

Group A.3

LOCATION OF EQUIPMENT

LIST OF CONTENTS

◀ (All relevant Mods included up to Mod.1381) ▶

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

LIST OF ILLUSTRATIONS

	Fig.		Fig.
Equipment location		Access panels	6
Cabin	1	Cable assembly layout	
Front fuselage	2	Front fuselage (1)	7
Centre fuselage	3	Front fuselage (2)	8
Rear fuselage	4	Centre and rear fuselage... ..	9
Main planes	5	Wings and pylons	10

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 showing the location of

the equipment by means of the item number and grid reference. Illustrations giving the layout of the cable assemblies, for use in conjunction with the routeing 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

RESTRICTED

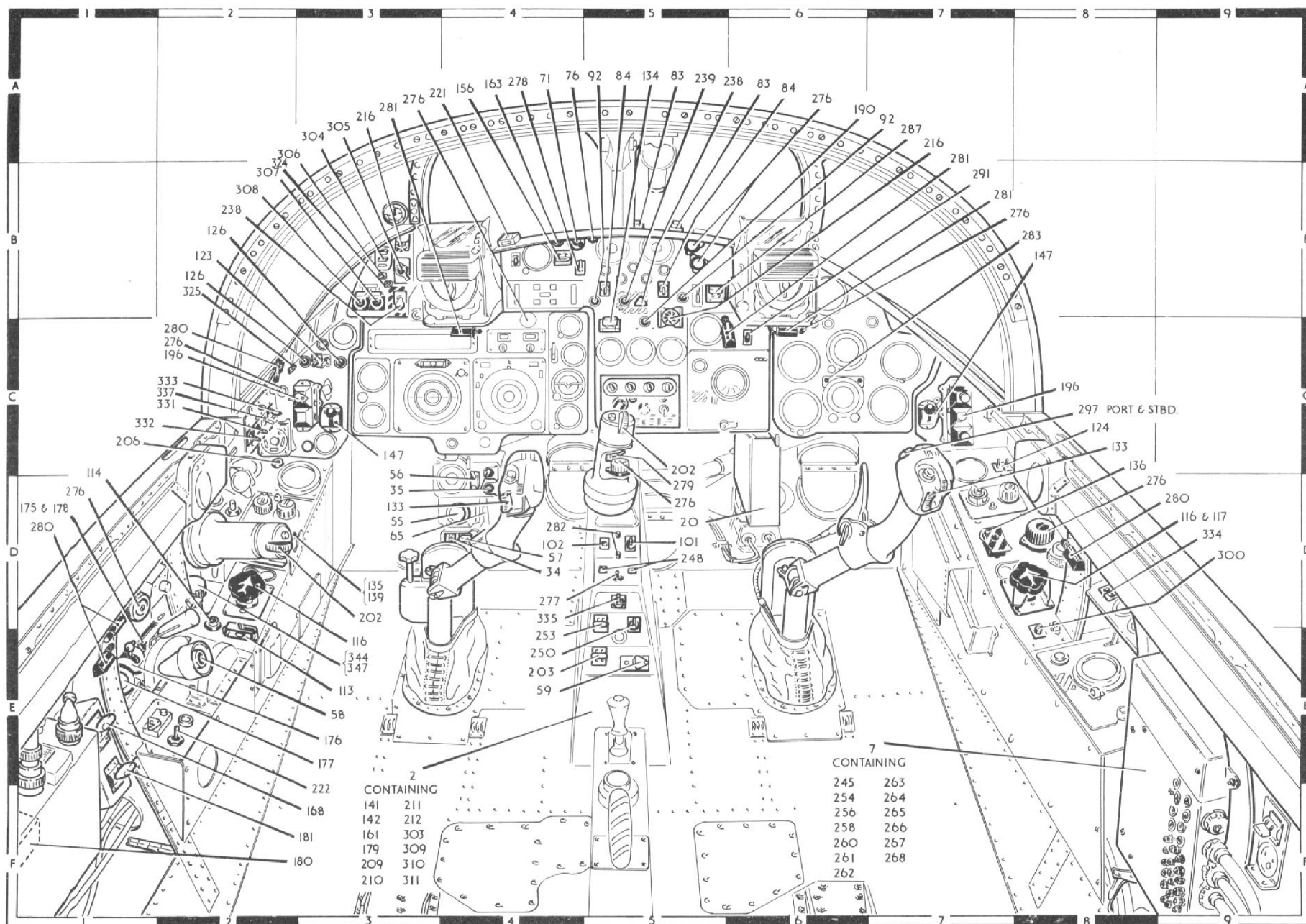


Fig. 1 Equipment location — cabin
 ◀ (Minor amendment) ▶

RESTRICTED

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 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				11	Arm J.B.4	5	F.2
1	Main Trunking	2	C.6	12	Arm J.B.5	5	E.7
2	Centre Console	1	D.5	13	Arm J.B.6	5	F.8
		2	C.6	14	Arm J.B.7	2	C.9
3	Main Fuse Box	2	B.7	15	Arm J.B.8	2	C.9
4	Leg Panel	2	B.5	16	Supply Panel	2	B.9
5	J.B.1	3	D.3	17	Generator Control Panel	2	B.9
6	J.B.2	2	B.5	18			
7	A.C.J.B.1	1	F.9	19			
		2	B.7	20	Secondary Fuse Box	1	D.6
8	A.C.J.B.2	2	C.3	21			
9	Arm J.B.1	3	C.1	22	Tank pump test panel	2	B.7
10	Arm J.B.3	5	E.3	23	A.C. supplies No.1 and No.2 Group panels	2	B.8

