Group 4. LOCATION DIAGRAMS

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Key to fig. 1 (Location of equipment (1))

1 FRONT PRESSURE BULKHEAD PRESSURE PLUG PANEL
2 INERTIA SWITCH
3 STARBOARD CONSOLE WITH PANELS B AND D
4 PILOTS' INSTRUMENT PANEL (*fig.* 3)
5 CONTROL PEDESTAL PANEL
6 FUSE PANEL F
7 INSTRUMENT INVERTER, TYPE 100A
8 AC/DC SUPPLIES POWER DISTRIBUTION BOX (*fig.* 19)
9 RADAR INVERTER, TYPE 350, TORQUE SWITCH BOX (*fig.* 6)
10 A.R.I. 5851 RADAR INVERTER, TYPE 153 WITH CONTROL PANELS (*fig.* 18)
11 28-VOLT CONTROL PANEL Z (*fig.* 13 *and* 14)
12 ROTARY TRANSFORMERS (3) FOR 28-VOLT SUPPLY OUTPUT H.R.C. FUSES ALONGSIDE EACH MACHINE—MOD. 2934
13 STARBOARD WING ROOT PANEL K
14 GENERATOR NO. 3 SUPPRESSOR
15 GENERATOR NO. 4 SUPPRESSOR
16 EQUIPMENT ON ENGINE (*fig.* 10)
17 PANEL V
◀ 18 RECTIFIER UNIT TYPE 19
19 INVERTER TYPE 153A
} REBECCA/EUREKA POWER SUPPLIES MOD. (2796) OR T.A.C.A.N. (AND COLLINS D.F. SYSTEM MOD. 3166) (MOD. 3168 PART A & B)

20 CONTROL PANEL TYPE 19
21 SWITCH, MAGNETIC, TYPE 9A, NO. 4
22 SWITCH, MAGNETIC, TYPE 1A, NO. 4
23 FUSE AND RELAY BOX
} REBECCA/EUREKA POWER SUPPLIES (MOD. 2796) OR T.A.C.A.N. (AND COLLINS D.F. SYSTEM MOD. 3166) (MOD. 3168 PART A & B) ▶

24 PANEL W
25 GENERATOR NO. 1
26 GENERATOR NO. 1 SUPPRESSOR
27 GENERATOR NO. 2
28 GENERATOR NO. 2 SUPPRESSOR
29 PORT WING ROOT PANEL P
30 112-VOLT CONTROL PANEL J (*fig.* 11, 12 and 12*A*)
31 RADAR INVERTERS, TYPE 350 AND ASSOCIATED CONTROL PANELS (*fig.* 17)
32 REAR PRESSURE BULKHEAD PANEL H
33 RADIO CRATE (*fig.* 5)
34 INSTRUMENT INVERTER CONTROL PANEL (*fig.* 6 *or* 7)
35 FUSE AND CONTROL PANEL G (*fig.* 5)
36 VOLTAGE TRIMMER PANEL (*fig.* 15)
37 PORT CONSOLE WITH PANELS C AND E (*fig.* 4)
38 BATTERY CRASH RELAY, TYPE S2

