

GROUP A.3

LOCATION OF EQUIPMENT

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| Cable assembly layout | 1 * | Rear fuselage | 5 |
| Location | | Main planes | 6 |
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| Front fuselage | 3 | Access panels (bottom surface) | 8 |
| Centre fuselage | 4 | * (To be issued later). | |

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 | Audio 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 | - |

RESTRICTED

| 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 |

C

| 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, electricals | 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.

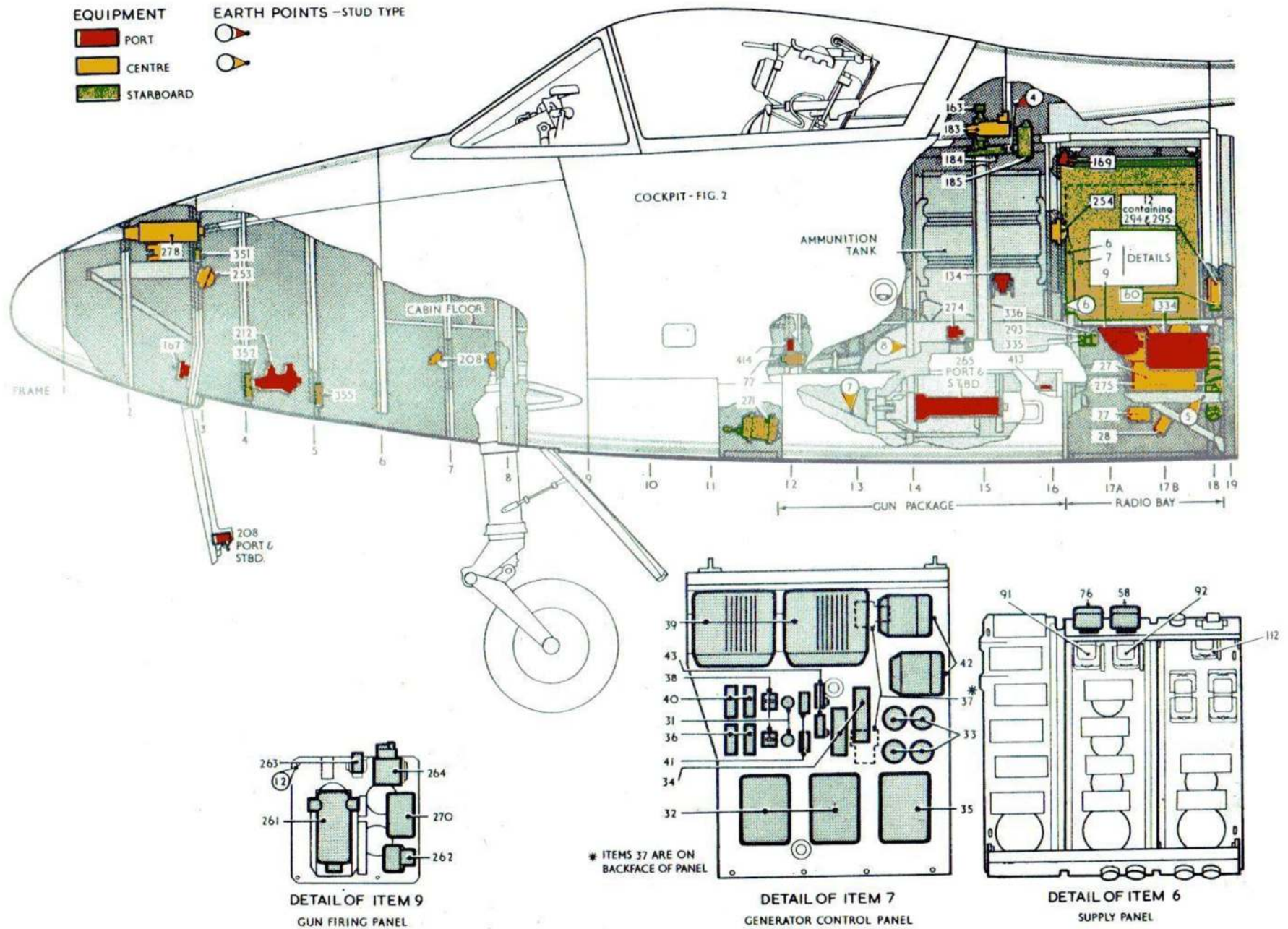