RESTRICTED

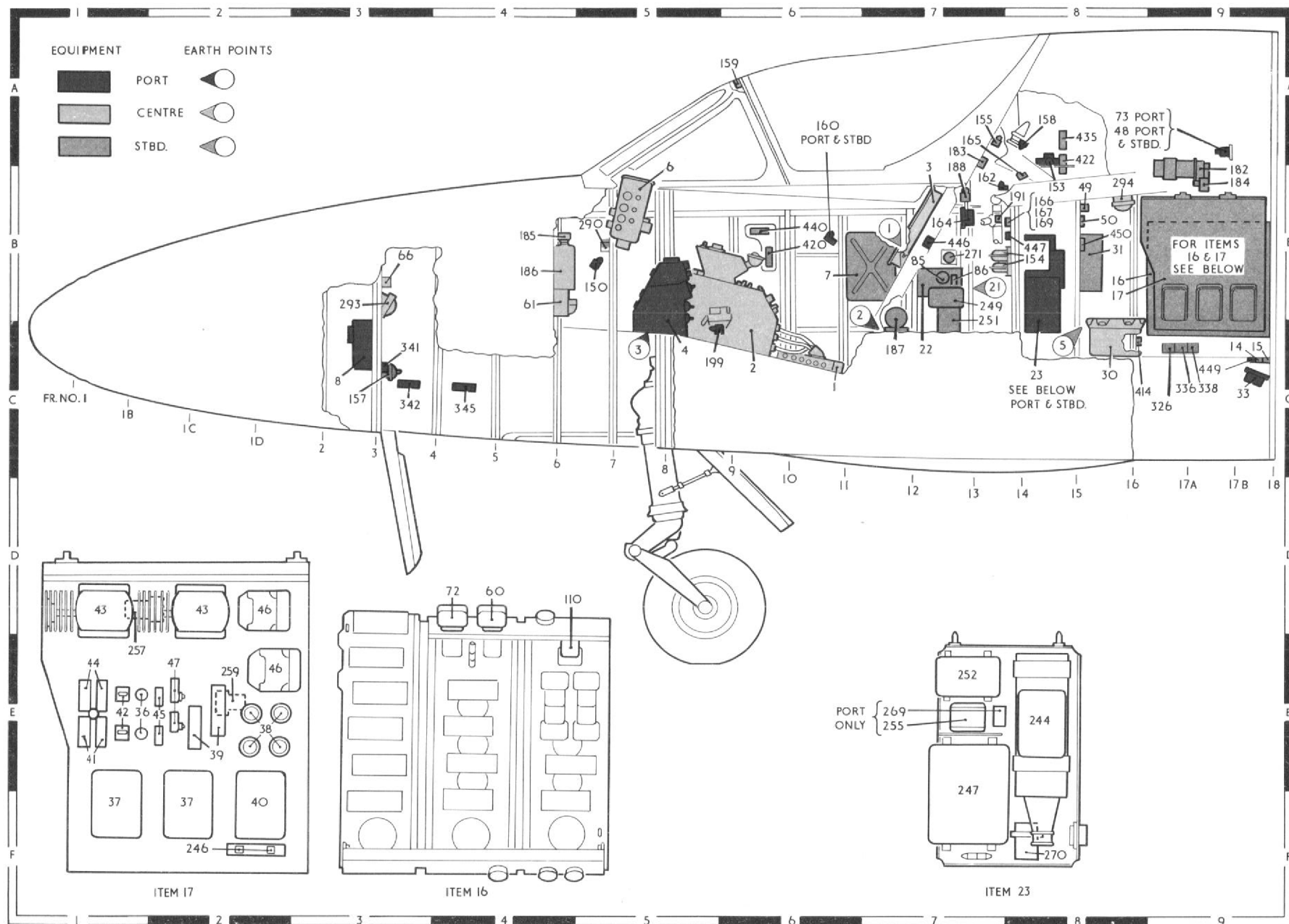


Fig. 2 Equipment location — front fuselage
(General amendment)

