

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 all the equipment and the panels used to gain

access to the components. This index also forms the key to the illustrations showing the location of the equipment. A layout of the cable assemblies, for use in conjunction with the routing diagrams, is 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 and access panels are shown are also indicated in the index.

TABLE 1

MASTER INDEX OF ELECTRICAL EQUIPMENT

Item number	Equipment	Figure number for		Item number	Equipment	Figure number for	
		Location	Access			Location	Access
MAJOR COMPONENTS				17	ARM J.B.6	6	8
1	J.B.1	4	8	18			
2	J.B.2	2	-	19			
3	J.B.3	4	8	20			
4	J.B.4	2	-	21			
5	A.C. J.B.	2	-	22			
6	Supply panel	3	8	23			
7	Generator control panel . .	3	8	24			
8	Leg panel	2	-	25			
9	Gun-firing panel	3	8	GENERATORS AND BATTERIES			
10	Cabin port shelf	2	-	26	Generators	4	8
11	Cabin starboard shelf . . .	2	-	27	Batteries	3	8
12	ARM J.B.1	3	8	28	External supply plug	3	8
13	ARM J.B.2	2	-	29	Battery master switch	2	-
14	ARM J.B.3	6	8	30	Power failure warning lamps	2	-
15	ARM J.B.4	6	8	31	Power failure indicators . . .	3	8
16	ARM J.B.5	6	8	32	Main circuit breakers	3	8

Item number	Equipment	Figure number for	
		Location	Access
33	Test sockets	3	8
34	Ammeter shunts	3	8
35	Battery relay	3	8
36	Hold-off relays	3	8
37	Regulator relays	3	8
38	Reset switches	3	8
39	Voltage regulators	3	8
40	Crash relays	3	8
41	Field circuit breakers	3	8
42	Differential cut-outs	3	8
43	Remote voltage trimmers	3	8
44			
45			
46			
47			
48			
49			
50			
51			
ENGINE STARTING AND CONTROL			
52	Starter push-switch	2	-
53	Ignition isolating switch	2	-
54	Master switch	2	-
55	Re-light switch	2	-
56	Starter circuit breaker	2	-

Item number	Equipment	Figure number for	
		Location	Access
57	Ignition unit	4	8
58	Ignition relay	3	8
59	Starter control unit	4	8
60	B.4 circuit breaker	3	8
61	Liquid fuel starter	4	8
62	Fuel pump motor	4	8
63	High-energy igniter units	4	8
64	Igniter plugs	4	8
65	High pressure switch	4	8
66	Solenoid valve	4	8
67	Ignition switch	4	8
68			
69			
70			
71			
72			
73			
74			
FIRE WARNING AND EXTINGUISHER			
75	Switch and warning lamp	2	-
76	Relay X	3	8
77	Inertia switches	3	8
78	Extinguisher bottles	4	8
79	Flame switches	4 and 5	8
80	Test switch	2	-

Item number	Equipment	Figure number for	
		Location	Access
81			
82			
83			
TANK PUMPS			
84	Pumps	4	8
85	Fuel pressure switches ...	4	8
86	Circuit breakers	2	-
87	Control switches	2	-
88	Ammeter test socket	2	-
89	Test switch	2	-
90	Pump indicators	2	-
91	Relay H.1	3	8
92	Relay G.1	3	8
93			
94			
95			
96			
PRESSURE REFUELLING			
97	Time switch	6	8
98	Solenoid valves	4	8
99	Fluid level switches	4 and 6	7 and 8
100	Indicator	6	8
101			
102			
ENGINE ANTI-ICING			
103	Switch	2	-

Item number	Equipment	Figure number for	
		Location	Access
104	Magnetic indicator	2	-
105	Gate valve actuator	4	7
106			
107			
FUEL FILTER DE-ICING			
108	Pump	4	8
109	Solenoid valve	4	8
110	Engine switch	4	8
111	Test switch	4	8
112	Relay S.1	3	8
113			
114			
115			
RUDDER AND AILERON TRIM CONTROLS AND INDICATORS			
116	Trim switch	2	-
117	Indicators	2	-
118	Rudder tab actuator	5	7
119	Aileron tab actuator	6	7
120	Rudder tab Desynn transmitter	5	7
121	Aileron tab Desynn transmitter	6	7
122			
123			
124			
ELEVATOR AND AILERON POWER CONTROLS			
125	Control switches	2	-

Item number	Equipment	Figure number for	
		Location	Access
126	Magnetic indicators	2	-
127	Elevator solenoid valve ..	5	8
128	Aileron solenoid valve ...	6	8
129	Elevator indicator micro switch .	5	8
130	Aileron indicator micro switches ..	6	7
131			
132			
133			
HYDRAULIC PRESSURE INDICATOR			
134	Pressure switch	3	8
135	Indicator lamp	2	-
136			
137			
TAIL PLANE CONTROL			
138	Actuator	5	7
139	Normal control switch ...	2	-
140	Standby control switch ...	2	-
141	Interference switch	2	-
142	Main contactor	5	8
143	Stand-by contactor	5	8
144	Circuit breaker	2	-
145			
146			

