

Group A.3

LOCATION OF EQUIPMENT

LIST OF CONTENTS

	Para.		Para.
Introduction	1	Master index of electrical equipment ...	4
Location of electrical equipment ...	2		
Access to electrical equipment	3	Cable assembly layout	5

LIST OF ILLUSTRATIONS

	Fig.		Fig.		Fig.
Equipment location		Main planes	5	Wings and pylons	9
Cabin	1	Access panels	6	◀ Wings and pylons Mk. 6A	
Front fuselage	2	Cable assembly layout		(Post Mod.1385)	10
Centre fuselage	3	Front fuselage	7	Wings and pylons Mk. 6A	
Rear fuselage	4	Centre and rear fuselage	8	(post Mod.1388)	11▶

TABLE

	Table
Master index of electrical equipment ...	1

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 equipment 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 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 terminal blocks and the equipment is illustrated diagrammatically ◀ in fig.7 to 11. 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.
MAJOR COMPONENTS			
1	J.B.1	3	C.4
2	J.B.2	1	A.5
3	J.B.3	3	D.5
4	J.B.4	2	F.3
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 & 2	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	3	J.3
13	ARM J.B.2	2	F.3
14	ARM J.B.3	5	C.3
15	ARM J.B.4	5	B.4
16	ARM J.B.5	5	G.3
17	ARM J.B.6	5	H.4
18	ARM J.B.7	2	H.3
19	ARM J.B.8	2	H.3

ITEM	EQUIPMENT	FIG.	GRID REF.
20			
21			
22			
23			
24			
25			
GENERATORS AND BATTERIES			
26	Generators	3	D.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	On Item 7
32	Main circuit breakers	2	On Item 7
33	Test sockets	2	On Item 7
34	Ammeter shunts	2	On Item 7
35	Battery relay	2	On Item 7
36	Hold-off relays	2	On Item 7
37	Regulator relays	2	On Item 7
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	H.4
40	Crash relays	2	On Item 7	65	High pressure switch	3	C.5
41	Field circuit breakers	2	On Item 7	66	Solenoid valve	3	C.5
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	E.3
44	Standby batteries	2	H.3	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

52	Starter push-switch	1	E.3
53	Ignition isolating 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	Ignition unit	3	D.5
58	Ignition relay Y	2	J.5
59	Starter control unit	3	D.5
60	B.4 circuit breaker	2	J.4
61	Liquid fuel starter	3	E.4
62	Fuel pump motor	3	D.4
63	High-energy ignition units	3	G.3

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 bottles	3	D.3
◀ 79	Flame switches (Pre Mod.960 A/C only) 3 & 4	G.2,4,H.2, 4,J.2 & 5, B.5 & 6	▶
80	Test switch	1	H.5
◀ 81	Control unit (Post Mod.960 A/C only)	2	G.3
82	Detector loop (Post Mod.960 A/C only) 3 & 4	G.4,J.3,J.4	
83		B.6,D.5 & G.5 ▶	