RESTRICTED

T.P. (E) 22882

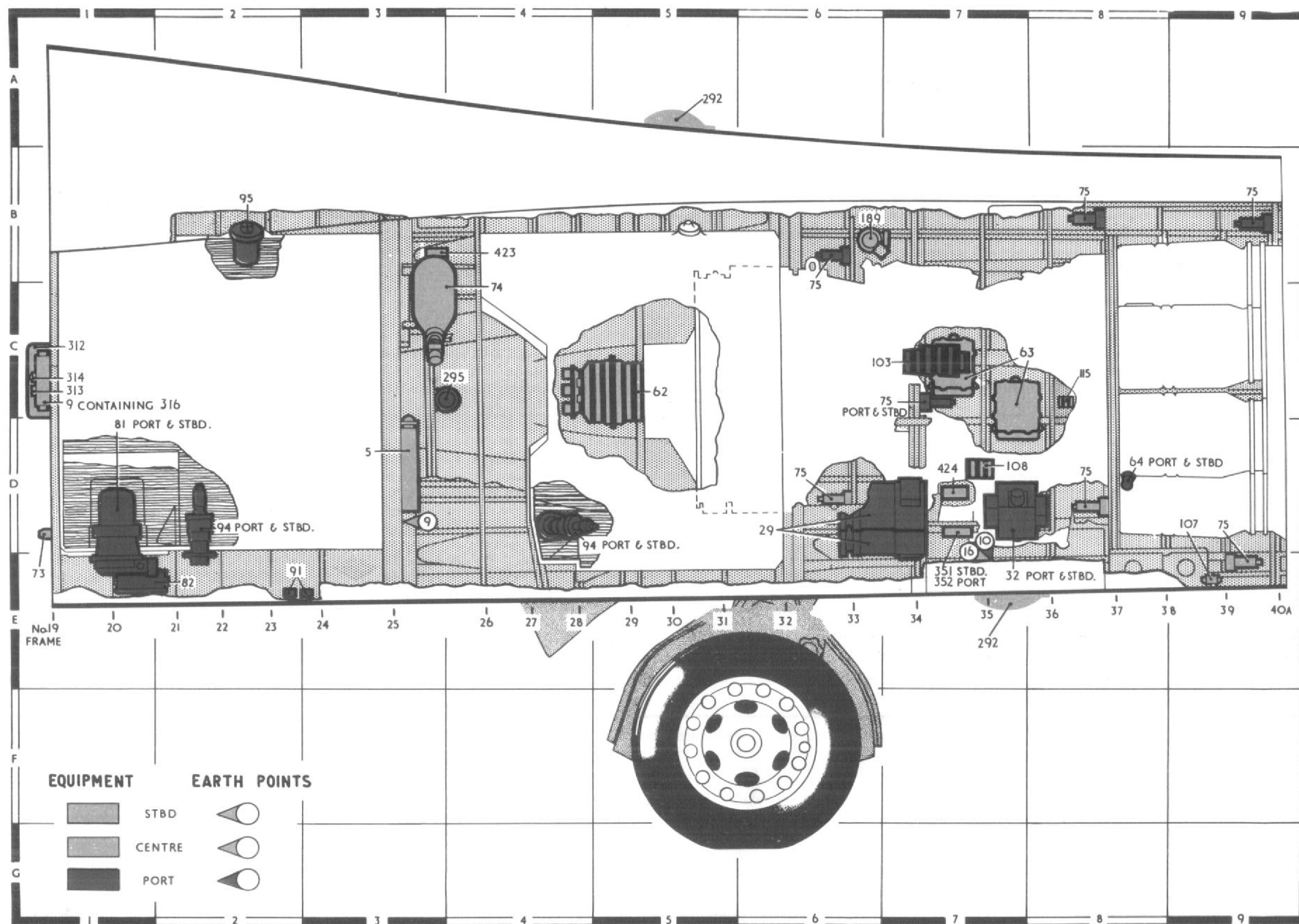


TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
24				48	Inertia Switches	2	A.9
25				49	Main Feeder Circuit Breakers	2	B.8
26				50	Battery test socket	2	B.8
27				51			
28				52			
				53			
				54			
GENERATORS & BATTERIES				ENGINE STARTING			
29	Generators	3	D.6	55	Engine Starting Switch	1	D.4
30	Main Batteries	2	C.8	56	Ignition Isolating Switch	1	D.4
31	Standby Batteries	2	B.8	57	Engine Master Switch	1	D.4
32	Suppressors	3	D.7	58	Engine Relight Switch	1	E.2
33	External Supply Plug	2	C.9	59	Starter Circuit Breaker	1	E.5
34	Battery Master Switch	1	D.4	60	Ignition Relay Y	2	On item 16
35	Power Failure Warning Lamps	1	C.4	61	Time Switch	2	B.4
36	Power Failure Indicators	2	On item 17	62	Turbo Starter	3	C.4
37	Main Circuit Breakers	2	On item 17	63	High Energy Ignition Units	3	C.7
38	Test Sockets	2	On item 17	64	Igniter Plugs	3	D.8
39	Ammeter Shunts	2	On item 17	65	Limiting Resistor	1	D.4
40	Battery Relay	2	On item 17	66	Top temp. time switch	2	B.3
41	Hold-off Relays	2	On item 17	67			
42	Reset Switches	2	On item 17	68			
43	Voltage Regulators	2	On item 17	69			
44	Crash Relays	2	On item 17	70			
45	Field Circuit Breakers	2	On item 17				
46	Differential Cut-outs	2	On item 17				
47	Remote Voltage Trimmers	2	On item 17				