Item number	Equipment	Figure number for	
		Location	Access
147			
TAIL PLANE POSITION INDICATOR			
148	Desynn transmitter	5	7
149	Indicator	2	-
150			
151			
FLAP CONTROL			
152	Selector switch	2	-
153	Drum follow-up switch	6	8
154	Solenoid valve	6	8
155			
156			
FLAP POSITION INDICATOR			
157	Desynn transmitter	6	8
158	Indicator	2	-
159			
160			
HOOD CONTROL			
161	Motor	2	-
162	Relay unit	2	-
163	Hood seal valve	3	7
164	Control switch	2	-
165	Close limit switch	2	-
166	Circuit breaker	2	-
167	External control switch ...	3	7

Item number	Equipment	Figure number for	
		Location	Access
168	Selector plugs	2	-
169	Open limit switch	3	8
170			
171			
172			
173			
CABIN PRESSURIZATION AND TEMPERATURE CONTROL			
174	Pressurization control		
	switches ...	2	-
175	Temperature control switch	2	-
176	Temperature selector	2	-
177	Flood switch	2	-
178	Hood interlock relay	2	-
179	Flood control relay	2	-
180	Audo warning relay	2	-
181	Altitude switch	2	-
182	Pressure warning test switch	2	-
183	Temperature control valve		
	actuator.	3	7
184	Suppressor	3	7
185	Follow-up resistor	3	7
186	Cabin element	2	-
187	Cabin pressure control valve	2	-
188	Magnetic amplifier	2	-
189	Extractor solenoid	2	-

Item number	Equipment	Figure number for	
		Location	Access
190	Air supply valve actuator .	4	7
191	Pressure warning lamp	2	-
192	Audio warning cut-out switch	2	-
193			
194			
195			
196			
197			
198			
199			
200			
ALIGHTING GEAR CONTROL			
201	Control push-switches	2	-
202	Solenoid valve	6	8
203			
204			
ALIGHTING GEAR INDICATOR			
205	Indicator	2	-
206	Warning lamp	2	-
207	Throttle micro switch	2	-
208	Leg and door micro switches	3 and 6	8
209			
210			
WINDSCREEN DE-ICING PUMP			
211	Control switch	2	-

Item number	Equipment	Figure number for	
		Location	Access
212	Pump	3	8
213			
214			
A.C. SUPPLIES			
215	Inverters	2	-
216	Torque switches	2	-
217	Suppressors	2	-
218	Auto-transformer	2	-
219	Stand-by test switch	2	-
220	Normal supply failed indicator	2	-
221	Normal circuit breaker	2	-
222	Stand-by circuit breaker	2	-
223	Relay A	2	-
224	Relay B	2	-
225	Relay C	2	-
226	Relay D	2	-
227	Relay E	2	-
228	Relay F	2	-
229			
230			
231			
232			
233			
234			

Item number	Equipment	Figure number for	
		Location	Access
CABIN LIGHTING			
235	Dimmer switches	2	-
236	U/V lamps	2	-
237	Red lamps	2	-
238	Stand-by lamps	2	-
239	Stand-by battery	2	-
240	Stand-by lamp switch	2	-
241			
242			
243			
NAVIGATION LAMPS			
244	Control switch	2	-
245	Wing-tip lamps	6	7
246	Tail lamp	5	7
247			
248			
PRESSURE HEAD HEATER			
249	Control switch	2	-
250	Heater element	6	-
251			
252			
SERVICE LAMPS			
253	Nose bay lamp	3	8
254	Radio bay lamp	3	8
255	Starter bay lamp (not fitted)	4	8

Item number	Equipment	Figure number for	
		Location	Access
256			
257			
GUN FIRING			
258	Firing trigger	2	-
259	Alighting gear compression micro switches	6	8
260	Butt switch	2	-
261	Inverter	3	8
262	Safety relay	3	8
263	Firing relay	3	8
264	Circuit breaker	3	8
265	Box, electrics	3	8
266			
267			
268			
269			
GUN VENTILATION			
270	Ventilation relay	3	8
271	Actuator	3	8
272			
273			
GUN HEATING			
274	Thermostat	3	8
275	Hot air valve actuator ...	3	8
276			
277			

Item number	Equipment	Figure number for	
		Location	Access
G.45 CAMERA			
278	Camera	3	7
279	Gyro caging and camera relay	2	-
280	Master switch	2	-
281	Sunny/cloudy switch	2	-
282	Camera push-switch	2	-
283			
284			
285			
ARMAMENT SERVICES			
286	Bomb/R.P. switch	2	-
287	Fuzing selector	2	-
288	Jettison switch	2	-
289	Bomb/R.P. relay	2	-
290	Fuzing relay	2	-
291	Jettison relay	2	-
292	R.P. assessment relay	2	-
293	Circuit breaker	3	8
294	Re-set switch	3	8
295	Re-set indicator	3	8
296	Practice/normal switch ...	6	8
297	Nose fuzing unit	6	8
298	Tail fuzing unit	6	8
299	Cock test socket	6	8
300	Jettison solenoid	6	8
301	Release unit	6	8

