

GROUP A3**LOCATION OF EQUIPMENT****LIST OF CONTENTS**

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Introduction

1. Reference should be made to this group to locate and find the means of access to the various electrical components. 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. The master index (*Table 1*) should be used in conjunction with the location and access panel illustrations in finding the location of, and access to, the electrical com-

ponents. The components are listed under the title of the circuit in which they are employed, each item being 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 numberEquipment							Figure number for	
							Location	Access
MAJOR COMPONENTS								
1	J.B.1	...	...	...	...	4	8	
2	J.B.2	...	...	...	...	2	—	
3	A.C. J.B.	...	...	...	...	2	—	
4	Supply panel	...	...	...	...	3	8	
5	Generator control panel	...	...	...	...	3	8	
6	Leg panel	...	...	...	...	2	—	
7	Gun-firing panel	...	...	...	...	3	8	
8	Cockpit port shelf	...	...	...	...	2	—	
9	Cockpit starboard shelf	...	...	...	...	2	—	
10	ARM J.B.1	...	...	...	...	3	8	
11	ARM J.B.2	...	...	...	...	2	—	
GENERATORS AND BATTERIES								
12	Generators	...	...	...	...	4	8	
13	Suppressors	...	...	...	...	4	8	
14	Batteries	...	...	...	...	3	8	
15	External supply plug	...	...	...	...	3	8	
16	Battery master switch	...	...	...	...	2	—	
17	Power failure warning lamps	...	...	...	...	2	—	
18	Power failure indicators	...	...	...	...	3	8	
19	Main circuit breakers	...	...	...	...	3	8	
20	Test sockets	...	...	...	...	3	8	
21	Ammeter shunts	...	...	...	...	3	8	

Item numberEquipment							Figure number for	
							Location	Access
GENERATORS AND BATTERIES— <i>contd.</i>								
22	Battery relay	...	...	...	...	3	8	
23	Hold off relays	...	...	...	...	3	8	
24	Regulator relays	...	...	...	...	3	8	
25	Reset switches	...	...	...	...	3	8	
26	Voltage regulators	...	...	...	...	3	8	
27	Crash relays	...	...	...	...	3	8	
28	Field circuit breakers	...	...	...	...	3	8	
29	Differential cut-outs	...	...	...	...	3	8	
30	Remote voltage trimmers	...	...	...	...	3	8	
ENGINE STARTING								
31	Starter selector switch	...	...	...	...	2	—	
32	Ignition switch	...	...	...	...	2	—	
33	Limiting resistance	...	...	...	...	2	—	
34	Master switch	...	...	...	...	2	—	
35	Igniter relay	...	...	...	...	3	8	
36	Time switch	...	...	...	...	2	—	
37	Relight switch	...	...	...	...	2	—	
38	Circuit breaker	...	...	...	...	2	—	
39	Starter	...	...	...	...	4	8	
40	High-energy igniter units	...	...	...	...	4	8	
41	Igniter plugs	...	...	...	...	4	8	
42								

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TABLE 1—Master index of electrical equipment—*contd.*

Item number	Equipment	Figure number for	
		Location	Access
FIRE WARNING AND EXTINGUISHER*			
43	Switch and warning lamp	2	—
44	Relay X	3	8
45	Inertia switches	3	8
46	Extinguisher bottle	4	8
47	Flame switches	4 and 5	8
TANK PUMPS			
48	Pumps... ..	4	8
49	Suppressor	4	8
50	Circuit breakers	2	—
51	Control switches	2	—
52	Ammeter test socket	2	—
53	Test switch	2	—
54			
55			
PRESSURE RE-FUELLING			
56	Time switch	6	8
57	Solenoid valves	4	8
58	Fluid level switches	4 and 6	7
59			
ENGINE ANTI-ICING			
60	Switch	2	—

Item number	Equipment	Figure number for	
		Location	Access
ENGINE ANTI-ICING— <i>contd.</i>			
61	Magnetic indicator	2	—
62	Gate valve actuator	4	7
63			
RUDDER AND AILERON TRIM CONTROLS AND INDICATORS			
64	Trim switch	2	—
65	Indicators	2	—
66	Rudder tab actuator	5	7
67	Aileron tab actuator... ..	6	7
68	Rudder tab Desynn transmitter ...	5	7
69	Aileron tab Desynn transmitter ...	6	7
70			
ELEVATOR AND AILERON POWER CONTROLS			
71	Control switches	2	—
72	Magnetic indicators	2	—
73	Elevator solenoid valve	5	8
74	Aileron solenoid valve	6	8
75	Elevator indicator micro switch ...	5	8
76	Aileron indicator micro switches ...	6	7
77			

TABLE 1—Master index of electrical equipment—contd.