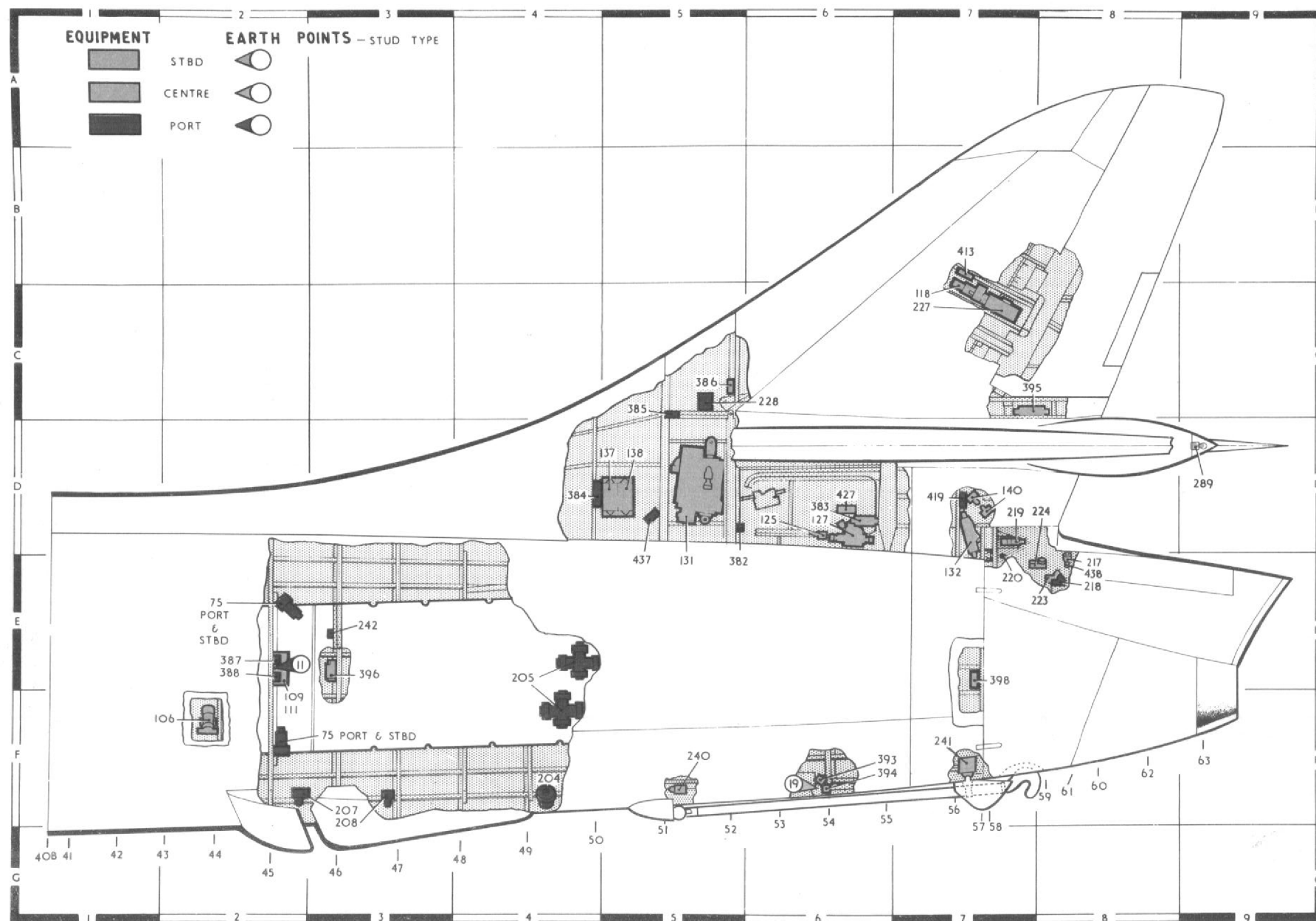


Fig. 4 Equipment location - rear fuselage



T.P. (E) 22886

TABLE 1 - continued

ITEM	EQUIPMENT	FIG.	GRID REF.	ITEM	EQUIPMENT	FIG.	GRID REF.
FIRE WARNING AND EXTINGUISHER				89			
71	Test switch. Switch and warning lamp ...	1	B.5	90			
72	Relay X	2	On item 11	TANK PUMP FAILURE WARNING			
73	Inertia switch	2	B.9	91	Pressure switches	3	E.2
		3	D.1	92	Warning lamps	1	B.5 & B.6
74	Extinguisher bottle	3	C.3	PRESSURE REFUELLING			
75	Control unit	2	A.8	93	Time switch	5	D.4
76				94	Solenoid valves	3	D.2 & D.4
77				95	Fluid level switches	3	B.2
78						5	C.4, C.6, D.3, & D.7
79				◀ 96	Normal/isolate switch	5	D.4 ▶
80				97			
				98			
				99			
				100			
TANK PUMPS				ENGINE ANTI-ICING			
81	Pumps	3	D.1	101	Switch	1	D.5
82	Suppressor	3	E.1	102	Magnetic indicator	1	D.5
83	Circuit breakers	1	B.6	103	Gate valve actuator	3	C.7
84	Control switches	1	B.5 & B.6	104			
85	Ammeter test socket	2	B.7	105			
86	Test switch	2	B.7	FUEL FILTER DE-ICING			
87				106	Pump	4	F.2
88				107	Solenoid valve	3	E.9