FIG. 3 LOCATION - FRONT FUSELAGE RESTRICTED

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

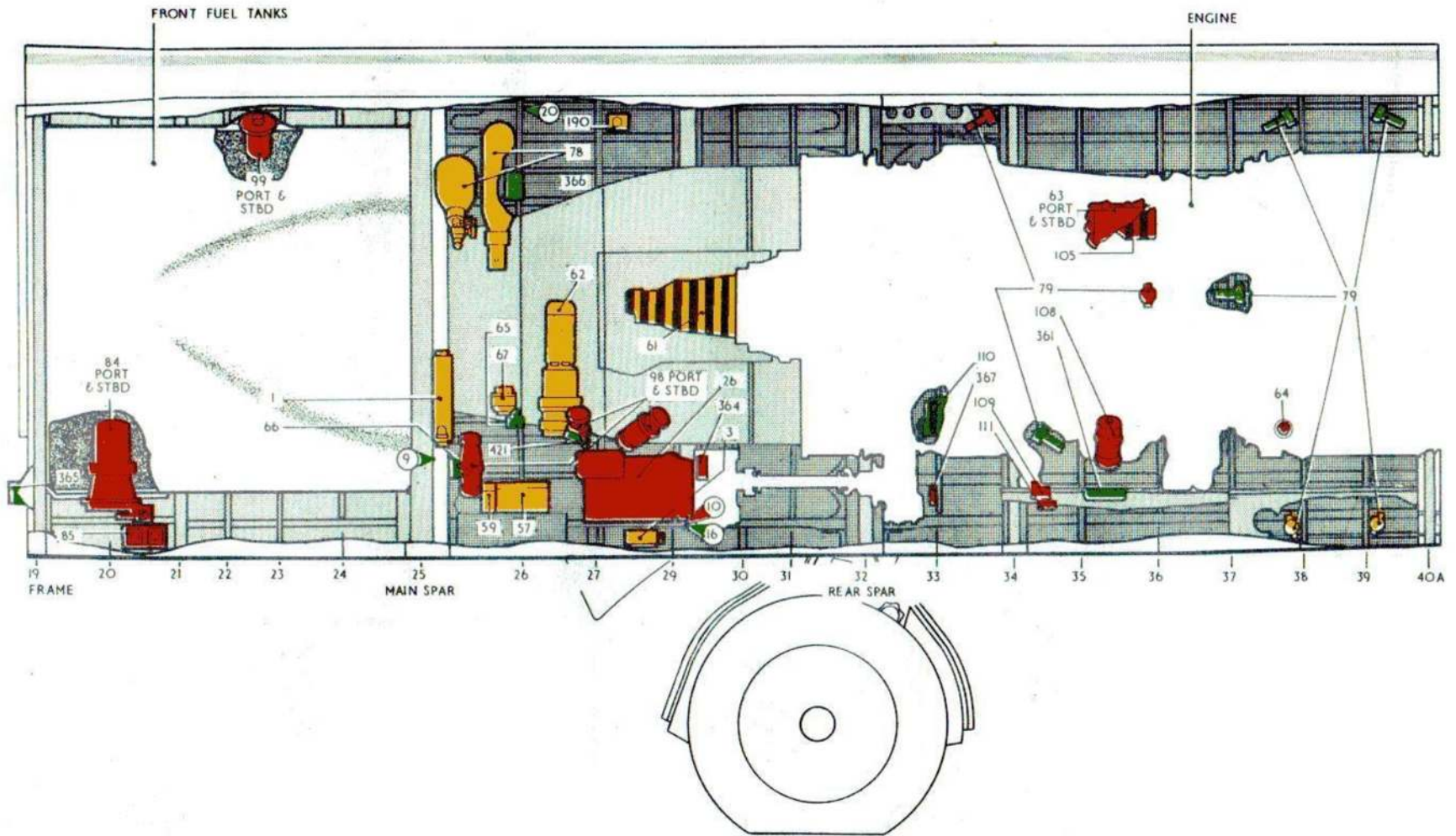


FIG. 4 LOCATION-CENTRE FUSELAGE

RESTRICTED

EQUIPMENT

- PORT
- CENTRE
- STARBOARD

EARTH POINTS—STUD TYPE

-
-