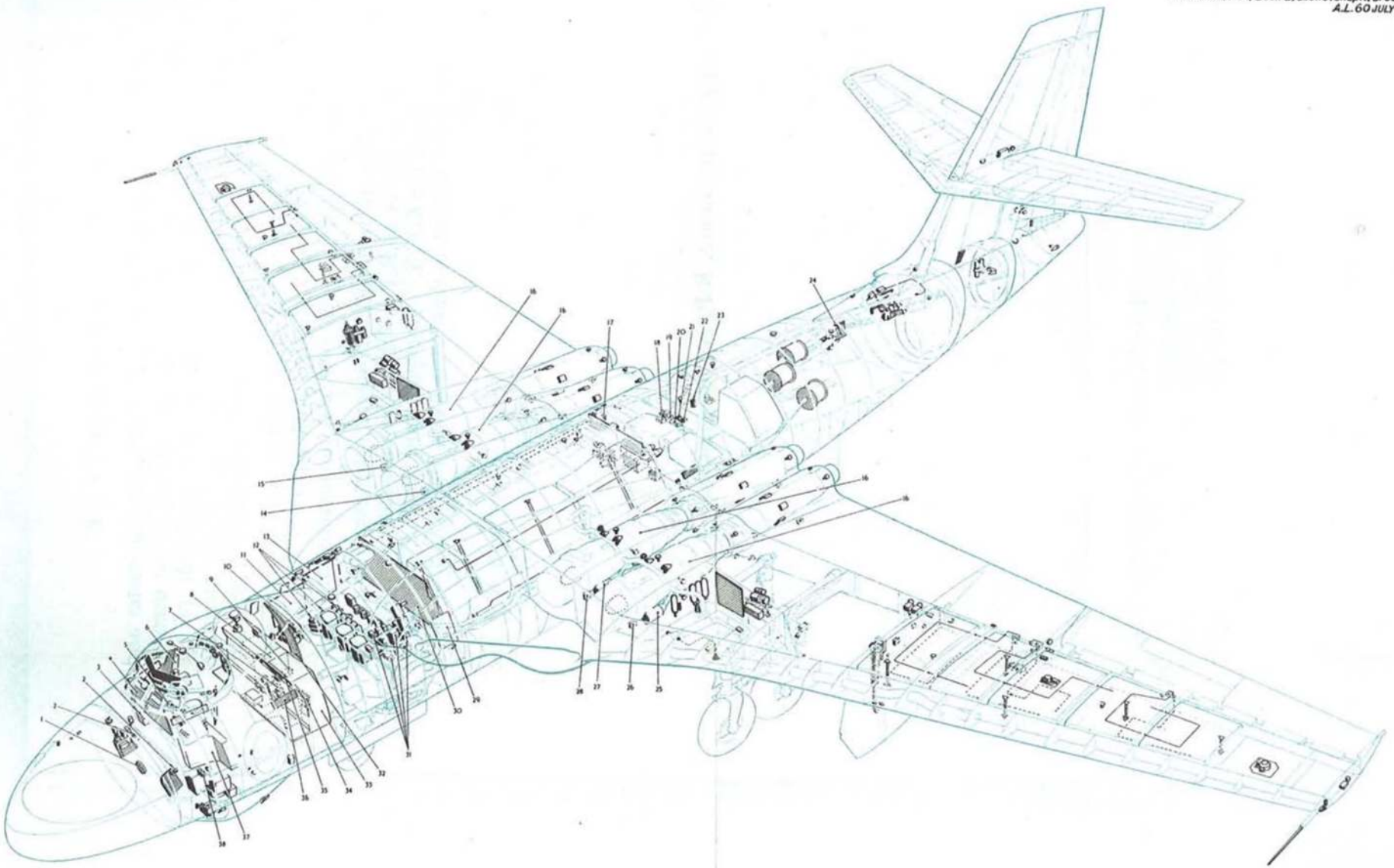

Fig. 1 Location of equipment (1)