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
108	Pressure Switch	3	D.7	128	Aileron Control Solenoid Valve	5	D.6
109	Test Switch	4	E.2	129			
110	Relay S.1	2	On item 16	130			
111	Tank Contents Solenoid	4	E.2	TAIL PLANE CONTROL			
112				131	Tailplane Actuator	4	D.5
EMERGENCY FUEL PUMP				132	Datum Actuator	4	D.7
113	Fuel Pump Isolating Switch... ..	1	E.2	133	Normal Control Switches	1	D.4 & D.7
114	Warning Lamp... ..	1	D.2	134	Selector Switch	1	C.5
115	Fuel Pump Isolating Solenoid	3	C.8	135	Standby Control Switch... ..	1	D.2
RUDDER & AILERON TRIM CONTROL				136	Instructor's Override Switch	1	D.7
116	Trim Switches	1	D.2 & D.8	137	Main Contactor	4	D.5
117	Override Microswitch	1	D.8	138	Standby Contactor	4	D.5
118	Rudder Tab Actuator	4	C.7	139	Circuit Breaker	1	D.2
119	Aileron Tab Actuator	5	F.2	140	Flying Tail Microswitches	4	D.7
120				141	Relay J.	1	In item 2
121				142	Relay H.	1	In item 2
122				143			
ELEVATOR & AILERON POWER CONTROLS				144			
123	Control Switches	1	C.3	145			
124	Instructor's Override Switches	1	C.7	146			
125	Pressure Switches... ..	4	D.6	FLAP CONTROL			
		5	D.7	147	Selector Switches	1	C.3 & C.7
126	Magnetic Indicators	1	C.3	148	Drum Follow-up Switch... ..	5	E.4
127	Elevator Control Solenoid Valve... ..	4	D.6	149	Solenoid Control Valve... ..	5	D.4

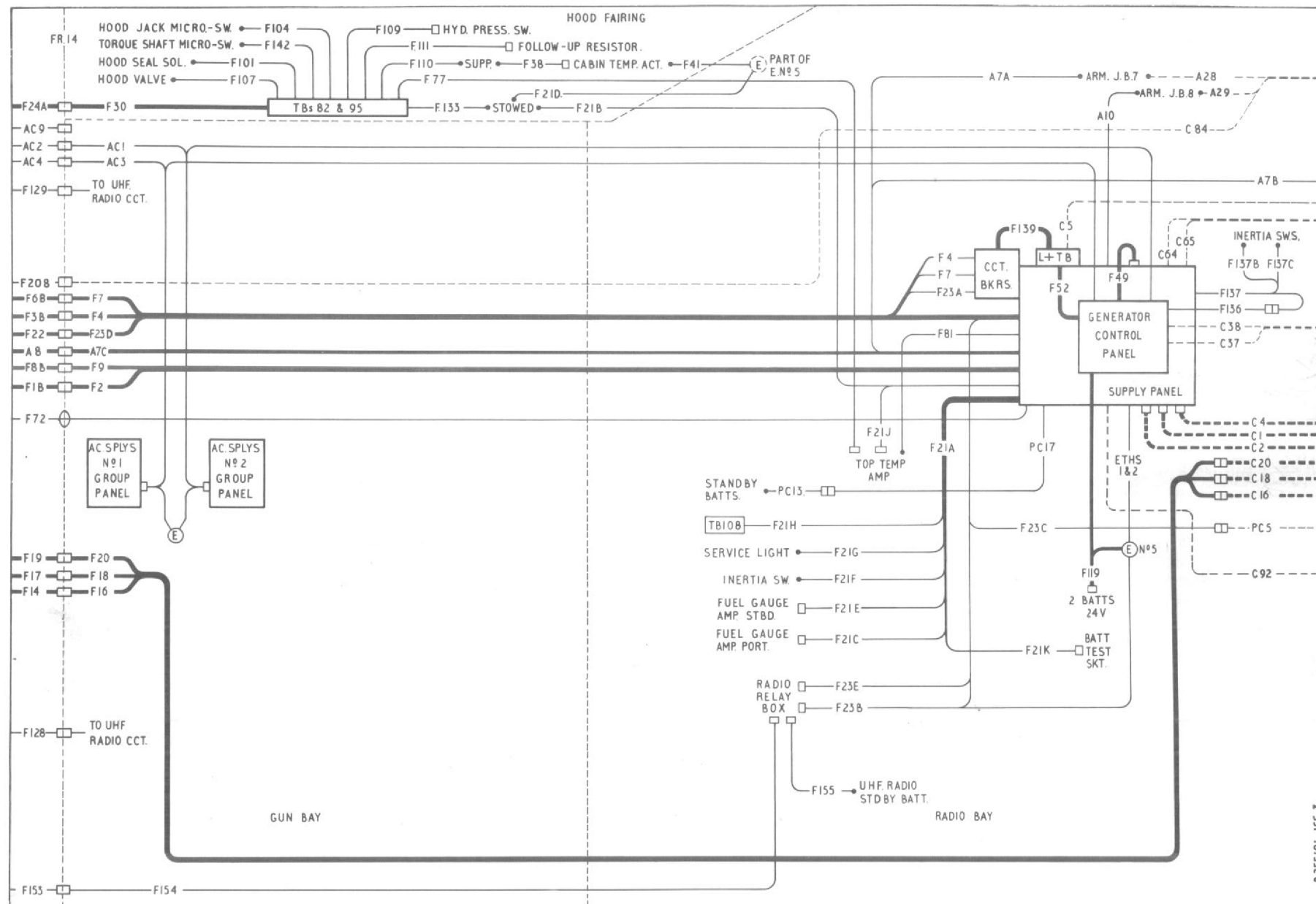


Fig. 8 Cable assembly Layout — front fuselage (2)