RESTRICTED

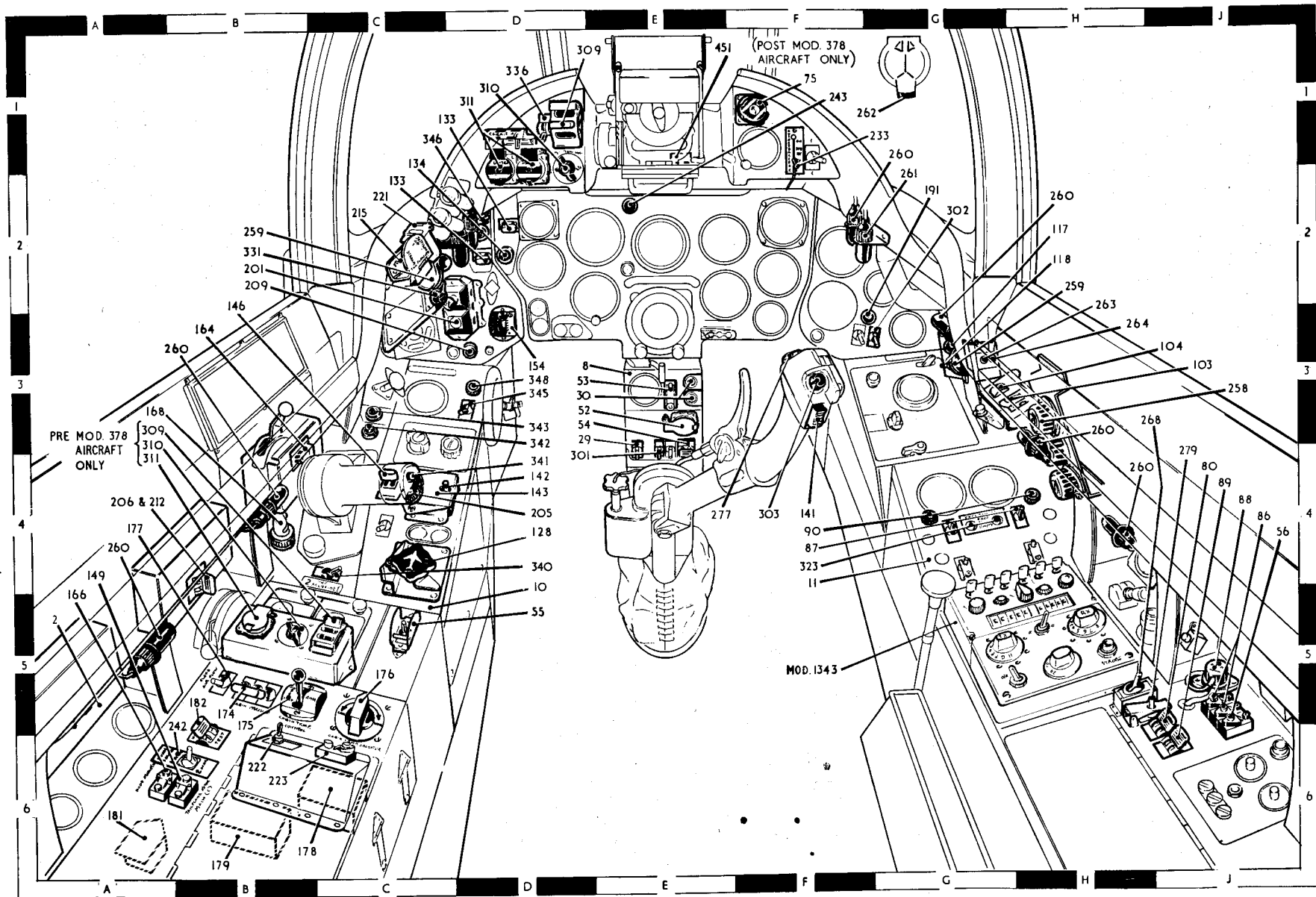


Fig.1 Equipment location - cabin

◀ (Mod.1343 incorporated) ▶

RESTRICTED

TP(E) 11570

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
TANK PUMPS				105	Gate valve actuator	3	H.3
84	Pumps	3	A.5	106			
85	Fuel pressure switches	3	A.5	107			
86	Circuit breakers	1	J.5	FUEL FILTER DE-ICING			
87	Control switches	1	G.4 & H.4	108	Pump	3	G.4
88	Ammeter test socket	1	J.5	109	Solenoid valve	3	G.5
89	Test switch	1	J.6	110	Engine switch	3	F.4
90	Pump indicators	1	G.4 & H.4	111	Test switch	3	G.5
91	Relay H.1	2	◀ On Item 6	112	Relay S.I	2	◀ On Item 6 ▶
92	Relay G.1	2	On Item 6 ▶	113	Indicator solenoid	3	F.5
93				114			
94				115			
95				EXPLOSION SUPPRESSION (Pre Mod.1271)			
96				116	Power pack	2	C.3
PRESSURE REFUELLING				117	Neon indicator	1	G.3
97	Time switch	5	D.3	118	Reset switch	1	G.3
98	Solenoid valves	3	D.5	119	Voltage trip unit	2	D.3
99	Fluid level switches	3 & 5	B.3	120	Detector units	4	B.5
			C.3 & G.3	121	Suppressor units	4	B.5
100	Indicator	5	D.3	122	Test lamps	4	◀ On Item 120
101				123	Indicator fuses	4	On Item 120
102				124	Test socket	4	B.5
ENGINE ANTI-ICING				125			
103	Switch	1	G.3	126			
104	Magnetic indicator	1	G.3	127			