Item number	Equipment	Figure number for	
		Location	Access
HYDRAULIC PRESSURE INDICATOR			
78	Pressure switch	3	8
79	Indicator lamp	2	—
80			
TAIL PLANE CONTROL			
81	Actuator	5	7
82	Normal control switch	2	—
83	Stand-by control switch	2	—
84	Interference switch	2	—
85	Main contactor	5	8
86	Standby contactor	5	8
87	Circuit breaker	2	—
TAIL PLANE POSITION INDICATOR			
88	Desynn transmitter	5	7
89	Indicator	2	—
90			
FLAP CONTROL			
91	Selector switch	2	—
92	Drum follow-up switch	6	8
93	Solenoid valve	6	8
94			

Item number	Equipment	Figure number for	
		Location	Access
FLAP POSITION INDICATOR			
95	Desynn transmitter	6	8
96	Indicator	2	—
97			
HOOD CONTROL			
98	Motor	2	—
99	Relay unit	2	—
100	Hood seal valve	3	7
101	Control switch	2	—
102	Forward limit switch	2	—
103	Circuit breaker	2	—
104	External control switch	3	7
105	Selector plugs	2	—
106	Rear limit switch	3	8
CABIN PRESSURIZATION AND TEMPERATURE CONTROL			
107	Pressurization control switch	2	—
108	Temperature control switch	2	—
109	Temperature selector	2	—
110	Hood interlock relay	2	—
111	Flood control relay	2	—
112	Audio warning relay... ..	2	—

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TABLE 1—Master index of electrical equipment—*contd.*

Item number	Equipment	Figure number for		Item number	Equipment	Figure number for	
		Location	Access			Location	Access
CABIN PRESSURIZATION AND TEMPERATURE CONTROL— <i>contd.</i>				ALIGHTING GEAR INDICATOR			
113	Altitude switch	2	—	131	Indicator	2	—
114	Pressure warning test switch ...	2	—	132	Warning lamp	2	—
115	Temperature control valve actuator	3	7	133	Throttle ^a micro switch	2	—
116	Suppressor	3	7	134	Leg and door micro switches ...	3 and 6	8
117	Follow-up resistor	3	7	135			
118	Cabin element	2	—	136			
119	Cabin pressure control valve ...	2	—	137			
120	Magnetic amplifier	2	—	138			
121	Extractor solenoid	2	—	139			
122	Air supply valve actuator	4	7	WINDSCREEN DE-ICING PUMP			
123	Pressure warning lamp	2	—	140	Control switch	2	—
124	Audio warning cut-out switch ...	2	—	141	Pump	3	8
125	Flood switch	2	—	142			
126				A.C. SUPPLIES			
ALIGHTING GEAR CONTROL				143	Inverters	2	—
127	Control push-buttons	2	—	144	Torque switches	2	—
128	Solenoid valve	6	8	145	Suppressors	2	—
129				146	Auto-transformer	2	—
130				147	Stand-by test switch	2	—
				148	Normal supply failed indicator ...	2	—

TABLE 1—Master index of electrical equipment—contd.

Item numberEquipment						Figure number for		Item numberEquipment						Figure number for	
						Location	Access							Location	Access
A.C. SUPPLIES—contd.								NAVIGATION LAMPS—contd.							
149	Normal circuit breaker	...	...	...	...	2	—	168							
150	Stand-by circuit breaker	...	...	...	...	2	—	169							
151	Relay A	...	...	...	...	2	—	PRESSURE HEAD HEATER							
152	Relay B	...	...	...	...	2	—	170	Control switch	...	...	...	2	—	
153	Relay C	...	...	...	...	2	—	171	Heater element	...	...	...	6	—	
154	Relay D	...	...	...	...	2	—	SERVICE LAMPS							
155	Relay E	...	...	...	...	2	—	172	Nose bay lamp	...	...	...	3	8	
156	Relay F	...	...	...	...	2	—	173	Radio bay lamp	...	...	...	3	8	
157								174	Starter bay lamp	...	...	...	4	8	
CABIN LIGHTING								175							
158	Dimmer switches	...	...	...	...	2	—	GUN-FIRING							
159	U/V lamps	...	...	...	...	2	—	176	Firing trigger...	...	...	...	2	—	
160	Red lamps	...	...	...	...	2	—	177	Alighting gear compression micro switches	...	...	...	6	8	
161	Stand-by lamps	...	...	...	...	2	—	178	Butt switch	...	...	...	2	—	
162	Stand-by battery	...	...	...	...	2	—	179	Inverter	...	...	...	3	8	
163	Stand-by lamp switch	...	...	...	...	2	—	180	Safety relay	...	...	...	3	8	
NAVIGATION LAMPS								181	Firing relay	...	...	...	3	8	
164	Control switch	...	...	...	...	2	—	182	Circuit breaker	...	...	...	3	8	
165	Wing tip lamps	...	...	...	...	6	7	183	Box electrics	...	...	...	3	8	
166	Tail lamp	...	...	...	...	5	7	184							
167															

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TABLE 1—Master index of electrical equipment—contd.

