

Revision	Date	Description	Short Description
1.0.0	2011/02/17	Initial release	Initial release
1.0.1	2011/02/18	Minor update	Minor update

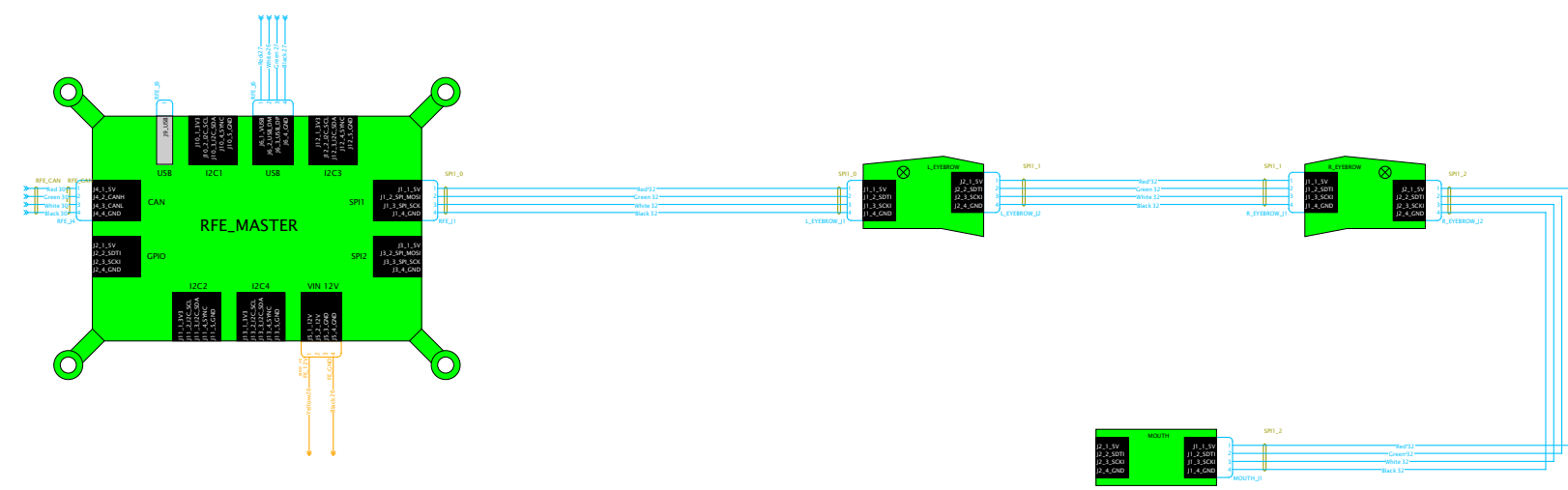
iit - Istituto Italiano di Tecnologia Via Marconi, 37 40138 - Genova		Project: iCub 2.5 Drawn: marco maggiali Created: marco maggiali Approved:
Document: Q_Architecture	Diagram: Diagram1	Revision: 3.3.0
Diagram Size: A1	Date: Thursday, October 26, 2017 3:28:34 PM	Sheet: 1 of 1