RESTRICTED

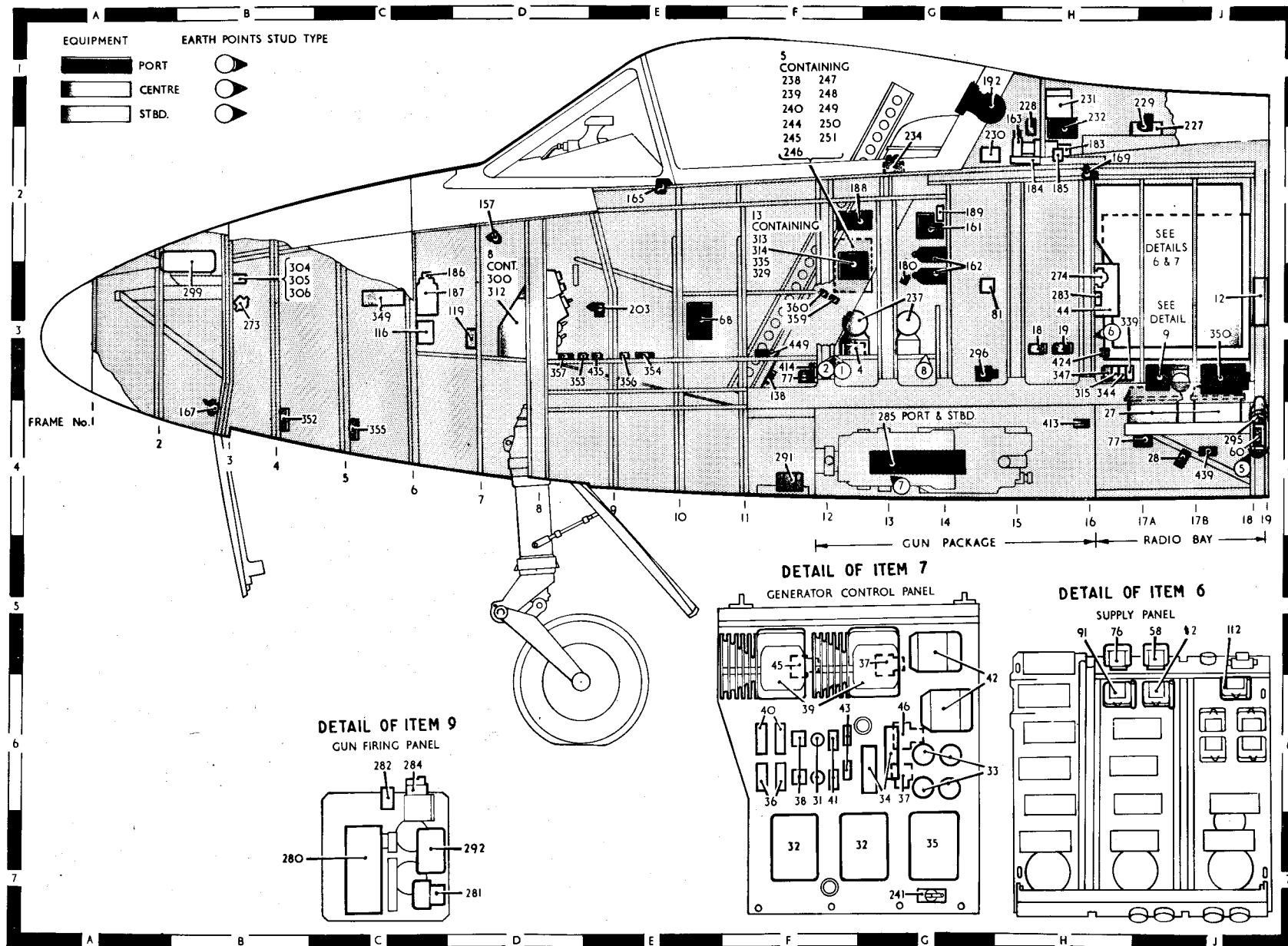


Fig.2 Equipment location - front fuselage

◀ (Mod.960 incorporated) ▶

RESTRICTED

T.P.(E) 11572

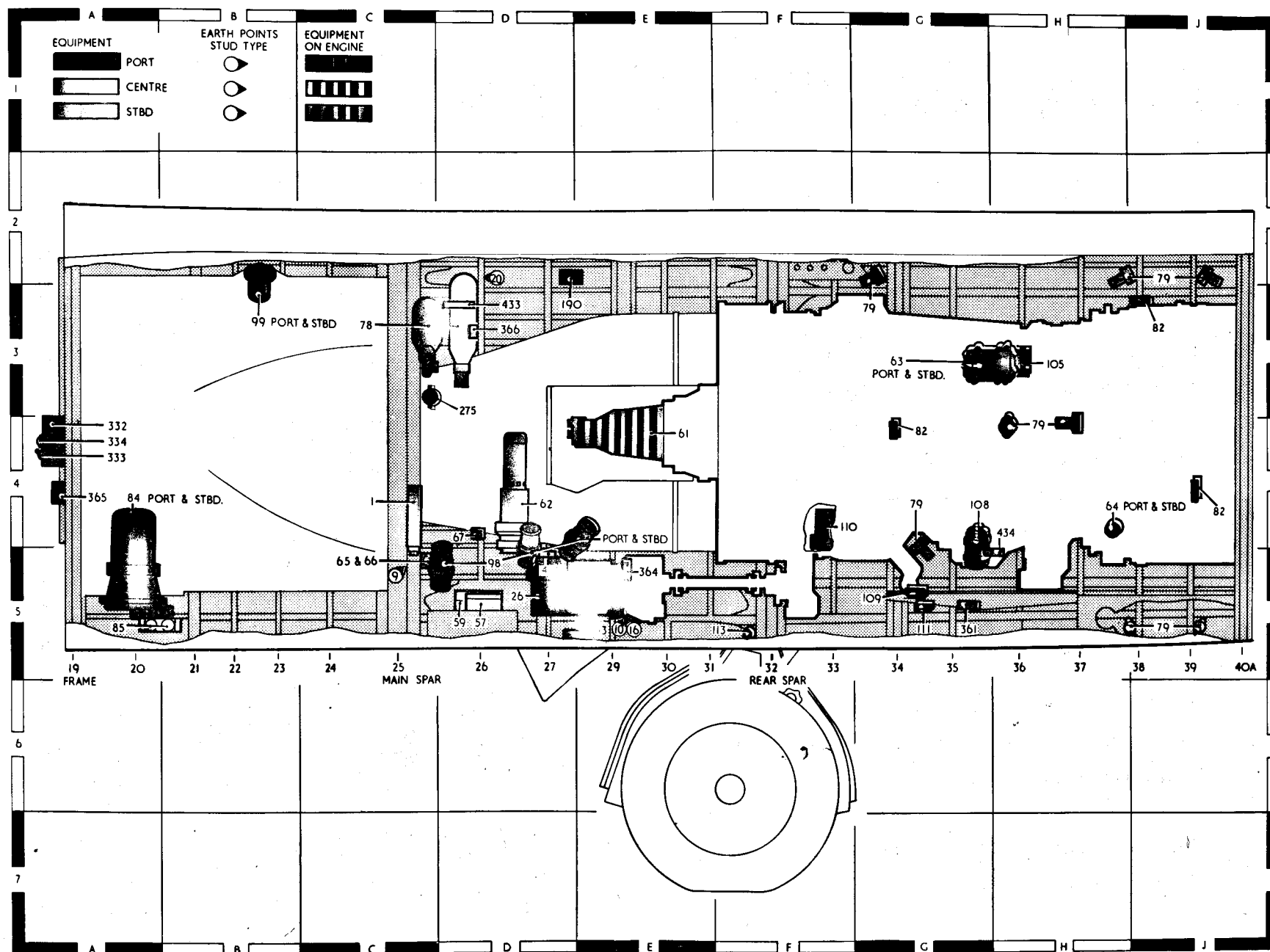


Fig.3 Equipment location - centre fuselage

◀ (Mod.960 incorporated) ▶

RESTRICTED

TABLE 1 Continued

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	Elevator selector and indicator ...	1	D.2
134	Aileron selector and indicator ...	1	D.2
135	Elevator solenoid valve	4	F.4
136	Aileron solenoid valve	5	G.3
137	Hydraulic pressure switches	4 & 5	F.4 & G.3
138	Power controls junction box	2	F.3
139			
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 microswitch	1	C.4
144	Main contactor	4	E.4
145	Standby contactor	4	E.4
146	Tail plane selector switch	1	C.4
147	Flying tail microswitches	4	G.4
148	Datum actuator	4	G.4
149	Circuit breaker	1	B.6
150			

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	Emergency microswitch	2	D.2
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			

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
CABIN PRESSURIZATION AND TEMPERATURE CONTROL			
174	Pressurization control switches ...	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	D.2
191	Pressure warning lamp	1	F.3
192	Auxiliary discharge valve	2	G.1
193			
194			
195			
196			
197			
198			

ITEM	EQUIPMENT	FIG.	GRID REF.
199			
200			
ALIGHTING GEAR CONTROL			
201	Control push-switches	1	D.2
202	Solenoid valve	5	F.3
203	Emergency microswitch	2	E.3
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 microswitch	4	B.6
211	Aft microswitch	4	C.6
212	Test switch	1	B.4
213			
214			
PARACHUTE BRAKE			
215	Control switch	1	C.2
216	Door solenoid	4	H.4
217	Jettison release unit	4	G.4
218	Door microswitch	4	H.5
219	Fillet door microswitch	4	G.4
220	Test plug	4	G.4
221	Indicator lamps	1	C.2

