

GROUP A.3

LOCATION OF EQUIPMENT

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TABLE

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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 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 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 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 is 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.

TABLE 1
MASTER INDEX OF ELECTRICAL EQUIPMENT

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
MAJOR COMPONENTS				23	Tacan A.C. Supplies Panel	2	B.8
1	Main trunking	1	F.7	24			
2	Centre console	1	E.5	25			
		2	C.5	26			
3	Main fuse box	2	B.7	GENERATORS AND BATTERIES			
4	Leg panel	2	C.5	27	Generators	3	D.7
5	J.B.1	3	D.3	28	Main batteries	2	C.8
6	J.B.2	2	B.5	29	Standby batteries	2	B.8
7	A.C.J.B.1.	1	F.9	30	Suppressors	3	D.7
		2	B.7	31	External supply plug	2	C.9
8	A.C. J.B.2	2	C.3	32	Battery master switch	1	D.4
9	ARM J.B.1	3	C.1	33	Power failure warning lamps	1	D.4
10	ARM J.B.3	5	E.3	34	Power failure indicators	2	On item 17
11	ARM J.B.4	5	F.2	35	Main circuit breakers	2	On item 17
12	ARM J.B.5	5	E.7	36	Test sockets	2	On item 17
13	ARM J.B.6	5	F.8	37	Ammeter shunts	2	On item 17
14	ARM J.B.7	2	C.9	38	Battery relay	2	On item 17
15	ARM J.B.8	2	C.9	39	Hold-off relays	2	On item 17
16	Supply panel	2	B.9	40	Regulator relays	2	On item 17
17	Generator control panel	2	B.9	41	Reset switches	2	On item 17
18				42	Voltage regulators	2	On item 17
19				43	Crash relays	2	On item 17
20				44	Field circuit breakers	2	On item 17
21	Port miscellaneous switch panel ...	1	F.1	45	Differential cu' outs	2	On item 17
22	A.C. circuit breaker panel	2	B.7				

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TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
46	Remote voltage trimmers	2	On item 17	FIRE WARNING AND EXTINGUISHER			
47	Inertia switches	2	B.9	71	Switch and warning lamp	1	B.5
48	Main feeder circuit breakers	2	B.8	72	Relay X	2	On item 16
49				73	Inertia switches	2	B.9
50						3	D.1
51				74	Extinguisher bottle	3	C.3
52				75	Flame switches	3	B.6, B.8, B.9, C.7, D.6, D.8 & D.9
53						4	E.2 & F.2
ENGINE STARTING				76	Test switch	1	B.5
54	Engine starting switch	1	D.4	77			
55	Ignition isolating switch	1	D.4	78			
56	Engine master switch	1	D.4	79			
57	Engine relight switch	1	E.2	80			
58	Starter circuit breaker	1	E.5	TANK PUMPS			
59	Ignition relay Y	2	On item 16	81	Pumps	3	D.1
60	Time switch	2	C.4	82	Suppressor	3	E.1
61	Turbo starter	3	C.5	83	Circuit breakers	1	E.6
62	High energy igniter units	3	C.7	84	Control switches	1	B.5 & B.6
63	Igniter plugs	3	D.8	85	Ammeter test socket	2	B.7
64	Limiting resistor	1	D.4	86	Test switch	2	B.7
65				87			
66				88			
67				89			
68				90			
69							
70							