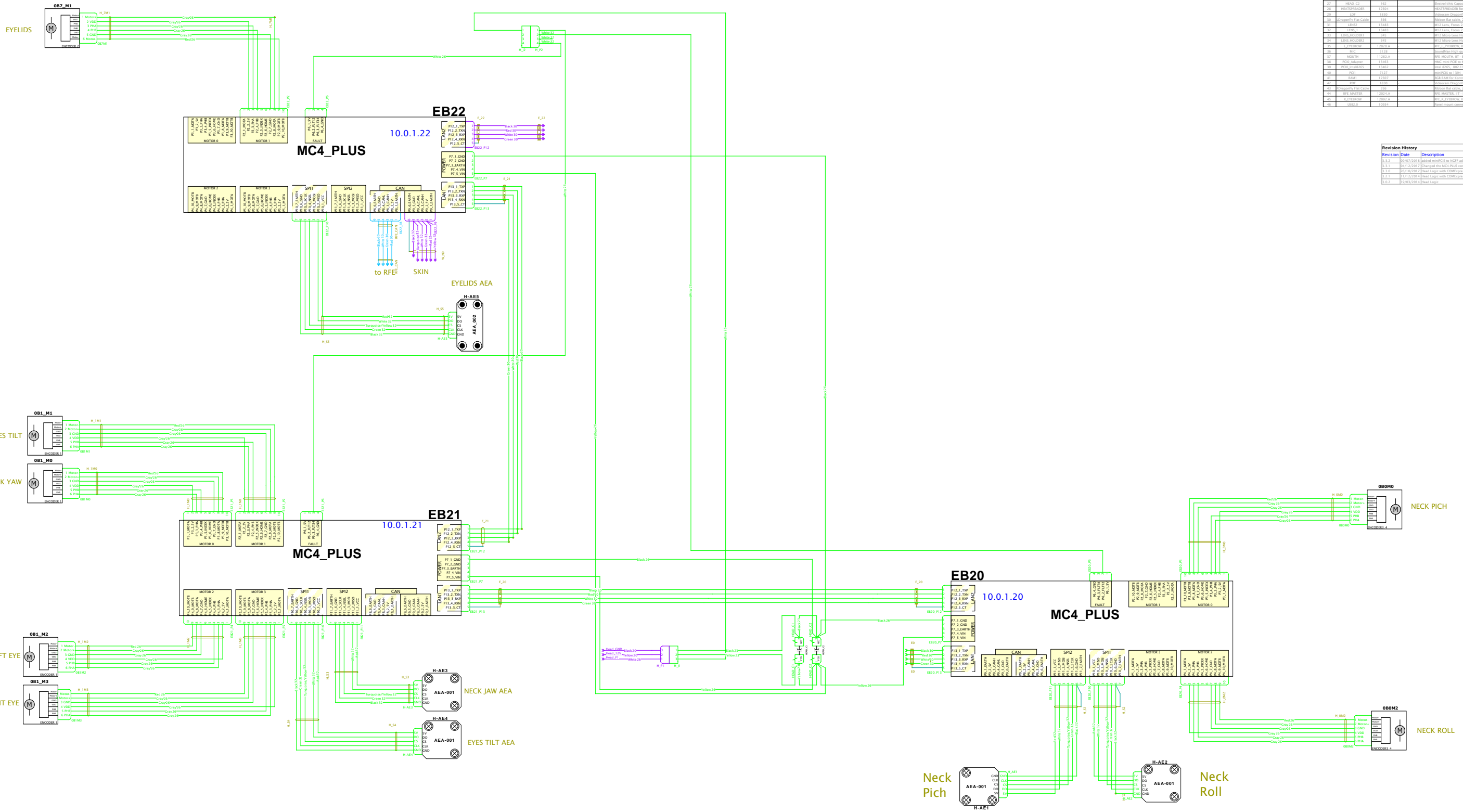


Index	Device	Part Number	Short Description	Part Description	Type Description
1	80000	2311.A		2311001-138-101-0 1310001	DC Motor
2	80000	2311.A		2311002-138-101-0 1310001	DC Motor
3	80000	2311.A		2311003-138-101-0 1310001	DC Motor
4	80000	2311.A		2311004-138-101-0 1310001	DC Motor
5	80000	2311.A		2311005-138-101-0 1310001	DC Motor
6	80000	2311.A		2311006-138-101-0 1310001	DC Motor
7	80000	2311.A		2311007-138-101-0 1310001	DC Motor
8	80000	2311.A		2311008-138-101-0 1310001	DC Motor
9	80000	2311.A		2311009-138-101-0 1310001	DC Motor
10	80000	2311.A		2311010-138-101-0 1310001	DC Motor
11	80000	2311.A		2311011-138-101-0 1310001	DC Motor
12	80000	2311.A		2311012-138-101-0 1310001	DC Motor
13	80000	2311.A		2311013-138-101-0 1310001	DC Motor
14	80000	2311.A		2311014-138-101-0 1310001	DC Motor
15	80000	2311.A		2311015-138-101-0 1310001	DC Motor
16	80000	2311.A		2311016-138-101-0 1310001	DC Motor
17	80000	2311.A		2311017-138-101-0 1310001	DC Motor
18	80000	2311.A		2311018-138-101-0 1310001	DC Motor
19	80000	2311.A		2311019-138-101-0 1310001	DC Motor
20	80000	2311.A		2311020-138-101-0 1310001	DC Motor
21	80000	2311.A		2311021-138-101-0 1310001	DC Motor
22	80000	2311.A		2311022-138-101-0 1310001	DC Motor
23	80000	2311.A		2311023-138-101-0 1310001	DC Motor
24	80000	2311.A		2311024-138-101-0 1310001	DC Motor
25	80000	2311.A		2311025-138-101-0 1310001	DC Motor
26	80000	2311.A		2311026-138-101-0 1310001	DC Motor
27	80000	2311.A		2311027-138-101-0 1310001	DC Motor
28	80000	2311.A		2311028-138-101-0 1310001	DC Motor
29	80000	2311.A		2311029-138-101-0 1310001	DC Motor
30	80000	2311.A		2311030-138-101-0 1310001	DC Motor
31	80000	2311.A		2311031-138-101-0 1310001	DC Motor
32	80000	2311.A		2311032-138-101-0 1310001	DC Motor
33	80000	2311.A		2311033-138-101-0 1310001	DC Motor
34	80000	2311.A		2311034-138-101-0 1310001	DC Motor
35	80000	2311.A		2311035-138-101-0 1310001	DC Motor
36	80000	2311.A		2311036-138-101-0 1310001	DC Motor
37	80000	2311.A		2311037-138-101-0 1310001	DC Motor
38	80000	2311.A		2311038-138-101-0 1310001	DC Motor
39	80000	2311.A		2311039-138-101-0 1310001	DC Motor
40	80000	2311.A		2311040-138-101-0 1310001	DC Motor
41	80000	2311.A		2311041-138-101-0 1310001	DC Motor
42	80000	2311.A		2311042-138-101-0 1310001	DC Motor
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44	80000	2311.A		2311044-138-101-0 1310001	DC Motor
45	80000	2311.A		2311045-138-101-0 1310001	DC Motor
46	80000	2311.A		2311046-138-101-0 1310001	DC Motor
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53	80000	2311.A		2311053-138-101-0 1310001	DC Motor
54	80000	2311.A		2311054-138-101-0 1310001	DC Motor
55	80000	2311.A		2311055-138-101-0 1310001	DC Motor
56	80000	2311.A		2311056-138-101-0 1310001	DC Motor
57	80000	2311.A		2311057-138-101-0 1310001	DC Motor
58	80000	2311.A		2311058-138-101-0 1310001	DC Motor
59	80000	2311.A		2311059-138-101-0 1310001	DC Motor
60	80000	2311.A		2311060-138-101-0 1310001	DC Motor
61	80000	2311.A		2311061-138-101-0 1310001	DC Motor
62	80000	2311.A		2311062-138-101-0 1310001	DC Motor
63	80000	2311.A		2311063-138-101-0 1310001	DC Motor
64	80000	2311.A		2311064-138-101-0 1310001	DC Motor
65	80000	2311.A		2311065-138-101-0 1310001	DC Motor
66	80000	2311.A		2311066-138-101-0 1310001	DC Motor
67	80000	2311.A		2311067-138-101-0 1310001	DC Motor
68	80000	2311.A		2311068-138-101-0 1310001	DC Motor
69	80000	2311.A		2311069-138-101-0 1310001	DC Motor
70	80000	2311.A		2311070-138-101-0 1310001	DC Motor
71	80000	2311.A		2311071-138-101-0 1310001	DC Motor
72	80000	2311.A		2311072-138-101-0 1310001	DC Motor
73	80000	2311.A		2311073-138-101-0 1310001	DC Motor
74	80000	2311.A		2311074-138-101-0 1310001	DC Motor
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77	80000	2311.A		2311077-138-101-0 1310001	DC Motor
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83	80000	2311.A		2311083-138-101-0 1310001	DC Motor
84	80000	2311.A		2311084-138-101-0 1310001	DC Motor
85	80000	2311.A		2311085-138-101-0 1310001	DC Motor
86	80000	2311.A		2311086-138-101-0 1310001	DC Motor
87	80000	2311.A		2311087-138-101-0 1310001	DC Motor
