

PART NO.	MODULE NO.	FIND NO. 1	FIND NO. 2	MODULE DECK NO.	NEXT ASSEMBLY NO. (REF)	PROCUREMENT SPECIFICATION SEE NOTE 15
2003972-001	B1	2003060-061	2003061-061	0215	202101	PS 2003972
2003972-021	B2	2003060-071	2003061-071	0215	202101	
2003972-031	B3	2003060-081	2003061-081	0207	202101	
2003972-041	B1	2003060-121	2003061-121	0210	202104	
2003972-051	B2	2003060-131	2003061-131	0211	202104	
2003972-061	B3	2003060-141	2003061-141	0212	202104	
2003972-071	B2	2003060-151	2003061-151	0213	202104	
2003972-081	B3	2003060-161	2003061-161	0214	202104	
2003972-091	B2	2003060-171	2003061-171	0215	202101	
2003972-111	B3	2003060-181	2003061-181	0216	202101	PS 2003972
2003972-121	B1	2003060-09	2003061-09	0208	202105	PS 2003960
2003972-131	B2	2003060-11	2003061-11	0209	202105	PS 2003960
2003972-141	B3	2003060-19	2003061-19	0217	202105	PS 2003972
2003972-151	B1	2003060-211	2003061-211	0218	202106	PS 2003972
2003972-161	B3	2003060-221	2003061-221	0219	202106	PS 2003972
2003972-171	B4	2003060-231	2003061-231	0220	202106	PS 2003972
2003972-181	B2	2003060-241	2003061-241	0221	202106	PS 2003972
2003972-191	B6	2003060-251	2003061-251	0222	202106	PS 2003972
2003972-211	B3	2003060-261	2003061-261	0223	202104	PS 2003972
2003972-221	B1	2003060-271	2003061-271	0224	202105	PS 2003960
2003972-231	B1	2003060-281	2003061-281	0225	202106	PS 2003972
2003972-241	B3	2003060-291	2003061-291	0226	202106	PS 2003972
2003972-251	B5	2003060-301	2003061-301	0227	202106	PS 2003972
2003972-261	B1	2003060-311	2003061-311	0228	202107	PS 2003972
2003972-271	B2	2003060-321	2003061-321	0229	202107	PS 2003972
2003972-281	B3	2003060-331	2003061-331	0230	202107	PS 2003972
2003972-291	B1	2003060-351	2003061-351	0238	202107	PS 2003972
2003972-301	B2	2003060-361	2003061-361	0239	202108	PS 2003972
2003972-311	B3	2003060-371	2003061-371	0240	202108	PS 2003972
2003972-321	B4	2003060-381	2003061-381	0241	202108	PS 2003972
2003972-331	B5	2003060-391	2003061-391	0242	202108	PS 2003972
2003972-341	B1	2003060-401	2003061-401	0244	202108	PS 2003972
2003972-351	B2	2003060-411	2003061-411	0245	202108	PS 2003972
2003972-361	B3	2003060-421	2003061-421	0246	202108	PS 2003972
2003972-371	B4	2003060-431	2003061-431	0247	202108	PS 2003972
2003972-381	B5	2003060-441	2003061-441	0248	202108	PS 2003972
2003972-391	B6	2003060-451	2003061-451	0249	202108	PS 2003972
2003972-401	B1	2003060-461	2003061-461	0250	202108	PS 2003972
2003972-411	B2	2003060-471	2003061-471	0251	202108	PS 2003972
2003972-421	B3	2003060-481	2003061-481	0252	202108	PS 2003972
2003972-431	B4	2003060-491	2003061-491	0253	202108	PS 2003972
2003972-441	B5	2003060-501	2003061-501	0254	202108	PS 2003972
2003972-451	B6	2003060-511	2003061-511	0255	202108	PS 2003972
2003972-461	B1	2003060-521	2003061-521	0256	202108	PS 2003972
2003972-471	B2	2003060-531	2003061-531	0257	202108	PS 2003972
2003972-481	B3	2003060-541	2003061-541	0258	202108	PS 2003972
2003972-491	B4	2003060-551	2003061-551	0259	202108	PS 2003972
2003972-501	B5	2003060-561	2003061-561	0260	202108	PS 2003972
2003972-511	B6	2003060-571	2003061-571	0261	202108	PS 2003972
2003972-521	B1	2003060-581	2003061-581	0262	202108	PS 2003972
2003972-531	B2	2003060-591	2003061-591	0263	202108	PS 2003972
2003972-541	B3	2003060-601	2003061-601	0264	202108	PS 2003972
2003972-551	B4	2003060-611	2003061-611	0265	202108	PS 2003972