RESTRICTED

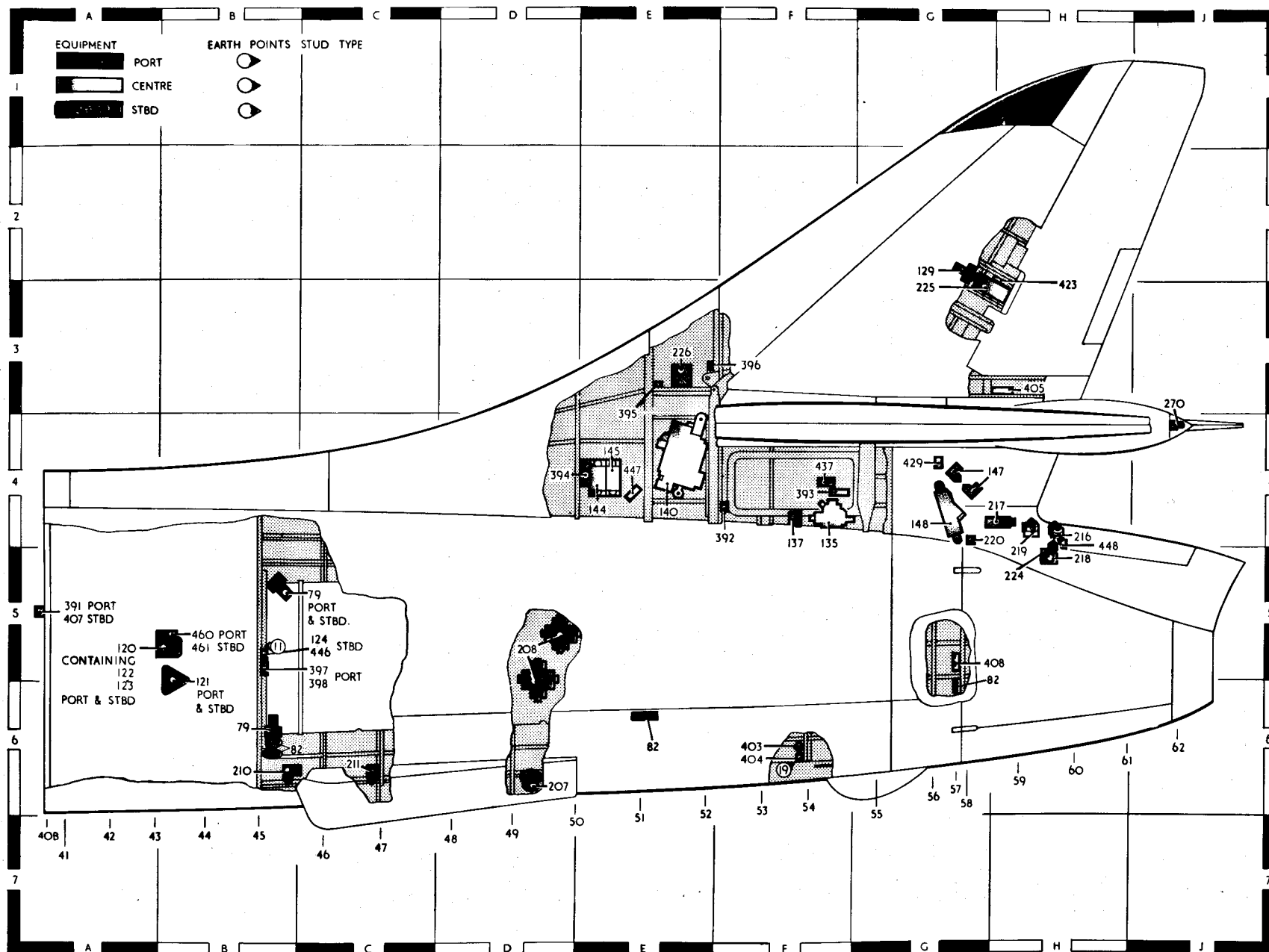


Fig.4 Equipment location -rear fuselage

◀ (Mod.960 incorporated) ▶

RESTRICTED

T.P.(E) 11576

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
222	Test switch	1	B.6
223	Circuit breaker	1	C.6
224	Door indicator microswitch	4	H.5
AUTOSTABILIZER (Rendered inoperative by Mod.873)			
225	Servomotor	4	G.3
226	Compass and autostabilizer junction box	4	E.3
227	Slave relay unit (Pre Mod.1026)	2	J.1
228	Suppressor (Pre Mod.1026)	2	H.1
229	Gyro unit (Pre Mod.1026)	2	J.1
230	Phase advance unit (Pre Mod.1026)	2	G.2
231	Amplifier unit (Pre Mod.1026)	2	H.1
232	Monitor unit (Pre Mod.1026)	2	H.1
233	Switch assembly (Pre Mod.1026)	1	F.1
234	A.C. distribution box	2	G.2
235			
236			

A.C. SUPPLIES

237	Inverters	2	F.3 & G.3
238	Torque switches	2	◀ In Item 5
239	Suppressors	2	In Item 5
240	Auto-transformer	2	In Item 5
241	Test and reset switch	2	On Item 7 ▶
242	Inverter selector switch	1	B.6
243	Inverter change-over indicator	1	E.2
244	Normal circuit breaker	2	◀ In Item 5

ITEM	EQUIPMENT	FIG.	GRID REF.
245	Standby circuit breaker	2	In Item 5
246	Relay A	2	In Item 5
247	Relay B	2	In Item 5
248	Relay C	2	In Item 5
249	Relay D	2	In Item 5
250	Relay E	2	In Item 5
251	Relay F	2	In Item 5 ▶
252			
253			
254			
255			
256			
257			

CABIN LIGHTING

258	Dimmer switches	1	H.3 & 4
259	U/V lamps	1	C.2 & G.3
260	Red lamps	1	A.5, B.4, D.2 F.2, G.3, G.4 & 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 compass lamp switch	1	G.3
265			
266			
267			

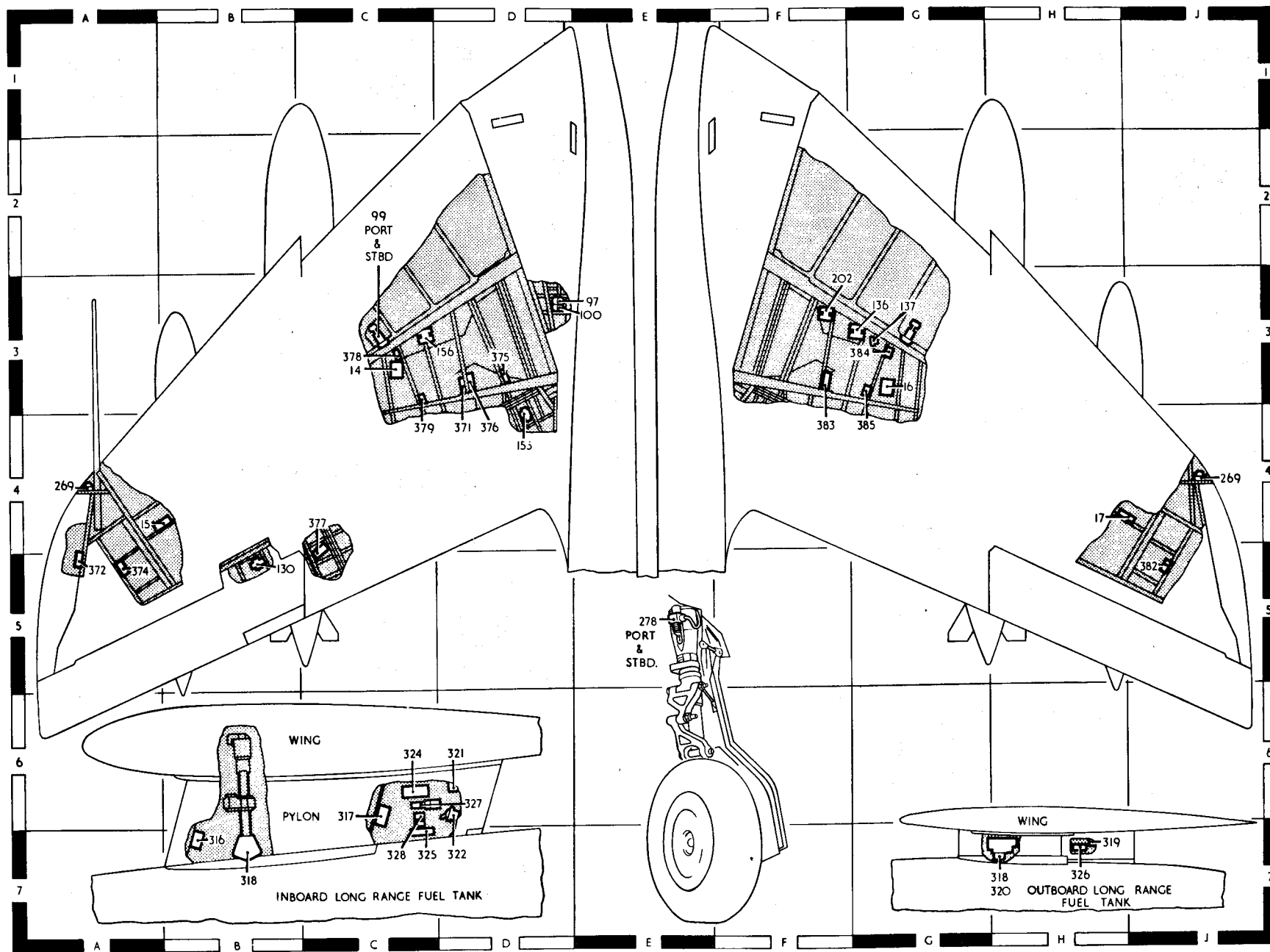
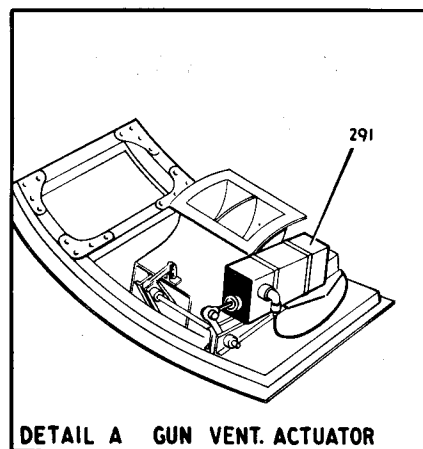