Item number	Equipment	Figure number for	
		Location	Access

GUN VENTILATION			
185	Ventilation relay	3	8
186	Actuator	3	8
187			
GUN HEATING			
188	Thermostat	3	8
189	Hot air valve actuator	3	8
190			
G.45 CAMERA			
191	Camera	3	7
192	Gyro caging and camera relay ...	2	—
193	Master switch	2	—
194	Sunny/cloudy switch	2	—
195	Camera push-switch	2	—
196			
RADIO SUPPLIES			
197	V.H.F. set selector switch	2	—
198	V.H.F. press-to-transmit switch ...	2	—
199	Radar ranging switch	2	—
200	Radar test switch	2	—
201	Radar supply indicator	2	—
202	Inverter, Type 200	3	8

Item number	Equipment	Figure number for	
		Location	Access

RADIO SUPPLIES—contd.			
203	Circuit breaker	3	8
204			
205			
206			
TERMINAL BLOCKS			
207	T.B.1	3	8
208	T.B.2	3	8
209	T.B.3	2	—
210	T.B.4	2	—
211	T.B.5	3	8
212	T.B.6	2	—
213	T.B.7	2	—
214			
215	T.B.9	2	—
216	T.B.10... ..	2	—
217	T.B.11... ..	4	8
218	T.B.12... ..	4	8
219			
220			
221	T.B.21... ..	6	8
222	T.B.22... ..	6	7

TABLE 1—Master index of electrical equipment—*contd.*

Item number	Equipment	Figure number for	
		Location	Access
TERMINAL BLOCKS— <i>contd.</i>			
223	T.B.23... ..	6	8
224	T.B.24... ..	6	8
225	T.B.25... ..	6	8
226	T.B.26... ..	6	8
227	T.B.27... ..	6	8
228	T.B.28... ..	6	8
229	T.B.29... ..	6	8
230			
231			
232	T.B.32... ..	6	8
233	T.B.33... ..	6	8
234	T.B.34... ..	6	8
235	T.B.35... ..	6	8
236			
237			
238			
239	T.B.42... ..	5	8
240	T.B.43... ..	5	8
241	T.B.44... ..	5	8
242	T.B.45... ..	5	7
243	T.B.46... ..	5	7

Item number	Equipment	Figure number for	
		Location	Access
TERMINAL BLOCKS— <i>contd.</i>			
244	T.B.47... ..	5	8
245	T.B.48... ..	5	8
246	T.B.49... ..	5	7 and 8
247	T.B.50... ..	5	7 and 8
248	T.B.51... ..	5	7 and 8
249	T.B.52... ..	5	7 and 8
250	T.B.53... ..	5	8
251	T.B.54... ..	5	8
252	T.B.55... ..	5	7
253	T.B.56... ..	5	—
254			
255	T.B.63... ..	3	8
256	T.B.64... ..	3	—
257			
258			
259			
AIR BRAKE CONTROL			
260	Control switch	2	—
261	Undercarriage emergency micro switch	2	—
262	Air brake relay box	2	—

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TABLE 1—Master index of electrical equipment—*contd.*

Item number	Equipment	Figure number for	
		Location	Access
AIR BRAKE CONTROL— <i>contd.</i>			
263	Pressure switch	5	—
264	Solenoid valves	5	—
265	Magnetic indicator	2	—
266	Forward micro switch	5	—
267	Aft micro switch	5	—
268			
269			
ARMAMENT SERVICES			
270	Bomb/R.P. switch	2	—
271	Fuzing selector	2	—
272	Jettison switch	2	—
273	Bomb/R.P. relay	2	—
274	Fuzing relay	2	—
275	Jettison relay... ..	2	—
276	R.P. assessment relay	2	—

Item number	Equipment	Figure number for	
		Location	Access
ARMAMENT SERVICES— <i>contd.</i>			
277	Circuit breaker	3	8
278	Re-set switch... ..	3	8
279	Re-set indicator	3	8
280	Practice/normal switch	6	8
281	Nose fuzing unit	6	8
282	Tail fuzing unit	6	8
283	Cock test socket	6	8
284	Jettison solenoid	6	8
285	Release unit	6	8
286			
287	Type B series relay	6	8
288	Practice lamp socket	6	8
289	V.T. fuze socket	6	8
290	Pylon T.B.1	6	8
291	Pylon T.B.2	6	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 is 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.