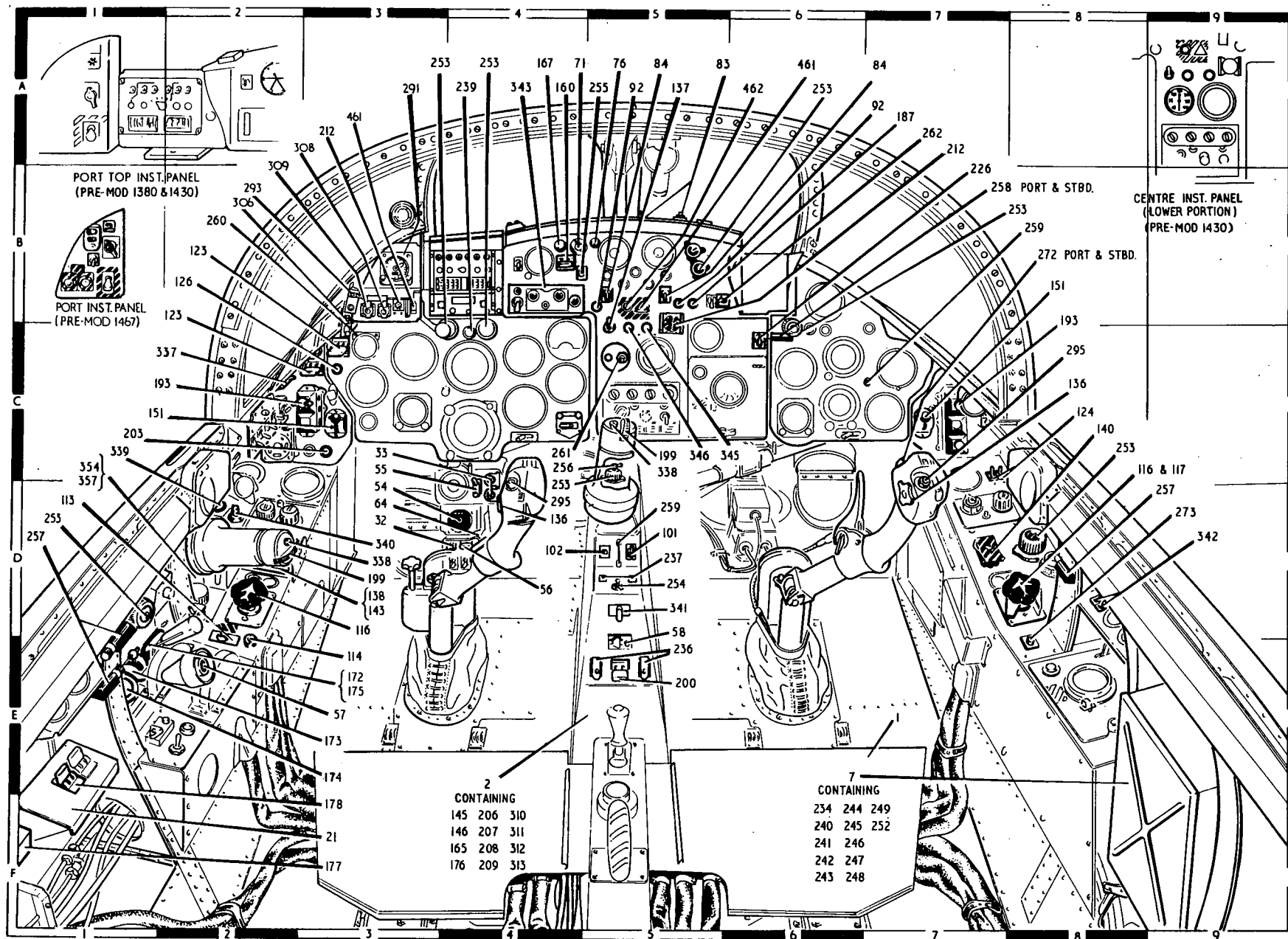
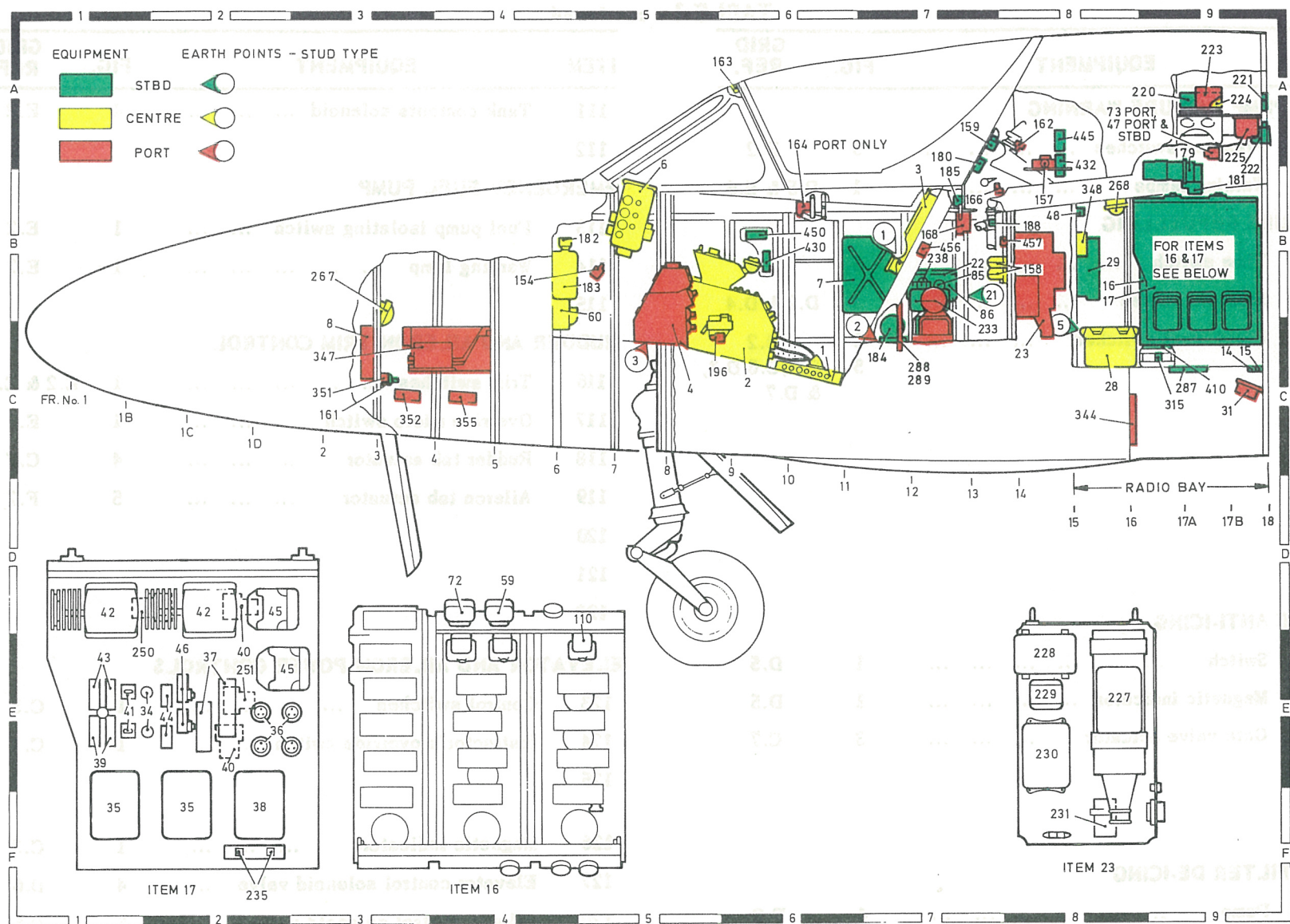


Fig.1 Equipment location - cabin
(Mod 1467 added)