◀ General amendment ▶

RESTRICTED

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
150	Microswitch	2	B.5	173			
151				174			
152				CABIN PRESSURIZATION & TEMPERATURE CONTROL			
HOOD CONTROL				175	Pressurization Control Switches... ..	1	E.1
153	Solenoid Control Valve... ..	2	A.8	176	Temperature Control Switches	1	E.1
154	Relay Unit	2	B.7	177	Temperature Selector	1	E.1
155	Hood Seal Solenoid	2	A.7	178	Flood Switch	1	E.1
156	Internal Control Switch... ..	1	B.4	179	Relay K.	1	In item 2
157	External Control Switch	2	C.3	180	Altitude Switch	1	F.1
158	Hood Locking Jack Microswitch	2	A.8	181	Pressure Warning Test Switch	1	E.1
159	Windscreen Arch Microswitch	2	A.6	182	Temperature Control Valve Actuator ...	2	B.9
160	Side Lock Microswitches	2	B.6	183	Suppressor	2	B.7
161	Relay L.	1	In item 2	184	Follow-up Resistor	2	B.9
162	Hood Torque Shaft Microswitch	2	B.8	185	Cabin Elements	2	B.4
163	Warning Lamp... ..	1	B.4	186	Cabin Pressure Control Valve	2	B.4
164	Warning Horn	2	B.7	187	Magnetic Amplifier... ..	2	C.7
165	Hood Microswitch	2	B.8	188	Extractor Solenoid	2	B.7
166	Hood Closed Delay Unit	2	B.8	189	Air Supply Valve Actuator	3	B.6
167	Cut-out Relay... ..	2	B.8	190	Pressure Warning Lamp	1	B.5
168	Hood Override Switch	1	E.1	191	Ductstat	2	B.7
169	Hood Light Relay	2	B.8	192			
170				193			
171				194			
172				195			

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
ALIGHTING GEAR CONTROL				218	Door Microswitch	4	E.8
196	Control Push Switches	1	C.3 & C.7	219	Jettison Release Unit	4	D.7
197	Solenoid Control Valve... ..	5	D.6	220	Cocking Test Plug... ..	4	E.7
198	Leg Compression Switches	5	B.8	221	Stream Indicator	1	B.4
199	Emergency Microswitch	2	C.5	222	Test Switch	1	E.1
200				223	Door Indicator Microswitch	4	E.8
201				224	Fillet Door Microswitch	4	E.8
AIR BRAKE CONTROL				225			
202	Control Switches	1	D.2 & C.5	226			
203	Test Switch	1	E.5	AUTOSTABILIZER (Items 229-235 Pre Mod.1376 only)			
204	Pressure Switch	4	F.4	227	Servomotor	4	C.7
205	Solenoid Control Valves	4	E.4	228	Compass & Autostabilizer Junction Box	4	C.5
206	Magnetic Indicator... ..	1	C.2	229	Slave Relay Unit	2	A.9
207	Forward Microswitch	4	F.2	230	Suppressor	2	A.9
208	Aft Microswitch	4	F.3	231	Gyro Unit	2	A.9
209	Relay P... ..	1	In item 1	232	Phase Advance unit	2	A.9
210	Relay Q... ..	1	In item 2	233	Amplifier unit... ..	2	A.9
211	Relay R... ..	1	In item 2	234	Monitor Unit	2	A.9
212	Relay S... ..	1	In item 2	235	Switch Assembly	1	C.6
213				236			
214				237			
215				ARRESTING HOOK CONTROL			
PARACHUTE BRAKE				238	Selector Switches	1	B.3 & B.5
216	Control Switches	1	B.3 & B.5	239	Hook Warning Lamp	1	B.5
217	Door Solenoid... ..	4	E.8	240	Hook Microswitch	4	F.5

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
241	Hook release unit	4	F.7	265	Relay H.	1	In item 7
242	Hook release test plug	4	E.3	266	Relay J.	1	In item 7
243				267	Relay K.	1	In item 7
A.C. SUPPLIES & CONTROL				268	Relay M.	1	In item 7
244	Inverters. (Type 103)	2	On item 23	269	Delay cut-out relay B.	2	On item 23
245	Power failure switches	1	In item 7	270	Inverter control relays A.	2	On item 23
246	Inverter test switches	2	On item 17	271	Test socket	2	B.7
247	Inverter control panels	2	On item 23	272			
248	Magnetic indicators	1	D.5	273			
249	Inverters. (Type 100A)	2	B.7	274			
250	Standby inverter switch	1	D.5	275			
251	Control panel (Type 12)	2	B.7	CABIN LIGHTING			
252	Inverter starter units	2	On item 23	276	Dimmer Switches	1	B.4, B.5, B.6, C.5, D.1 & D.8.
253	Inverter change-over switch	1	D.5	277	Centre console lamp switch	1	D.5
254	Ground test switch	1	In item 7	278	Emergency lamp switch	1	B.4
255	Relay delay unit	2	On item 23	279	Emergency compass lamp switch	1	C.5
256	Relay A	1	In item 7	280	Side lamps	1	C.2, D.8 & E.1
257	Relay A.2.	2	On item 17	281	Emergency lamps	1	C.4 & C.6
258	Relay B.	1	In item 7	282	Pillar lamps	1	D.5
259	Relay B.2	2	On item 17	283	Bridge lamps	1	C.6
260	Relay C.	1	In item 7	284			
261	Relay D.	1	In item 7	285			
262	Relay E.	1	In item 7	286			
263	Relay F.	1	In item 7	NAVIGATION LAMPS			
264	Relay G.	1	In item 7	287	Control switch	1	B.5