Fig.5. Equipment location - main planes

RESTRICTED

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
NAVIGATION LAMPS				289			
268	Control switch	1	H.5	290			
269	Wing-tip lamps	5	A.4 & J.4	GUN VENTILATION			
270	Tail lamp	4	J.4	291	Ventilation actuator	2	F.4
271				292	Relay C.1	2	C.7
272				293			
SERVICE LAMPS				294			
273	Nose bay lamp	2	B.3	GUN HEATING			
274	Radio bay lamp	2	H.3	295	Hot air valve actuator	2	J.4
275	Starter bay lamp	3	C.3	296	Thermostat	2	G.3
276				297			
GUN FIRING				298			
277	Firing trigger	1	F.3	CAMERA GUN			
278	Alighting gear compression micro switches	5	E.5	299	Camera gun	2	B.2
279	Armament ground test switch	1	H.5	300	Gyro cageing and camera relay U	2	D.3
280	Invertor	2	C.7	301	Camera master switch	1	E.4
281	Relay E.1	2	C.7	302	Sunny/cloudy switch	1	F.3
282	Relay F.1	2	C.6	303	Camera push-switch	1	F.3
283				304	Camera test switch	2	B.3
284	Circuit breaker	2	C.6	305	Camera run indicator	2	B.3
285	Box electrics	2	G.4	306	Iris relay	2	B.3
286				307			
287				308			
288				BOMB RELEASE, FUZING AND JETTISON			
				309	Bomb/R.P. switch	1	B.5 & D.1
				310	Fuzing selector	1	B.5 & D.1
				311	Inboard and outboard pylon stores jettison switches	1	B.5 & D.1
				312	Bomb/R.P. firing relay S	2	In Item 8



6	35	45	241	333
7	36	46	274	334
9	37	58	280	339
12	38	60	281	344
27	39	76	282	347
28	40	77	284	350
31	41	91	292	365
32	42	92	295	424
33	43	112	315	439
34	44	169	332	

