GROUP A.3

LOCATION OF EQUIPMENT

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Introduction

1. Reference should be made to this Group when it is required to locate and obtain access to the various electrical components installed in this aircraft. The Group contains a master index of the electrical equipment, together with illustrations showing the location of the components and the panels used to gain access. This index also forms the key to the illustrations showing the location of the equipment by means of the item numbers and grid reference. Illustrations giving the layout of the cable assemblies, for use in conjunction with the routing diagrams, are also included.

Master index of electrical equipment

2. This master index *(given in Table 1)* should be employed in conjunction with the location and access panel illustrations, when it is required to find the location and access to the various electrical components. The components are listed under the circuit in which they are employed *(spare item numbers are provided in each circuit to cater for modifications, etc.)* and each item is referenced by a number corresponding to that given in the location and access panel illustrations. The illustrations on which the components are shown are also indicated in the index and the grid references are likewise given to assist in locating the items on the illustrations.

Location of electrical equipment

3. The location of the electrical equipment in the aircraft is illustrated in fig. 1 to 5 inclusive. These illustrations should be used in conjunction with the master index of electrical equipment *(given in Table 1)* when it is required to locate any item of equipment.

Access to electrical equipment

4. The position on the aircraft of all the access panels, which require opening or removing to gain access to the electrical equipment, are given on fig. 6. The illustrations should be used in conjunction with Table 1 when it is required to obtain access to a particular component.

Cable assembly layout

5. The run of the cable assemblies between the various junction boxes, panels, terminal blocks and the equipment are illustrated diagrammatically in fig. 7 to 9. The illustrations also give the cable assembly, terminal block and earth point references and should be used in conjunction with the routing diagrams when it is required to trace the run of the cable assemblies throughout the aircraft.

Fig. 1. Equipment location—cabin

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TABLE 1

Master Index of Electrical Equipment

Item	Equipment	Fig.	Grid Ref.
	MAJOR COMPONENTS		
1	J.B.1	3	*C.4*
2	J.B.2	1	*A.5*
3	————		
4	————		
5	A.C. J.B.	2	*F.3*
6	Supply panel	2	*J.2*
7	Generator control panel	2	*J.2*
8	Leg panel	1	*E.3*
9	Gun firing panel	2	*J.3*
10	Cabin port shelf	1	*C.5*
11	Cabin starboard shelf	1	*G.4*
12	ARM J.B.1	2	*J.3*
13	ARM J.B.2	2	*F.3*
14	————		
15	————		
16	————		
17	————		
18	————		
19	————		
20	————		
21	————		
22	————		
23	————		
24	————		
25	————		

Item	Equipment	Fig.	Grid Ref.
	GENERATORS AND BATTERIES		
26	Generators	3	*G.5*
27	Main batteries	2	*J.3*
28	External supply plug	2	*J.4*
29	Battery master switch	1	*E.4*
30	Power failure warning lamps	1	*E.3*
31	Power failure indicators	2	*F.6*
32	Main circuit breakers	2	*F.7*
33	Test sockets	2	*G.6*
34	Ammeter shunts	2	*G.6*
35	Battery relay	2	*G.7*
36	Hold-off relays	2	*F.6*
37	Regulator relays	2	*G.5 & G.6*
38	Reset switches	2	*F.6*
39	Voltage regulators	2	*F.5*
40	Crash relays	2	*F.6*
41	Field circuit breakers	2	*F.6*
42	Differential cut-outs	2	*G.5 & G.6*
43	Remote voltage trimmers	2	*F.6*
44	Suppressors	3	*G.5*
45	————		
46	————		
47	————		
48	————		
49	————		
50	————		
51	————		

(Continued overleaf)