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
TANK PUMP FAILURE WARNING				111	Tank contents solenoid	4	E.2
91	Pressure switches	3	E.2	112			
92	Warning lamps	1	B.5 & B.6	EMERGENCY FUEL PUMP			
PRESSURE REFUELLING				113	Fuel pump isolating switch	1	E.2
93	Time switch	5	D.4	114	Warning lamp	1	E.2
94	Solenoid valves	3	D.2 & D.4	115			
95	Fluid level switches	3	B.2	RUDDER AND AILERON TRIM CONTROL			
		5	C.4,C.6,D.3, & D.7	116	Trim switches	1	E.2 & E.8
96				117	Override micro switch	1	E.8
97				118	Rudder tab actuator	4	C.7
98				119	Aileron tab actuator	5	F.2
99				120			
100				121			
ENGINE ANTI-ICING				122			
101	Switch	1	D.5	ELEVATOR AND AILERON POWER CONTROLS			
102	Magnetic indicator	1	D.5	123	Control switches	1	C.3
103	Gate valve actuator	3	C.7	124	Instructor's override switch	1	C.7
104				125			
105				126	Magnetic indicators	1	C.3
FUEL FILTER DE-ICING				127	Elevator control solenoid valve ...	4	D.6
106	Pump	4	F.2	128	Aileron control solenoid valve ...	5	D.6
107	Solenoid valve	3	E.9	129	Elevator release unit micro switch ..	4	D.6
108	Pressure switch	3	E.3	130	Aileron release unit micro switches	5	F.2 & F.8
109	Test switch	4	E.2	131			
110	Relay S.1	2	On item 16	132			