2003972-561	B5	2003060-621	2003061-621	0266	202108	PS 2003972
2003972-571	B6	2003060-631	2003061-631	0267	202108	PS 2003972
2003972-581	B1	2003060-641	2003061-641	0268	202108	PS 2003972
2003972-591	B2	2003060-651	2003061-651	0269	202108	PS 2003972
2003972-601	B3	2003060-661	2003061-661	0270	202108	PS 2003972
2003972-611	B4	2003060-671	2003061-671	0271	202108	PS 2003972
2003972-621	B5	2003060-681	2003061-681	0272	202108	PS 2003972
2003972-631	B6	2003060-691	2003061-691	0273	202108	PS 2003972
2003972-641	B1	2003060-701	2003061-701	0274	202108	PS 2003972
2003972-651	B2	2003060-711	2003061-711	0275	202108	PS 2003972
2003972-661	B3	2003060-721	2003061-721	0276	202108	PS 2003972
2003972-671	B4	2003060-731	2003061-731	0277	202108	PS 2003972
2003972-681	B5	2003060-741	2003061-741	0278	202108	PS 2003972
2003972-691	B6	2003060-751	2003061-751	0279	202108	PS 2003972
2003972-701	B1	2003060-761	2003061-761	0280	202108	PS 2003972
2003972-711	B2	2003060-771	2003061-771	0281	202108	PS 2003972
2003972-721	B3	2003060-781	2003061-781	0282	202108	PS 2003972
2003972-731	B4	2003060-791	2003061-791	0283	202108	PS 2003972
2003972-741	B5	2003060-801	2003061-801	0284	202108	PS 2003972
2003972-751	B6	2003060-811	2003061-811	0285	202108	PS 2003972
2003972-761	B1	2003060-821	2003061-821	0286	202108	PS 2003972
2003972-771	B2	2003060-831	2003061-831	0287	202108	PS 2003972
2003972-781	B3	2003060-841	2003061-841	0288	202108	PS 2003972
2003972-791	B4	2003060-851	2003061-851	0289	202108	PS 2003972
2003972-801	B5	2003060-861	2003061-861	0290	202108	PS 2003972
2003972-811	B6	2003060-871	2003061-871	0291	202108	PS 2003972
2003972-821	B1	2003060-881	2003061-881	0292	202108	PS 2003972
2003972-831	B2	2003060-891	2003061-891	0293	202108	PS 2003972
20						

REV	DATE	REV BY	REV FOR
A	1966-02-01		INITIAL RELEASE
B	1966-02-01		REVISED PER TORR 33464
C	1966-02-01		REVISED PER TORR 33464
D	1966-02-01		REVISED PER TORR 33466
E	1966-02-01		REVISED PER TORR 33466
F	1966-02-01		REVISED PER TORR 33468
G	1966-02-01		REVISED PER TORR 33470
H	1966-02-01		REVISED PER TORR 33470
I	1966-02-01		REVISED PER TORR 33470
J	1966-02-01		REVISED PER TORR 33470
K	1966-02-01		REVISED PER TORR 33470
L	1966-02-01		REVISED PER TORR 33470
M	1966-02-01		REVISED PER TORR 33470
N	1966-02-01		REVISED PER TORR 33470
O	1966-02-01		REVISED PER TORR 33470
P	1966-02-01		REVISED PER TORR 33470
Q	1966-02-01		REVISED PER TORR 33470
R	1966-02-01		REVISED PER TORR 33470
S	1966-02-01		REVISED PER TORR 33470
T	1966-02-01		REVISED PER TORR 33470
U	1966-02-01		REVISED PER TORR 33470
V	1966-02-01		REVISED PER TORR 33470
W	1966-02-01		REVISED PER TORR 33470
X	1966-02-01		REVISED PER TORR 33470
Y	1966-02-01		REVISED PER TORR 33470
Z	1966-02-01		REVISED PER TORR 33470
AB	1966-02-01		REVISED PER TORR 33470
AC	1966-02-01		REVISED PER TORR 33470
AD	1966-02-01		REVISED PER TORR 33470
AE	1966-02-01		REVISED PER TORR 33470

QTY	ITEM NO.	DESCRIPTION	REV
1			
LIST OF MATERIALS			
1	INSTRUMENTATION LAB	MANNED SPACECRAFT CENTER	
1	CAMBRIDGE MASS	HOUSTON TEXAS	
DRAWN BY: DATE: APPROVED BY: APPROVED DATE:			
CHECKED BY: APPROVED BY: APPROVED DATE:			
REVIEWED BY: APPROVED BY: APPROVED DATE:			
APPROVED BY: APPROVED DATE:			
NEXT REV: USED ON: APPLICATION:			
CODE IDENT NO. DATE: DRAWING NO. DATE:			
80230 J 2003972			

WIRE LIST	
PIN NO.	COMPONENT OR TERM. NO.