88	80000	2311.A		2311088-138-101-0 1310001	DC Motor
89	80000	2311.A		2311089-138-101-0 1310001	DC Motor
90	80000	2311.A		2311090-138-101-0 1310001	DC Motor
91	80000	2311.A		2311091-138-101-0 1310001	DC Motor
92	80000	2311.A		2311092-138-101-0 1310001	DC Motor
93	80000	2311.A		2311093-138-101-0 1310001	DC Motor
94	80000	2311.A		2311094-138-101-0 1310001	DC Motor
95	80000	2311.A		2311095-138-101-0 1310001	DC Motor
96	80000	2311.A		2311096-138-101-0 1310001	DC Motor
97	80000	2311.A		2311097-138-101-0 1310001	DC Motor
98	80000	2311.A		2311098-138-101-0 1310001	DC Motor
99	80000	2311.A		2311099-138-101-0 1310001	DC Motor
100	80000	2311.A		2311100-138-101-0 1310001	DC Motor

Harness attribute Legend	
Blue	Reference
Green	Wiring Harness
Yellow	Backbone Harness
Red	Control Harness
Pink	Power Harness
Black	Power Harness
Grey	Power Harness

Revision History		
Revision	Date	Description
1.0	2016/08/27	Initial release
1.1	2016/09/01	Added USB connector
1.2	2016/09/05	Added CAN connector
1.3	2016/09/10	Added CAN connector
1.4	2016/09/15	Added CAN connector
1.5	2016/09/20	Added CAN connector
1.6	2016/09/25	Added CAN connector
1.7	2016/10/01	Added CAN connector
1.8	2016/10/05	Added CAN connector
1.9	2016/10/10	Added CAN connector
1.10	2016/10/15	Added CAN connector
1.11	2016/10/20	Added CAN connector
1.12	2016/10/25	Added CAN connector
1.13	2016/11/01	Added CAN connector
1.14	2016/11/05	Added CAN connector
1.15	2016/11/10	Added CAN connector
1.16	2016/11/15	Added CAN connector
1.17	2016/11/20	Added CAN connector
1.18	2016/11/25	Added CAN connector
1.19	2016/12/01	Added CAN connector
1.20	2016/12/05	Added CAN connector
1.21	2016/12/10	Added CAN connector
1.22	2016/12/15	Added CAN connector
1.23	2016/12/20	Added CAN connector
1.24	2016/12/25	Added CAN connector
1.25	2017/01/01	Added CAN connector
1.26	2017/01/05	Added CAN connector
1.27	2017/01/10	Added CAN connector
1.28	2017/01/15	Added CAN connector
1.29	2017/01/20	Added CAN connector
1.30	2017/01/25	Added CAN connector
1.31	2017/02/01	Added CAN connector
1.32	2017/02/05	Added CAN connector
1.33	2017/02/10	Added CAN connector
1.34	2017/02/15	Added CAN connector
1.35	2017/02/20	Added CAN connector
1.36	2017/02/25	Added CAN connector
1.37	2017/03/01	Added CAN connector
1.38	2017/03/05	Added CAN connector
1.39	2017/03/10	Added CAN connector
1.40	2017/03/15	Added CAN connector
1.41	2017/03/20	Added CAN connector
1.42	2017/03/25	Added CAN connector
1.43	2017/04/01	Added CAN connector
1.44	2017/04/05	Added CAN connector
1.45	2017/04/10	Added CAN connector
1.46	2017/04/15	Added CAN connector
1.47	2017/04/20	Added CAN connector
1.48	2017/04/25	Added CAN connector
1.49	2017/05/01	Added CAN connector
1.50	2017/05/05	Added CAN connector
1.51	2017/05/10	Added CAN connector
1.52	2017/05/15	Added CAN connector
1.53	2017/05/20	Added CAN connector
1.54	2017/05/25	Added CAN connector
1.55	2017/06/01	Added CAN connector
1.56	2017/06/05	Added CAN connector
1.57	2017/06/10	Added CAN connector
1.58	2017/06/15	Added CAN connector
1.59	2017/06/20	Added CAN connector
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1.61	2017/07/01	Added CAN connector
1.62	2017/07/05	Added CAN connector
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1.67	2017/08/01	Added CAN connector
1.68	2017/08/05	Added CAN connector
1.69	2017/08/10	Added CAN connector
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1.80	2017/10/05	Added CAN connector
1.81	2017/10/10	Added CAN connector
1.82	2017/10/15	Added CAN connector
1.83	2017/10/20	Added CAN connector
1.84	2017/10/25	Added CAN connector
1.85	2017/11/01	Added CAN connector
1.86	2017/11/05	Added CAN connector
1.87	2017/11/10	Added CAN connector
1.88	2017/11/15	Added CAN connector
1.89	2017/11/20	Added CAN connector
1.90	2017/11/25	Added CAN connector
1.91	2017/12/01	Added CAN connector
1.92	2017/12/05	Added CAN connector
1.93	2017/12/10	Added CAN connector
1.94	2017/12/15	Added CAN connector
1.95	2017/12/20	Added CAN connector
1.96	2017/12/25	Added CAN connector
1.97	2018/01/01	Added CAN connector
1.98	2018/01/05	Added CAN connector
1.99	2018/01/10	Added CAN connector
1.100	2018/01/15	Added CAN connector

