

Group A.3
LOCATION OF EQUIPMENT
(Completely revised)

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TABLE

Table

<i>Master index of electrical equipment.. 1</i>

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 all 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 as each component is given an item number and grid reference. Illustrations giving the layout of the cable assemblies for use in conjunction with the routeing diagrams are also included.

Location of electrical equipment

2. The location of the electrical equip-

ment in this 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

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

Master index of electrical equipment

4. 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 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.

Cable assembly layout

5. The run of the cable assemblies

between the various junction boxes, panels, terminal blocks and the equipment is illustrated diagrammatically in

fig.7 to 10. The illustrations also give the cable assembly, terminal block and earth point references and should be used in

conjunction with the routeing diagrams when it is required to trace the run of the cable assemblies throughout the aircraft.

TABLE 1

MASTER INDEX OF ELECTRICAL EQUIPMENT

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
MAJOR COMPONENTS				20			
1	J.B.1	3	D.3	21			
2	J.B.2	1	E.1	22			
3	J.B.3	3	E.5	23			
4	J.B.4	2	C.6	24			
5	A.C. J.B.	2	C.6	25			
6	Supply panel	2	B.9	GENERATORS AND BATTERIES			
7	Generator control panel	2	B.9	26	Generators	3	E.5
8	Leg panel	1 & 2	C.5 & C.4	27	Main batteries	2	D.9
9	Gun firing panel	2	C.9	28	External supply plug	2	D.9
10	Cabin port shelf	1	D.3	29	Battery master switch	1	D.5
11	Cabin starboard shelf	1	D.7	30	Power failure warning lamps	1	C.5
12	R.P. J.B.	3	D.1	31	Power failure indicators	2	On Item 7
13	Bomb/R.P. release and camera J.B.	2	B.6	32	Main circuit breakers	2	On Item 7
14	Bomb/R.P. selection J.B.	2	A.8	33	Test sockets	2	On Item 7
15				34	Ammeter shunts	2	On Item 7
16				35	Battery relay	2	On Item 7
17				36	Hold-off relays	2	On Item 7
18				37	Regulator relays	2	On Item 7
19				38	Reset switches	2	On Item 7

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
39	Voltage regulators	2	On Item 7	64	Ignition plugs	3	D.8
40	Crash relays	2	On Item 7	65	High pressure switch	3	E.3
41	Field circuit breakers	2	On Item 7	66	Solenoid valve	3	E.3
42	Differential cut-outs	2	On Item 7	67	Ignition switch	3	D.4
43	Remote voltage trimmers	2	On Item 7	68	Time delay switch	2	C.5
44	Standby batteries	2	C.8	69			
45	Relay A.2	2	On Item 7	70			
46	Relay B.2	2	On Item 7	71			
47				72			
48				73			
49				74			
50							
51							
ENGINE STARTING AND CONTROL				FIRE WARNING AND EXTINGUISHER			
52	Starter push-switch	1	C.5	75	Fire warning lamp and extinguisher switch	1	A.6
53	Ignition isolating switch	1	C.5	76	Relay X	2	On Item 6
54	Master switch	1	D.5	77	Inertia switches	2	C.6 & D.9
55	Re-light switch	1	E.3	78	Extinguisher bottles	3	C.4
56	Starter circuit breaker	1	E.9	79	Flame switches(Pre Mod.960 A/C only)	3 & 4	B.7, B.9, D.7 E.7, E.9, E.2 & F.2
57	Ignition unit	3	E.4	80	Test switch	1	E.9
58	Ignition relay	2	On Item 6	81	Control unit (Post Mod.960 A/C only)	2	C.7
59	Starter control unit	3	E.4	82	Detector loop (Post Mod.960 A/C only)	3 & 4	B.9, C.9, D.8 D.9, E.8, F.2 E.3 & F.5
60	B.4 circuit breaker	2	D.9	83			
61	Liquid fuel starter	3	D.5				
62	Fuel pump motor	3	D.4				
63	High-energy ignition units	3	C.7				

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
TANK PUMPS			
84	Pumps	3	E.1
85	Fuel pressure switches	3	E.1
86	Circuit breakers	1	E.9
87	Control switches	1	D.7
88	Ammeter test socket	1	E.9
89	Test switch	1	F.9
90	Pump indicators	1	D.7
91	Relay H.1	2	On Item 6
92	Relay G.1	2	On Item 6
93			
94			
95			
96			
PRESSURE REFUELLING			
97	Time switch	5	C.4
98	Solenoid valves	3	D.5
99	Fluid level switches	3 & 5	B.2
			C.3 & C.7
100	Indicator	5	C.4
101			
102			
ENGINE ANTI-ICING			
103	Switch	1	B.8
104	Magnetic indicator	1	B.8

ITEM	EQUIPMENT	FIG.	GRID REF.
105	Gate valve actuator	3	C.8
106			
107			
FUEL FILTER DE-ICING			
108	Pump	3	D.7
109	Solenoid valve	3	E.7
110	Engine switch	3	D.6
111	Test switch	3	E.7
112	Relay S.I.	2	On Item 6
113	Indicator solenoid	3	E.6
114			
115			
EXPLOSION SUPPRESSION (Pre Mod.1271)			
116	Power pack	2	C.3
117	Neon indicator		(not illustrated)
118	Reset switch		(not illustrated)
119	Voltage trip unit	2	C.4
120	Detector units	4	E.2
121	Suppressor units	4	E.2
122	Test lamps	4	On Item 120
123	Indicator fuses	4	On Item 120
124	Test socket	4	E.2
125			
126			
127			