101	A-EI-213
102	A-EI-211
103	A-EI-211
104	A-EI-211
105	A-EI-210
106	A-EI-209
107	A-EI-207
108	A-EI-207
109	A-EI-206
110	A-EI-205
111	A-EI-204
112	A-EI-203
113	A-EI-201
114	A-EI-201
115	A-EI-200
116	A-EI-199
117	A-EI-198
118	A-EI-197
119	A-EI-197
120	A-EI-195
121	A-EI-194
122	A-EI-194
123	A-EI-193
124	A-EI-193
125	A-EI-193
126	A-CR208
127	A-CR207
128	A-CR206
129	A-CR215
130	A-CR216
131	A-CR217
132	A-CR218
133	A-CR219
134	A-CR220
135	A-CR221
136	A-CR222
137	A-CR223
138	A-CR224
139	A-CR225
140	A-CR226
141	A-CR227
142	A-CR228
143	A-CR229
144	A-CR230
145	A-CR231
146	A-CR232
147	A-CR233
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149	A-CR235
150	A-CR236
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152	A-CR238
153	A-CR239
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164	A-CR250
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166	A-CR252
167	A-CR253
168	A-CR254
169	A-CR255
170	A-CR256
171	A-CR257
172	A-CR258
173	A-CR259
174	A-CR260
175	A-CR261
176	A-CR262
177	A-CR263
178	A-CR264
179	A-CR265
180	A-CR266
181	A-CR267
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186	A-CR272
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212	A-CR298
213	A-CR299
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215	A-CR205
216	A-CR206
217	A-CR207
218	A-CR208
219	A-CR209
220	A-CR210
221	A-CR211
222	A-CR212
223	A-CR213
224	A-CR214

WIRE LIST	
TERMINAL NO.	TERMINAL NO.
SPARE	SPARE
CR215	R176
CR216	R164
CR217	R112
CR218	R80
CR219	R48
CR220	R16
CR221	R32
CR222	R17
CR223	R160
CR224	R128
CR225	R96
CR226	R32
CR227	R17
CR228	R192
CR229	R192
CR230	R192
CR231	R192
CR232	R192
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CR227	R192
CR228	R192
CR229	R192
CR230	R192
CR231	R192
CR232	R192
CR233	R192
CR234	R192
CR235	R192</td

PART NO	MODULE NO	FIND NO 1	FIND NO 2	MODULE DECK NO	NEXT ASSEMBLY NO	PROCUREMENT SPECIFICATION SEE NOTE 15
2003972 - 1041	B1	2003060 - 1091	2003061 - 1091	0305	2021112 - 051	PS 2016036
2003972 - 1051	B2	2003060 - 1111	2003061 - 1111	0306	2021112 - 051	PS 2016036
2003972 - 1061	B5	2003060 - 1121	2003061 - 1121	0307	2021112 - 051	PS 2016036
2003972 - 1071	B1	2003060 - 1091	2003061 - 1151	0308	2021112 - 061	PS 2016036
2003972 - 1081	B2	2003060 - 1151	2003061 - 1151	0309	2021113 - 061	PS2016036
2003972 - 1091	B3	2003060 - 1151	2003061 - 1151	0310	2021112 - 061	PS 2016036
2003972 - 1101	B4	2003060 - 1161	2003061 - 1161	0311	2021113 - 061	PS2016036
2003972 - 1111	B5	2003060 - 1171	2003061 - 1171	0312	2021113 - 061	PS2016036
2003972 - 1121	B6	2003060 - 1171	2003061 - 1171	0313	2021113 - 061	PS2016036
2003972 - 1131	B7	2003060 - 1181	2003061 - 1181	0314	2021113 - 061	PS2016036
2003972 - 1141	B8	2003060 - 1181	2003061 - 1181	0315	2021113 - 061	PS2016036

WIRE LIST											
TERM. NO.	COMPONENT NO.										