EARTH POINTS-STUD TYPE

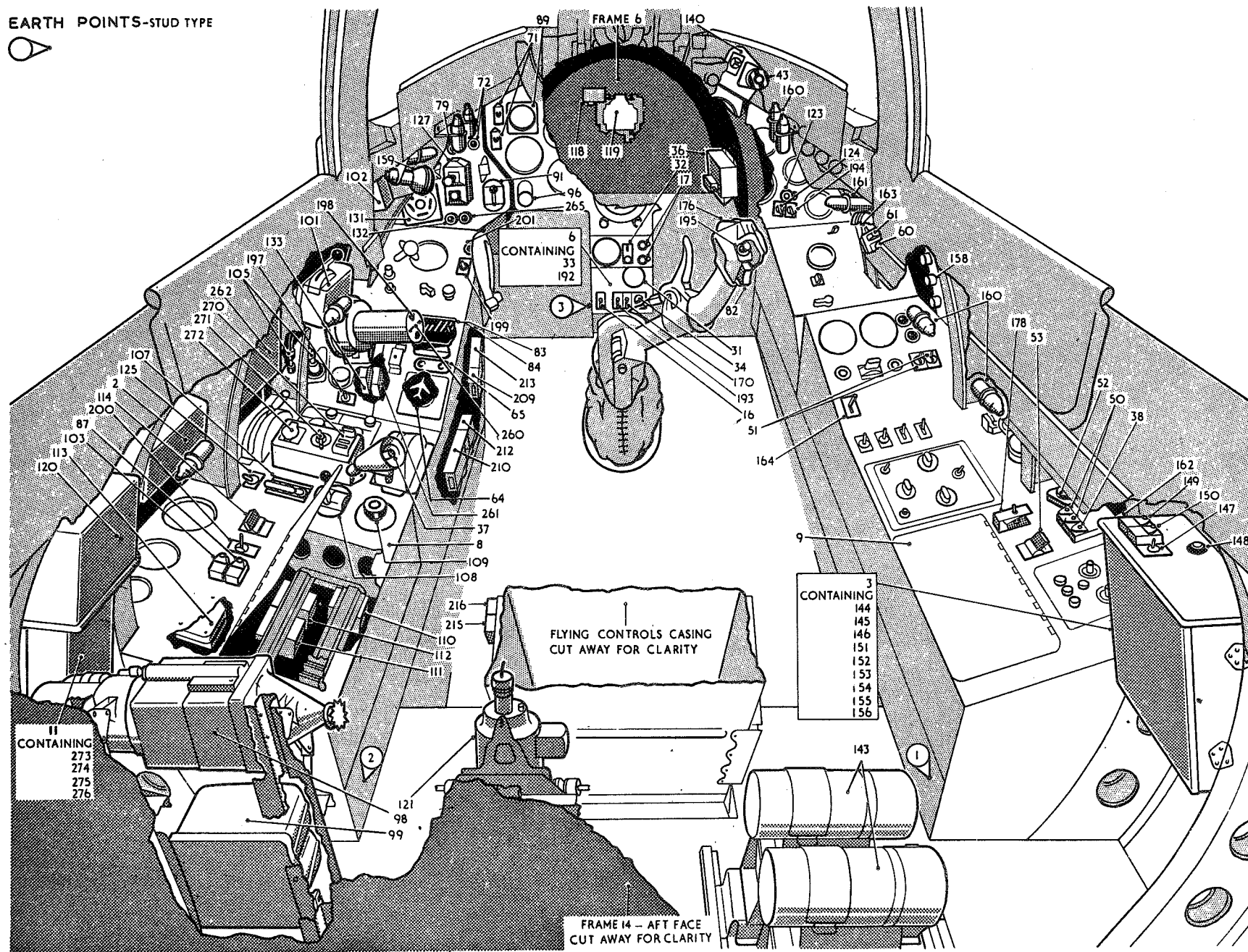


FIG. 2 LOCATION-COCKPIT

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(A.L.24, May 55)