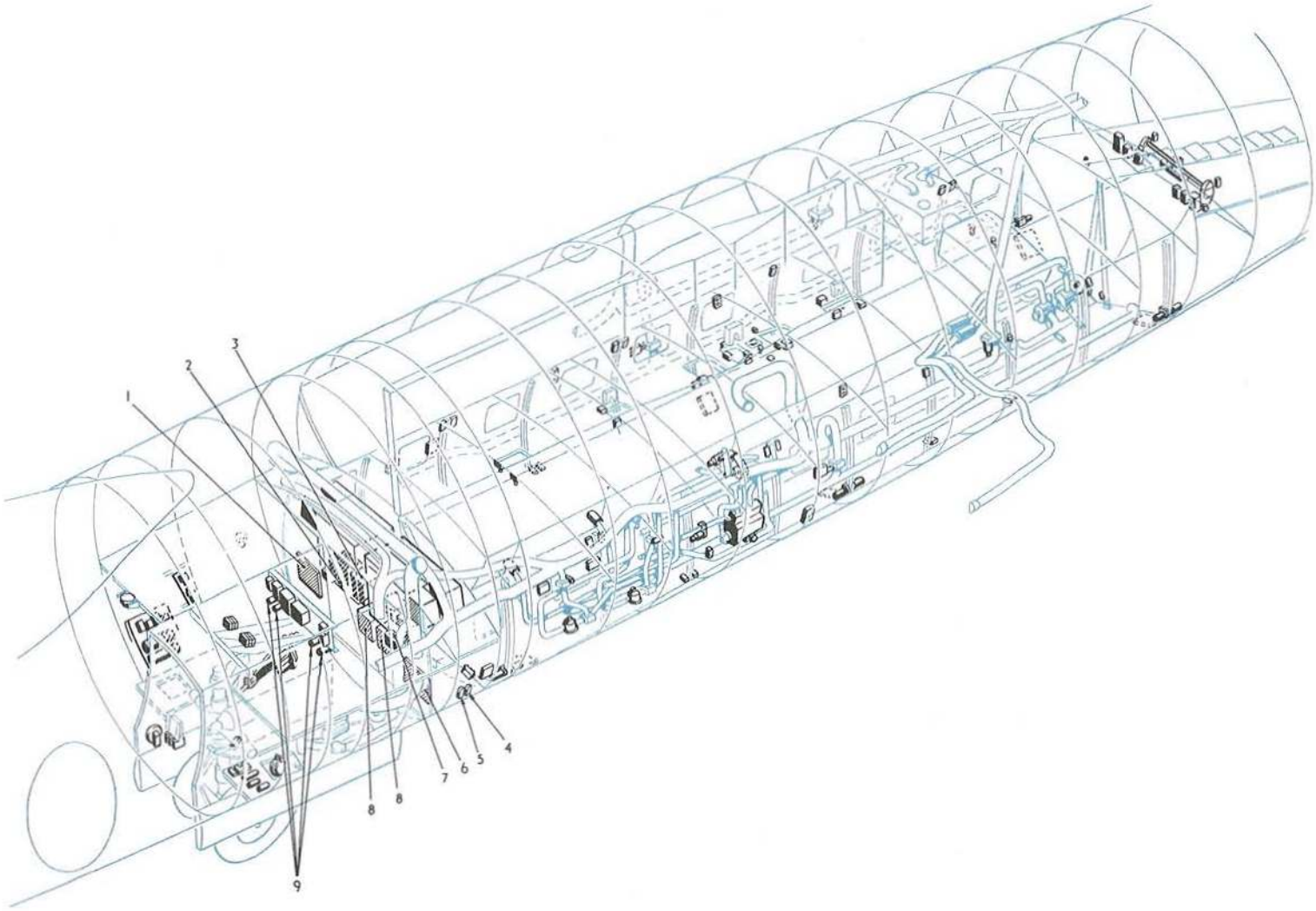

Fig. 2 Location of equipment (2)

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Key to fig. 2 (Location of equipment (2))

1 24-VOLT BATTERY CONTROL PANEL (*fig.* 16)
2 STOWAGE FOR 24-VOLT BATTERY LEADS (*fig.* 16)
3 24-VOLT BATTERY (*fig.* 16)
4 96-VOLT EXTERNAL SUPPLY SOCKET
5 24-VOLT EXTERNAL SUPPLY SOCKET
6 96-VOLT BATTERY CONTROL PANEL (*fig.* 16)
7 STOWAGE FOR 96-VOLT BATTERY LEADS (*fig.* 16)
8 96-VOLT BATTERY (4-24 VOLT BATTERIES IN SERIES) (*fig.* 16)
9 GENERATOR INERTIA SWITCHES (MOD. 2259) (*fig.* 20)

Key to fig. 3 (Equipment in cockpit)