**Fig.2 Equipment location - front fuselage
(Mod 1467 added)**

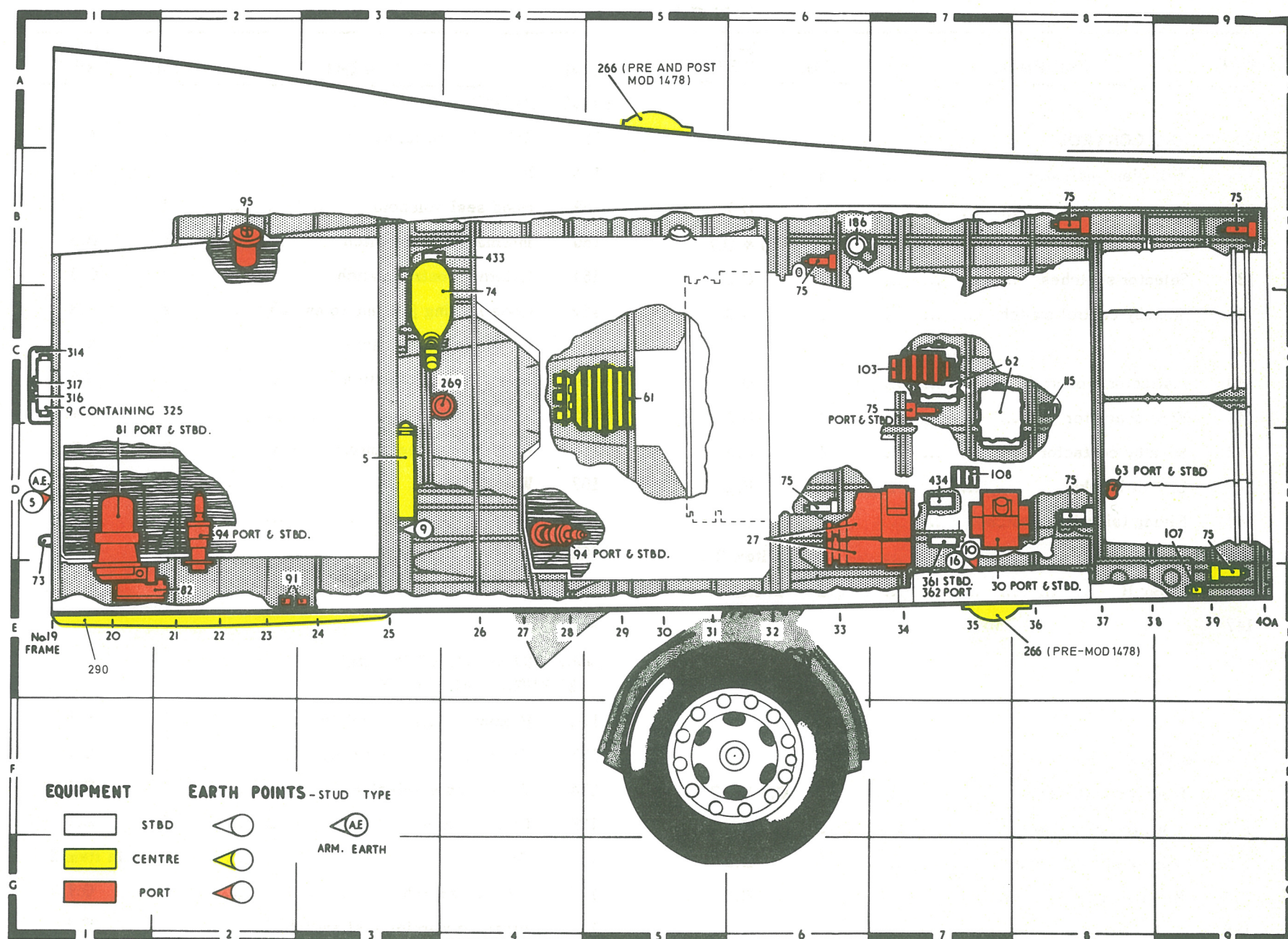


TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
133							
TAIL PLANE CONTROL				HOOD CONTROL			
134	Tail plane actuator	4	D.5	157	Solenoid control valve	2	A.8
135	Datum actuator	4	D.7	158	Relay unit	2	B.7
136	Normal control switches	1	D.4 & D.7	159	Hood seal solenoid	2	A.7
137	Selector switches	1	C.5	160	Internal control switch	1	B.5
138	Standby control switch	1	D.3	161	External control switch	2	C.3
139				162	Hood locking jack micro switch ...	2	A.8
140	Instructor's override switch	1	D.8	163	Windscreen arch micro switch ...	2	A.6
141	Main contactor	4	D.5	164	Side lock micro switch	2	B.6
142	Standby contactor	4	D.5	165	Relay L	1	In item 2
143	Circuit breaker	1	F.1	166	Hood torque shaft micro switch ...	2	B.7
144	Flying tail micro switches	4	D.7	167	Warning lamp	1	B.5
145	Relay J	1	In item 2	168	Warning horn	2	B.7
146	Relay H	1	In item 2	169			
147				170			
148				171			
149				CABIN PRESSURIZATION AND TEMPERATURE CONTROL			
150				172	Pressurization control switches ...	1	E.1
FLAP CONTROL				173	Temperature control switch	1	E.1
151	Selector switches	1	C.3 & C.7	174	Temperature selector	1	E.1
152	Drum follow-up switch	5	E.4	175	Flood switch	1	E.1
153	Solenoid control valve	5	D.3	176	Relay K	1	In item 2
154	Micro switch	2	B.4	177	Altitude switch	1	G.1
155				178	Pressure warning test switch ...	1	F.1
156				179	Temperature control valve actuator .	2	B.9

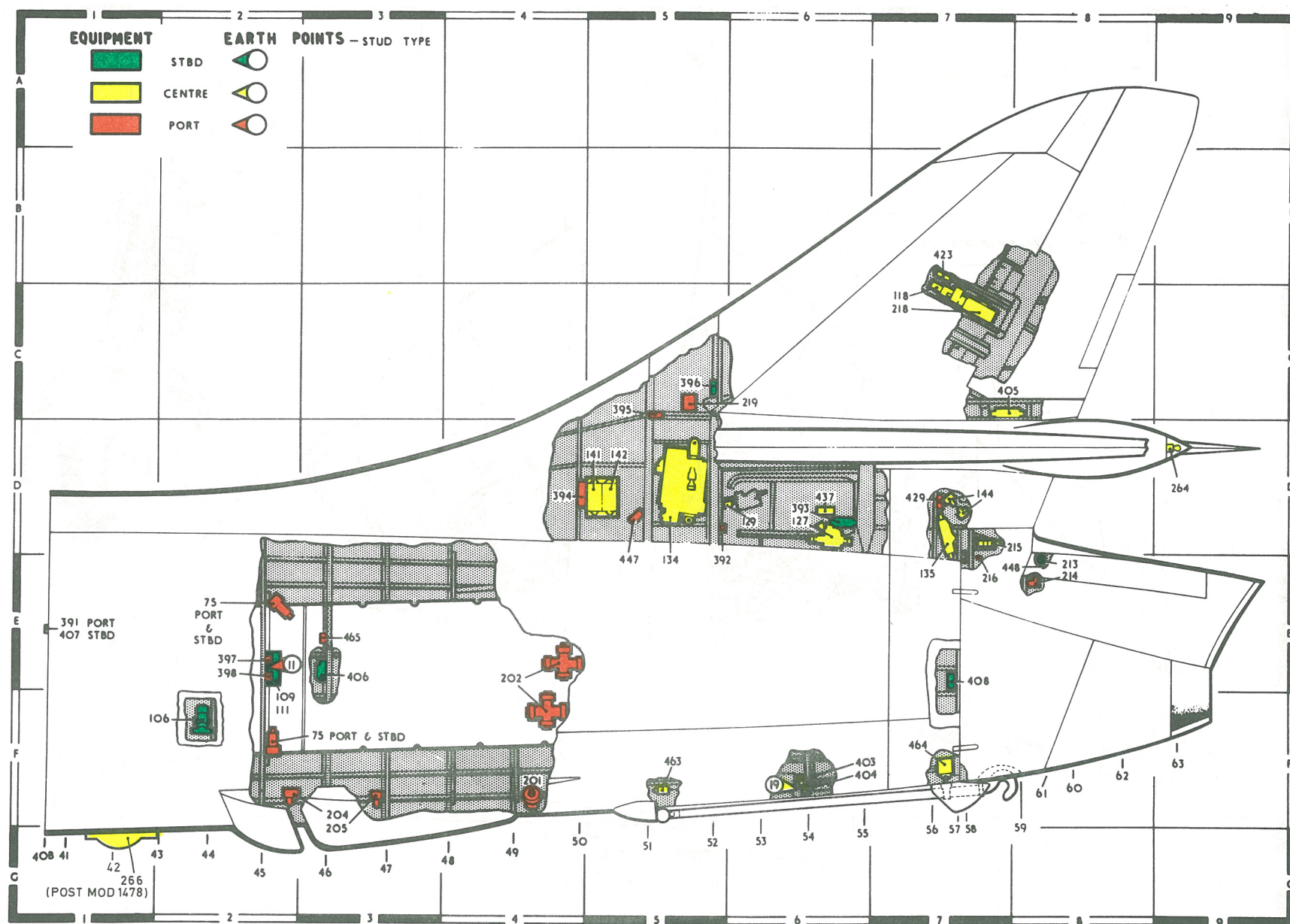


Fig. 4 Equipment location - rear fuselage
(Mod 1478 added)