Item number	Equipment	Figure number for	
		Location	Access
302	Type B series relay	6	8
303	Practice bomb socket	6	8
304	V.T. fuze socket	6	8
305	Pylon T.B.1	6	8
306	Pylon T.B.2	6	8
307			
308			
309			
310			
311			
312			
313			
314			
315			
316			
AIR BRAKE CONTROL			
317	Control switch	2	-
318	Undercarriage emergency micro switch	2	-
319	Air brake relay box	2	-
320	Pressure switch	5	-
321	Solenoid valves	5	-
322	Magnetic indicator	2	-
323	Forward micro switch	5	-
324	Aft micro switch	5	-

Item number	Equipment	Figure number for	
		Location	Access
325			
326			
327			
328			
RADIO SUPPLIES			
329	V.H.F. set selector switch	2	-
330	V.H.F. press to transmit switch ...	2	-
331	Radar ranging switch	2	-
332	Radar test switch	2	-
333	Radar supply indicator ...	2	-
334	Inverter, type 200	3	8
335	Radar ranging circuit breaker	3	8
336	D.M.E. circuit breaker ...	3	8
337	Tele-briefing push switch .	2	-
338	Tele-briefing lamp	2	-
339			
340			
341			
342			
343			
344			
345			
346			
347			

Item number	Equipment	Figure number for	
		Location	Access
348			
349			
350			
TERMINAL BLOCKS			
351	T.B.1	3	8
352	T.B.2	3	8
353	T.B.3	2	-
354	T.B.4	2	-
355	T.B.5	3	8
356	T.B.6	2	-
357	T.B.7	2	-
358			
359	T.B.9	2	-
360	T.B.10	2	-
361	T.B.11	4	8
362			
363			
364	T.B.14	4	8
365	T.B.15	4	8
366	T.B.16	4	8
367	T.B.17	4	8
368			
369			
370			
371	T.B.21	6	8
372	T.B.22	6	7

Item number	Equipment	Figure number for	
		Location	Access
373	T.B.23	6	8
374	T.B.24	6	8
375	T.B.25	6	8
376	T.B.26	6	8
377	T.B.27	6	8
378	T.B.28	6	8
379	T.B.29	6	8
380			
381			
382	T.B.32	6	8
383	T.B.33	6	8
384	T.B.34	6	8
385	T.B.35	6	8
386			
387			
388			
389			
390			
391	T.B.41	5	8
392	T.B.42	5	8
393	T.B.43	5	8
394	T.B.44	5	8
395	T.B.45	5	7
396	T.B.46	5	7
397	T.B.47	5	8
398	T.B.48	5	8

Item number	Equipment	Figure number for	
		Location	Access
399			
400			
401			
402			
403	T.B.53	5	8
404	T.B.54	5	8
405	T.B.55	5	7
406			
407	T.B.57	5	8
408	T.B.58	5	8
409	T.B.59	5	8
410	T.B.60	5	8

Item number	Equipment	Figure number for	
		Location	Access
411			
412			
413	T.B.63	3	8
414	T.B.64	3	8
415			
416			
417			
418			
419			
420			
421	T.B.71	4	8

Cable assembly layout (fig.1)

3. This illustrates diagrammatically the run of the cable assemblies between the various junction boxes, panels, shelves and the equipment. It also gives 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.

Location of electrical equipment

4. The location in the aircraft of all the electrical equipment is illustrated in fig.2 to 6

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 items of equipment.

Access to electrical equipment (fig.7 and 8)

5. 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 the illustrations. The illustrations should be used in conjunction with table 1 when it is required to obtain access to a particular component.