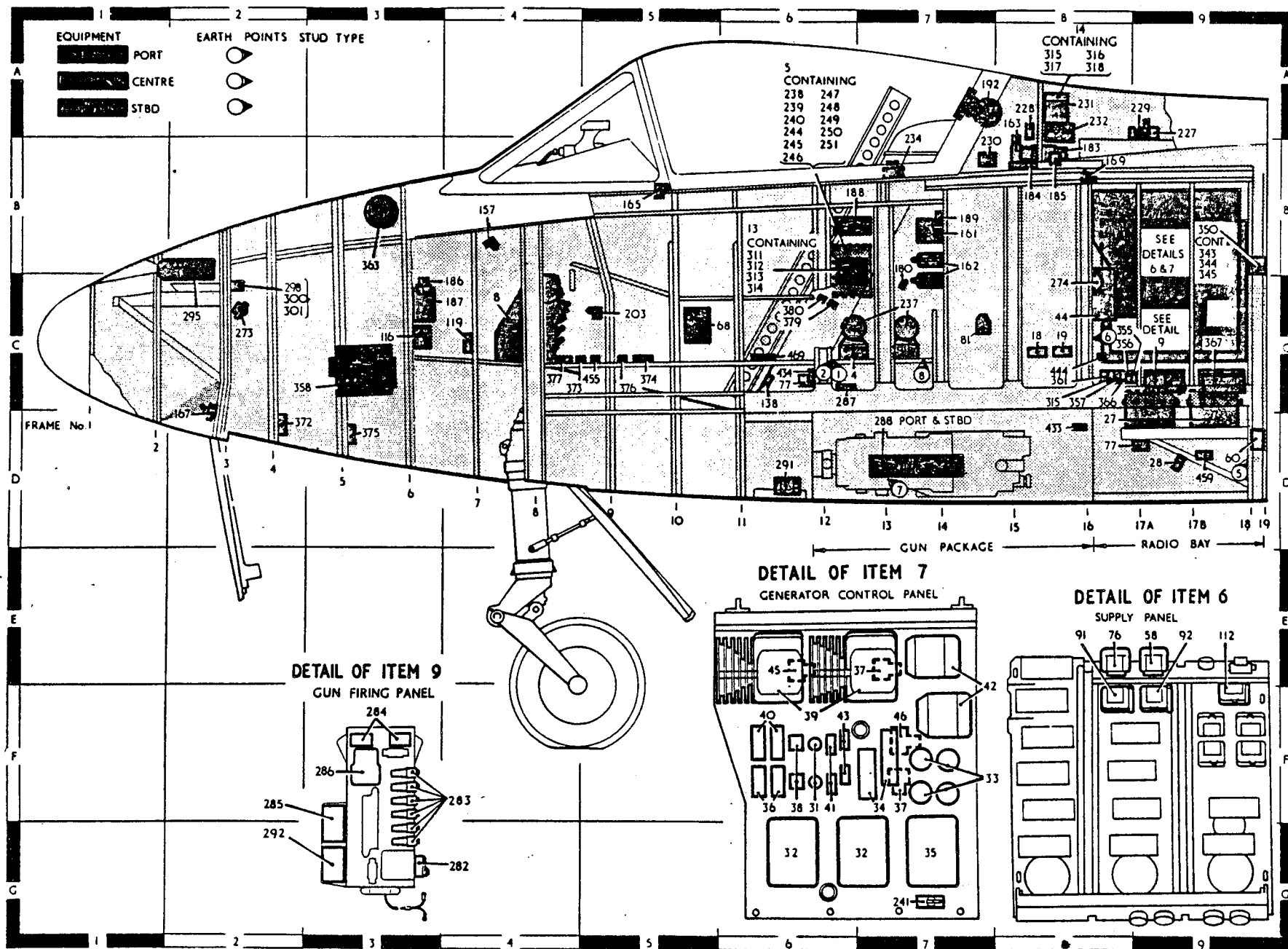


Fig.2. Equipment location - front fuselage

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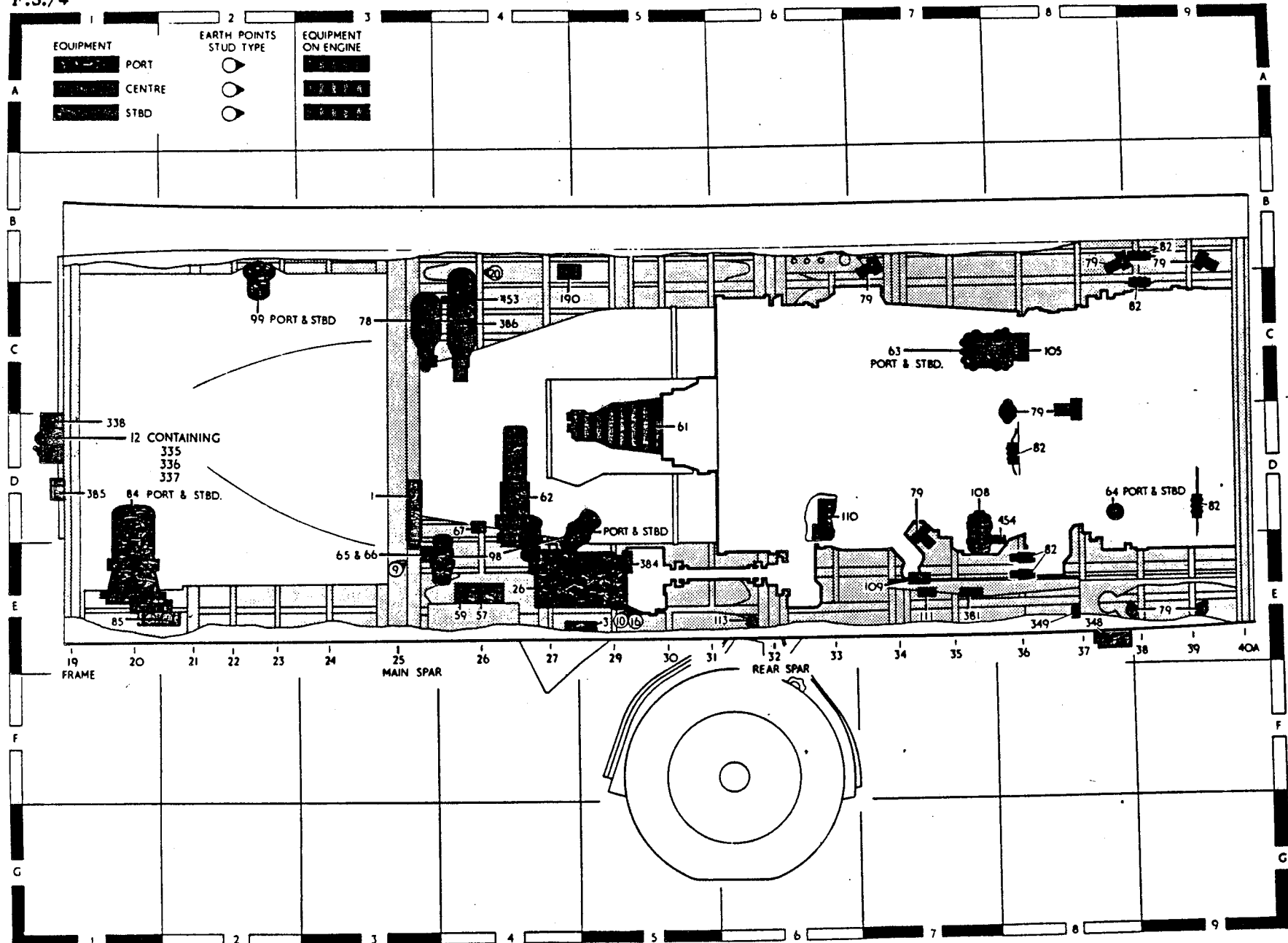