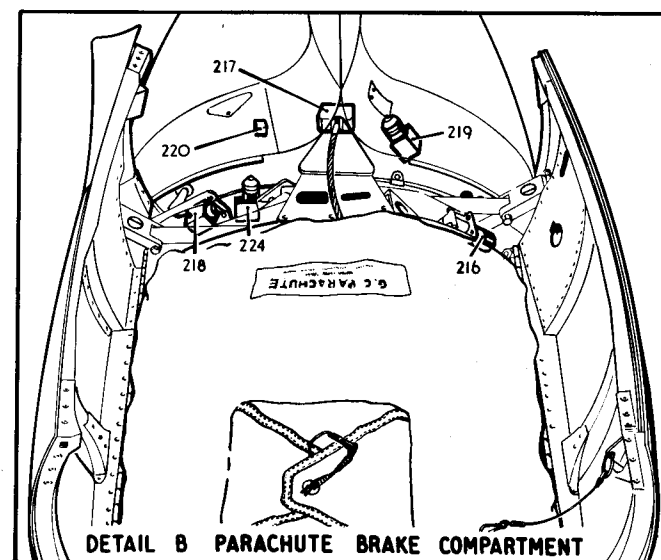
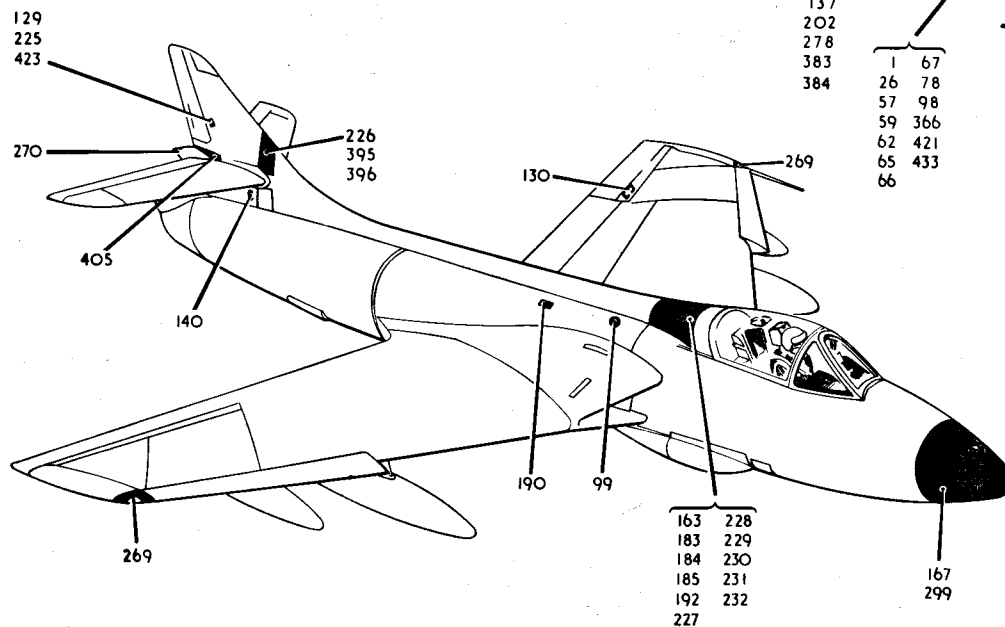
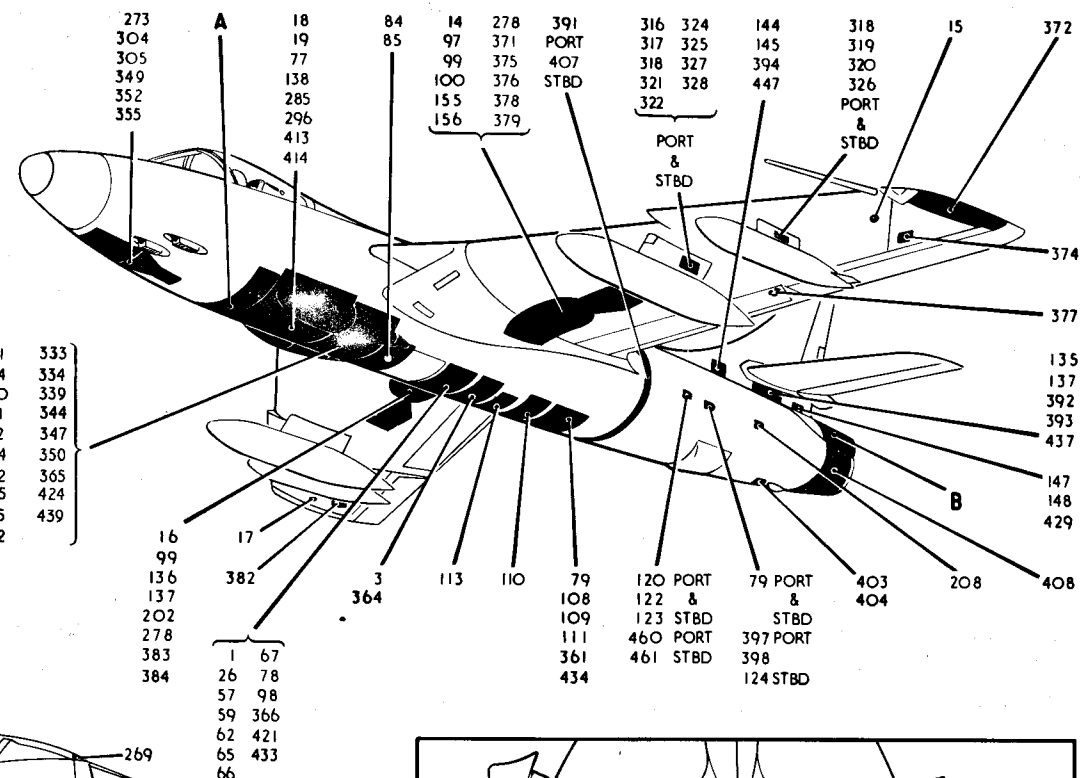


Fig.6. Access panels

RESTRICTED

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
313	Fuzing relay B	2	In Item 13	337			
314	Jettison relay A	2	In Item 13	338			
315	Bomb/R.P. circuit breaker	2	H.3	RADIO AND RADAR SUPPLIES			
316	Nose fuzing unit	5	B.7	339	I.F.F. circuit breaker	2	H.3
317	Tail fuzing unit	5	C.6	340	V.H.F. Set selector switch	1	C.4
318	Ejector release unit	5	B.7 & H.7	341	Press-To-Transmit switch	1	C.4
319	Cock test socket	5	H.7	342	Telebriefing push switch	1	C.3
320	Jettison solenoid	5	H.7	343	Telebriefing indicator lamps	1	C.3
321	Electro-magnetic release unit ...	5	D.6	344	D.M.E. circuit breaker	2	H.3
322	Drop tank refuel switches	5	D.6	345	Radar ranging switch	1	D.3
323	Outboard drop tank empty indicators ...	1	G.4	346	Radar presentation switch	1	D.2
324	Inboard pylon T.B.1	5	C.6	347	Radar ranging circuit breaker ...	2	H.3
325	Inboard pylon T.B.2	5	C.7	348	Radar supply indicator	1	D.3
326	Outboard pylon T.B.1	5	H.7	349	Radar range inverter	2	C.3
327	Safety plockets	5	C.6	350	I.F.F. inverter	2	J.3
328	Relays C and D	5	C.6	Note ...			
329	Bomb fuzing fuses	2	In Item 13	For location of Tacan installation components introduced by Mod.1320 see Sect.6, Chap.2, App.1, Fig.1 and for position of I.F.F./S.S.R. installation components introduced by Mod.1343 see Sect.6, Chap.2, App.2, Fig.1 of this A.P.			
330				TERMINAL BLOCKS			
R.P.FIRING				351			
331	R.P. selector switch	1	C.2	352	T.B.2	2	B.4
332	R.P. firing distribution box	3	A.4	353	T.B.3	2	D.3
333	Reset switch	3	A.4	354	T.B.4	2	E.3
334	Re-set indicator	2	On Item 12				
335	R.P. Assessment relay C	2	In Item 13				
336	R.P. Ripple/normal switch	1	D.1				