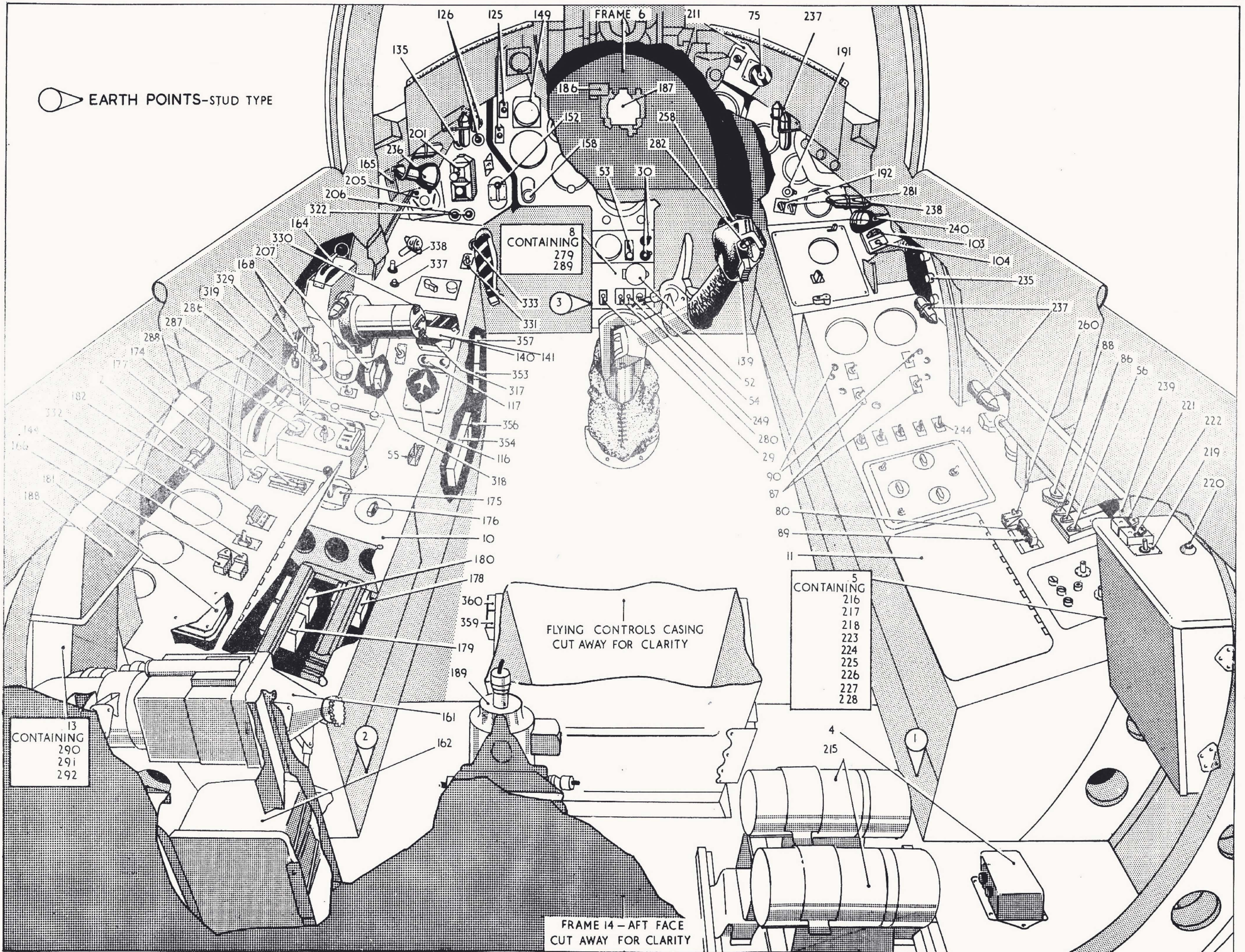


FIG. 2 LOCATION-COCKPIT
RESTRICTED

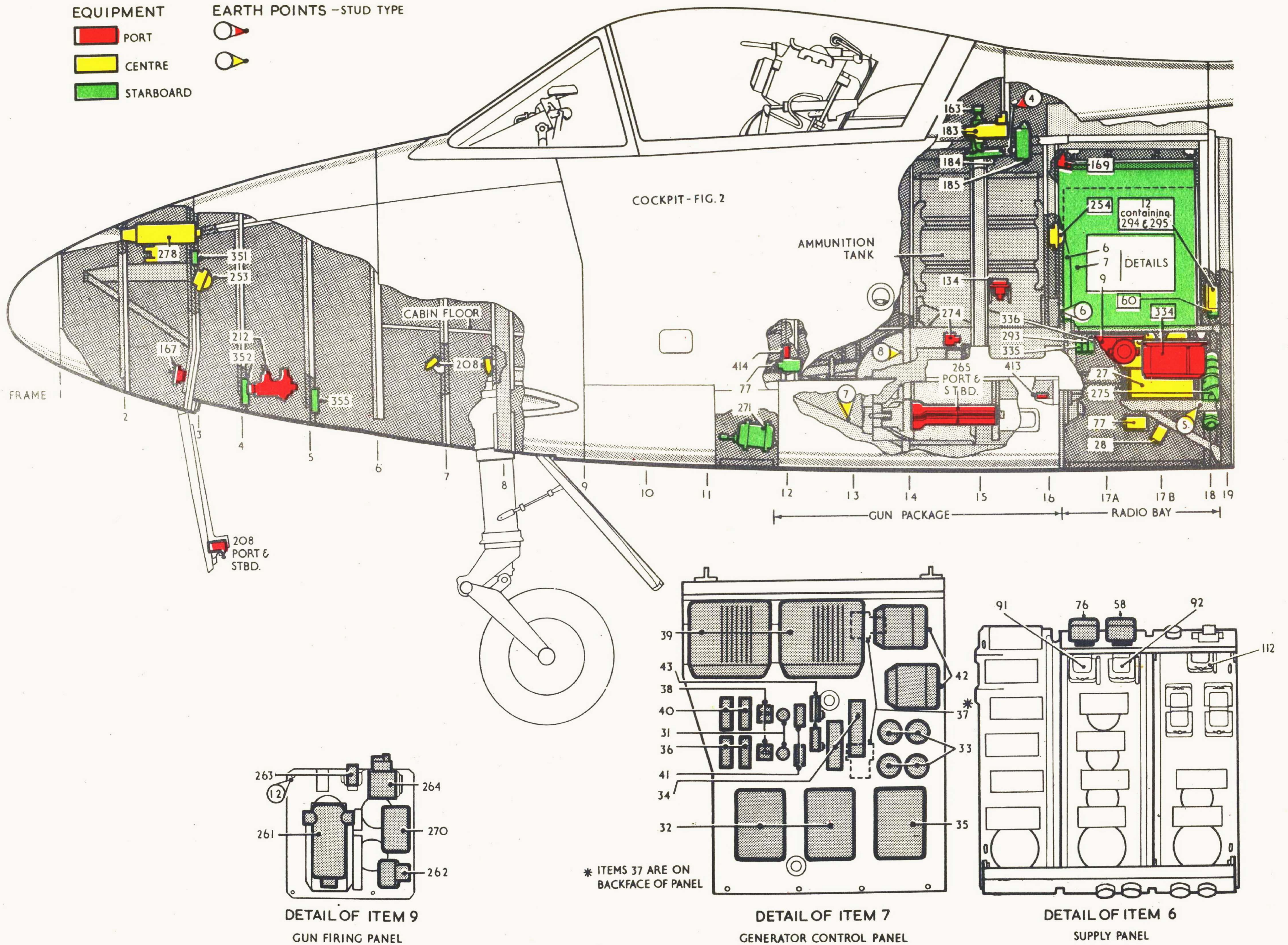
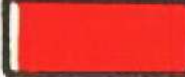