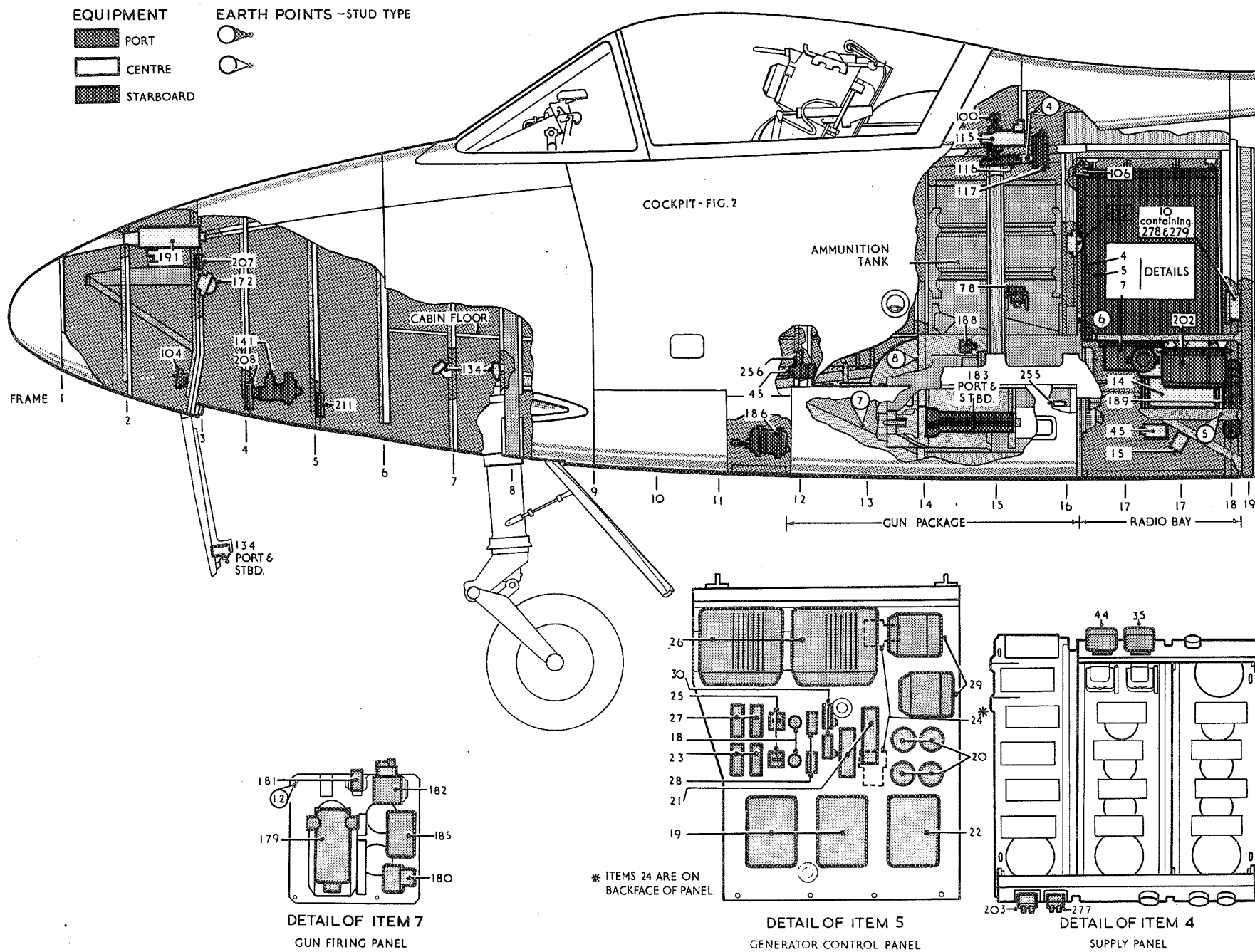


FIG. 3 LOCATION - FRONT FUSELAGE

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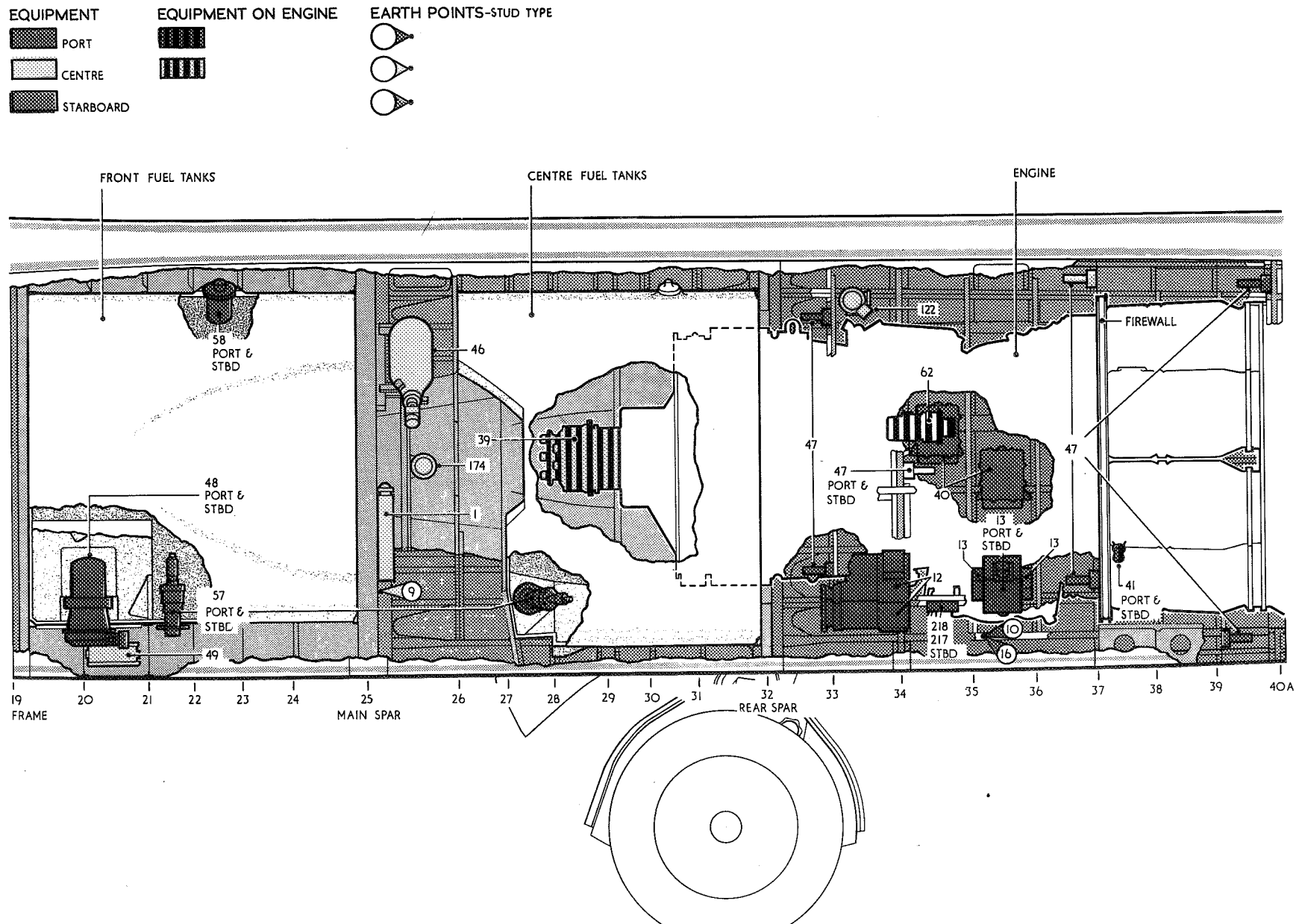
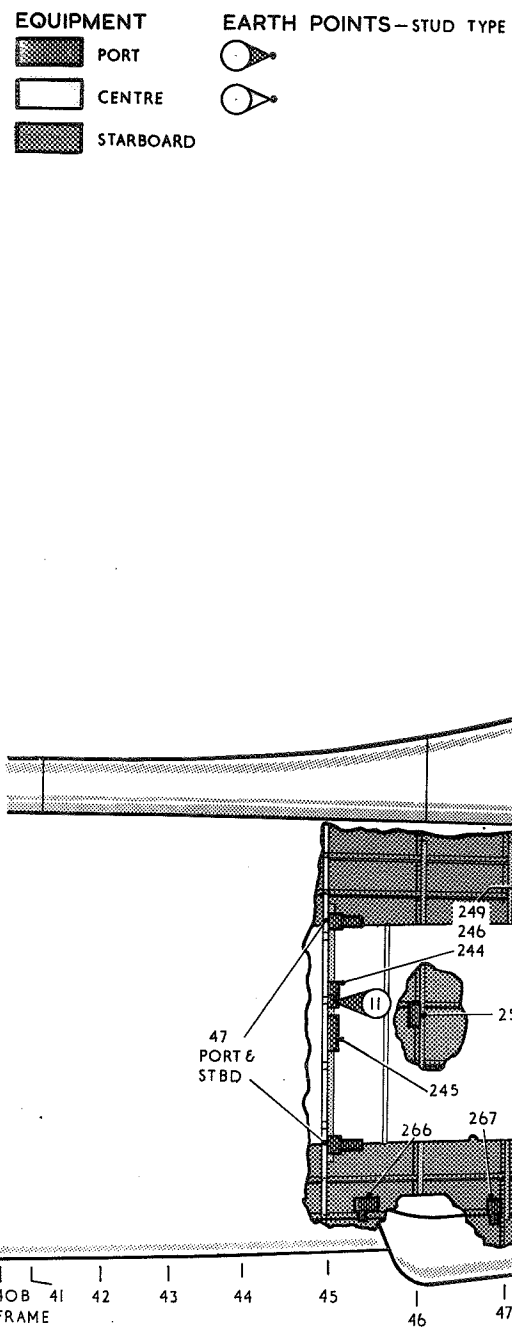