1 PANEL ABOVE PORT CONSOLE
2 24-VOLT BATTERY SWITCH
3 96-VOLT BATTERY SWITCH
4 PORT CONSOLE
5 96-VOLT BATTERY INDICATOR
6 24-VOLT BATTERY INDICATOR
7 PORT COAMING PANEL
8 PILOT'S INSTRUMENT PORT BLIND FLYING PANEL
9 PILOT'S INSTRUMENT TOP PANEL
10 PILOT'S FUEL PANEL
11 PILOT'S INSTRUMENT CENTRE PANEL
11A INSTRUMENT MASTER SWITCH
12 PILOT'S INSTRUMENT STARBOARD BLIND FLYING PANEL
13 STARBOARD COAMING PANEL
14 STARBOARD CONSOLE
15 PANEL ABOVE STARBOARD CONSOLE
16 CONTROL PEDESTAL

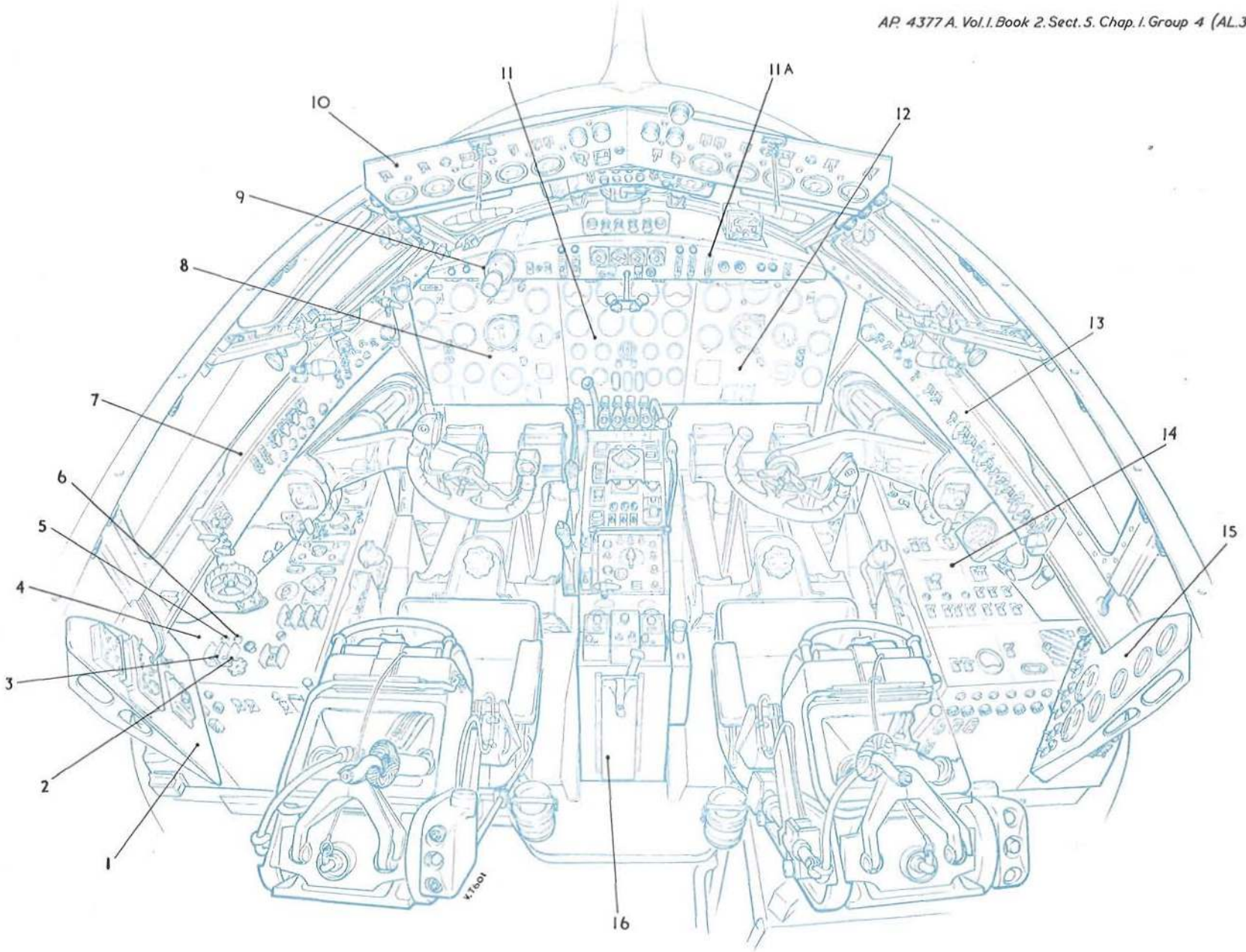

Fig. 3. Equipment in cockpit

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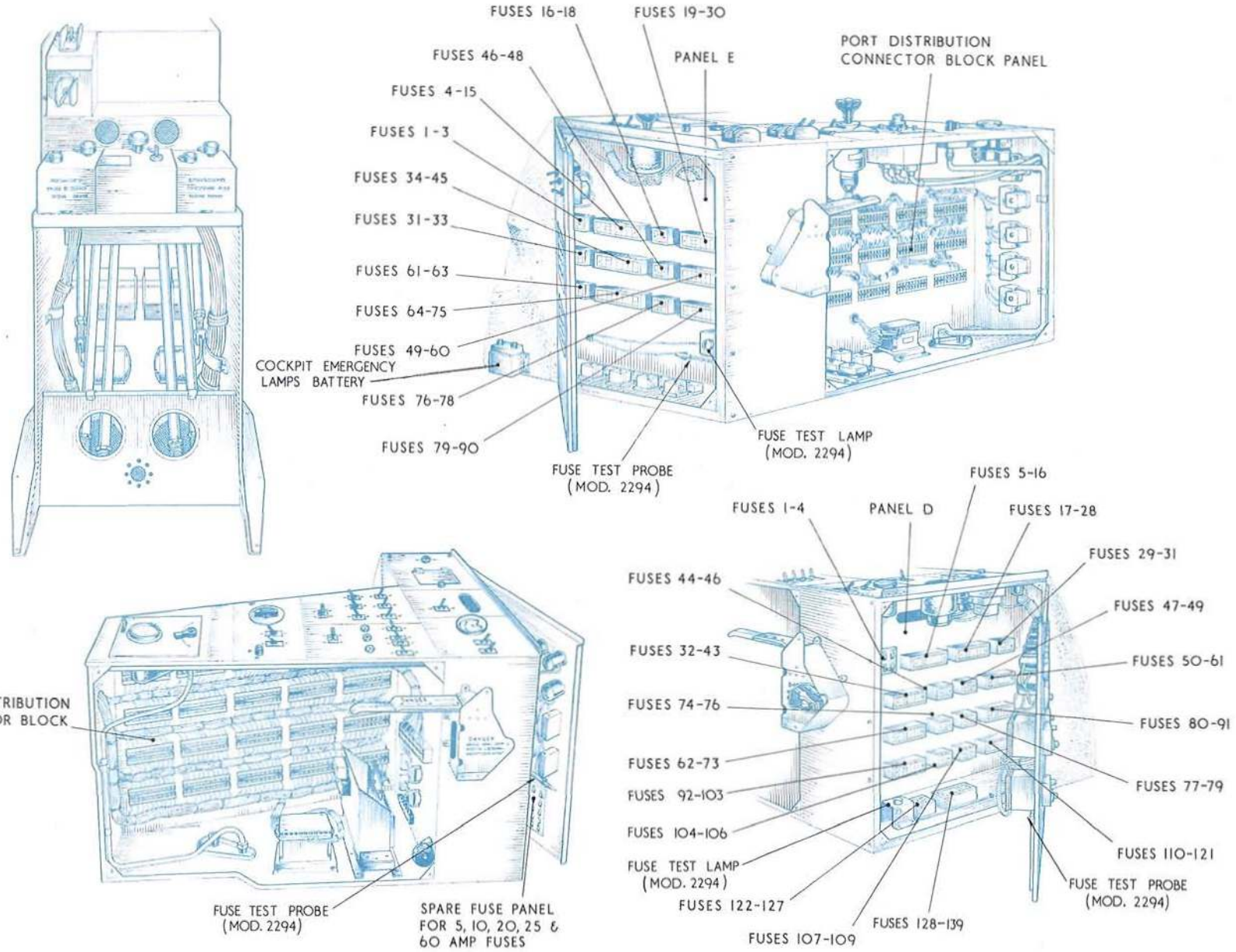