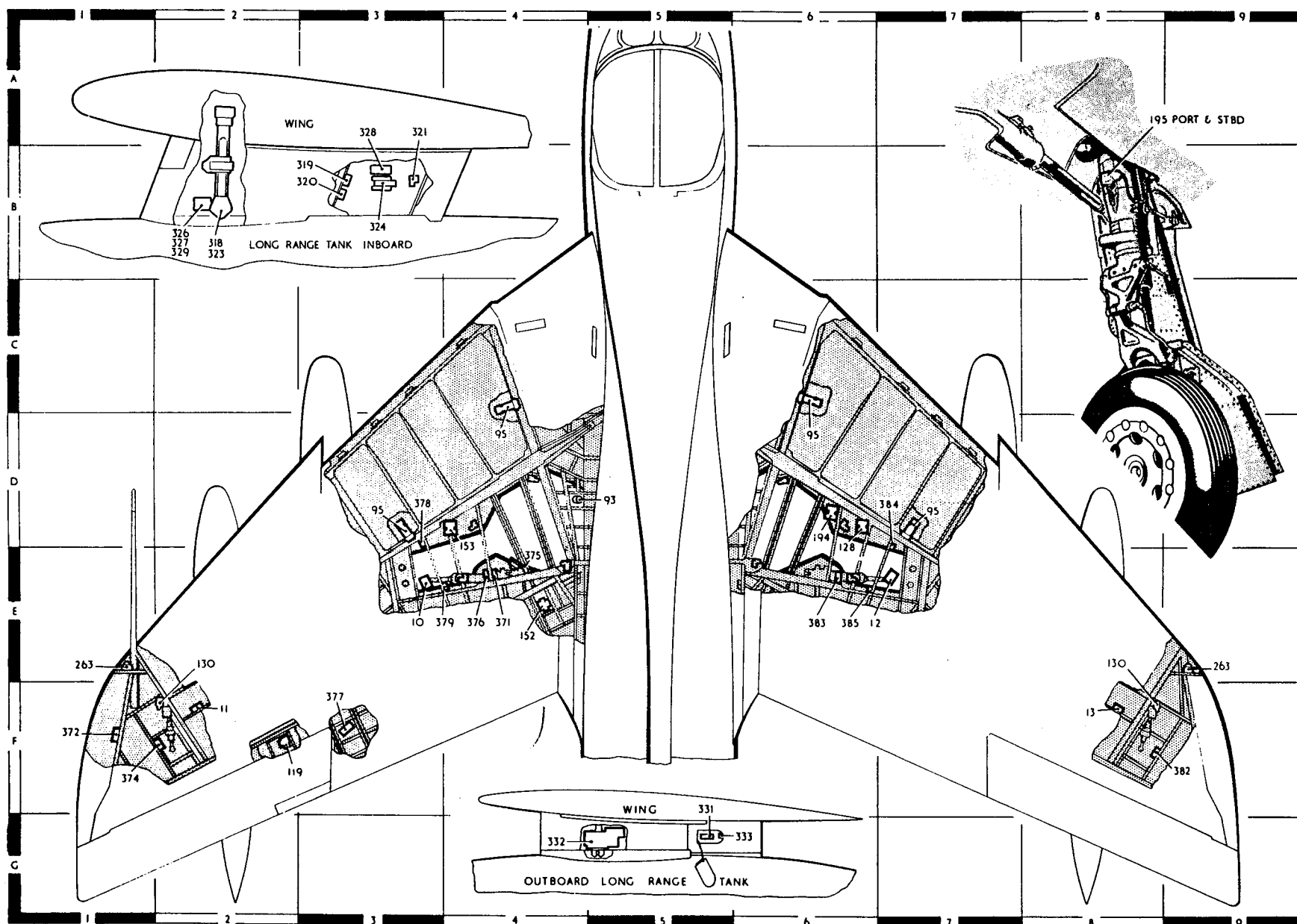


Fig.5. Equipment location - main planes

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
180	Suppressor	2	A.7	204	Forward micro switch	4	F.2
181	Follow-up resistor	2	B.9	205	Aft micro switch	4	F.3
182	Cabin element	2	B.4	206	Relay P	1	In item 2
183	Cabin pressure control valve	2	B.4	207	Relay Q	1	In item 2
184	Magnetic amplifier	2	C.7	208	Relay R	1	In item 2
185	Extractor solenoid	2	B.7	209	Relay S	1	In item 2
186	Air supply valve actuator	3	B.6	210			
187	Pressure warning lamp	1	B.5	211			
188	Ductstat	2	B.7				
189							
190							
191							
192							
	ALIGHTING GEAR CONTROL				PARACHUTE BRAKE		
193	Control push-switches	1	C.3 & C.7	212	Control switches	1	B.3 & C.6
194	Solenoid control valve	5	D.6	213	Door solenoid	4	E.8
195	Leg compression switches	5	B.8	214	Door micro switch	4	E.8
196	Emergency micro switch	2	C.5	215	Jettison release unit	4	D.7
197				216	Cocking test plug	4	D.7
198				217			
	AIR BRAKE CONTROL				AUTOSTABILIZER		
199	Control switches	1	C.5 & D.3	218	Servomotor	4	C.7
200	Test switch	1	E.5	219	Compass and autostabilizer junction box	4	C.5
201	Pressure switch	4	F.4	220	Slave relay unit	2	A.9
202	Solenoid control valve	4	E.4 & F.4	221	Suppressor	2	A.9
203	Magnetic indicator	1	C.3	222	Gyro unit	2	A.9
				223	Phase advance unit	2	A.9
				224	Amplifier unit	2	A.9
				225	Monitor unit	2	A.9
				226	Switch assembly	1	C.6