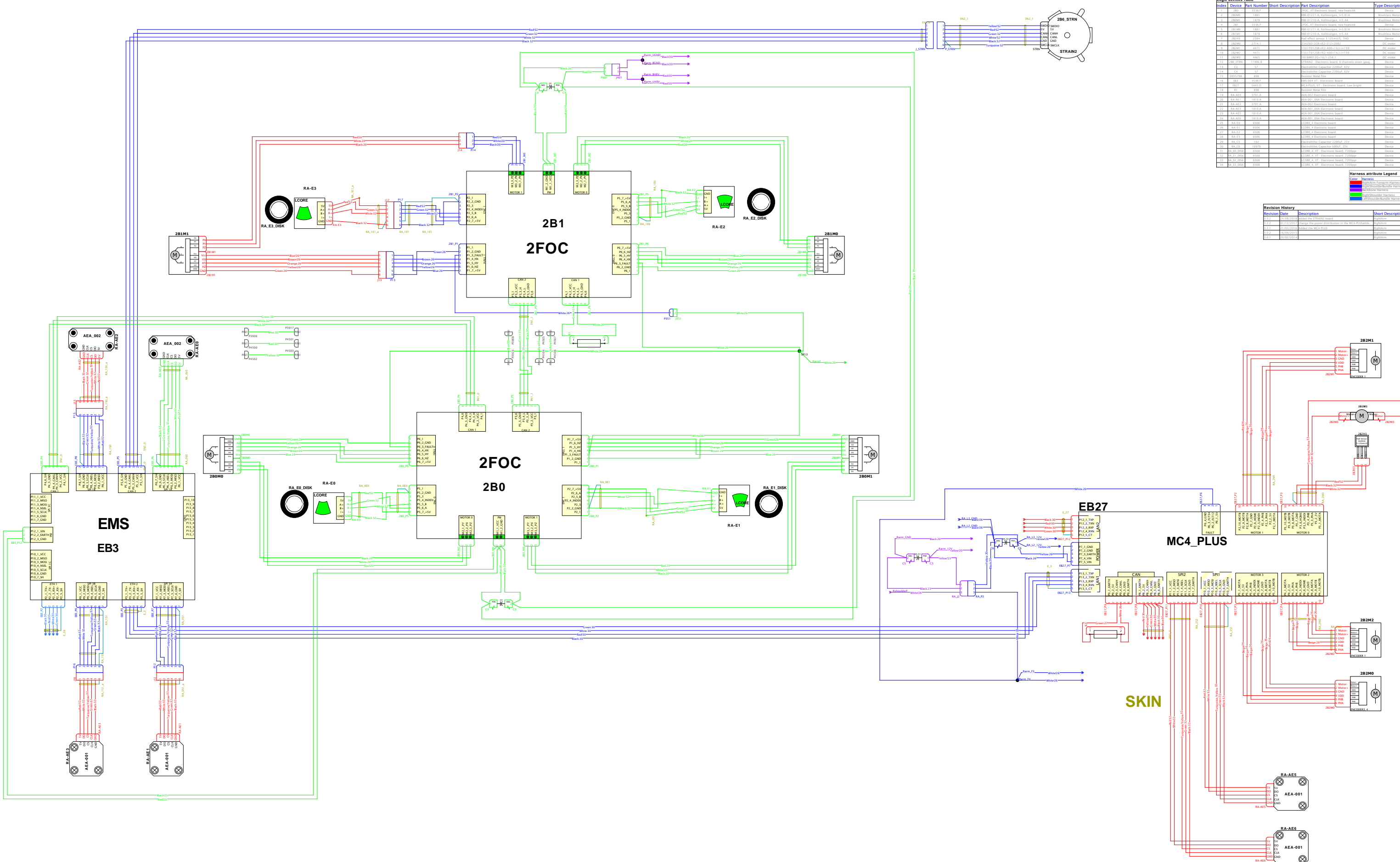




Index	Device	Part Number	Short Description	Part Description	Type Description
1	OB0M0	1001.1	OB0M0 (1001.1) 1001.1	OB0M0 (1001.1) 1001.1	DC motor
2	OB0M2	1001.1	OB0M2 (1001.1) 1001.1	OB0M2 (1001.1) 1001.1	DC motor
3	OB1_M0	1001.1	OB1_M0 (1001.1) 1001.1	OB1_M0 (1001.1) 1001.1	DC motor
4	OB1_M1	1001.1	OB1_M1 (1001.1) 1001.1	OB1_M1 (1001.1) 1001.1	DC motor
5	OB1_M2	1001.1	OB1_M2 (1001.1) 1001.1	OB1_M2 (1001.1) 1001.1	DC motor
6	OB1_M3	1001.1	OB1_M3 (1001.1) 1001.1	OB1_M3 (1001.1) 1001.1	DC motor
7	OB7_M1	1001.1	OB7_M1 (1001.1) 1001.1	OB7_M1 (1001.1) 1001.1	DC motor
8	AE	1001.1	AE (1001.1) 1001.1	AE (1001.1) 1001.1	Device
9	AE1	1001.1	AE1 (1001.1) 1001.1	AE1 (1001.1) 1001.1	Device
10	AE2	1001.1	AE2 (1001.1) 1001.1	AE2 (1001.1) 1001.1	Device
11	AE3	1001.1	AE3 (1001.1) 1001.1	AE3 (1001.1) 1001.1	Device
12	AE4	1001.1	AE4 (1001.1) 1001.1	AE4 (1001.1) 1001.1	Device
13	AE5	1001.1	AE5 (1001.1) 1001.1	AE5 (1001.1) 1001.1	Device
14	AE6	1001.1	AE6 (1001.1) 1001.1	AE6 (1001.1) 1001.1	Device
15	AE7	1001.1	AE7 (1001.1) 1001.1	AE7 (1001.1) 1001.1	Device
16	AE8	1001.1	AE8 (1001.1) 1001.1	AE8 (1001.1) 1001.1	Device
17	AE9	1001.1	AE9 (1001.1) 1001.1	AE9 (1001.1) 1001.1	Device
18	AE10	1001.1	AE10 (1001.1) 1001.1	AE10 (1001.1) 1001.1	Device
19	AE11	1001.1	AE11 (1001.1) 1001.1	AE11 (1001.1) 1001.1	Device
20	AE12	1001.1	AE12 (1001.1) 1001.1	AE12 (1001.1) 1001.1	Device
21	AE13	1001.1	AE13 (1001.1) 1001.1	AE13 (1001.1) 1001.1	Device
22	AE14	1001.1	AE14 (1001.1) 1001.1	AE14 (1001.1) 1001.1	Device
23	AE15	1001.1	AE15 (1001.1) 1001.1	AE15 (1001.1) 1001.1	Device
24	AE16	1001.1	AE16 (1001.1) 1001.1	AE16 (1001.1) 1001.1	Device
25	AE17	1001.1	AE17 (1001.1) 1001.1	AE17 (1001.1) 1001.1	Device
26	AE18	1001.1	AE18 (1001.1) 1001.1	AE18 (1001.1) 1001.1	Device
27	AE19	1001.1	AE19 (1001.1) 1001.1	AE19 (1001.1) 1001.1	Device
28	AE20	1001.1	AE20 (1001.1) 1001.1	AE20 (1001.1) 1001.1	Device
29	AE21	1001.1	AE21 (1001.1) 1001.1	AE21 (1001.1) 1001.1	Device
30	AE22	1001.1	AE22 (1001.1) 1001.1	AE22 (1001.1) 1001.1	Device
31	AE23	1001.1	AE23 (1001.1) 1001.1	AE23 (1001.1) 1001.1	Device
32	AE24	1001.1	AE24 (1001.1) 1001.1	AE24 (1001.1) 1001.1	Device
33	AE25	1001.1	AE25 (1001.1) 1001.1	AE25 (1001.1) 1001.1	Device
34	AE26	1001.1	AE26 (1001.1) 1001.1	AE26 (1001.1) 1001.1	Device
35	AE27	1001.1	AE27 (1001.1) 1001.1	AE27 (1001.1) 1001.1	Device
36	AE28	1001.1	AE28 (1001.1) 1001.1	AE28 (1001.1) 1001.1	Device
37	AE29	1001.1	AE29 (1001.1) 1001.1	AE29 (1001.1) 1001.1	Device
38	AE30	1001.1	AE30 (1001.1) 1001.1	AE30 (1001.1) 1001.1	Device
39	AE31	1001.1	AE31 (1001.1) 1001.1	AE31 (1001.1) 1001.1	Device
40	AE32	1001.1	AE32 (1001.1) 1001.1	AE32 (1001.1) 1001.1	Device
41	AE33	1001.1	AE33 (1001.1) 1001.1	AE33 (1001.1) 1001.1	Device
42	AE34	1001.1	AE34 (1001.1) 1001.1	AE34 (1001.1) 1001.1	Device
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44	AE36	1001.1	AE36 (1001.1) 1001.1	AE36 (1001.1) 1001.1	Device
45	AE37	1001.1	AE37 (1001.1) 1001.1	AE37 (1001.1) 1001.1	Device
46	AE38	1001.1	AE38 (1001.1) 1001.1	AE38 (1001.1) 1001.1	Device
47	AE39	1001.1	AE39 (1001.1) 1001.1	AE39 (1001.1) 1001.1	Device
48	AE40	1001.1	AE40 (1001.1) 1001.1	AE40 (1001.1) 1001.1	Device
49	AE41	1001.1	AE41 (1001.1) 1001.1	AE41 (1001.1) 1001.1	Device
50	AE42	1001.1	AE42 (1001.1) 1001.1	AE42 (1001.1) 1001.1	Device
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54	AE46	1001.1	AE46 (1001.1) 1001.1	AE46 (1001.1) 1001.1	Device
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59	AE51	1001.1	AE51 (1001.1) 1001.1	AE51 (1001.1) 1001.1	Device
60	AE52	1001.1	AE52 (1001.1) 1001.1	AE52 (1001.1) 1001.1	Device
61	AE53	1001.1	AE53 (1001.1) 1001.1	AE53 (1001.1) 1001.1	Device
62	AE54	1001.1	AE54 (1001.1) 1001.1	AE54 (1001.1) 1001.1	Device
63	AE55	1001.1	AE55 (1001.1) 1001.1	AE55 (1001.1) 1001.1	Device
64	AE56	1001.1	AE56 (1001.1) 1001.1	AE56 (1001.1) 1001.1	Device
65	AE57	1001.1	AE57 (1001.1) 1001.1	AE57 (1001.1) 1001.1	Device
66	AE58	1001.1	AE58 (1001.1) 1001.1	AE58 (1001.1) 1001.1	Device
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68	AE60	1001.1	AE60 (1001.1) 1001.1	AE60 (1001.1) 1001.1	Device
69	AE61	1001.1	AE61 (1001.1) 1001.1	AE61 (1001.1) 1001.1	Device
70	AE62	1001.1	AE62 (1001.1) 1001.1	AE62 (1001.1) 1001.1	Device
71	AE63	1001.1	AE63 (1001.1) 1001.1	AE63 (1001.1) 1001.1	Device
72	AE64	1001.1	AE64 (1001.1) 1001.1	AE64 (1001.1) 1001.1	Device
73	AE65	1001.1	AE65 (1001.1) 1001.1	AE65 (1001.1) 1001.1	Device
74	AE66	1001.1	AE66 (1001.1) 1001.1	AE66 (1001.1) 1001.1	Device
75	AE67	1001.1	AE67 (1001.1) 1001.1	AE67 (1001.1) 1001.1	Device
76	AE68	1001.1	AE68 (1001.1) 1001.1	AE68 (1001.1) 1001.1	Device
77	AE69	1001.1	AE69 (1001.1) 1001.1	AE69 (1001.1) 1001.1	Device
78	AE70	1001.1	AE70 (1001.1) 1001.1	AE70 (1001.1) 1001.1	Device
79	AE71	1001.1	AE71 (1001.1) 1001.1	AE71 (1001.1) 1001.1	Device
80	AE72	1001.1	AE72 (1001.1) 1001.1	AE72 (1001.1) 1001.1	Device
81	AE73	1001.1	AE73 (1001.1) 1001.1	AE73 (1001.1) 1001.1	Device
82	AE74	1001.1	AE74 (1001.1) 1001.1	AE74 (1001.1) 1001.1	Device
83	AE75	1001.1	AE75 (1001.1) 1001.1	AE75 (1001.1) 1001.1	Device
84	AE76	1001.1	AE76 (1001.1) 1001.1	AE76 (1001.1) 1001.1	Device
85	AE77	1001.1	AE77 (1001.1) 1001.1	AE77 (1001.1) 1001.1	Device
86	AE78	1001.1	AE78 (1001.1) 1001.1	AE78 (1001.1) 1001.1	Device
87	AE79	1001.1	AE79 (1001.1) 1001.1	AE79 (1001.1) 1001.1	Device
88	AE80	1001.1	AE80 (1001.1) 1001.1	AE80 (1001.1) 1001.1	Device
89	AE81	1001.1	AE81 (1001.1) 1001.1	AE81 (1001.1) 1001.1	Device
90	AE82	1001.1	AE82 (1001.1) 1001.1	AE82 (1001.1) 1001.1	Device
91	AE83	1001.1	AE83 (1001.1) 1001.1	AE83 (1001.1) 1001.1	Device
92	AE84	1001.1	AE84 (1001.1) 1001.1	AE84 (1001.1) 1001.1	Device
93	AE85	1001.1	AE85 (1001.1) 1001.1	AE85 (1001.1) 1001.1	Device
94	AE86	1001.1	AE86 (1001.1) 1001.1	AE86 (1001.1) 1001.1	Device
95	AE87	1001.1	AE87 (1001.1) 1001.1	AE87 (1001.1) 1001.1	Device
96	AE88	1001.1	AE88 (1001.1) 1001.1	AE88 (1001.1) 1001.1	Device
97	AE89	1001.1	AE89 (1001.1) 1001.1	AE89 (1001.1) 1001.1	Device
98	AE90	1001.1	AE90 (1001.1) 1001.1	AE90 (1001.1) 1001.1	Device
99	AE91	1001.1	AE91 (1001.1) 1001.1	AE91 (1001.1) 1001.1	Device
100	AE92	1001.1	AE92 (1001.1) 1001.1	AE92 (1001.1) 1001.1	Device