RESTRICTED

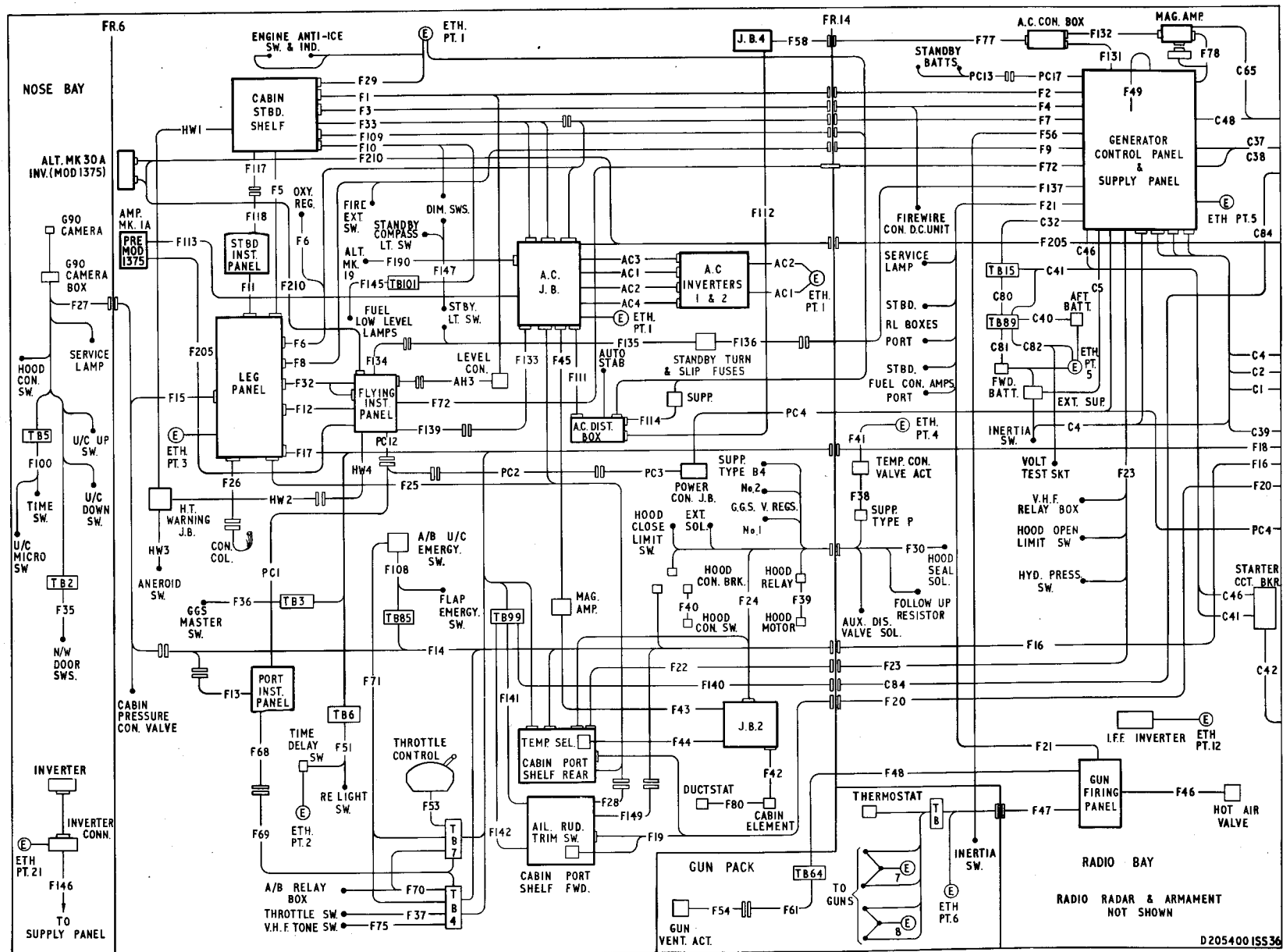


Fig.7 Cable assembly lay out - front fuselage

◀ (Mod.1375 added) ▶

RESTRICTED

T.P.(E) 22916

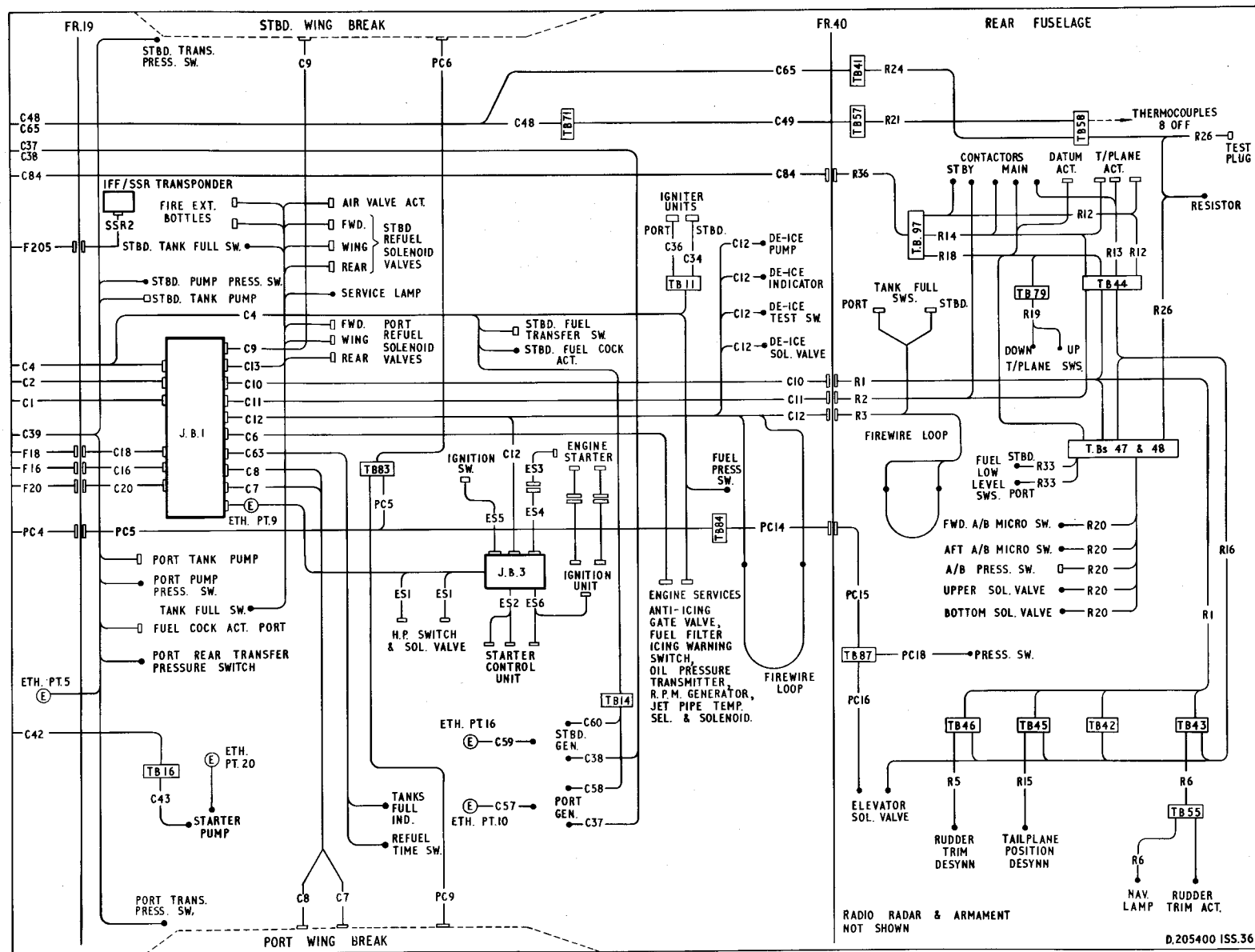


Fig.8 Cable assembly layout - centre and rear fuselage

◀ (Mod.1375 added) ▶

RESTRICTED

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
355	T.B.5	2	C.4	380			
356	T.B.6	2	E.3	381			
357	T.B.7	2	D.3	382	T.B.32	5	J.5
358				383	T.B.33	5	F.3
359	T.B.9	2	F.3	384	T.B.34	5	G.3
360	T.B.10	2	F.3	385	T.B.35	5	G.3
361	T.B.11	3	G.5	386			
362				387			
363				388			
364	T.B.14	3	E.5	389			
365	T.B.15	3	A.4	390			
366	T.B.16	3	D.3	391	T.B.41	4	A.5
367				392	T.B.42	4	F.4
368				393	T.B.43	4	F.4
369				394	T.B.44	4	E.4
370				395	T.B.45	4	E.3
371	T.B.21	5	D.3	396	T.B.46	4	E.3
372	T.B.22	5	A.5	397	T.B.47	4	B.5
373				398	T.B.48	4	B.5
374	T.B.24	5	A.5	399			
375	T.B.25	5	D.3	400			
376	T.B.26	5	D.3	401			
377	T.B.27	5	C.4	402			
378	T.B.28	5	C.3	403	T.B.53	4	F.6
379	T.B.29	5	C.3	404	T.B.54	4	F.6

RESTRICTED

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.