Fig. 2. Equipment location—front fuselage

TABLE I

Master Index of Electrical Equipment *(Contd.)*

Item	Equipment	Fig.	Grid Ref.
ENGINE STARTING AND CONTROL			
52	Starter push-switch	1	*E.3*
53	Ignition switch	1	*E.3*
54	Master switch	1	*E.3*
55	Re-light switch	1	*C.5*
56	Starter circuit breaker	1	*J.5*
57	Limiting Resistance	2	*D.3*
58	Igniter relay	2	*J.5*
59	Fuel pump isolating switch	1	*C.4*
60	Fuel pump isolating indicator	1	*C.4*
61	Starter	3	*E.4*
62	Time switch	2	*C.3*
63	High-energy igniter units	3	*G.4*
64	Igniter plugs	3	*H.4*
65	————		
66	————		
67	————		
68	————		
69	————		
70	————		
71	————		
72	————		
73	————		
74	————		
FIRE WARNING AND EXTINGUISHER			
75	Fire warning lamp and extinguisher switch	1	*F.1*
76	Relay X	2	*H.5*
77	Inertia switches	2	*F.3 & H.4*
78	Extinguisher bottle	3	*D.3*
79	Flame switches	3 & 4	*F.3, F.5 H.3, H.5 G.4*
80	————		
81	————		
82	————		
83	————		
TANK PUMPS			
84	Pumps	3	*A.5*
85	Suppressor	3	*A.5*
86	Circuit breakers	1	*J.5*
87	Control switches	1	*G.4*
88	Ammeter test socket	1	*J.5*
89	Test switch	1	*J.6*
90	————		
91	Balance relay	2	*J.2*
92	Balance panel	2	*H.2*
93	Auto pump failure relays	2	*E.3*
94	Auto control relays	2	*on Item 92*
95	Control resistor	2	*on Item 92*
96	————		
PRESSURE REFUELLING			
97	Time switch	5	*D.3*
98	Solenoid valves	3	*B.5 & D.5*
99	Fluid level switches	3 & 5	*B.3 C.3 & G.3*

(Continued overleaf)

Fig. 3. Location—centre fuselage

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TABLE 1

Master Index of Electrical Equipment (*Contd.*)

Item	Equipment	Fig.	Grid Ref.
100	———		
101	———		
102	———		
103	Engine anti-icing switch	1	*G.3*
104	Magnetic indicator	1	*G.3*
105	Gate valve actuator	3	*C.8*
106	———		
107	———		
108	———		
109	———		
110	———		
111	———		
112	———		
113	———		
114	———		
115	———		
116	———		
117	———		
118	———		
119	———		
120	———		
121	———		
122	———		
123	———		
124	———		
125	———		
126	———		
127	———		

Item	Equipment	Fig.	Grid Ref.
	RUDDER AND AILERON TRIM CONTROLS		
128	Trim switch	1	*C.4*
129	Rudder tab actuator	4	*G.2*
130	Aileron tab actuator	5	*B.5*
131	———		
132	———		
	ELEVATOR AND AILERON POWER CONTROLS		
133	Selector switches	1	*D.2*
134	Magnetic indicators	1	*D.2*
135	Elevator solenoid valve	4	*F.4*
136	Aileron solenoid valve	5	*G.3*
137	Power controls junction box	2	*F.3*
138	Aileron indicator micro switch ...	5	*A.4 & J.4*
139	Elevator indicator micro switch ...	4	*F.4*
	TAIL PLANE CONTROL		
140	Tail plane actuator	4	*E.4*
141	Normal control switch	1	*F.3*
142	Standby control switch	1	*C.4*
143	Interference micro switch	1	*C.4*
144	Main contactor	4	*E.4*
145	Standby contactor	4	*E.4*
146	Tail plane selector switch	1	*C.4*
147	Circuit breaker	1	*B.6*
148	———		
149	———		
150	———		

(*Continued overleaf*)

Fig. 4. Equipment location—rear fuselage

TABLE I

Master Index of Electrical Equipment *(Contd.)*

Item	Equipment	Fig.	Grid Ref.
151	————		
152	————		
153	————		
	FLAP CONTROL		
154	Selector switch	1	*D.3*
155	Drum follow-up switch	5	*D.3*
156	Solenoid valve	5	*C.3*
157	————		
158	————		
159	————		
160	————		
	HOOD CONTROL		
161	Hood motor	2	*G.2*
162	Relay unit	2	*G.2*
163	Hood seal valve	2	*H.2*
164	Control switch	1	*B.4*
165	Close limit switch	2	*E.2*
166	Circuit breaker	1	*A.6*
167	External control switch	2	*B.4*
168	Selector plugs	1	*B.4*
169	Open limit switch	2	*H.2*
170	————		
171	————		
172	————		
173	————		

Item	Equipment	Fig.	Grid Ref.
	CABIN PRESSURIZATION AND TEMPERATURE CONTROL		
174	Pressurization control switch	1	*B.5*
175	Temperature control switch	1	*B.5*
176	Temperature selector	1	*C.5*
177	Flood switch	1	*B.5*
178	Hood interlock relay	1	*C.6*
179	Flood control relay	1	*B.6*
180	Ductstat	2	*G.3*
181	Altitude switch	1	*A.6*
182	Pressure warning and flood test switch ...	1	*B.5*
183	Temperature control valve actuator ...	2	*H.2*
184	Suppressor	2	*H.2*
185	Follow-up resistor	2	*H.2*
186	Cabin element	2	*C.3*
187	Cabin pressure control valve	2	*C.3*
188	Magnetic amplifier	2	*F.2*
189	Extractor solenoid	2	*G.2*
190	Air supply valve actuator	3	*C.3*
191	Pressure warning lamp	1	*F.3*
192	Auxiliary discharge valve	2	*G.1*
193	————		
194	————		
195	————		
196	————		
197	————		
198	————		
199	————		
200	————		