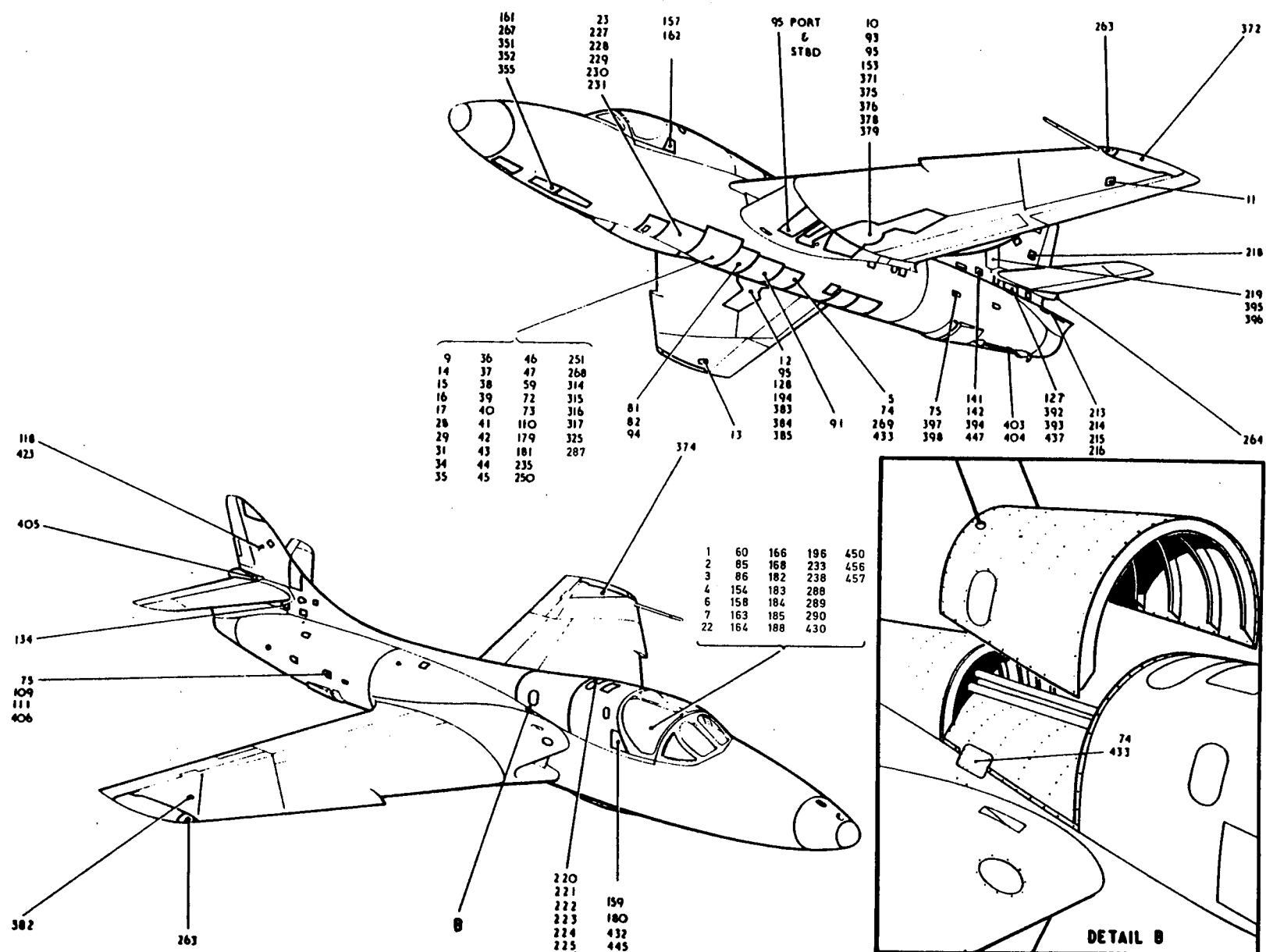


Fig. 6 Access panels

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
A.C. SUPPLIES				CABIN LIGHTING			
227	Invertor type 108	2	On item 23	253	Dimmer switches	1	B.3, B.5, C.6, D.1, D.8
228	Starter switch	2	On item 23				
229	Delay unit	2	On item 23	254	Centre console lamp switch	1	D.5
230	Tacan A.C. Control box	2	On item 23	255	Emergency lamp switch	1	B.5
231	Type T.1 relay	2	On item 23	256	Emergency compass lamp switch ...	1	D.5
232				257	Side lamps	1	C.3, E.8
233	Inverters	2	B.7	258	Emergency lamps	1	C.7
234	Torque switches	1	In item 7	259	Pillar lamps	1	C.7 & D.5
235	Test switches	2	On item 17	260	Bridge lamps	1	C.3
236	Standby and reset selector switches	1	E.5				
237	Magnetic indicators	1	D.5				
238	Circuit breakers	2	B.7				
239	Port artificial horizon magnetic indicator	1	C.4				
240	Relay A	1	In item 7	NAVIGATION AND ANTI-COLLISION LAMPS			
241	Relay J	1	In item 7	261	Anti-collision lamps switch (Mod 1380)	1	C.5
242	Relay B	1	In item 7	262	Navigation lamps switch	1	B.6
243	Relay P	1	In item 7	263	Wing-tip lamp	5	E.1 & E.9
244	Relay C	1	In item 7	264	Tail lamp	4	D.9
245	Relay D	1	In item 7	265	Flasher unit	-	Not Fitted
246	Relay E	1	In item 7	▶ 266	Anti-collision lamps (Pre Mod 1478) ...	3	A.5 & E.7
247	Relay F	1	In item 7		Anti-collision lamp (Post Mod 1478) ...	3	A.5
248	Relay G	1	In item 7		Anti-collision lamp (Post Mod 1478) ...	4	G.1
249	Relay H	1	In item 7				
250	Relay A.2	2	On item 17	SERVICE LAMPS			
251	Relay B.2	2	On item 17	267	Nose bay lamp	2	C.3
252	Relay N	1	In item 7	268	Radio bay lamp	2	B.8
				269	Starter bay lamp	3	C.3
				270			