FIG. 4 LOCATION - CENTRE FUSELAGE
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**FIG. 5. LOCATION-REAR FUSELAGE
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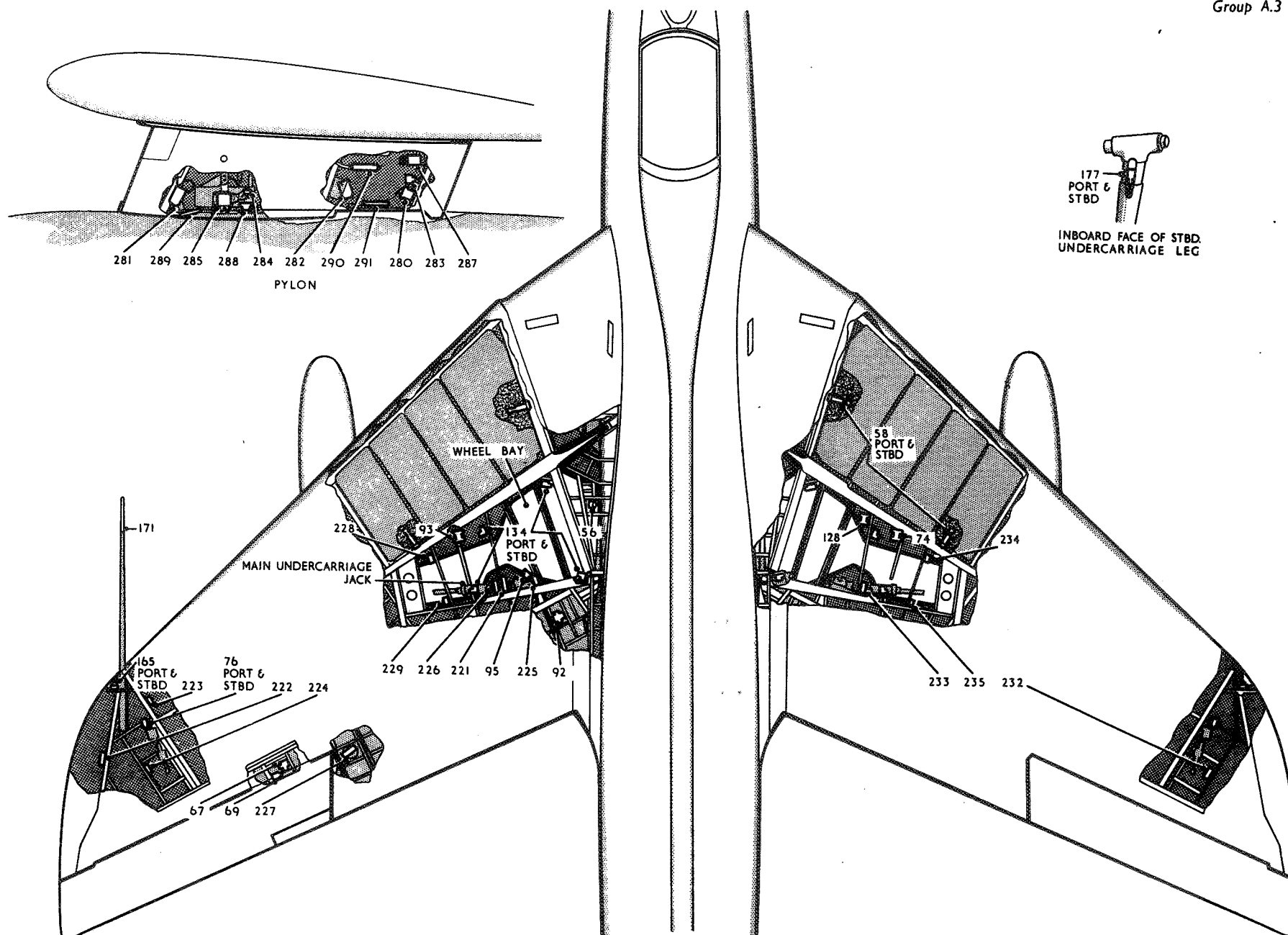