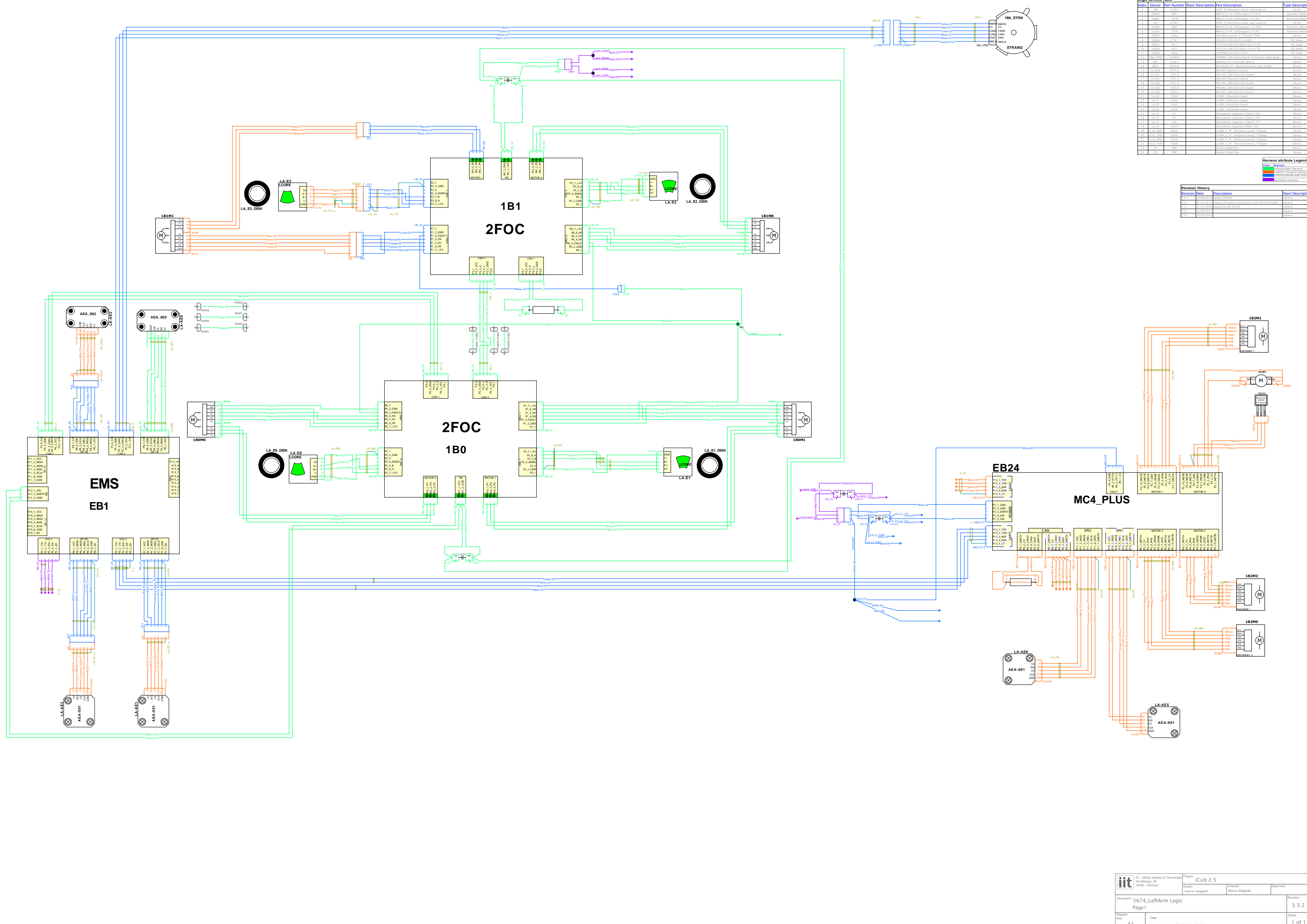
**Revision History**

Revision	Date	Description	Short Description
1.0	2018/07/27	Initial release of the head logic diagram.	Initial release of the head logic diagram.
1.1	2018/08/01	Added connections for the neck pitch and roll actuators.	Added connections for the neck pitch and roll actuators.
1.2	2018/08/05	Updated the motor driver configurations for the eye motors.	Updated the motor driver configurations for the eye motors.
1.3	2018/08/10	Added the CAN bus connections for the eye sensors.	Added the CAN bus connections for the eye sensors.
1.4	2018/08/15	Final revision of the head logic diagram.	Final revision of the head logic diagram.