A-EI-1	A-CR1	A-EI-97	A-CR97	B-EI-9	B-CR97	R1	A-EI-49	R49	A-EI-87	R97	A-EI-145
A-EI-2	A-CR2	B-EI-9	B-CR9	B-EI-10	B-CR10	R2	B-EI-50	R50	B-EI-89	R98	B-EI-146
A-EI-3	A-CR3	A-EI-99	A-CR99	B-EI-1	B-CR1	R3	A-EI-51	R51	A-EI-99	R99	B-EI-147
A-EI-4	A-CR4	A-EI-100	A-CR100	B-EI-4	B-CR4	R4	A-EI-52	R52	A-EI-100	R100	A-EI-148
A-EI-5	A-CR5	A-EI-101	A-CR101	B-EI-5	B-CR5	R5	A-EI-53	R53	A-EI-101	R101	A-EI-149
A-EI-6	A-CR6	A-EI-102	A-CR102	B-EI-6	B-CR6	R6	A-EI-54	R54	A-EI-102	R102	A-EI-150
A-EI-7	A-CR7	A-EI-103	A-CR103	B-EI-7	B-CR7	R7	A-EI-55	R55	A-EI-103	R103	A-EI-151
A-EI-8	A-CR8	A-EI-104	A-CR104	B-EI-8	B-CR8	R8	A-EI-56	R56	A-EI-104	R104	A-EI-152
A-EI-9	A-CR9	A-EI-105	A-CR105	B-EI-9	B-CR9	R9	A-EI-57	R57	A-EI-105	R105	A-EI-153
A-EI-10	A-CR10	A-EI-106	A-CR106	B-EI-10	B-CR10	R10	A-EI-58	R58	A-EI-106	R106	A-EI-154
A-EI-11	A-CR11	A-EI-107	A-CR107	B-EI-11	B-CR11	R11	A-EI-59	R59	A-EI-107	R107	A-EI-155
A-EI-12	A-CR12	A-EI-108	A-CR108	B-EI-12	B-CR12	R12	A-EI-60	R60	A-EI-108	R108	A-EI-156
A-EI-13	A-CR13	A-EI-109	A-CR109	B-EI-13	B-CR13	R13	A-EI-61	R61	A-EI-109	R109	A-EI-157
A-EI-14	A-CR14	A-EI-110	A-CR110	B-EI-14	B-CR14	R14	A-EI-62	R62	A-EI-110	R110	A-EI-158
A-EI-15	A-CR15	A-EI-111	A-CR111	B-EI-15	B-CR15	R15	A-EI-63	R63	A-EI-111	R111	A-EI-159
A-EI-16	A-CR16	A-EI-112	A-CR112	B-EI-16	B-CR16	R16	A-EI-64	R64	A-EI-112	R112	A-EI-160
A-EI-17	A-CR17	A-EI-113	A-CR113	B-EI-17	B-CR17	R17	A-EI-65	R65	A-EI-113	R113	A-EI-161
A-EI-18	A-CR18	A-EI-114	A-CR114	B-EI-18	B-CR18	R18	A-EI-66	R66	A-EI-114	R114	A-EI-162
A-EI-19	A-CR19	A-EI-115	A-CR115	B-EI-19	B-CR19	R19	A-EI-67	R67	A-EI-115	R115	A-EI-163
A-EI-20	A-CR20	A-EI-116	A-CR116	B-EI-20	B-CR20	R20	A-EI-68	R68	A-EI-116	R116	A-EI-164
A-EI-21	A-CR21	A-EI-117	A-CR117	B-EI-21	B-CR21	R21	A-EI-69	R69	A-EI-117	R117	A-EI-165
A-EI-22	A-CR22	A-EI-118	A-CR118	B-EI-22	B-CR22	R22	A-EI-70	R70	A-EI-118	R118	A-EI-166
A-EI-23	A-CR23	A-EI-119	A-CR119	B-EI-23	B-CR23	R23	A-EI-71	R71	A-EI-119	R119	A-EI-167
A-EI-24	A-CR24	A-EI-120	A-CR120	B-EI-24	B-CR24	R24	A-EI-72	R72	A-EI-120	R120	A-EI-168
A-EI-25	A-CR25	A-EI-121	A-CR121	B-EI-25	B-CR25	R25	A-EI-73	R73	A-EI-121	R121	A-EI-169