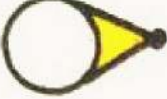





FIG. 3 LOCATION - FRONT FUSELAGE RESTRICTED

EQUIPMENT	EQUIPMENT ON ENGINE	EARTH POINTS-STUD TYPE
 PORT		
 CENTRE		
 STARBOARD		

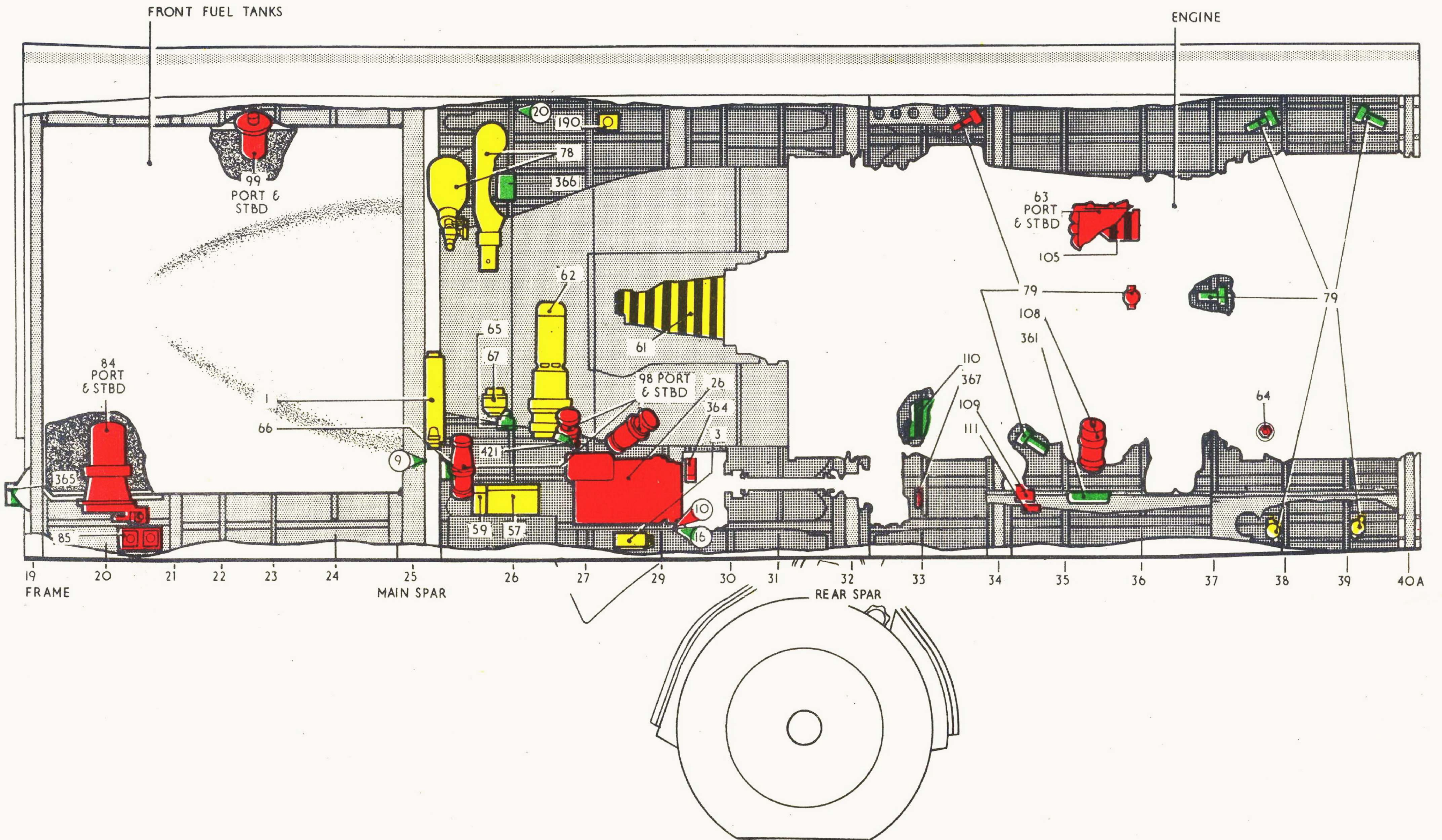






FIG. 4 LOCATION-CENTRE FUSELAGE