Fig.3. Equipment location - centre fuselage

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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
RUDDER AND AILERON TRIM CONTROLS				151			
128	Trim switch	1	D.3	152			
129	Rudder tab actuator	4	B.7	153			
130	Aileron tab actuator	5	E.2	FLAP CONTROL			
131				154	Selector switch	1	C.4
132				155	Drum follow-up switch	5	C.4
ELEVATOR AND AILERON POWER CONTROLS				156	Solenoid valve	5	C.3
133	Elevator switch and indicator	1	B.4	157	Emergency microswitch	2	B.4
134	Aileron switch and indicator	1	B.4	158			
135	Elevator solenoid valve	4	D.6	159			
136	Aileron solenoid valve	5	C.7	160			
137	Hydraulic pressure switches	4 & 5	D.6 & C.7	HOOD CONTROL			
138	Power controls junction box	2	C.6	161	Hood motor	2	B.7
139				162	Relay unit	2	B.7
TAIL PLANE CONTROL				163	Hood seal valve	2	A.8
140	Tail plane actuator	4	D.5	164	Control switch	1	B.2
141	Normal control switch	1	C.6	165	Close limit switch	2	B.5
142	Standby control switch	1	D.3	166	Circuit breaker	1	F.1
143				167	External control switch	2	C.2
144	Main contactor	4	D.5	168	Selector plugs	1	D.2
145	Standby contactor	4	D.5	169	Open limit switch	2	B.8
146	Tail plane selector switch	1	D.3	170			
147	Flying tail microswitches	4	D.7	171			
148	Datum actuator	4	D.7	172			
149	Circuit breaker	1	D.3	173			
150							