**Logic devices Table**

Index	Device	Part Number	Short Description	Part Description	Type	Description
1	2B1M1	1310.F	2B1M1	2B1M1	Device	
2	2B1M2	1310.F	2B1M2	2B1M2	Device	
3	2B0M1	1310.F	2B0M1	2B0M1	Device	
4	2B0M2	1310.F	2B0M2	2B0M2	Device	
5	RA-E1	1310.F	RA-E1	RA-E1	Device	
6	RA-E2	1310.F	RA-E2	RA-E2	Device	
7	RA-E3	1310.F	RA-E3	RA-E3	Device	
8	RA-E4	1310.F	RA-E4	RA-E4	Device	
9	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
10	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
11	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
12	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
13	EB27	1310.F	EB27	EB27	Device	
14	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
15	SKIN	1310.F	SKIN	SKIN	Device	
16	2B1	1310.F	2B1	2B1	Device	
17	2B0	1310.F	2B0	2B0	Device	
18	EMS	1310.F	EMS	EMS	Device	
19	EB3	1310.F	EB3	EB3	Device	
20	EB27	1310.F	EB27	EB27	Device	
21	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
22	SKIN	1310.F	SKIN	SKIN	Device	
23	2B1M1	1310.F	2B1M1	2B1M1	Device	
24	2B1M2	1310.F	2B1M2	2B1M2	Device	
25	2B0M1	1310.F	2B0M1	2B0M1	Device	
26	2B0M2	1310.F	2B0M2	2B0M2	Device	
27	RA-E1	1310.F	RA-E1	RA-E1	Device	
28	RA-E2	1310.F	RA-E2	RA-E2	Device	
29	RA-E3	1310.F	RA-E3	RA-E3	Device	
30	RA-E4	1310.F	RA-E4	RA-E4	Device	
31	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
32	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
33	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
34	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
35	EB27	1310.F	EB27	EB27	Device	
36	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
37	SKIN	1310.F	SKIN	SKIN	Device	
38	2B1	1310.F	2B1	2B1	Device	
39	2B0	1310.F	2B0	2B0	Device	
40	EMS	1310.F	EMS	EMS	Device	
41	EB3	1310.F	EB3	EB3	Device	
42	EB27	1310.F	EB27	EB27	Device	
43	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
44	SKIN	1310.F	SKIN	SKIN	Device	
45	2B1M1	1310.F	2B1M1	2B1M1	Device	
46	2B1M2	1310.F	2B1M2	2B1M2	Device	
47	2B0M1	1310.F	2B0M1	2B0M1	Device	
48	2B0M2	1310.F	2B0M2	2B0M2	Device	
49	RA-E1	1310.F	RA-E1	RA-E1	Device	
50	RA-E2	1310.F	RA-E2	RA-E2	Device	
51	RA-E3	1310.F	RA-E3	RA-E3	Device	
52	RA-E4	1310.F	RA-E4	RA-E4	Device	
53	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
54	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
55	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
56	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
57	EB27	1310.F	EB27	EB27	Device	
58	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
59	SKIN	1310.F	SKIN	SKIN	Device	
60	2B1	1310.F	2B1	2B1	Device	
61	2B0	1310.F	2B0	2B0	Device	
62	EMS	1310.F	EMS	EMS	Device	
63	EB3	1310.F	EB3	EB3	Device	
64	EB27	1310.F	EB27	EB27	Device	
65	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
66	SKIN	1310.F	SKIN	SKIN	Device	
67	2B1M1	1310.F	2B1M1	2B1M1	Device	
68	2B1M2	1310.F	2B1M2	2B1M2	Device	
69	2B0M1	1310.F	2B0M1	2B0M1	Device	
70	2B0M2	1310.F	2B0M2	2B0M2	Device	
71	RA-E1	1310.F	RA-E1	RA-E1	Device	
72	RA-E2	1310.F	RA-E2	RA-E2	Device	
73	RA-E3	1310.F	RA-E3	RA-E3	Device	
74	RA-E4	1310.F	RA-E4	RA-E4	Device	
75	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
76	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
77	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
78	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
79	EB27	1310.F	EB27	EB27	Device	
80	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
81	SKIN	1310.F	SKIN	SKIN	Device	
82	2B1	1310.F	2B1	2B1	Device	
83	2B0	1310.F	2B0	2B0	Device	
84	EMS	1310.F	EMS	EMS	Device	
85	EB3	1310.F	EB3	EB3	Device	
86	EB27	1310.F	EB27	EB27	Device	
87	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
88	SKIN	1310.F	SKIN	SKIN	Device	
89	2B1M1	1310.F	2B1M1	2B1M1	Device	
90	2B1M2	1310.F	2B1M2	2B1M2	Device	
91	2B0M1	1310.F	2B0M1	2B0M1	Device	
92	2B0M2	1310.F	2B0M2	2B0M2	Device	
93	RA-E1	1310.F	RA-E1	RA-E1	Device	
94	RA-E2	1310.F	RA-E2	RA-E2	Device	
95	RA-E3	1310.F	RA-E3	RA-E3	Device	
96	RA-E4	1310.F	RA-E4	RA-E4	Device	
97	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
98	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
99	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
100	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
101	EB27	1310.F	EB27	EB27	Device	
102	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
103	SKIN	1310.F	SKIN	SKIN	Device	
104	2B1	1310.F	2B1	2B1	Device	
105	2B0	1310.F	2B0	2B0	Device	
106	EMS	1310.F	EMS	EMS	Device	
107	EB3	1310.F	EB3	EB3	Device	
108	EB27	1310.F	EB27	EB27	Device	
109	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
110	SKIN	1310.F	SKIN	SKIN	Device	
111	2B1M1	1310.F	2B1M1	2B1M1	Device	
112	2B1M2	1310.F	2B1M2	2B1M2	Device	
113	2B0M1	1310.F	2B0M1	2B0M1	Device	
114	2B0M2	1310.F	2B0M2	2B0M2	Device	
115	RA-E1	1310.F	RA-E1	RA-E1	Device	
116	RA-E2	1310.F	RA-E2	RA-E2	Device	
117	RA-E3	1310.F	RA-E3	RA-E3	Device	
118	RA-E4	1310.F	RA-E4	RA-E4	Device	
119	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
120	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
121	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
122	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
123	EB27	1310.F	EB27	EB27	Device	
124	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
125	SKIN	1310.F	SKIN	SKIN	Device	
126	2B1	1310.F	2B1	2B1	Device	
127	2B0	1310.F	2B0	2B0	Device	
128	EMS	1310.F	EMS	EMS	Device	
129	EB3	1310.F	EB3	EB3	Device	
130	EB27	1310.F	EB27	EB27	Device	
131	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
132	SKIN	1310.F	SKIN	SKIN	Device	
133	2B1M1	1310.F	2B1M1	2B1M1	Device	
134	2B1M2	1310.F	2B1M2	2B1M2	Device	
135	2B0M1	1310.F	2B0M1	2B0M1	Device	
136	2B0M2	1310.F	2B0M2	2B0M2	Device	
137	RA-E1	1310.F	RA-E1	RA-E1	Device	
138	RA-E2	1310.F	RA-E2	RA-E2	Device	
139	RA-E3	1310.F	RA-E3	RA-E3	Device	
140	RA-E4	1310.F	RA-E4	RA-E4	Device	
141	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
142	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
143	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
144	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
145	EB27	1310.F	EB27	EB27	Device	
146	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
147	SKIN	1310.F	SKIN	SKIN	Device	
148	2B1	1310.F	2B1	2B1	Device	
149	2B0	1310.F	2B0	2B0	Device	
150	EMS	1310.F	EMS	EMS	Device	
151	EB3	1310.F	EB3	EB3	Device	
152	EB27	1310.F	EB27	EB27	Device	
153	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
154	SKIN	1310.F	SKIN	SKIN	Device	
155	2B1M1	1310.F	2B1M1	2B1M1	Device	
156	2B1M2	1310.F	2B1M2	2B1M2	Device	
157	2B0M1	1310.F	2B0M1	2B0M1	Device	
158	2B0M2	1310.F	2B0M2	2B0M2	Device	
159	RA-E1	1310.F	RA-E1	RA-E1	Device	
160	RA-E2	1310.F	RA-E2	RA-E2	Device	
161	RA-E3	1310.F	RA-E3	RA-E3	Device	
162	RA-E4	1310.F	RA-E4	RA-E4	Device	
163	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
164	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
165	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
166	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
167	EB27	1310.F	EB27	EB27	Device	
168	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
169	SKIN	1310.F	SKIN	SKIN	Device	
170	2B1	1310.F	2B1	2B1	Device	
171	2B0	1310.F	2B0	2B0	Device	
172	EMS	1310.F	EMS	EMS	Device	
173	EB3	1310.F	EB3	EB3	Device	
174	EB27	1310.F	EB27	EB27	Device	
175	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
176	SKIN	1310.F	SKIN	SKIN	Device	
177	2B1M1	1310.F	2B1M1	2B1M1	Device	
178	2B1M2	1310.F	2B1M2	2B1M2	Device	
179	2B0M1	1310.F	2B0M1	2B0M1	Device	
180	2B0M2	1310.F	2B0M2	2B0M2	Device	
181	RA-E1	1310.F	RA-E1	RA-E1	Device	
182	RA-E2	1310.F	RA-E2	RA-E2	Device	
183	RA-E3	1310.F	RA-E3	RA-E3	Device	
184	RA-E4	1310.F	RA-E4	RA-E4	Device	
185	RA-E1_DISK	1310.F	RA-E1_DISK	RA-E1_DISK	Device	
186	RA-E2_DISK	1310.F	RA-E2_DISK	RA-E2_DISK	Device	
187	RA-E3_DISK	1310.F	RA-E3_DISK	RA-E3_DISK	Device	
188	RA-E4_DISK	1310.F	RA-E4_DISK	RA-E4_DISK	Device	
189	EB27	1310.F	EB27	EB27	Device	
190	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
191	SKIN	1310.F	SKIN	SKIN	Device	
192	2B1	1310.F	2B1	2B1	Device	
193	2B0	1310.F	2B0	2B0	Device	
194	EMS	1310.F	EMS	EMS	Device	
195	EB3	1310.F	EB3	EB3	Device	
196	EB27	1310.F	EB27	EB27	Device	
197	MC4_PLUS	1310.F	MC4_PLUS	MC4_PLUS	Device	
198	SKIN	1310.F	SKIN	SKIN	Device	
199	2B1M1	1310.F	2B1M1	2B1M1	Device	
200	2B1M2	1310.F	2B1M2	2B1M2	Device	
201	2B0M1	1310.F	2B0M1	2B0M1	Device	
202	2B0M2	1310.F	2B0M2	2B0M2	Device	
203	RA-E1	1310.F	RA-E1	RA-E1	Device	
204	RA-E2	1310.F	RA-E2	RA-E2	Device	
205	RA-E3	1310.F	RA-E3	RA-E3	Device	
206	RA-E4	1310.F	RA-E4	RA-E4	Device	
207	RA-E1_DISK	1310.F	RA-E1_DISK			