RESTRICTED

EQUIPMENT
 PORT
 CENTRE
 STARBOARD

EARTH POINTS—STUD TYPE


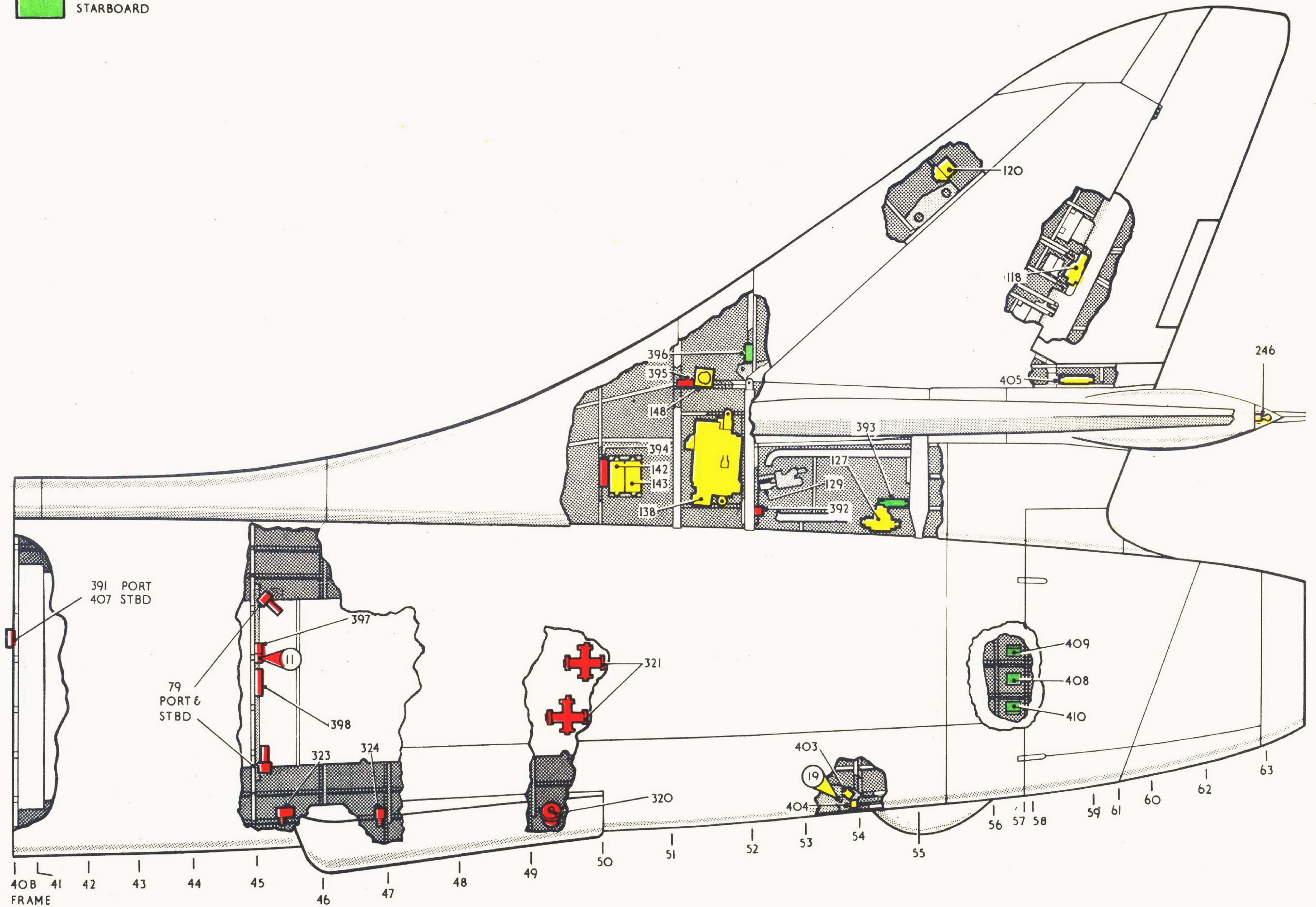



FIG. 5 LOCATION REAR FUSELAGE

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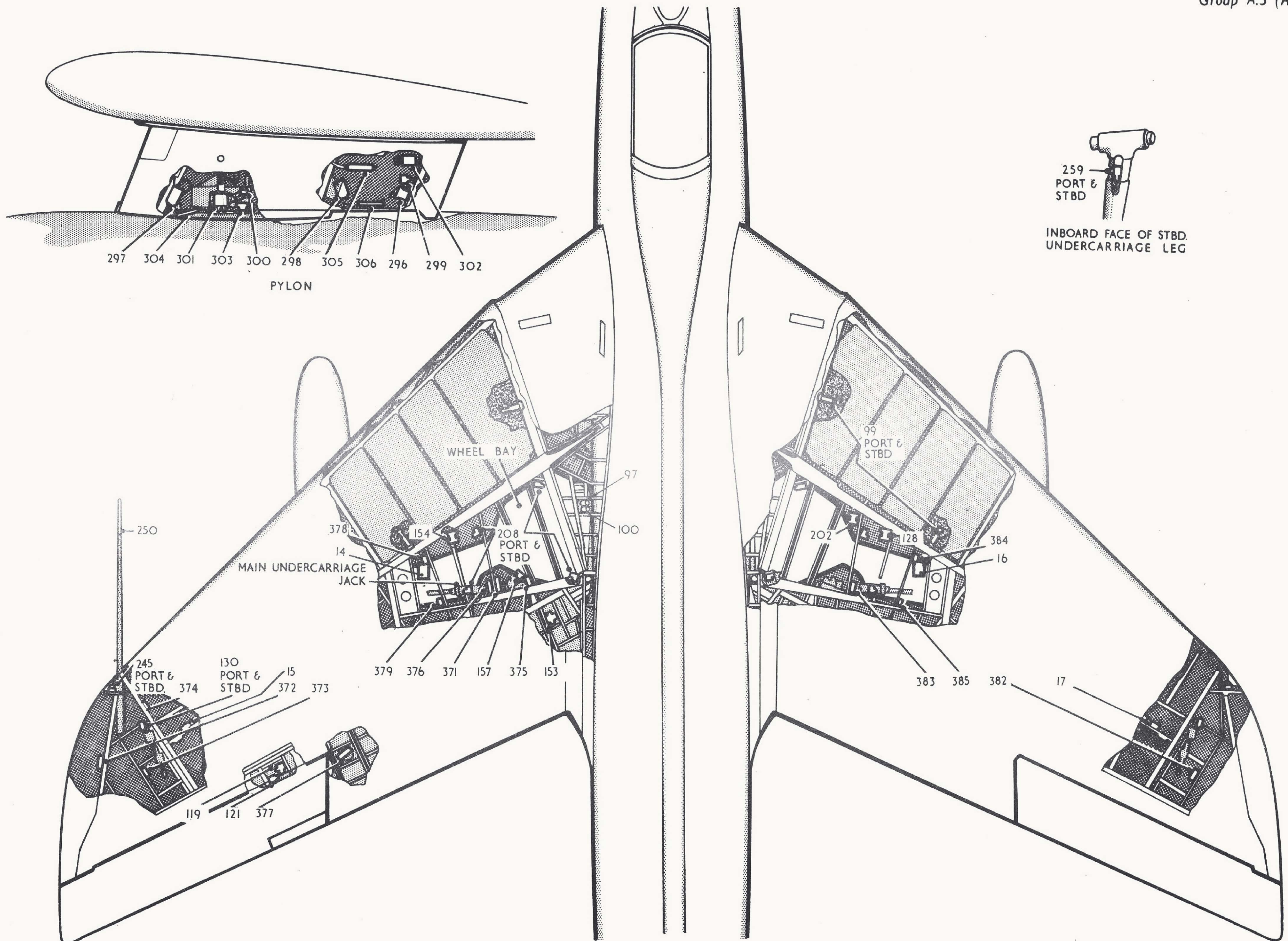