F.S./5

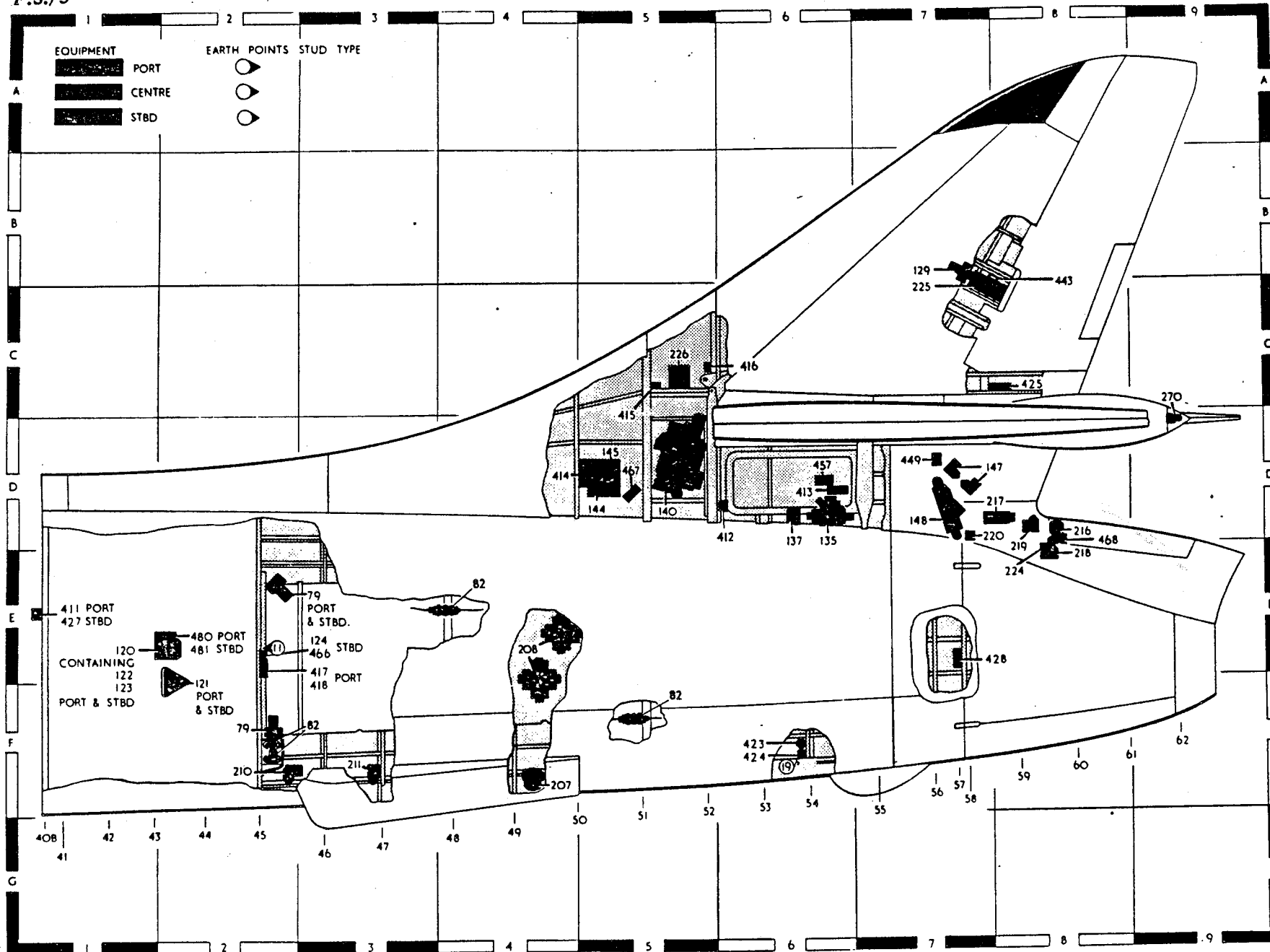


Fig.4. Equipment location - rear fuselage

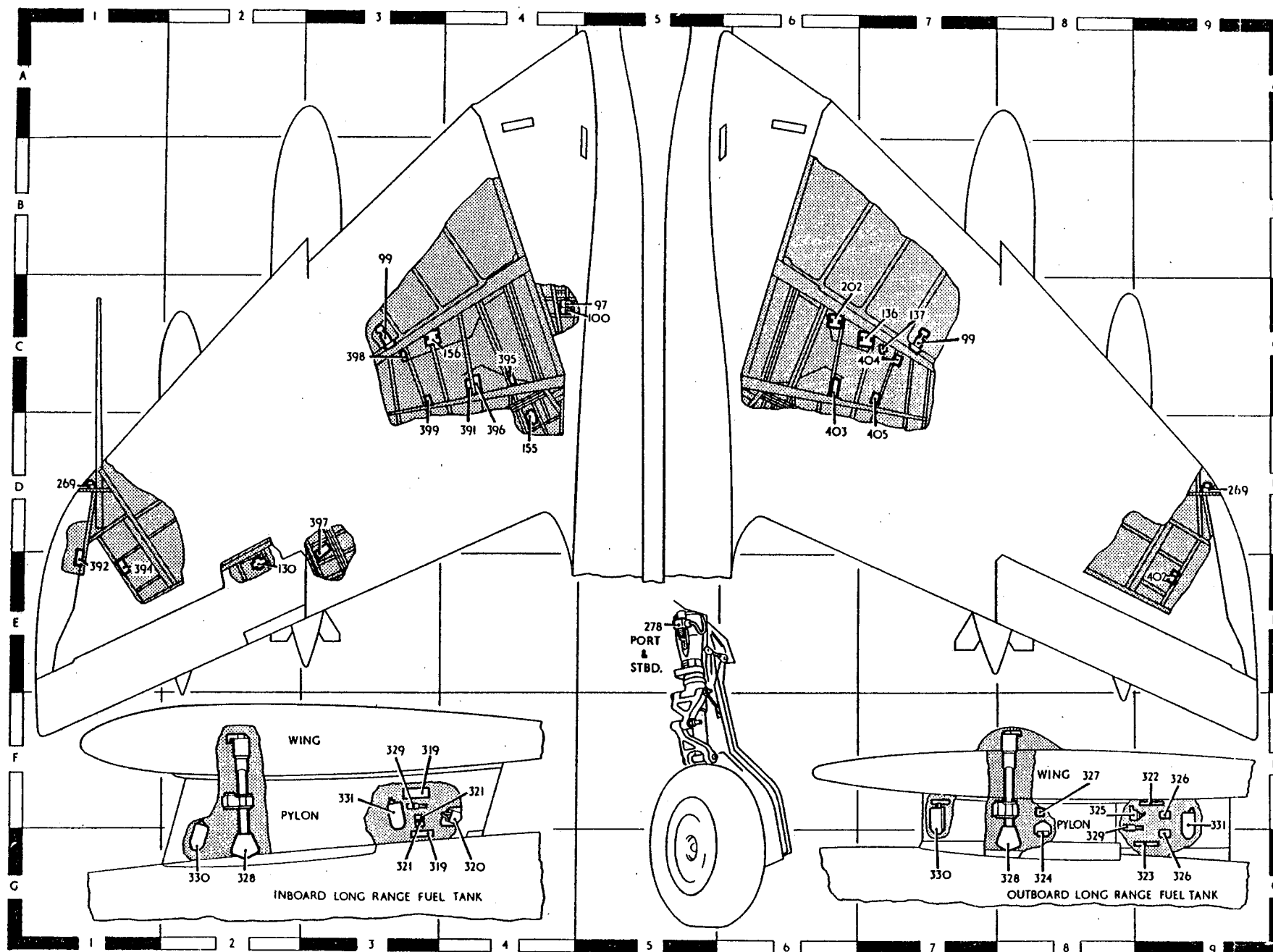


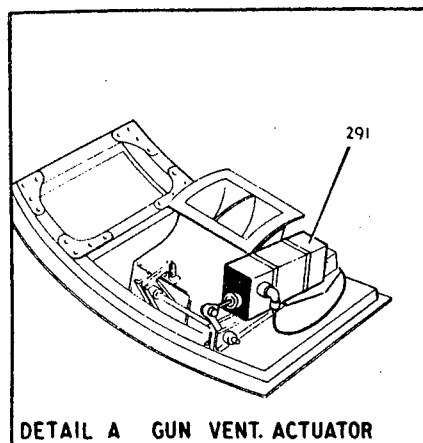
Fig.5. Equipment location - main planes

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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
CABIN PRESSURIZATION AND TEMPERATURE CONTROL			
174	Pressurization control switches ...	1	E.2
175	Temperature control switch	1	E.2
176	Temperature selector	1	E.3
177	Flood switch	1	E.2
178	Hood interlock relay	1	F.3
179	Flood control relay	1	F.2
180	Ductstat	2	C.7
181	Altitude switch	1	F.1
182	Pressure warning and flood test switch	1	E.2
183	Temperature control valve actuator ..	2	B.8
184	Suppressor	2	B.8
185	Follow-up resistor	2	B.8
186	Cabin element	2	C.3
187	Cabin pressure control valve	2	C.3
188	Magnetic amplifier	2	B.7
189	Extractor solenoid	2	B.7
190	Air supply valve actuator	3	B.4
191	Pressure warning lamp	1	C.6
192	Auxiliary discharge valve	2	A.7
193			
194			
195			
196			
197			
198			