**Logic Devices Table**

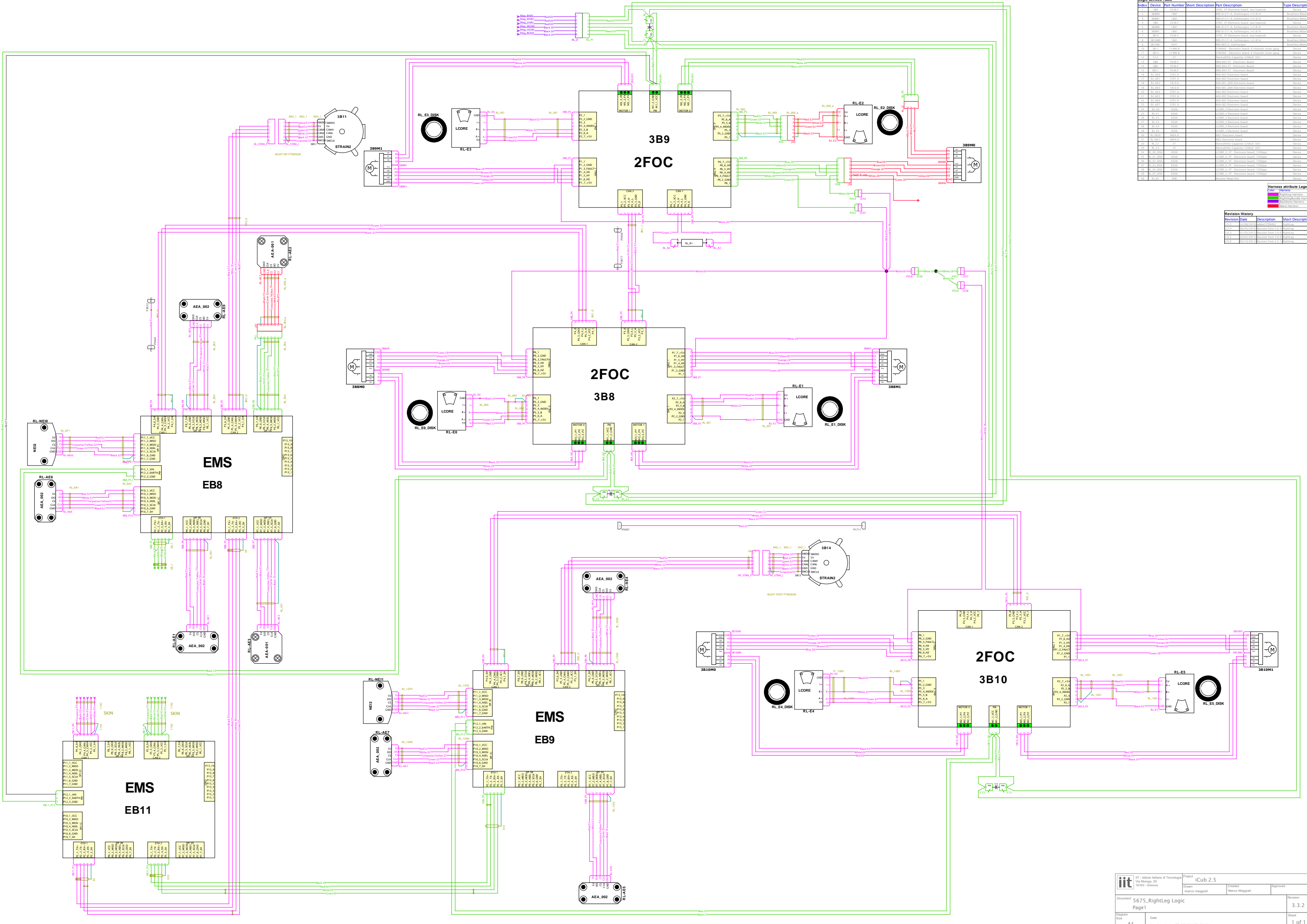
Index	Device	Part Number	Short Description	Part Description	Type	Description
1	18000	18000	Relay	Relay	Device	Relay
2	18001	18001	Relay	Relay	Device	Relay
3	18002	18002	Relay	Relay	Device	Relay
4	18003	18003	Relay	Relay	Device	Relay
5	18004	18004	Relay	Relay	Device	Relay
6	18005	18005	Relay	Relay	Device	Relay
7	18006	18006	Relay	Relay	Device	Relay
8	18007	18007	Relay	Relay	Device	Relay
9	18008	18008	Relay	Relay	Device	Relay
10	18009	18009	Relay	Relay	Device	Relay
11	18010	18010	Relay	Relay	Device	Relay
12	18011	18011	Relay	Relay	Device	Relay
13	18012	18012	Relay	Relay	Device	Relay
14	18013	18013	Relay	Relay	Device	Relay
15	18014	18014	Relay	Relay	Device	Relay
16	18015	18015	Relay	Relay	Device	Relay
17	18016	18016	Relay	Relay	Device	Relay
18	18017	18017	Relay	Relay	Device	Relay
19	18018	18018	Relay	Relay	Device	Relay
20	18019	18019	Relay	Relay	Device	Relay
21	18020	18020	Relay	Relay	Device	Relay
22	18021	18021	Relay	Relay	Device	Relay
23	18022	18022	Relay	Relay	Device	Relay
24	18023	18023	Relay	Relay	Device	Relay
25	18024	18024	Relay	Relay	Device	Relay
26	18025	18025	Relay	Relay	Device	Relay
27	18026	18026	Relay	Relay	Device	Relay
28	18027	18027	Relay	Relay	Device	Relay
29	18028	18028	Relay	Relay	Device	Relay
30	18029	18029	Relay	Relay	Device	Relay
31	18030	18030	Relay	Relay	Device	Relay
32	18031	18031	Relay	Relay	Device	Relay
33	18032	18032	Relay	Relay	Device	Relay
34	18033	18033	Relay	Relay	Device	Relay
35	18034	18034	Relay	Relay	Device	Relay
36	18035	18035	Relay	Relay	Device	Relay

**Harness attribute Legend**

Color	Attribute
Blue	Wiring Harness
Green	Wiring Harness
Orange	Wiring Harness
Purple	Wiring Harness
Black	Wiring Harness

**Revision History**

Revision	Date	Description	Short Description
1.0	2018-07-27	Initial Release	Initial Release
1.1	2018-08-01	Minor Changes	Minor Changes
1.2	2018-08-05	Minor Changes	Minor Changes
1.3	2018-08-10	Minor Changes	Minor Changes
1.4	2018-08-15	Minor Changes	Minor Changes
1.5	2018-08-20	Minor Changes	Minor Changes
1.6	2018-08-25	Minor Changes	Minor Changes
1.7	2018-09-01	Minor Changes	Minor Changes
1.8	2018-09-05	Minor Changes	Minor Changes
1.9	2018-09-10	Minor Changes	Minor Changes
1.10	2018-09-15	Minor Changes	Minor Changes



Index	Device	Part Number	Short Description	Part Description	Type
1	3B9	1300.F	SOLENOID	SOLENOID	Device
2	3B9	1300.F	SOLENOID	SOLENOID	Device
3	3B9	1300.F	SOLENOID	SOLENOID	Device
4	3B9	1300.F	SOLENOID	SOLENOID	Device
5	3B9	1300.F	SOLENOID	SOLENOID	Device
6	3B9	1300.F	SOLENOID	SOLENOID	Device
7	3B9	1300.F	SOLENOID	SOLENOID	Device
8	3B9	1300.F	SOLENOID	SOLENOID	Device
9	3B9	1300.F	SOLENOID	SOLENOID	Device
10	3B9	1300.F	SOLENOID	SOLENOID	Device
11	3B9	1300.F	SOLENOID	SOLENOID	Device
12	3B9	1300.F	SOLENOID	SOLENOID	Device
13	3B9	1300.F	SOLENOID	SOLENOID	Device
14	3B9	1300.F	SOLENOID	SOLENOID	Device
15	3B9	1300.F	SOLENOID	SOLENOID	Device
16	3B9	1300.F	SOLENOID	SOLENOID	Device
17	3B9	1300.F	SOLENOID	SOLENOID	Device
18	3B9	1300.F	SOLENOID	SOLENOID	Device
19	3B9	1300.F	SOLENOID	SOLENOID	Device
20	3B9	1300.F	SOLENOID	SOLENOID	Device
21	3B9	1300.F	SOLENOID	SOLENOID	Device
22	3B9	1300.F	SOLENOID	SOLENOID	Device
23	3B9	1300.F	SOLENOID	SOLENOID	Device
24	3B9	1300.F	SOLENOID	SOLENOID	Device
25	3B9	1300.F	SOLENOID	SOLENOID	Device
26	3B9	1300.F	SOLENOID	SOLENOID	Device
27	3B9	1300.F	SOLENOID	SOLENOID	Device
28	3B9	1300.F	SOLENOID	SOLENOID	Device
29	3B9	1300.F	SOLENOID	SOLENOID	Device
30	3B9	1300.F	SOLENOID	SOLENOID	Device
31	3B9	1300.F	SOLENOID	SOLENOID	Device
32	3B9	1300.F	SOLENOID	SOLENOID	Device
33	3B9	1300.F	SOLENOID	SOLENOID	Device
34	3B9	1300.F	SOLENOID	SOLENOID	Device
35	3B9	1300.F	SOLENOID	SOLENOID	Device
36	3B9	1300.F	SOLENOID	SOLENOID	Device
37	3B9	1300.F	SOLENOID	SOLENOID	Device
38	3B9	1300.F	SOLENOID	SOLENOID	Device
39	3B9	1300.F	SOLENOID	SOLENOID	Device
40	3B9	1300.F	SOLENOID	SOLENOID	Device
41	3B9	1300.F	SOLENOID	SOLENOID	Device
42	3B9	1300.F	SOLENOID	SOLENOID	Device
43	3B9	1300.F	SOLENOID	SOLENOID	Device
44	3B9	1300.F	SOLENOID	SOLENOID	Device
45	3B9	1300.F	SOLENOID	SOLENOID	Device
46	3B9	1300.F	SOLENOID	SOLENOID	Device
47	3B9	1300.F	SOLENOID	SOLENOID	Device
48	3B9	1300.F	SOLENOID	SOLENOID	Device
49	3B9	1300.F	SOLENOID	SOLENOID	Device
50	3B9	1300.F	SOLENOID	SOLENOID	Device