(Continued overleaf)

Fig. 5. Equipment location—main planes

TABLE I

Master Index of Electrical Equipment *(Contd.)*

Item	Equipment	Fig.	Grid Ref.
ALIGHTING GEAR CONTROL			
201	Control push-switches	1	*D.2*
202	Solenoid valve	5	*F.3*
203	————		
204	————		
AIR BRAKE CONTROL			
205	Control switch	1	*C.4*
206	Air brake relay box	1	*B.4*
207	Pressure switch	4	*D.6*
208	Solenoid valves	4	*D.5*
209	Magnetic indicator	1	*D.3*
210	Forward micro switch	4	*B.6*
211	Aft micro switch	4	*C.6*
212	Test switch	1	*B.4*
213	————		
214	————		
215	————		
216	————		
217	————		
218	————		
219	————		
220	————		
221	————		
222	————		
223	————		
224	————		
225	————		
226	————		
227	————		
228	————		
229	————		
230	————		
231	————		
232	————		
233	————		
234	————		
235	————		
236	————		
A.C. SUPPLIES			
237	Inverters	2	*F.3 & G.3*
238	Torque switches	2	*F.3*
239	Suppressors	2	*F.3*
240	Auto-transformer	2	*F.3*
241	Standby test switch	2	*F.3*
242	Inverter selector switch	1	*B.6*
243	Normal supply failed indicator ...	2	*F.3*
244	Normal circuit breaker	2	*F.3*
245	Standby circuit breaker	2	*F.3*
246	Relay A	2	*F.3*
247	Relay B	2	*F.3*
248	Relay C	2	*F.3*
249	Relay D	2	*F.3*
250	Relay E	2	*F.3*
251	Relay F	2	*F.3*

(Continued overleaf)

Fig. 6. Access panels

RESTRICTED

TABLE I

Master Index of Electrical Equipment (*Contd.*)

Item	Equipment	Fig.	Grid Ref.
252	————		
253	————		
254	————		
255	————		
256	————		
257	————		
CABIN LIGHTING			
258	Dimmer switches	1	*H.3 & H.4*
259	U/V lamps	1	*C.2 & G.3*
260	Red lamps	1	*A.5, B.4, D.2, F.2, G.3 & H.4*
261	Standby lamps	1	*D.2 & F.2*
262	Standby compass lamp	1	*G.1*
263	Standby lamps switch	1	*G.3*
264	Standby battery	2	*F.2*
265	————		
266	————		
267	————		
NAVIGATION LAMPS			
268	Control switch	1	*H.5*
269	Wing-tip lamps	5	*A.4 & J.4*
270	Tail lamp	4	*J.4*
271	————		
272	————		
SERVICE LAMPS			
273	Nose bay lamp	2	*B.3*
274	Radio bay lamp	2	*H.3*
275	Starter bay lamp	3	*C.4*
276	————		
GUN FIRING			
277	Firing trigger	1	*F.3*
278	Alighting gear compression micro switches	5	*E.5*
279	Armament ground test switch	1	*H.5*
280	Inverter	2	*C.7*
281	Relay E.1	2	*C.7*
282	Relay F.1	2	*C.6*
283	————		
284	Circuit breaker	2	*C.6*
285	Box electrics	2	*G.4*
286	Gun firing and engine control relay box	2	*H.3*
287	Fuel dipping test switch	2	*H.3*
288	————		
289	————		
290	————		
GUN VENTILATION			
291	Ventilation actuator	2	*F.4*
292	Relay C.1	2	*C.7*
293	————		
294	————		
GUN HEATING			
295	Hot air valve actuator	2	*J.4*
296	Thermostat	2	*G.3*
297	————		
298	————		

(*Continued overleaf*)

TABLE I

Master Index of Electrical Equipment (*Contd.*)