FIG. 6 LOCATION - MAIN PLANES
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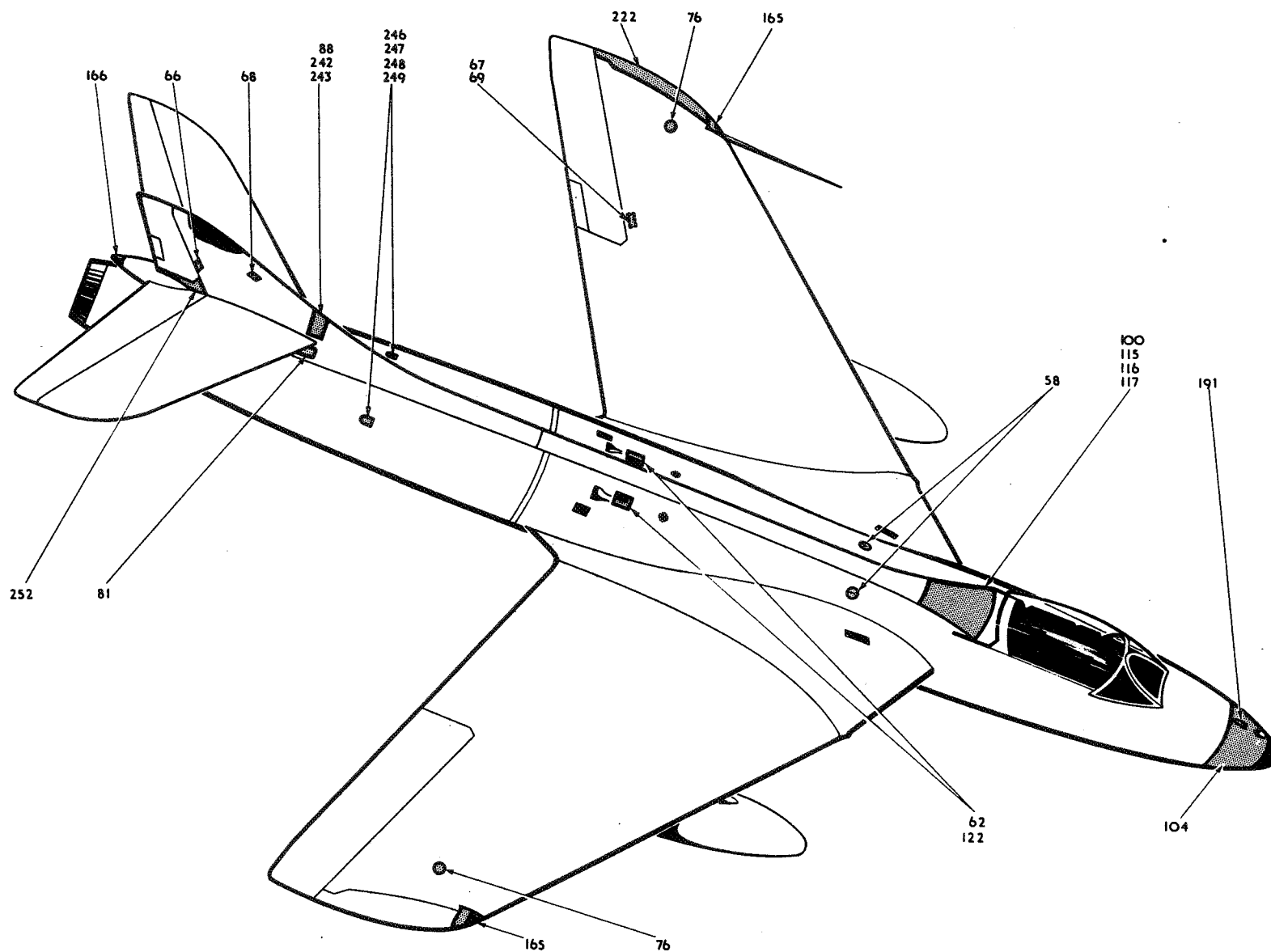