FIG. 6 LOCATION - MAIN PLANES

RESTRICTED

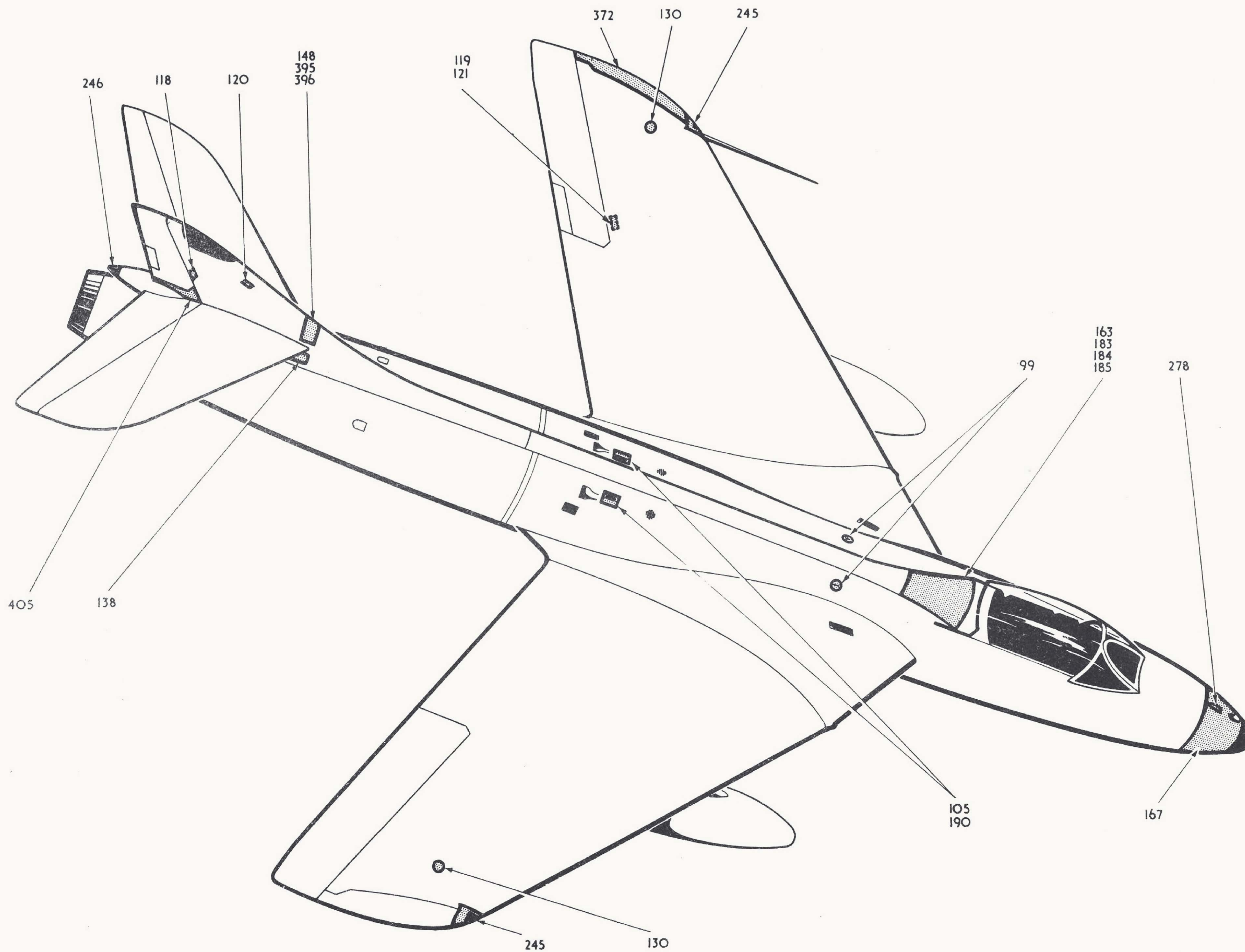


FIG. 7 ACCESS PANELS (TOP SURFACES)

RESTRICTED