ITEM	EQUIPMENT	FIG.	GRID REF.
199			
200			
ALIGHTING GEAR CONTROL			
201	Control push-switches	1	C.4
202	Solenoid valve	5	C.6
203	Emergency microswitch	2	C.5
204			
AIR BRAKE CONTROL			
205	Control switch	1	D.3
206	Air brake relay box	1	B.2
207	Pressure switch	4	F.4
208	Solenoid valves	4	E.4
209	Magnetic indicator	1	C.4
210	Forward microswitch	4	F.2
211	Aft microswitch	4	F.3
212	Test switch	1	B.2
213			
214			
PARACHUTE BRAKE			
215	Control switch	1	B.3
216	Door solenoid	4	D.8
217	Jettison release unit	4	D.8
218	Door microswitch	4	E.8
219	Fillet door microswitch	4	D.8
220	Test plug	4	D.8
221	Indicator lamps	1	B.3



6	35	45	241	337
7	36	46	274	338
9	37	58	282	344
12	38	60	283	350
27	39	76	284	355
28	40	77	285	356
31	41	91	286	357
32	42	92	287	361
33	43	112	292	366
34	44	169	335	367
			336	444

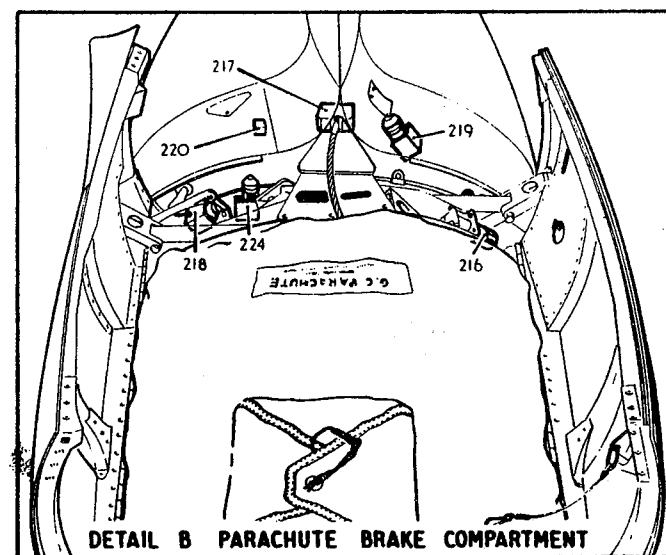
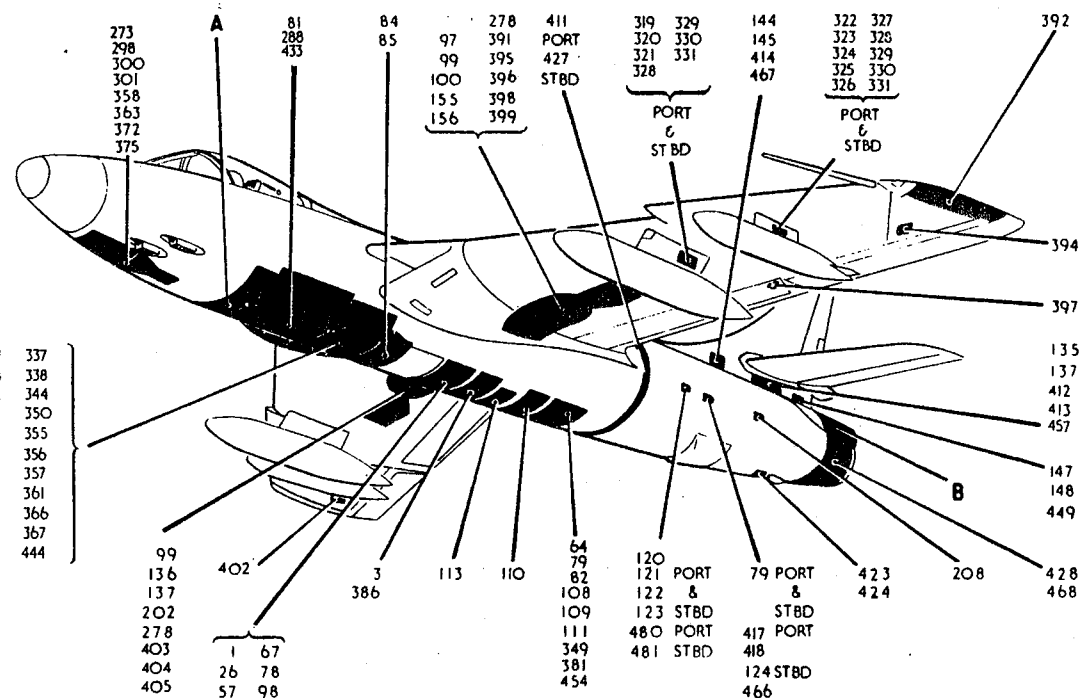
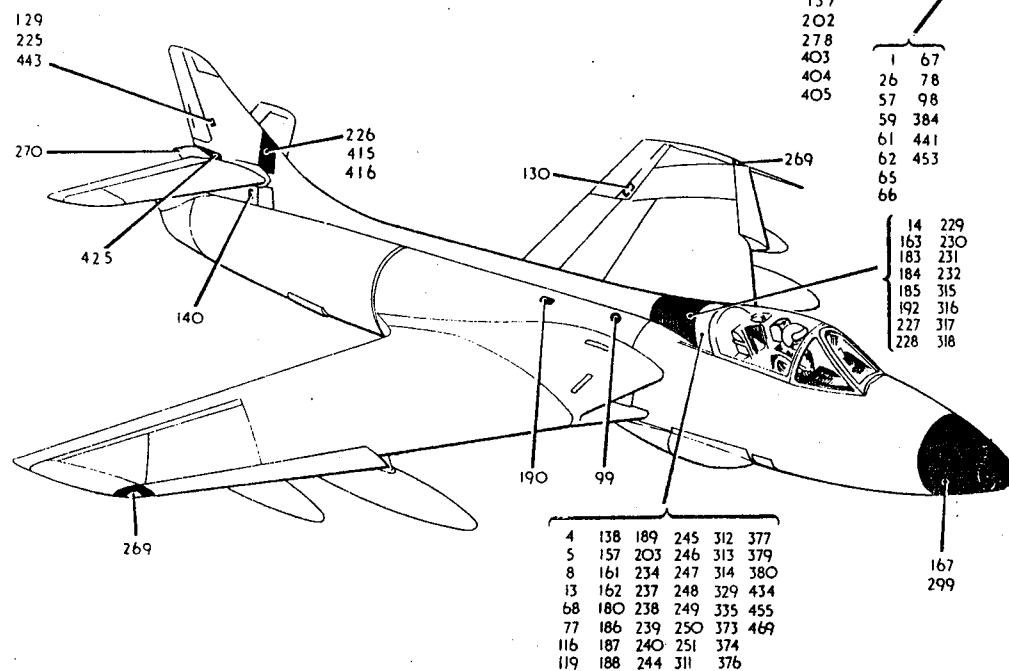