A-EI-26	A-CR26	A-EI-122	A-CR122	B-EI-26	B-CR26	R26	A-EI-74	R74	A-EI-122	R122	A-EI-170
A-EI-27	A-CR27	A-EI-123	A-CR123	B-EI-27	B-CR27	R27	A-EI-75	R75	A-EI-123	R123	A-EI-171
A-EI-28	A-CR28	A-EI-124	A-CR124	B-EI-28	B-CR28	R28	A-EI-76	R76	A-EI-124	R124	A-EI-172
A-EI-29	A-CR29	A-EI-125	A-CR125	B-EI-29	B-CR29	R29	A-EI-77	R77	A-EI-125	R125	A-EI-173
A-EI-30	A-CR30	A-EI-126	A-CR126	B-EI-30	B-CR30	R30	A-EI-78	R78	A-EI-126	R126	A-EI-174
A-EI-31	A-CR31	A-EI-127	A-CR127	B-EI-31	B-CR31	R31	A-EI-79	R79	A-EI-127	R127	A-EI-175
A-EI-32	A-CR32	A-EI-128	A-CR128	B-EI-32	B-CR32	R32	A-EI-80	R80	A-EI-128	R128	A-EI-176
A-EI-33	A-CR33	A-EI-129	A-CR129	B-EI-33	B-CR33	R33	A-EI-81	R81	A-EI-129	R129	A-EI-177
A-EI-34	A-CR34	A-EI-130	A-CR130	B-EI-34	B-CR34	R34	A-EI-82	R82	A-EI-130	R130	A-EI-178
A-EI-35	A-CR35	A-EI-131	A-CR131	B-EI-35	B-CR35	R35	A-EI-83	R83	A-EI-131	R131	A-EI-179
A-EI-36	A-CR36	A-EI-132	A-CR132	B-EI-36	B-CR36	R36	A-EI-84	R84	A-EI-132	R132	A-EI-180
A-EI-37	A-CR37	A-EI-133	A-CR133	B-EI-37	B-CR37	R37	A-EI-85	R85	A-EI-133	R133	A-EI-181
A-EI-38	A-CR38	A-EI-134	A-CR134	B-EI-38	B-CR38	R38	A-EI-86	R86	A-EI-134	R134	A-EI-182
A-EI-39	A-CR39	A-EI-135	A-CR135	B-EI-39	B-CR39	R39	A-EI-87	R87	A-EI-135	R135	A-EI-183
A-EI-40	A-CR40	A-EI-136	A-CR136	B-EI-40	B-CR40	R40	A-EI-88	R88	A-EI-136	R136	A-EI-184
A-EI-41	A-CR41	A-EI-137	A-CR137	B-EI-41	B-CR41	R41	A-EI-89	R89	A-EI-137	R137	A-EI-185
A-EI-42	A-CR42	A-EI-138	A-CR138	B-EI-42	B-CR42	R42	A-EI-90	R90	A-EI-138	R138	A-EI-186
A-EI-43	A-CR43	A-EI-139	A-CR139	B-EI-43	B-CR43	R43	A-EI-91	R91	A-EI-139	R139	A-EI-187
A-EI-44	A-CR44	A-EI-140	A-CR140	B-EI-44	B-CR44	R44	A-EI-92	R92	A-EI-140	R140	A-EI-188
A-EI-45	A-CR45	A-EI-141	A-CR141	B-EI-45	B-CR45	R45	A-EI-93	R93	A-EI-141	R141	A-EI-189
A-EI-46	A-CR46	A-EI-142	A-CR142	B-EI-46	B-CR46	R46	A-EI-94	R94	A-EI-142	R142	A-EI-190
A-EI-47	A-CR47	A-EI-143	A-CR143	B-EI-47	B-CR47	R47	A-EI-95	R95	A-EI-143	R143	A-EI-191
A-EI-48	A-CR48	A-EI-144	A-CR144	B-EI-48	B-CR48	R48	A-EI-96	R96	A-EI-144	R144	A-EI-192
A-EI-49	A-CR49	A-EI-145	A-CR145	B-EI-49	B-CR49	R49	A-EI-97	R97	A-EI-145	R145	A-EI-193
A-EI-50	A-CR50	A-EI-146	A-CR146	B-EI-50	B-CR50	R50	A-EI-98	R98	A-EI-146	R146	A-EI-194
A-EI-51</											