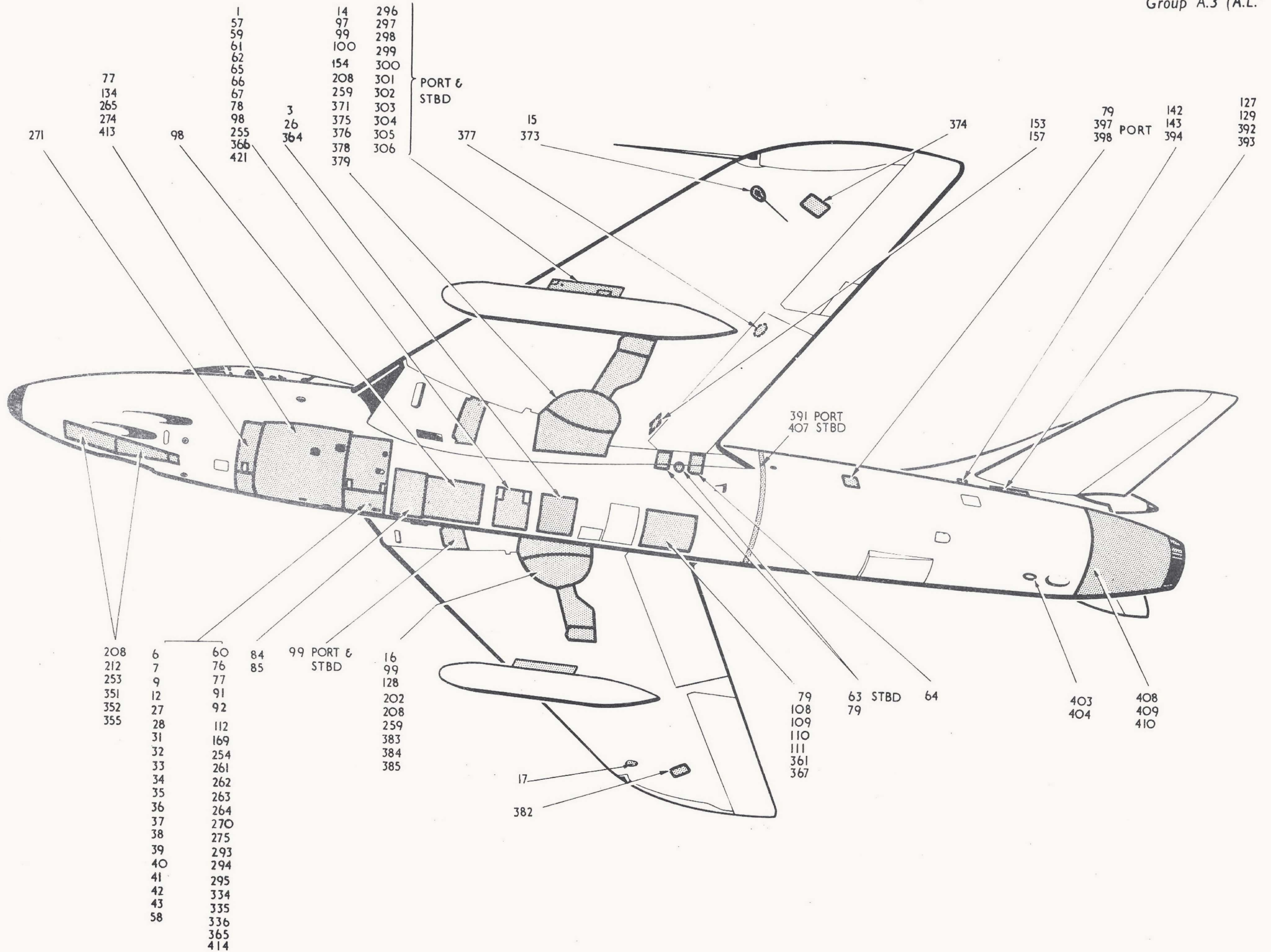


FIG. 8 ACCESS PANELS. (BOTTOM SURFACES)

RESTRICTED

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