Fig.6. Access panels

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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
222	Test switch	1	F.2	245	Standby circuit breaker	2	In Item 5
223	Circuit breaker	1	F.3	246	Relay A	2	In Item 5
224	Door indicator microswitch	4	E.8	247	Relay B	2	In Item 5
AUTOSTABILIZER (Pre Mod.1026 A/C only)				248	Relay C	2	In Item 5
225	Servomotor	4	C.7	249	Relay D	2	In Item 5
226	Compass and autostabilizer junction			250	Relay E	2	In Item 5
	box	4	C.5	251	Relay F	2	In Item 5
227	Slave relay unit	2	A.9	252			
228	Suppressor	2	A.8	253			
229	Gyro unit	2	A.9	254			
230	Phase advance unit	2	B.7	255			
231	Amplifier unit	2	A.8	256			
232	Monitor unit	2	A.8	257			
233	Switch assembly	(not illustrated)		CABIN LIGHTING			
234	A.C. distribution box	2	B.7	258	Dimmer switches	1	B.8
235				259	U/V lamps	1	C.3 & C.7
236				260	Red lamps	1	B.6, C.7, D.2 D.8, E.1
A.C. SUPPLIES				261	Standby lamps	1	B.4 & B.6
237	Inverters	2	C.7	262	Standby compass lamp	1	A.7 & F.6
238	Torque switches	2	In Item 5	263	Standby lamps switch	1	B.8
239	Suppressors	2	In Item 5	264	Standby compass lamp switch	1	B.8
240	Auto-transformer	2	In Item 5	265			
241	Test and reset switch	2	On Item 7	266			
242	Inverter selector switch	1	F.2	267			
243	Inverter change-over indicator	1	B.5				
244	Normal circuit breaker	2	In Item 5				

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
NAVIGATION LAMPS			
268	Control switch	1	E.8
269	Wing-tip lamps	5	D.1 & D.9
270	Tail lamp	4	D.9
271			
272			
SERVICE LAMPS			
273	Nose bay lamp	2	C.2
274	Radio bay lamp	2	C.8
275			
276			
GUN FIRING			
277	Firing trigger	1	C.6
278	Alighting gear compression micro-switches	5	E.5
279	Guns master switch	1	B.6
280	Guns selector switch	1	B.6
281	Armament ground test switch	1	B.6
282	Circuit breaker	2	In Item 9
283	Gun fuses	2	In Item 9
284	Relays A and B	2	In Item 9
285	Relay F.1	2	In Item 9
286	Relay E.1	2	In Item 9
287	Inverter	2	D.6
288	Box electrics	2	D.7

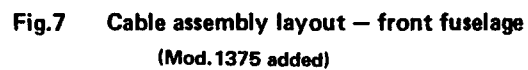
ITEM	EQUIPMENT	FIG.	GRID REF.
289	Armament safety plug	1	A.6
290	Circuit breakers armament services	1	D.1
GUN VENTILATION			
291	Ventilation actuator	2	D.6
292	Relay C.1	2	In Item 9
293			
294			
CAMERA GUN			
295	Camera master switch	1	D.5
296	Bright/dull switch	1	C.6
297	Camera push-switch	1	C.6
298	Camera test switch	2	C.2
299	Camera gun	2	C.2
300	Iris relay	2	C.2
301	Camera run indicator	2	C.2
302			
303			
BOMB RELEASE, FUZING AND JETTISON			
304	Bomb master switch	1	B.4
305	Inboard pylon switches, port and starboard	1	B.4
306	Outboard pylon switches, port and starboard	1	B.4
307	Bomb fuzing switch	1	B.4
308	Inboard pylon stores jettison switch	1	B.4

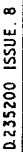
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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
309	Outboard pylon stores jettison switch	1	B.4	333	R.P. mode switch	1	C.3
310	Bomb/R.P. release push-switch ...	1	C.6	334	R.P. salvo selector switch	1	C.3
311	Bomb/R.P. release relay A	2	In Item 13	335	Reset indicator	3	In Item 12
312	Camera relay B	2	In Item 13	336	Reset switch	3	In Item 12
313	G.G.S. caging relay C	2	In Item 13	337	Ripple relay	3	In Item 12
314	Diode platform... ..	2	In Item 13	338	R.P. firing distribution box	3	D.1
315	Pylon selection relays, C, D, E and F	2	In Item 14	339			
316	Fuzing relays, A and B	2	In Item 14	BANNER TARGET TOWING			
317	Bomb fuzing fuses	2	In Item 14	340	Port Stream switch/indicator ...	1	A.5
318	Diodes 5, 6, 7 and 8	2	In Item 14	341	Starboard Stream switch/indicator ...	1	A.5
319	Inboard pylons T.B.1 and T.B.2. ...	5	F.3 and G.3	342	Standby release switch	1	A.5
320	Inboard pylons, practice/normal switch	5	F.4	343	Launch selector switch	2	On Item 350
321	Inboard pylons, relays C and D ...	5	F.3 and G.3	344	Relay A and relay B	2	On Item 350
322	Outboard pylons, T.B.1	5	F.9	345	Continuity socket	1	A.5
323	Outboard pylons, T.B.2	5	G.9	346	Stream indicator microswitch	-	In target container
324	Outboard pylons T.B.3	5	G.8	347	Stream solenoid	-	
325	Outboard pylons, practice/normal switch	5	F.8	348	Target release unit	3	E.8
326	Outboard pylons, relays C and D ...	5	F.9 and G.9	349	Cock test socket	3	E.8
327	Outboard pylons, relay R.F.	5	F.8	350	Target towing control box	2	B.9
328	Release units	5	G.2 and G.8	RADIO SUPPLIES			
329	Safety plockets	5	F.3 and F.8	351	U.H.F. tone switch	1	D.3
330	Nose fuzing units and T.B.4	5	G.2 and G.7	352	Press-to-transmit switch	1	D.3
331	Tail fuzing units	5	F.3 and F.9	353	Telebriefing push-switch	1	C.3
R.P. FIRING				354	Telebriefing indicator lamp	1	C.3
332	R.P. master switch	1	C.3	355	U.H.F. services circuit breaker ...	2	C.8
				356	A.R.C.52 circuit breaker	2	C.8