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
271				294			
GUN FIRING (Not Used)				G.45 OR G.90 CAMERA			
272	Firing trigger	1	D.7	295	Camera push-switches	1	D.4 & D.8
273	Armament safety switch	1	E.9	296			
274				297			
275				298			
276				299			
277				300			
278				301			
279				302			
280				303			
281				304			
282				ARMAMENT SERVICES			
283				305	Bomb/R.P. switch	1	B.3
284				306	R.P. selector switch	1	B.3
285				307	Fuzing selector	1	B.3
286				308	Inner pylon stores jettison switch...	1	B.3
▶ RADAR ALTIMETER				309	Outer pylon stores jettison switch...	1	B.3
287	Transmitter/Receiver	2	C.9	310	Bomb/R.P. relay	1	In item 2
288	Tone generator	2	B.7	311	Fuzing relay	1	In item 2
289	Amplifier	2	C.7	312	Jettison relay	1	In item 2
290	Aerial	3	E.1	313	R.P.assessment relay	1	In item 2
291	Indicator	1	B.3	314	R.P.firing distribution box	3	C.1
292	Low Warning Lights	1	B.4 AND B.5	315	Circuit breaker	2	C.9
293	Master Switch	1	B.3	316	Reset switch	3	C.1
				317	Reset indicator	3	C.1

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
318	Slip release (interim pylon)	5	B.3	343	Tacan control unit	1	B.4
319	Relay C	5	B.2	▶ 344	Filter unit, dc (Mod 1481)	2	C.8 ◀
320	Relay D	5	B.3	345	Tacan A.C. supplies indicator ...	1	C.5
321	Cock test sockets	5	B.3	346	Tacan reset push switch ...	1	C.5
322				347	VHF transceiver and amplifier (Mod 1430)	2	C.3
323	Ejector release unit (final pylon) ...	5	B.2	348	Radio selector JB (Mod 1430)	2	B.8
324	Safety plockets	5	B.3	349			
325	Rippling relay	3	In item 9	350			
326	Practice bomb socket	5	B.2	TERMINAL BLOCKS			
327	Rocket battery plocket	5	B.2	351	T.B.1	2	C.3
328	Inboard pylon T.B.1	5	B.3	352	T.B.2	2	C.3
329	Fuel high level switch plocket ...	5	B.3	353			
330				354	T.B.4	1	D.2
331	Outboard pylon T.B.1	5	G.5	355	T.B.5	2	C.4
332	Outboard pylon slip release	5	G.5	356			
333	Outboard pylon cock test sockets...	5	G.5	357	T.B.7	1	D.2
334				358			
335				359			
336				360			
RADIO SUPPLIES				361	T.B.11	3	D.7
337	U H F set selector switch	1	C.2	362	T.B.12	3	D.7
338	U H F press to transmit switches ..	1	C.5 & D.2	363			
339	Tele-briefing lamp	1	D.2	364			
340	Tele-briefing push switch	1	D.2	365			
341	Muting switch	1	E.5	366			
342	Intercommunication switches	1	E.9	367			