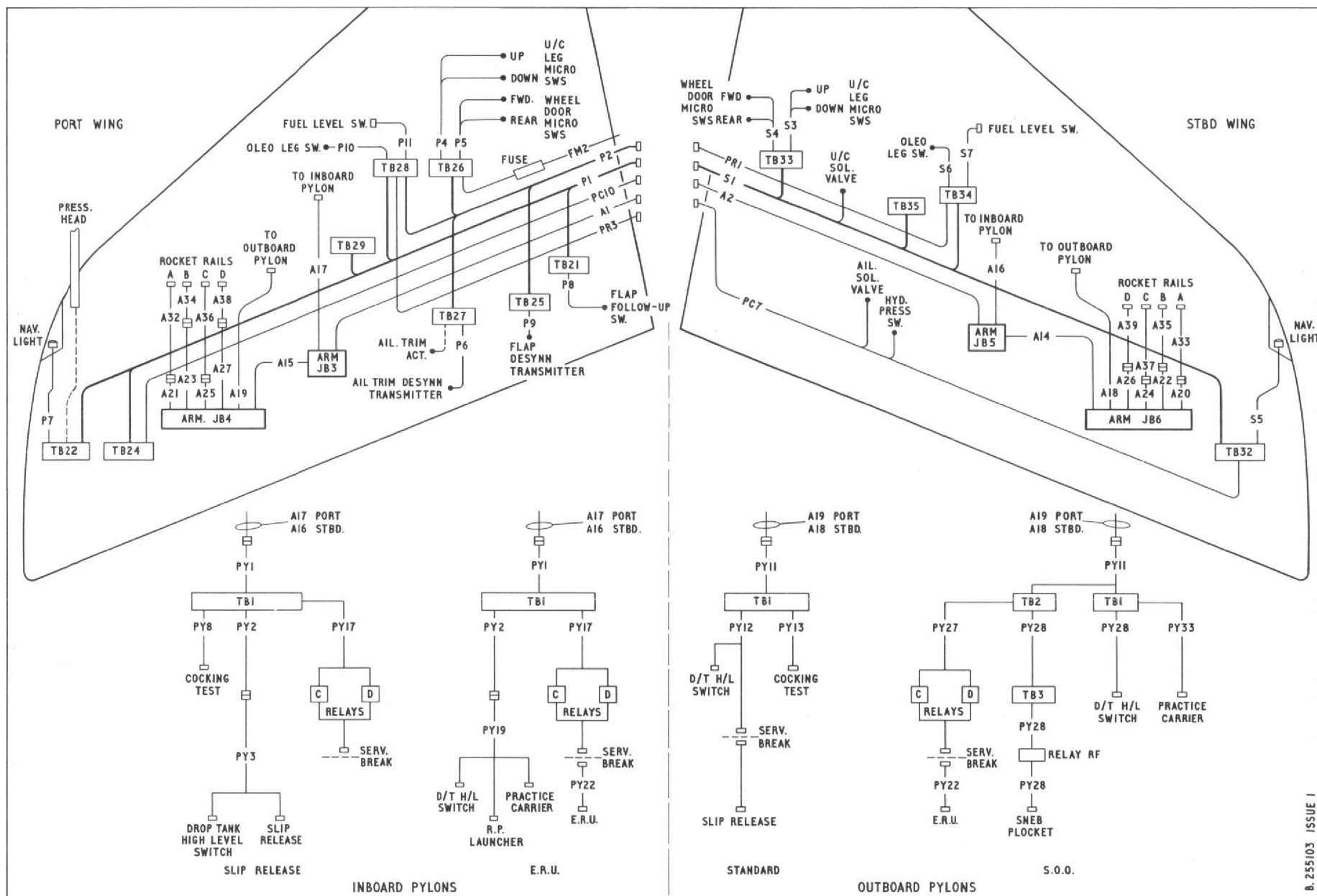


Fig. 10

Cable assembly layout - wings and pylons

◀ (General amendment) ▶

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
288	Wing-Tip Lamps	5	E.1 & E.9	310	Jettison Relay	1	In item 2
289	Tail Lamp	4	D.9	311	R.P. Assessment Relay	1	In item 2
◀ 290	Flasher Unit	2	B.5	312	R.P. Firing Distribution Box	3	C.1
291	Anti-collision lamps switch	1	C.6	313	Reset Switch	3	C.1
292	Anti-collision lamp	3	A.5 & E.8 ▶	314	Reset Indicator	3	C.1
SERVICE LAMPS				315	Cock Test Sockets (<i>Interim inboard and outboard pylons only</i>)	5	G.5
293	Nose Bay Lamp	2	B.3	316	Rippling Relay	3	In item 9
294	Radio Bay Lamp	2	B.8	317	Practice Bomb Socket	5	B.2
295	Starter Bay Lamp	3	C.3	318	Rocket Battery Pocket	5	B.2
296				319	Inboard Pylon T.B.1	5	B.3
ARMAMENT SERVICES				320	Fuel High Level Switch Pocket... ..	5	B.3
297	Firing Triggers	1	C.7	321	Ejector release unit	5	G.5 & B.2
298	Electro-magnetic release unit (<i>Interim inboard and outboard pylons only</i>)	5	B.2 & G.3	322	Outboard Pylon T.B.1... ..	5	G.5
299	Butt connectors (<i>Interim inboard pylons only</i>)	5	B.2	323	Safety pockets	5	B.3
300	Armament Ground Test Switch		D.8	◀ 324	Rockets selector	1	B.3
301	Relay C.... ..	5	B.3	325	Pylon selector switch (<i>post Mod.1220</i>)	1	C.2
302	Relay D.... ..	5	B.3	326	Bomb/R.P. circuit breaker	2	C.9
303	Relay E.... ..	1	In item 2	327	Relay RF	5	G.6
◀ 304	Bomb/R.P. Selector Switch	1	B.3 ▶	328	T.B.3	5	G.6
305	R.P. Selector Switch	1	B.3	329	T.B.2	5	G.7 ▶
306	Fuzing Selector	1	B.3	330			
307	Inner Pylon Stores Jettison Switch	1	B.3	RADIO SUPPLIES			
308	Outer Pylon Stores Jettison Switch	1	B.3	331	Normal Battery Switch	1	C.2
309	Bomb/R.P. Firing Relay	1	In item 2	◀ 332	Set selector switch	1	C.2 ▶

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
333	Emergency Press-to-Transmit Switch...	1	C.2	357			
334	Intercom. Switches	1	D.8	358			
335	Muting Switch... ..	1	D.5	359			
◀ 336	Radio supplies circuit breaker	2	C.9 ▶	360			