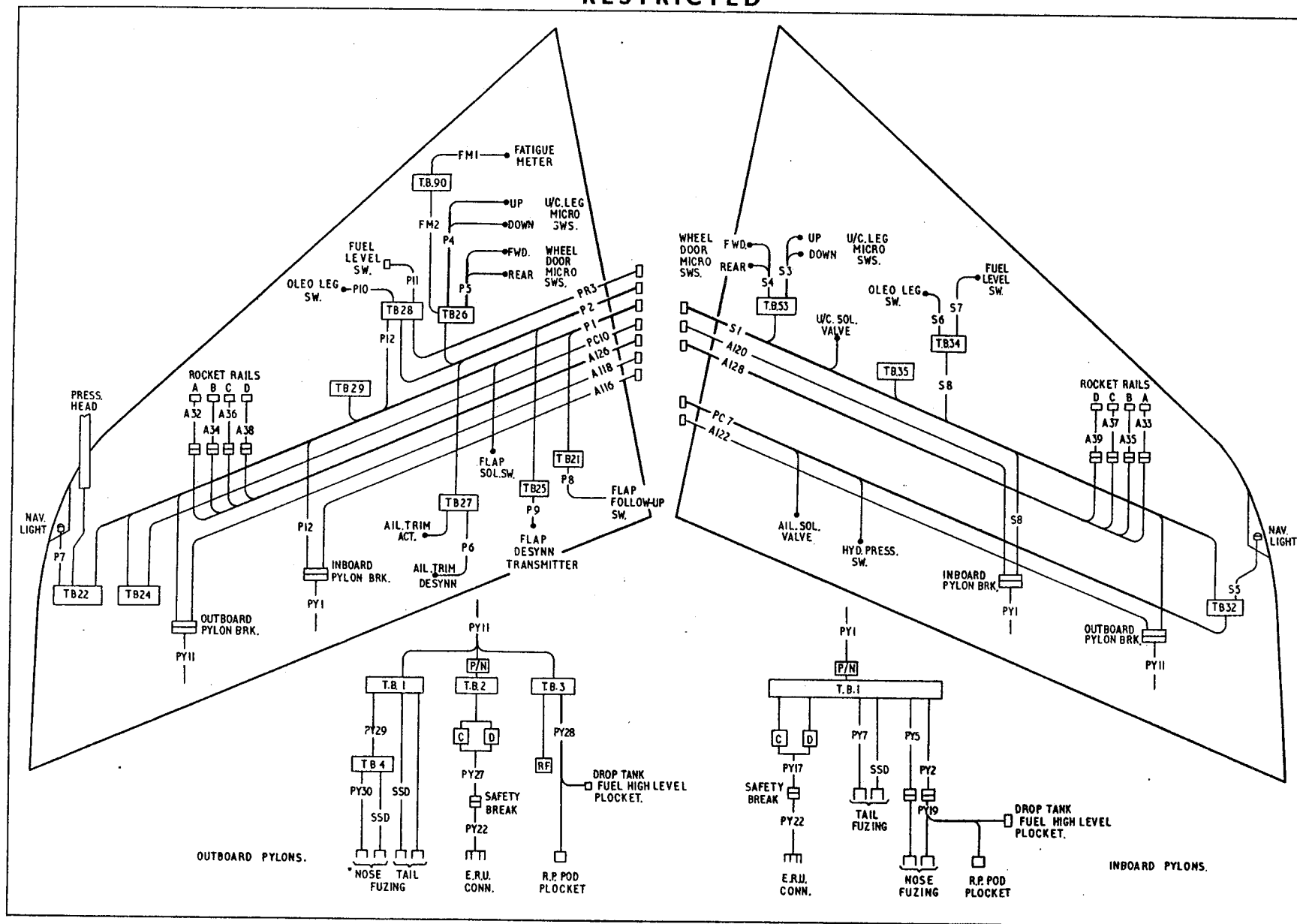




(Mod.1375 added)

T.P.(E) 22990

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◀ Cables PR3 and P2 corrected ▶

Fig.9. Cable assembly layout - wings and pylons

T.P.(E) 10518

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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
357	D.M.E. circuit breaker	2	C.8	382			
358	Radar ranging control panel	2	C.3	383			
359	Radar ranging switch	1	C.3	384	T.B.14	3	E.5
360	Presentation switch	1	B.4	385	T.B.15	3	D.1
361	Radar circuit breaker	2	C.8	386	T.B.16	3	C.4
362	Radar supply indicator	1	C.4	387			
363	Radar inverter	2	B.3	388			
364	I.F.F. master switch	1	C.7	389			
365	I.F.F. I.P. switch	1	B.7	390			
366	I.F.F. circuit breaker	2	C.8	391	T.B.21	5	C.4
367	I.F.F. inverter	2	C.9	392	T.B.22	5	E.1
368	U.H.F. Normal/standby switch ...	1	E.3	393			
369	U.H.F. Standby set, channel selector	1	A.4	394	T.B.24	5	E.1
370				395	T.B.25	5	C.4
TERMINAL BLOCKS				396	T.B.26	5	C.4
371				397	T.B.27	5	D.3
372	T.B.2	2	D.2	398	T.B.28	5	C.3
373	T.B.3	2	C.4	399	T.B.29	5	C.3
374	T.B.4	2	C.5	400			
375	T.B.5	2	D.3	401			
376	T.B.6	2	C.5	402	T.B.32	5	E.9
377	T.B.7	2	C.4	403	T.B.33	5	C.6
378				404	T.B.34	5	C.7
379	T.B.9	2	C.6	405	T.B.35	5	C.7
380	T.B.10	2	C.6	406			
381	T.B.11	3	E.7	407			

