩ	>100MΩ	>100MΩ
44	MP 26 wrt MP 28	RCT Pyro Coil supply CP/ & CR/- Ret	>100MΩ	>100MΩ	>100MΩ
45	MP 29 wrt MP 31	PS1 IGN CP& CR	>100MΩ	>100MΩ	>100MΩ
46	MP 30 wrt MP 32	PS1 IGN CP& CR- Ret	>100MΩ	>100MΩ	>100MΩ
47	MP 33 wrt MP 35	PS1 IGN CP/ & CR/	>100MΩ	>100MΩ	>100MΩ
48	MP 34 wrt MP 36	PS1 IGN CP/ & CR/-Ret	>100MΩ	>100MΩ	>100MΩ
49	CIP-5 wrt CIR-5	Contact i/p Pwrt R	>100MΩ	>100MΩ	>100MΩ
50	CIR-5 wrt CIP-5	Contact i/p R wrt P	>100MΩ	>100MΩ	>100MΩ
51	CIP-7 wrt CIR-7	Coil i/p Pwrt R	>100MΩ	>100MΩ	>100MΩ
52	CIR-7 wrt CIP-7	Coil i/p R wrt P	>100MΩ	>100MΩ	>100MΩ
53	CIP-5 wrt CIP-7	Contact i/p Pwrt Coil i/p P	>100MΩ	>100MΩ	>100MΩ
54	CIP-5 wrt CIR-7	Contact i/p Pwrt Coil i/p R	>100MΩ	>100MΩ	>100MΩ
55	CIR-5 wrt CIP-7	Contact i/p R wrt Coil i/p P	>100MΩ	>100MΩ	>100MΩ
56	CIR-5 wrt CIR-7	Contact i/p R wrt Coil i/p R	>100MΩ	>100MΩ	>100MΩ
57	CIP-7 wrt CIP-5	Coil i/p Pwrt Contact i/p P	>100MΩ	>100MΩ	>100MΩ

58	CIP-7 wrt CIR-5	Coil i/p Pwrt Contact i/p R	>100MΩ	>100MΩ	>100MΩ
59	CIR-7 wrt CIP-5	Coil i/p R wrt Contact i/p P	>100MΩ	>100MΩ	>100MΩ
60	CIR-7 wrt CIR-5	Coil i/p R wrt Contact i/p R	>100MΩ	>100MΩ	>100MΩ
61	CIP-7 wrt PO-1 to 37	Coil i/p Pwrt o/ps-P	>100MΩ	>100MΩ	>100MΩ
62	CIP-7 wrt RO-1 to 37	Coil i/p Pwrt o/ps-R	>100MΩ	>100MΩ	>100MΩ
63	CIP-7 wrt MP-1 to 50	Coil i/p Pwrt midpoints	>100MΩ	>100MΩ	>100MΩ
64	CIR-7 wrt PO-1 to 37	Coil i/p R wrt o/ps-P	>100MΩ	>100MΩ	>100MΩ
65	CIR-7 wrt RO-1 to 37	Coil i/p R wrt o/ps-R	>100MΩ	>100MΩ	>100MΩ
66	CIR-7 wrt MP-1 to 50	Coil i/p R wrt midpoints	>100MΩ	>100MΩ	>100MΩ
Coil resistance measurement					
67	MP-21 wrt MP-22	PS1 RCT PYRO_CP	310Ω ±31Ω	296.289Ω	294.114Ω
68	MP-23 wrt MP-24	PS1 RCT PYRO_CR	310Ω ±31Ω	298.153Ω	295.817Ω
69	MP-25 wrt MP-26	PS1 RCT PYRO_CP BAR	310Ω ±31Ω	297.043Ω	294.821Ω
70	MP-27 wrt MP-28	PS1 RCT PYRO_CR BAR	310Ω ±31Ω	298.055Ω	295.642Ω
71	MP-29 wrt MP-30	PS1 MOTOR IGN_CP	310Ω ±31Ω	322.311Ω	319.861Ω
72	MP-31 wrt MP-32	PS1 MOTOR IGN_CR	310Ω ±31Ω	319.121Ω	316.872Ω
74	MP-33 wrt MP-34	PS1 MOTOR IGN_CP BAR	310Ω ±31Ω	324.246Ω	321.692Ω
76	MP-35 wrt MP-36	PS1 MOTOR IGN_CR BAR	310Ω ±31Ω	317.900Ω	315.626Ω
All pins wrt Chassis			>100MΩ	>100MΩ	>100MΩ

List of Connectors in the package

1. CIP,CIR=15 pin Male
- 2.RO,PO=37 pin Female
- 3.MP=50 pin Female