Harness attribute Legend

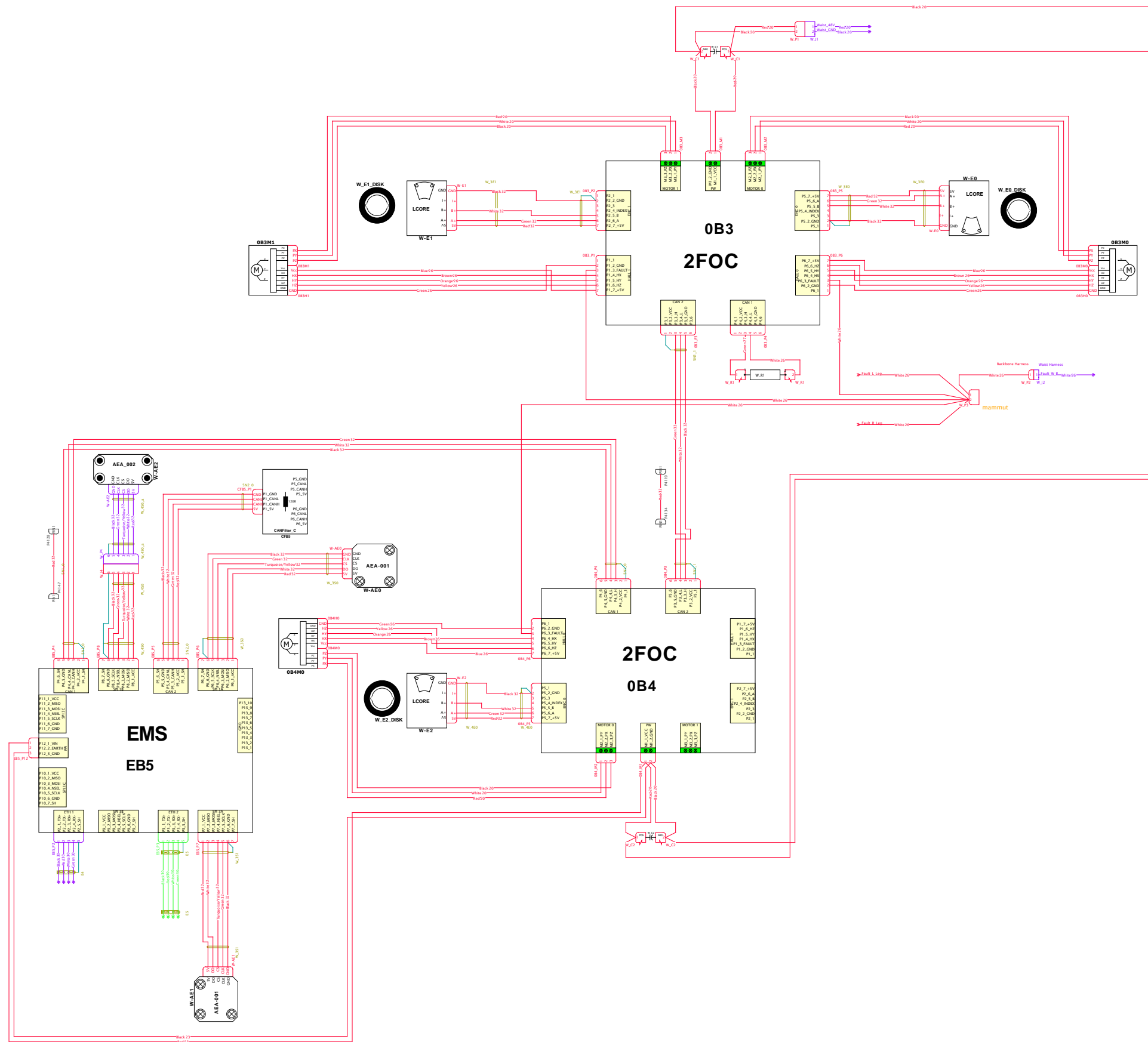
- Blue: Harness
- Green: Harness
- Yellow: Harness
- Red: Harness

Revision	Date	Description	Short Description
1.0	10/02/2018	Initial Design	Initial Design
1.1	10/02/2018	Revision from 1.0	Revision from 1.0
1.2	10/02/2018	Revision from 1.1	Revision from 1.1
1.3	10/02/2018	Revision from 1.2	Revision from 1.2
1.4	10/02/2018	Revision from 1.3	Revision from 1.3









**Logic devices Table**

Index	Device	Part Number	Part Description	Type	Description
1	OB3	1330.P	2FOC 2P 2FOC	Device	
2	OB3M1	1331	2FOC 2P 2FOC	Device	
3	OB3M2	1332	2FOC 2P 2FOC	Device	
4	OB4	1333	2FOC 2P 2FOC	Device	
5	OB4M1	1334	2FOC 2P 2FOC	Device	
6	OB4M2	1335	2FOC 2P 2FOC	Device	
7	OB5	1336	2FOC 2P 2FOC	Device	
8	OB5M1	1337	2FOC 2P 2FOC	Device	
9	OB5M2	1338	2FOC 2P 2FOC	Device	
10	OB6	1339	2FOC 2P 2FOC	Device	
11	OB6M1	1340	2FOC 2P 2FOC	Device	
12	OB6M2	1341	2FOC 2P 2FOC	Device	
13	OB7	1342	2FOC 2P 2FOC	Device	
14	OB7M1	1343	2FOC 2P 2FOC	Device	
15	OB7M2	1344	2FOC 2P 2FOC	Device	
16	OB8	1345	2FOC 2P 2FOC	Device	
17	OB8M1	1346	2FOC 2P 2FOC	Device	
18	OB8M2	1347	2FOC 2P 2FOC	Device	
19	OB9	1348	2FOC 2P 2FOC	Device	
20	OB9M1	1349	2FOC 2P 2FOC	Device	
21	OB9M2	1350	2FOC 2P 2FOC	Device	

**Harness attribute Leg**

Blue	Backbone Harness
Green	Wired Harness
Orange	Control Harness
White	Signal Harness

**Revision History**

Revision	Date	Description	Short Description
1.0	17/03/2017	Issue	
1.1	17/03/2017	Issue	
1.2	17/03/2017	Issue	
1.3	17/03/2017	Issue	
1.4	17/03/2017	Issue	
1.5	17/03/2017	Issue	
1.6	17/03/2017	Issue	
1.7	17/03/2017	Issue	
1.8	17/03/2017	Issue	
1.9	17/03/2017	Issue	
1.10	17/03/2017	Issue	
1.11	17/03/2017	Issue	
1.12	17/03/2017	Issue	
1.13	17/03/2017	Issue	
1.14	17/03/2017	Issue	
1.15	17/03/2017	Issue	
1.16	17/03/2017	Issue	
1.17	17/03/2017	Issue	
1.18	17/03/2017	Issue	
1.19	17/03/2017	Issue	
1.20	17/03/2017	Issue	
1.21	17/03/2017	Issue	
1.22	17/03/2017	Issue	
1.23	17/03/2017	Issue	
1.24	17/03/2017	Issue	
1.25	17/03/2017	Issue	
1.26	17/03/2017	Issue	
1.27	17/03/2017	Issue	
1.28	17/03/2017	Issue	
1.29	17/03/2017	Issue	
1.30	17/03/2017	Issue	
1.31	17/03/2017	Issue	
1.32	17/03/2017	Issue	
1.33	17/03/2017	Issue	
1.34	17/03/2017	Issue	
1.35	17/03/2017	Issue	
1.36	17/03/2017	Issue	
1.37	17/03/2017	Issue	
1.38	17/03/2017	Issue	
1.39	17/03/2017	Issue	
1.40	17/03/2017	Issue	
1.41	17/03/2017	Issue	
1.42	17/03/2017	Issue	
1.43	17/03/2017	Issue	
1.44	17/03/2017	Issue	
1.45	17/03/2017	Issue	
1.46	17/03/2017	Issue	
1.47	17/03/2017	Issue	
1.48	17/03/2017	Issue	
1.49	17/03/2017	Issue	
1.50	17/03/2017	Issue	





Index	Device	Part Number	Part Description	Type	Description
1	BP1	BP01	Battery Module with BMS (30V & 3Ah)	Device	
2	BatteryCharger	10001	Battery Charger (30V, 3000mAh)	Device	
3	BP2	BP21	BCB Backplane Board	Device	
4	BP3	BP31	BBA Backplane Board	Device	
5	BP4	BP41	BP4 Backplane Board	Device	
6	BP5	BP51	BP5 Backplane Board	Device	
7	FAN1	FAN1	FAN 12V	Device	
8	FAN2	FAN2	FAN 12V	Device	
9	FAN3	FAN3	FAN 12V	Device	
10	FAN4	FAN4	FAN 12V	Device	
11	FAN5	FAN5	FAN 12V	Device	
12	FAN6	FAN6	FAN 12V	Device	

Harness attribute Leg...	
Color	Harness
Blue	Backbone Harness
Green	Front Panel Harness
Red	Backplane Harness 1
Black	Backplane Harness

Revision	Date	Description	Author
3.1	2017/05/01	Initial rev. 12V Motor connection	12V Motor with Backhaul
3.0	2017/05/01	Initial Data Battery	12V Motor with Backhaul