T.P.(E) 12080

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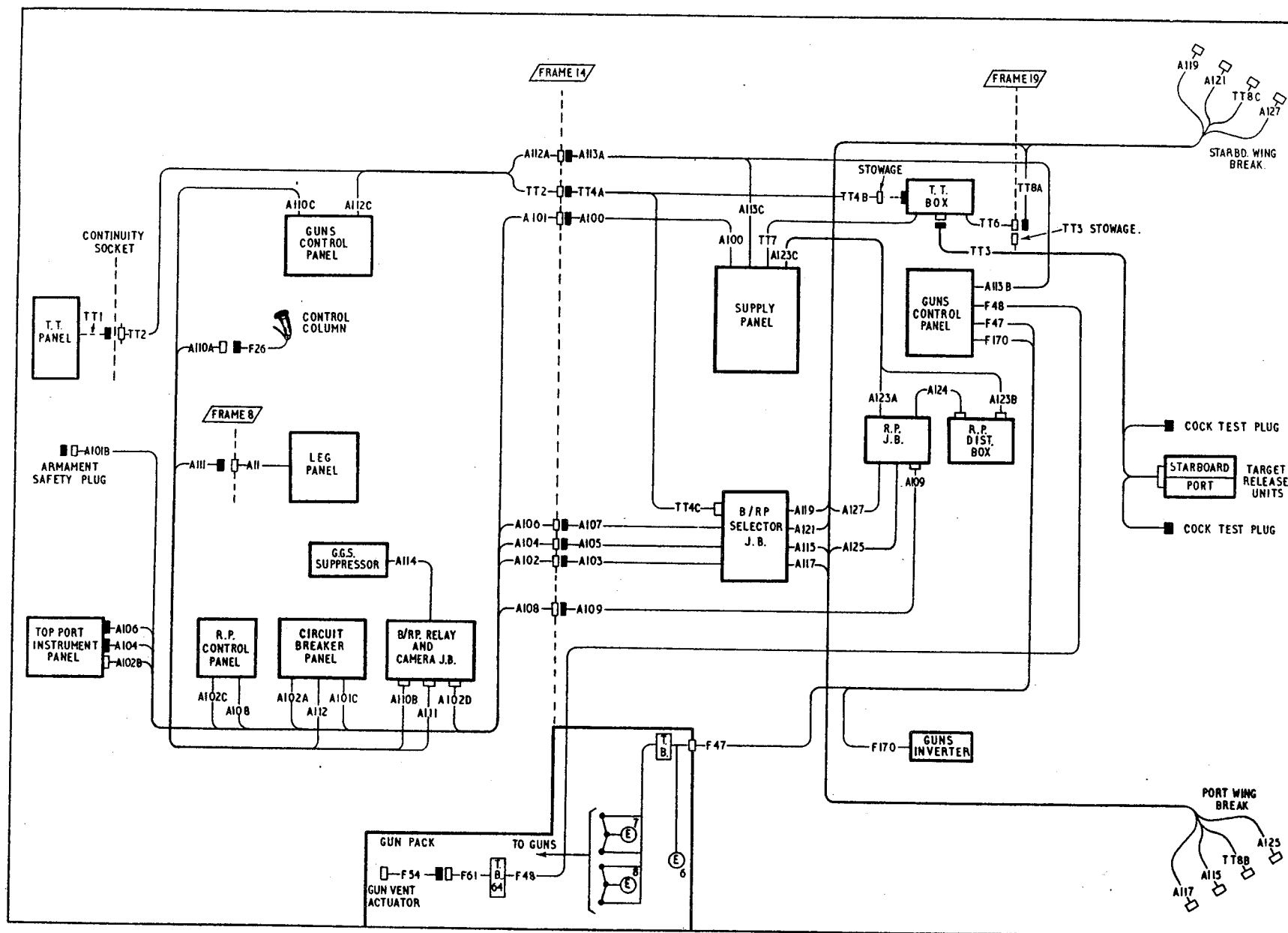


Fig.10. Cable Assembly Layout — Armament
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TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
408				434	T.B.64	2	C.6
409				435			
410				436			
411	T.B.41	4	E.1	437			
412	T.B.42	4	D.6	438			
413	T.B.43	4	D.6	439			
414	T.B.44	4	D.5	440			
415	T.B.45	4	C.5	441	T.B.71	3	E.4
416	T.B.46	4	C.5	442			
417	T.B.47	4	E.2	443	T.B.73	4	B.7
418	T.B.48	4	E.2	444	T.B.74	2	C.8
419				445			
420				446			
421				447			
422				448			
423	T.B.53	4	F.6	449	T.B.79	4	D.7
424	T.B.54	4	F.6	450			
425	T.B.55	4	C.8	451			
426				452			
427	T.B.57	4	E.1	453	T.B.83	3	C.4
428	T.B.58	4	E.7	454	T.B.84	3	E.8
429				455	T.B.85	2	C.5
430				456			
431				457	T.B.87	4	D.6
432				458			
433	T.B. on former E	2	D.8	459	T.B.89	2	D.9

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
460			
461			
462			
463			
464			
465			
466	T.B.96 (Pre Mod.1271)	4	E.3
467	T.B.97	4	D.5
468	T.B.98	4	D.8
469	T.B.99	2	C.6
470			

ITEM	EQUIPMENT	FIG.	GRID REF.
471	T.B.101	1	B.5
472			
473			
474			
475			
476			
477			
478			
479			
480	T.B.110 (Pre Mod.1271)	4	E.2
481	T.B.111 (Pre Mod.1271)	4	E.2

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