405	T.B.55	4	H.3
406			
407	T.B.57	4	A.5
408	T.B.58	4	G.5
409			
410			
411			
412			
413	T.B. 63	2	H.4
414	T.B.64	2	F.3
415			
416			
417			
418			
419			
420			
421	T.B.71	3	D.5
422			
423	T.B.73	4	H.2
424	T.B.74	2	H.3
425			
426			
427			
428			
429	T.B.79	4	G.4

ITEM	EQUIPMENT	FIG.	GRID REF.
430			
431			
432			
433	T.B.83	3	D.3
434	T.B.84	3	G.5
435	T.B.85	2	E.3
436			
437	T.B.87	4	F.4
438			
439	T.B.89	2	J.4
440			
441			
442			
443			
444			
445			
446	T.B.96 (Pre Mod.1271) ...	4	B.5
447	T.B.97	4	E.4
448	T.B.98	4	H.4
449	T.B.99	2	F.3
450			
451	T.B 101	1	E.1
452			
453			
454			

RESTRICTED

T.P.(E) 11584

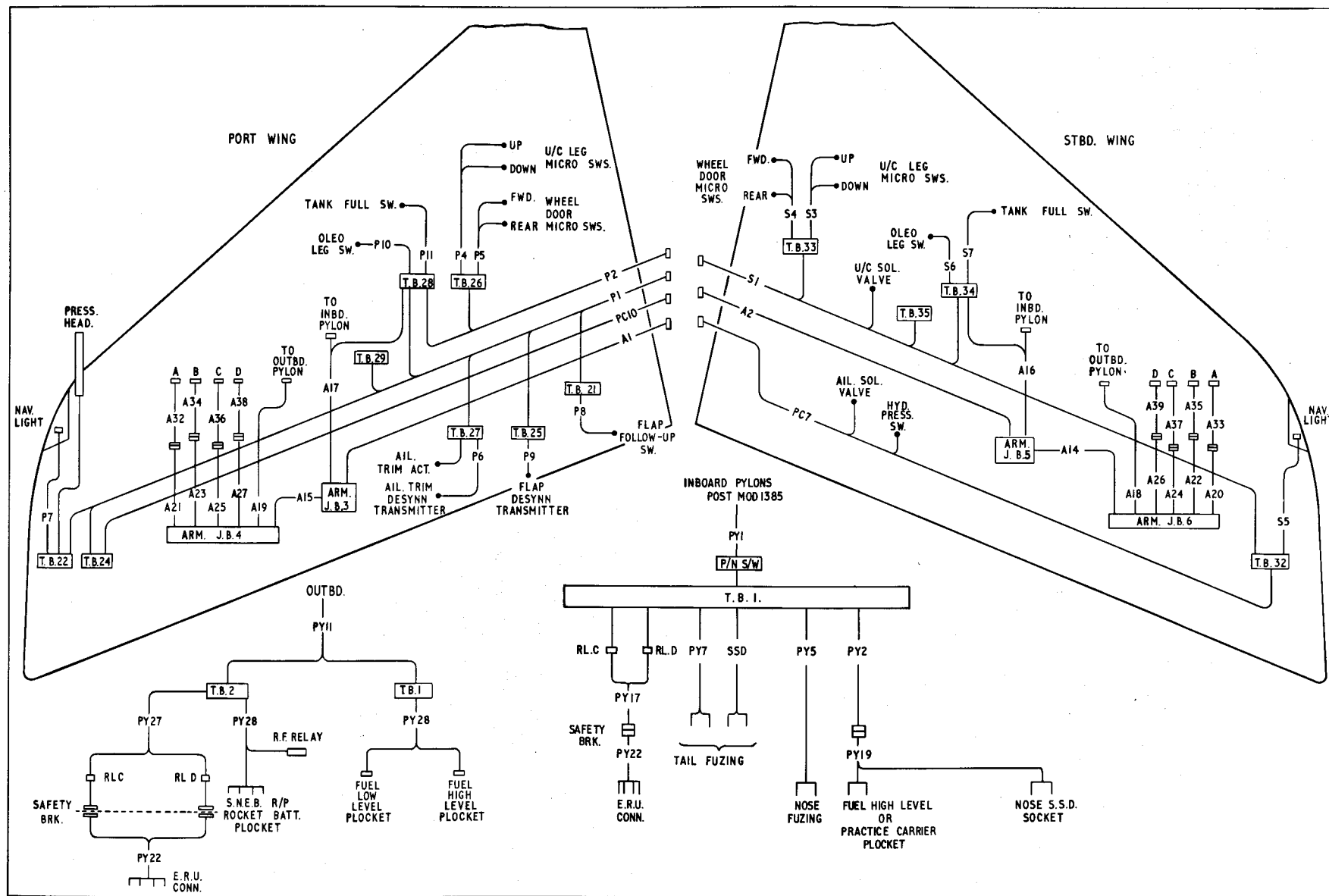


Fig.10 Cable assembly layout Mk.6A - wings and pylons (post Mod.1385)

RESTRICTED



T.P.(E)23615

TABLE 1 Continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
455				463			
456				464			
457				465			
458				466			
459				467			
460	T.B.110 (Pre Mod.1271)	4	B.5	468			
461	T.B.111 (Pre Mod.1271)	4	B.5	469			
462				470			

This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