337	Channel Change-over Switch	1	C.2	361	T.B.21	5	E.4
◀ 338	A.R.C.52 circuit breaker	2	C.9 ▶	362	T.B.22	5	F.1
339				363			
340				364	T.B.24	5	F.2
TERMINAL BLOCKS				365	T.B.25	5	E.4
341	T.B.1	2	C.3	366	T.B.26	5	E.4
342	T.B.2	2	C.3	367	T.B.27	5	F.3
343				368	T.B.28	5	D.3
344	T.B.4	1	D.2	369	T.B.29	5	E.3
345	T.B.5	2	C.4	370			
346				371			
347	T.B.7	1	D.2	372	T.B.32	5	F.8
348				373	T.B.33	5	E.6
349				374	T.B.34	5	D.7
350				375	T.B.35	5	E.6
351	T.B.11	3	D.7	376			
352	T.B.12	3	D.7	377			
353				378			
354				379			
355				380			
356				◀ 381	T.B.41	4	C.9 ▶

TABLE 1 (Continued)

Item	Equipment	Fig.	Grid Ref.	Item	Equipment	Fig.	Grid Ref.
382	T.B.42	4	D.6	406			
383	T.B.43	4	D.5	407			
384	T.B.44	4	D.5	408			
385	T.B.45	4	C.5	409			
386	T.B.46	4	C.5	410			
387	T.B.47	4	E.2	411			
388	T.B.48	4	E.2	412			
389				413	T.B.73	4	C.7
390				414	T.B.74	2	C.8
391				415			
392				416			
393	T.B.53	4	F.6	417			
394	T.B.54	4	F.6	418			
395	T.B.55	4	C.7	419	T.B.79	4	D.7
396	T.B.56	4	E.3	420	T.B.80	2	B.6
397	T.B.57	3	C.9	421			
398	T.B.58	4	E.7	422	T.B.82	2	A.8
399				423	T.B.83	3	B.3
400				424	T.B.84	3	D.7
401				425			
402				426			
403				427	T.B.87	4	D.6
404				428			
405				429			

TABLE 1 (Continued)

Item	Equipment							Fig.	Grid Ref.
◀ 430	T.B.90	...	...	...	...	...	...	5	E.4 ▶
431									
432									
433									
434									
435	T.B.95	...	...	...	...	...	...	2	A.8
436									
437	T.B.97	...	...	...	...	...	...	4	D.5
438	T.B.98	...	...	...	...	...	...	4	E.8
429									
440	T.B.100	...	...	...	...	...	...	2	B.6
441									
442									
443									
444									
445									
446	T.B.106	...	...	...	...	...	...	2	B.7
447	T.B.107	...	...	...	...	...	...	2	B.8
◀ 448	T.B.108	...	...	...	...	...	...	2	C.9 ▶
449	T.B.109	...	...	...	...	...	...	2	C.9
450	T.B.116	...	...	...	...	...	...	2	B.8

This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

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