FIG. 7 ACCESS PANELS (TOP SURFACES)
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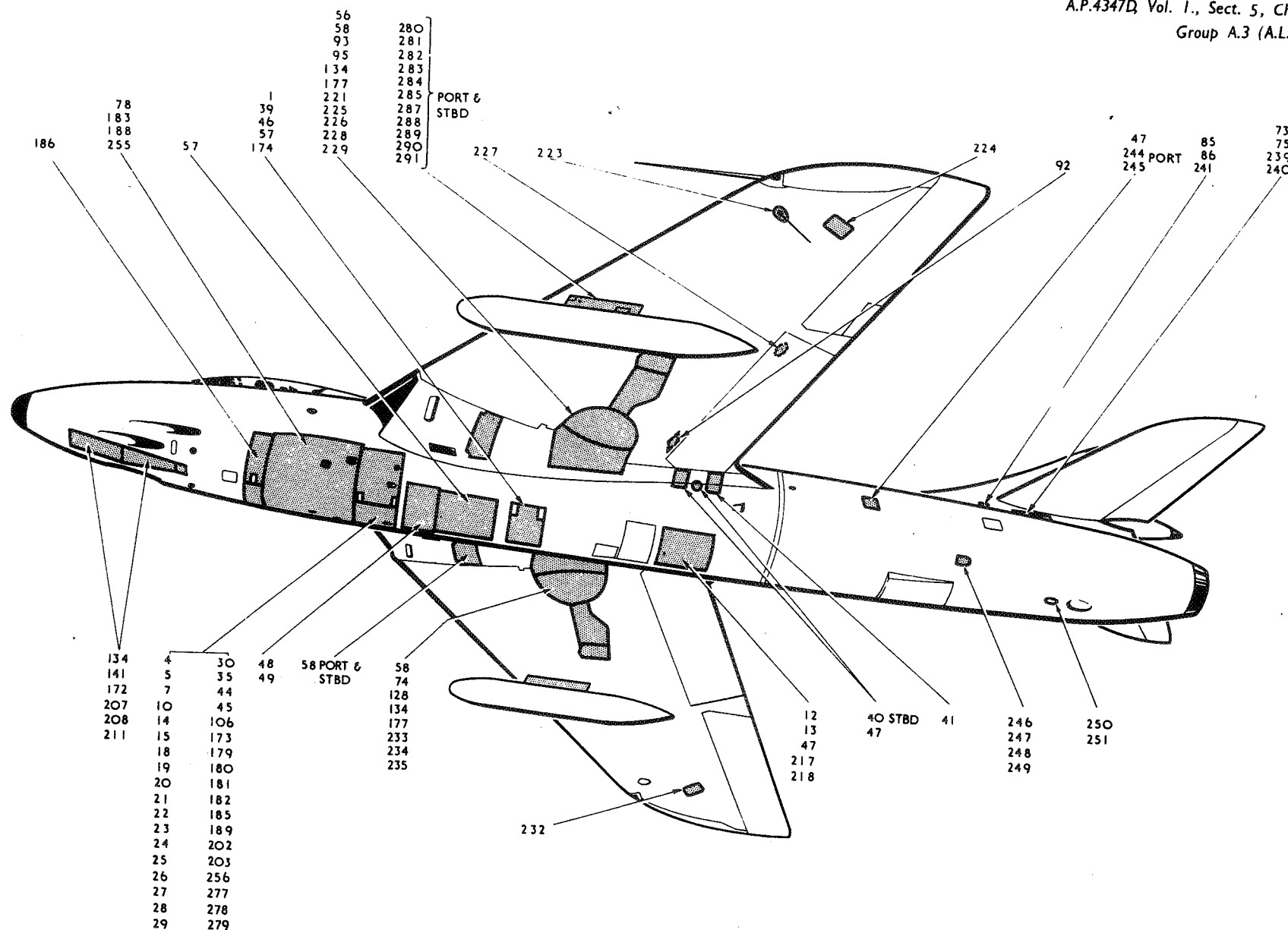


FIG. 8. ACCESS PANELS (BOTTOM SURFACES)

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(A.L. 24 M)

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