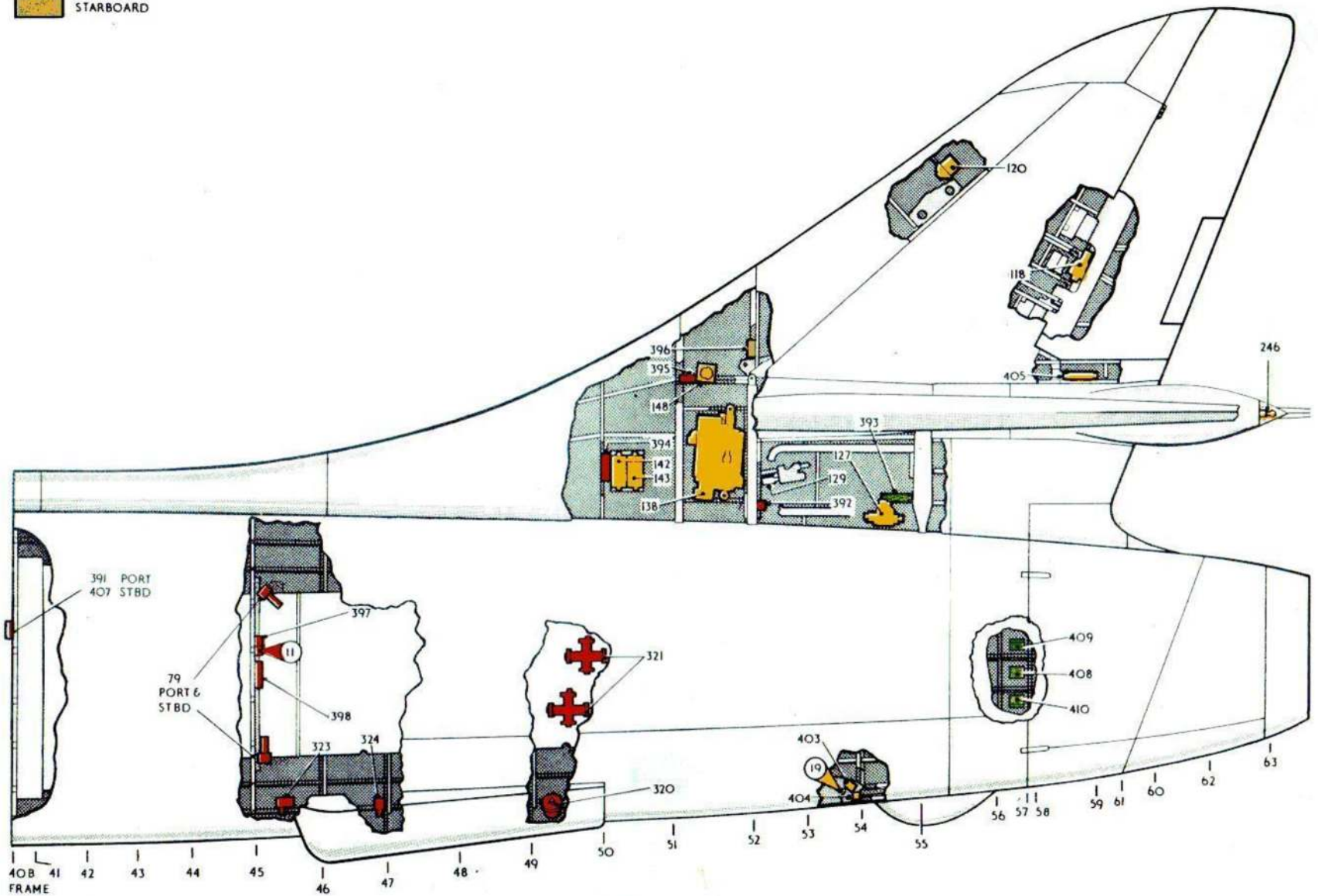


FIG. 5 LOCATION REAR FUSELAGE

RESTRICTED

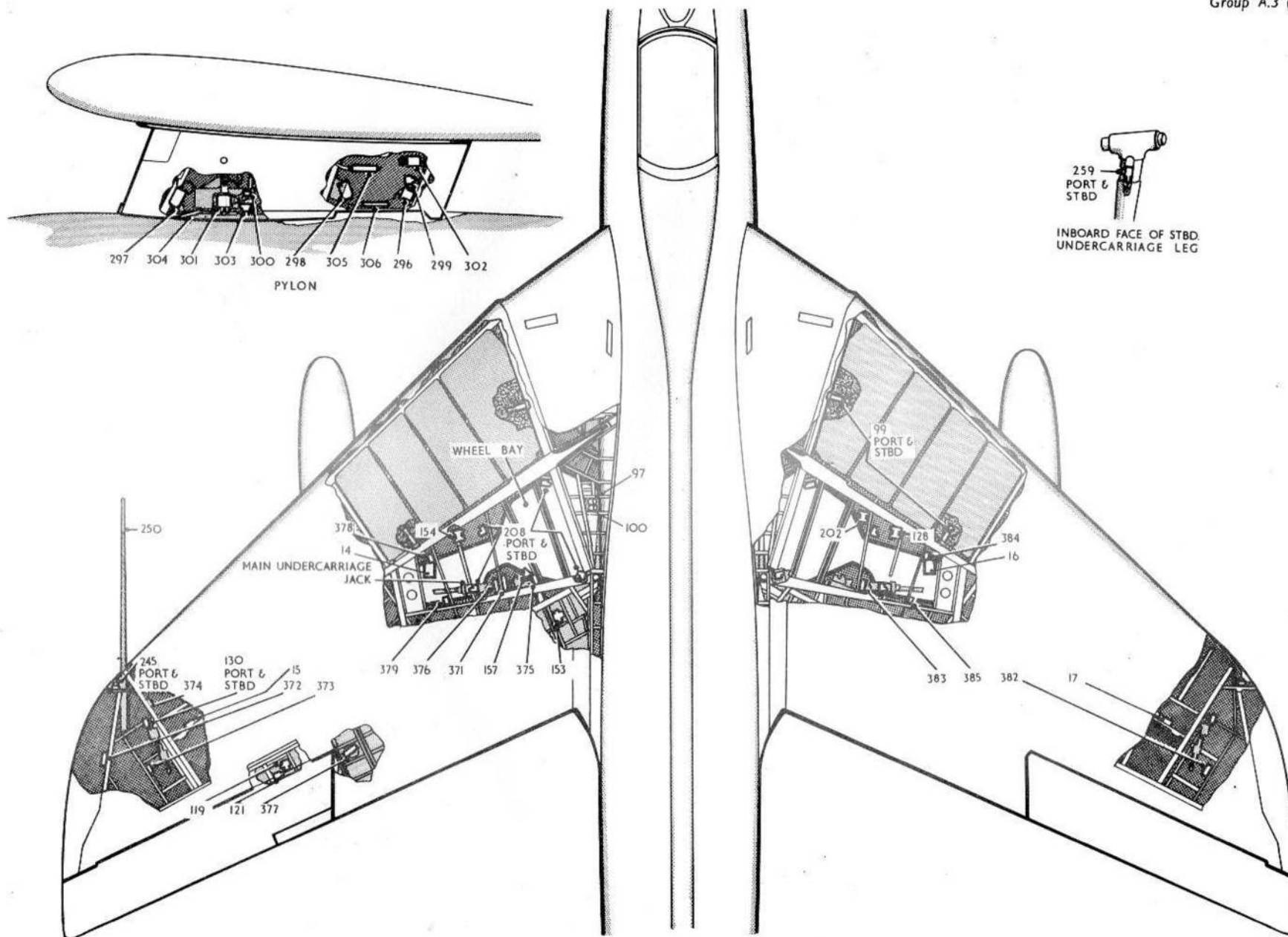


FIG. 6 LOCATION - MAIN PLANES
RESTRICTED

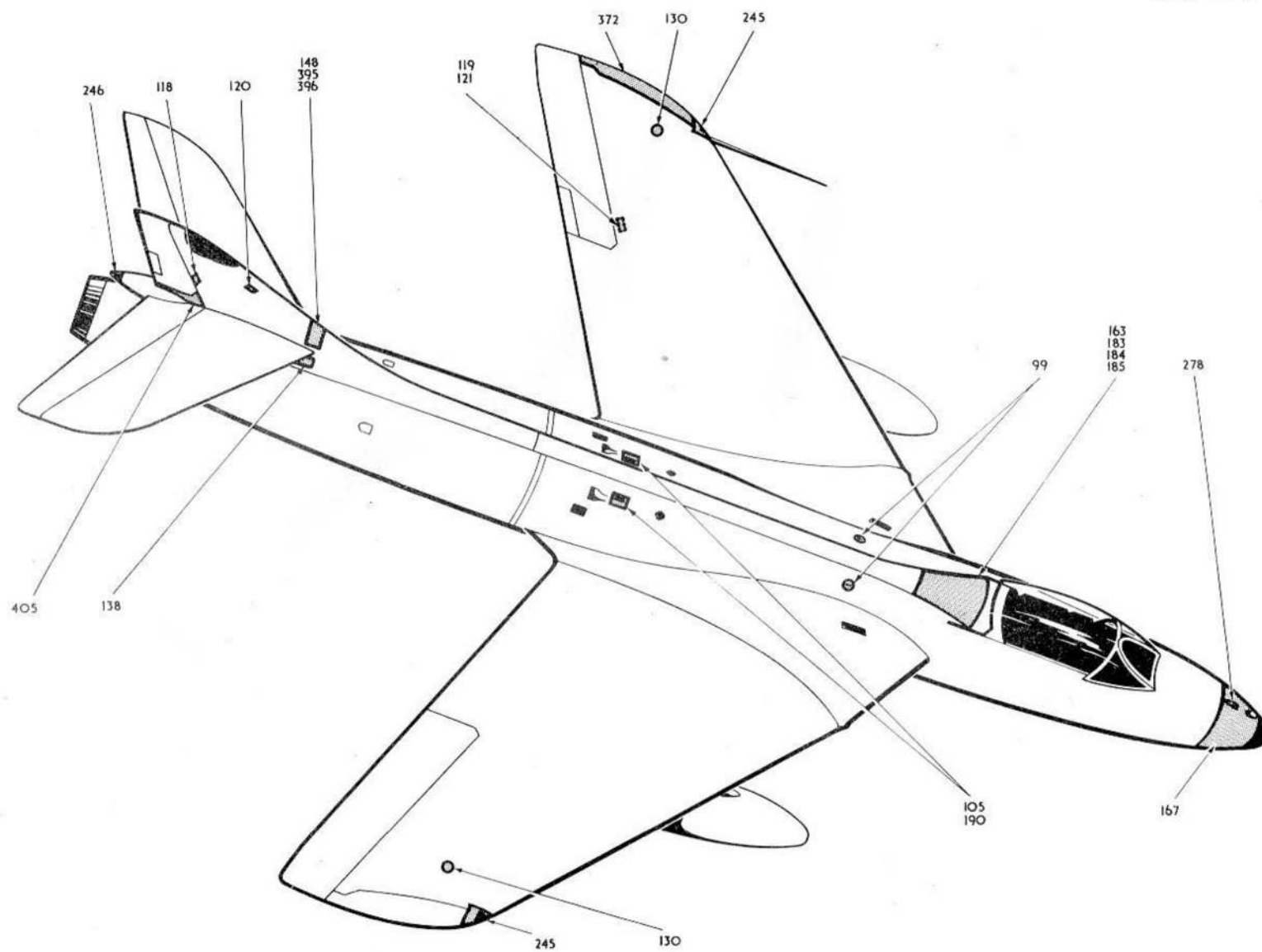


FIG. 7 ACCESS PANELS (TOP SURFACES)