Item	Equipment	Fig.	Grid Ref.
CAMERA GUN			
299	Camera gun	2	*B.2*
300	Gyro cageing and camera relay U ...	2	*D.3*
301	Camera master switch	1	*E.4*
302	Sunny/cloudy switch	1	*F.3*
303	Camera push-switch	1	*F.3*
304	————		
305	————		
306	————		
307	————		
308	————		
BOMB RELEASE, FUZING AND JETTISON			
309	Bomb/R.P. switch	1	*B.5*
310	Fuzing selector	1	*B.5*
311	Jettison switch	1	*B.5*
312	Bomb/R.P. relay S	2	*D.3*
313	Fuzing relay B	2	*F.3*
314	Jettison relay A	2	*F.3*
315	Circuit breaker	2	*H.3*
316	Nose fuzing unit	5	*B.7*
317	Tail fuzing unit	5	*C.6*
318	Release unit	5	*B.7*
319	Cock test socket	5	*H.7*
320	Jettison solenoid	5	*H.7*
321	Type B series relays	5	*D.6*
322	Practice/Normal switch	5	*D.6*
323	Practice bomb carrier butt connector ...	5	*B.7*
324	T.B.1	5	*C.6*
325	T.B.2	5	*C.7*
326	Re-set switch	3	*J.3*
327	Re-set indicator	3	*J.3*
328	R.P. assessment relay C	2	*F.3*
329	Bomb fuses	2	*F.3*
330	V.T. fuze socket	5	*B.7*
331	————		
332	————		
333	————		
334	————		
335	————		
336	————		
337	————		
338	————		
339	————		
RADIO SUPPLIES			
340	V.H.F. set selector switch	1	*C.4*
341	V.H.F. press-to-transmit switch ...	1	*C.4*
342	Telebriefing push-switch	1	*C.3*
343	Telebriefing indicator lamp	1	*C.3*
344	Radar test switch	1	*B.6*
345	Radar ranging switch	1	*D.3*
346	Radar 'locked on' indicator	1	*F.1*
347	Radar circuit breaker	2	*H.3*
348	Radar supply indicator	1	*D.3*
349	Radar inverter	2	*J.3*
350	————		

(*Continued overleaf*)

TABLE 1

Master Index of Electrical Equipment (*Contd.*)

Item	Equipment	Fig.	Grid Ref.
TERMINAL BLOCKS			
351	T.B.1	2	*B.3*
352	T.B.2	2	*B.4*
353	T.B.3	2	*D.3*
354	T.B.4	2	*E.3*
355	T.B.5	2	*C.4*
356	T.B.6	2	*E.3*
357	T.B.7	2	*D.3*
358	————		
359	————		
360	————		
361	T.B.11	3	*G.5*
362	T.B.12	3	*G.5*
363	————		
364	————		
365	————		
366	————		
367	————		
368	————		
369	————		
370	————		
371	T.B.21	5	*D.3*
372	T.B.22	5	*A.5*
373	T.B.23	5	*A.4*
374	T.B.24	5	*A.5*
375	T.B.25	5	*D.3*
376	T.B.26	5	*D.3*
377	T.B.27	5	*C.4*
378	T.B.28	5	*C.3*
379	T.B.29	5	*C.3*
380	————		
381	————		
382	T.B.32	5	*J.5*
383	T.B.33	5	*F.3*
384	T.B.34	5	*G.3*
385	T.B.35	5	*G.3*
386	————		
387	————		
388	————		
389	————		
390	————		
391	————		
392	T.B.42	4	*F.4*
393	T.B.43	4	*F.4*
394	T.B.44	4	*E.4*
395	T.B.45	4	*E.3*
396	T.B.46	4	*E.3*
397	T.B.47	4	*B.5*
398	T.B.48	4	*B.5*
399	————		
400	————		
401	————		
402	————		
403	T.B.53	4	*F.6*
404	T.B.54	4	*F.6*
405	T.B.55	4	*H.3*

(*Continued overleaf*)

TABLE I

Master Index of Electrical Equipment (*Contd.*)

Item	Equipment	Fig.	Grid Ref.
406	T.B.56	4	*C.5*
407	———		
408	T.B.58	4	*G.5*
409	———		
410	———		
411	———		
412	———		
413	———		
414	T.B.64	2	*F.3*
415	———		
416	———		
417	———		
418	———		
419	———		
420	———		
421	———		
422	———		
423	———		
424	———		
425	———		
426	———		
427	———		
428	———		
429	———		
430	———		
431	———		
432	———		
433	T.B.83	3	*D.3*
434	T.B.84	3	*G.5*
435	———		
436	———		
437	T.B.87	4	*F.4*
438	———		
439	———		
440	———		
441	———		
442	———		
443	———		
444	———		
445	———		
446	———		
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