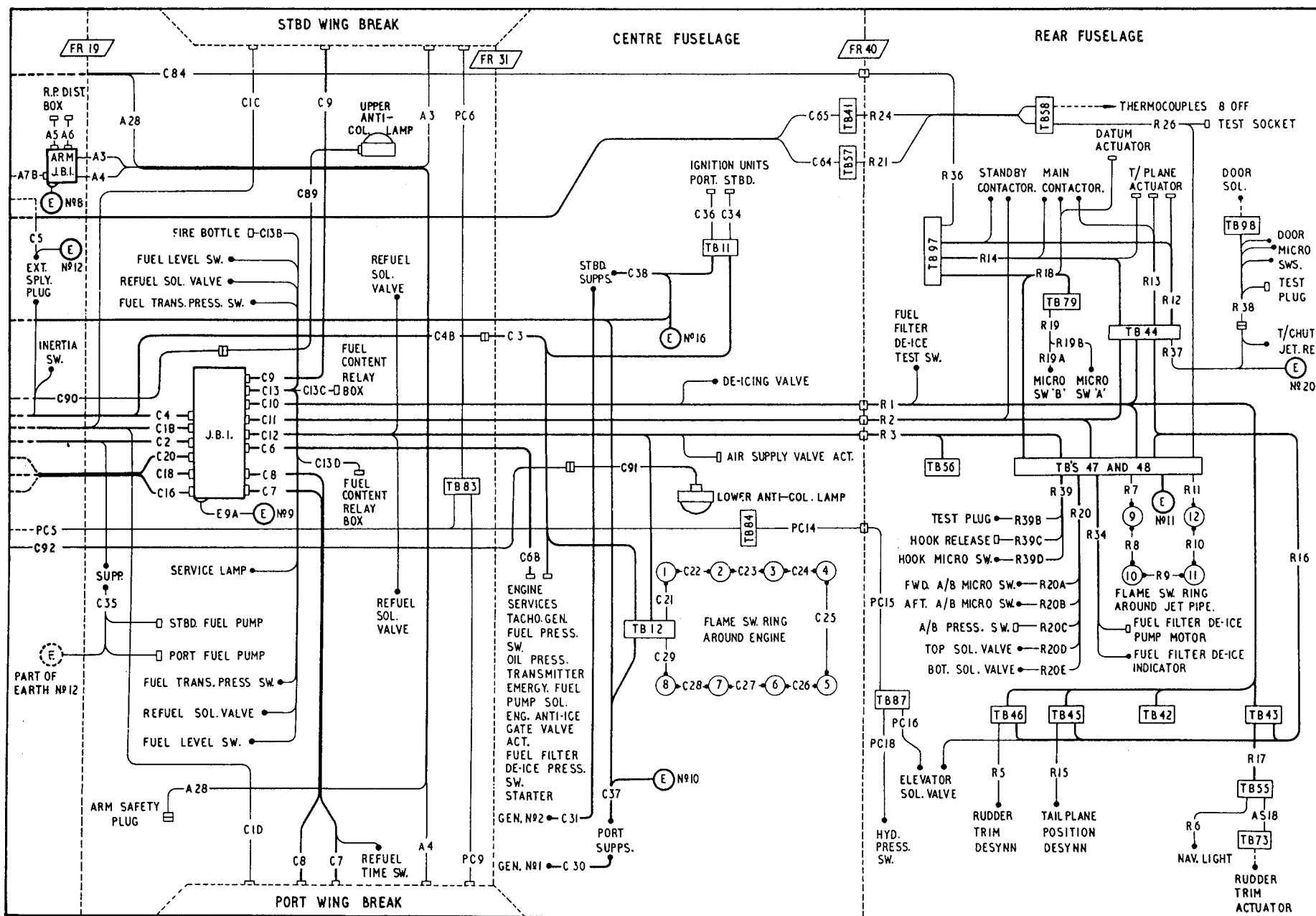


Fig.8 Cable assembly layout — centre and rear fuselage
Mod.1378 added

TABLE 1 - continued

ITEM	EQUIPMENT						FIG.	GRID REF.	ITEM	EQUIPMENT						FIG.	GRID REF.
368									394	T.B.44	...	...	...	...	...	4	D.4
369									395	T.B.45	...	...	...	...	...	4	C.5
370									396	T.B.46	...	...	...	...	...	4	C.5
371	T.B.21	...	...	...	...	...	5	E.4	397	T.B.47	...	...	...	...	...	4	E.2
372	T.B.22	...	...	...	...	...	5	F.1	398	T.B.48	...	...	...	...	...	4	E.2
373									399								
374	T.B.24	...	...	...	...	...	5	F.2	400								
375	T.B.25	...	...	...	...	...	5	E.4	401								
376	T.B.26	...	...	...	...	...	5	E.4	402								
377	T.B.27	...	...	...	...	...	5	F.3	403	T.B.53	...	...	...	...	...	4	F.6
378	T.B.28	...	...	...	...	...	5	D.3	404	T.B.54	...	...	...	...	...	4	F.6
379	T.B.29	...	...	...	...	...	5	E.3	405	T.B.55	...	...	...	...	...	4	C.7
380									406	T.B.56	...	...	...	...	...	4	E.3
381									407	T.B.57	...	...	...	...	...	4	E.1
382	T.B.32	...	...	...	...	...	5	F.8	408	T.B.58	...	...	...	...	...	4	E.7
383	T.B.33	...	...	...	...	...	5	E.6	409								
384	T.B.34	...	...	...	...	...	5	D.7	410	T.B.60	...	...	...	...	...	2	C.9
385	T.B.35	...	...	...	...	...	5	E.6	411								
386									412								
387									413								
388									414								
389									415								
390									416								
391	T.B.41	...	...	...	...	...	4	E.1	417								
392	T.B.42	...	...	...	...	...	4	D.6	418								
393	T.B.43	...	...	...	...	...	4	D.6	419								

TABLE 1 - continued

ITEM	EQUIPMENT						FIG.	GRID REF.	ITEM	EQUIPMENT						FIG.	GRID REF.	
420									443									
421									444									
422									445	T.B.95	...	...	...	...	...	2	A.8	
423	T.B.73	...	...	...	...	...	4	B.7	446									
424									447	T.B.97	...	...	...	...	...	4	D.5	
425									448	T.B.98	...	...	...	...	...	4	E.8	
426									449									
427									450	T.B.100	...	...	...	...	...	2	B.6	
428									451									
429	T.B.79	...	...	...	...	...	4	D.7	452									
430	T.B.80	...	...	...	...	...	2	B.6	453									
431									454									
432	T.B.82	...	...	...	...	...	2	B.8	455									
433	T.B.83	...	...	...	...	...	3	B.3	456	T.B.106	...	...	...	...	...	2	B.7	
434	T.B.84	...	...	...	...	...	3	D.7	457	T.B.107	...	...	...	...	...	2	B.7	
435									458									
436									459									
437	T.B.87	...	...	...	...	...	4	D.6	460									
438									ARRESTING HOOK CONTROL									
439									461	Selector switches	...	...	...	...	...	1	B.3 & B.5	
440									462	Hook warning lamp	...	...	...	...	...	1	B.5	
441									463	Hook micro switch	...	...	...	...	...	4	F.5	
442									464	Hook release unit	...	...	...	...	...	4	F.7	
									465	Hook release test plug	...	...	...	...	...	4	E.3	

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