RESTRICTED

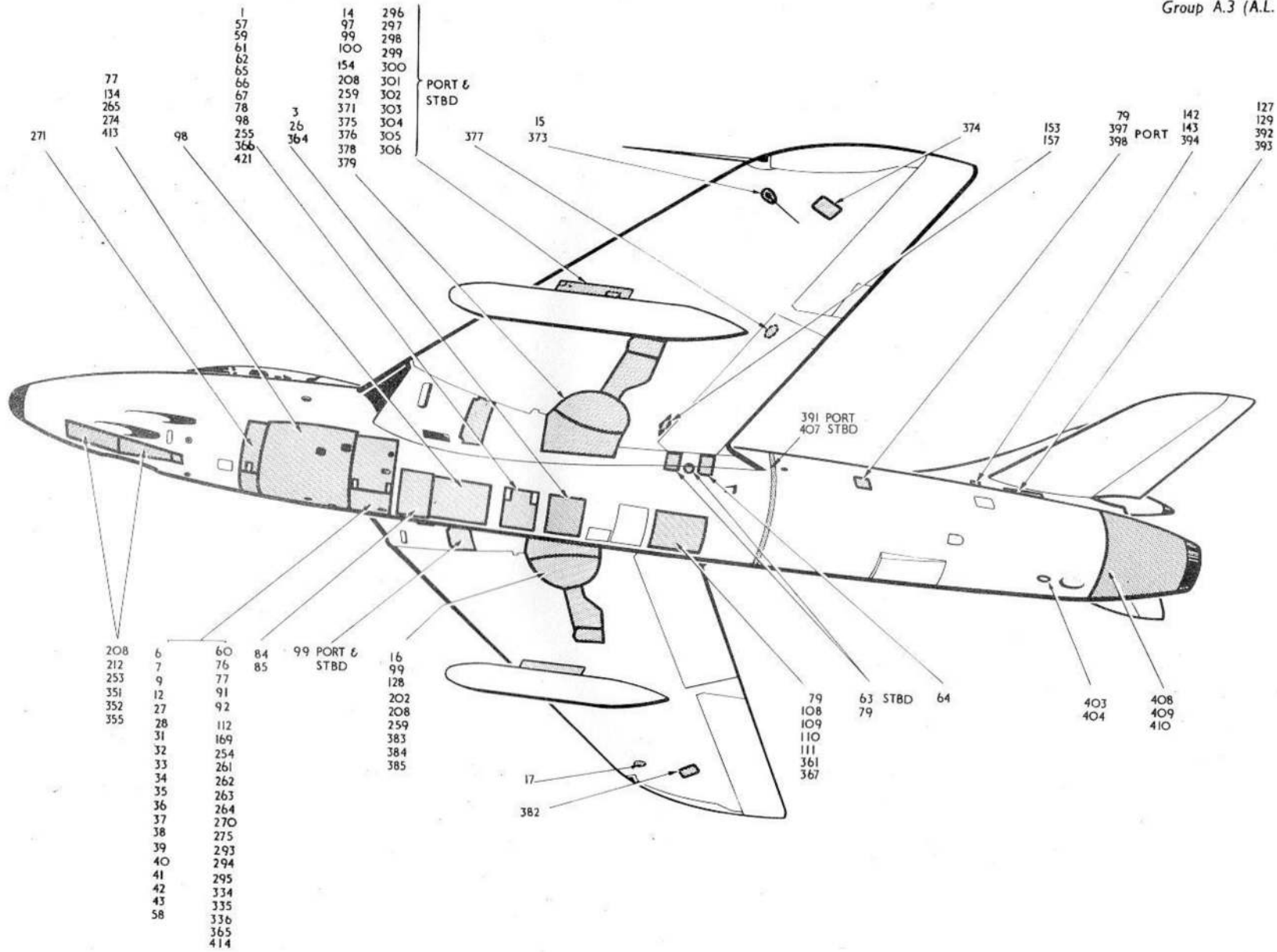


FIG. 8 ACCESS PANELS. (BOTTOM SURFACES)

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