Fig. 4 Equipment in consoles and control pedestal

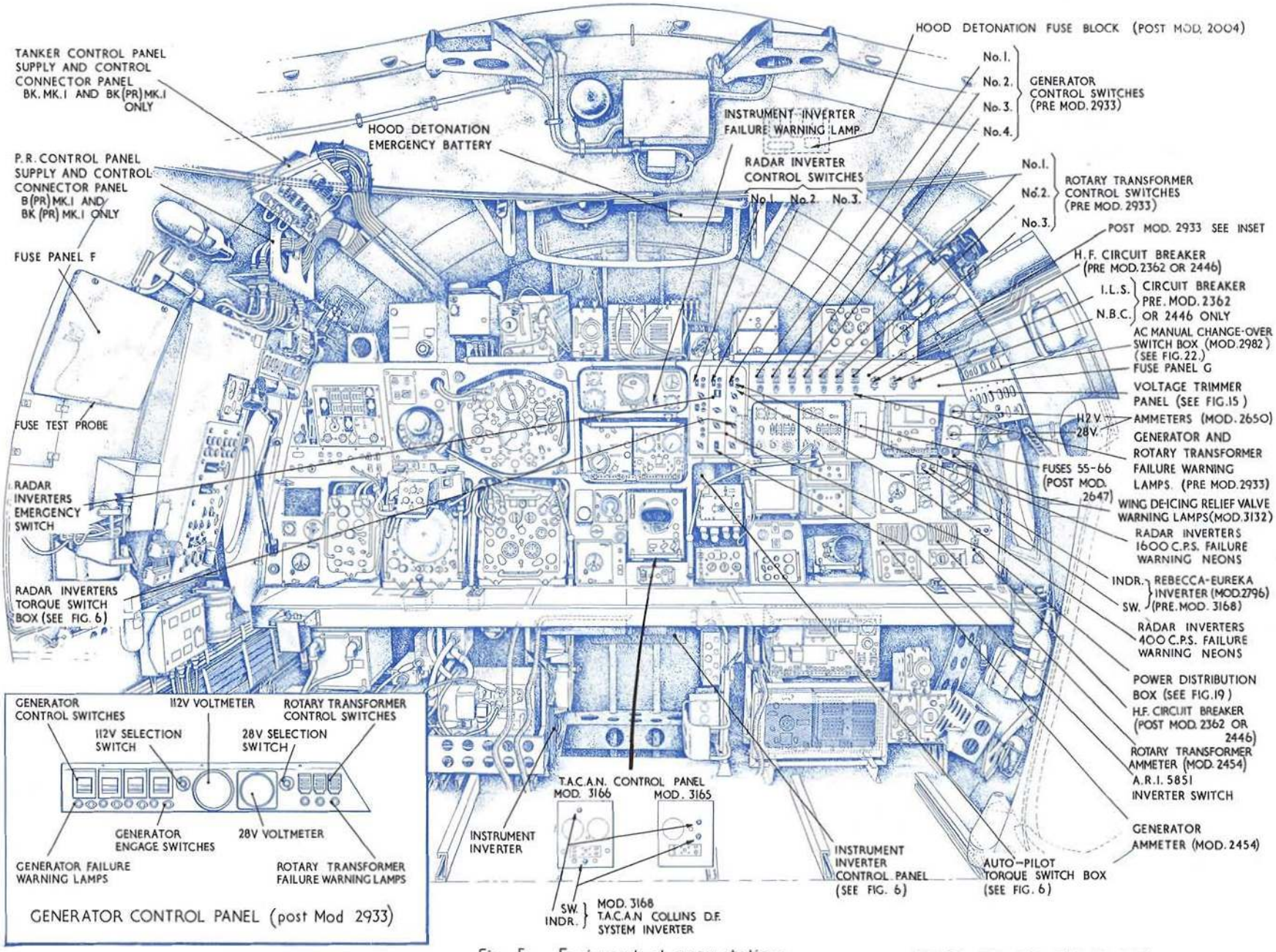

Fig. 5. Equipment at crew stations

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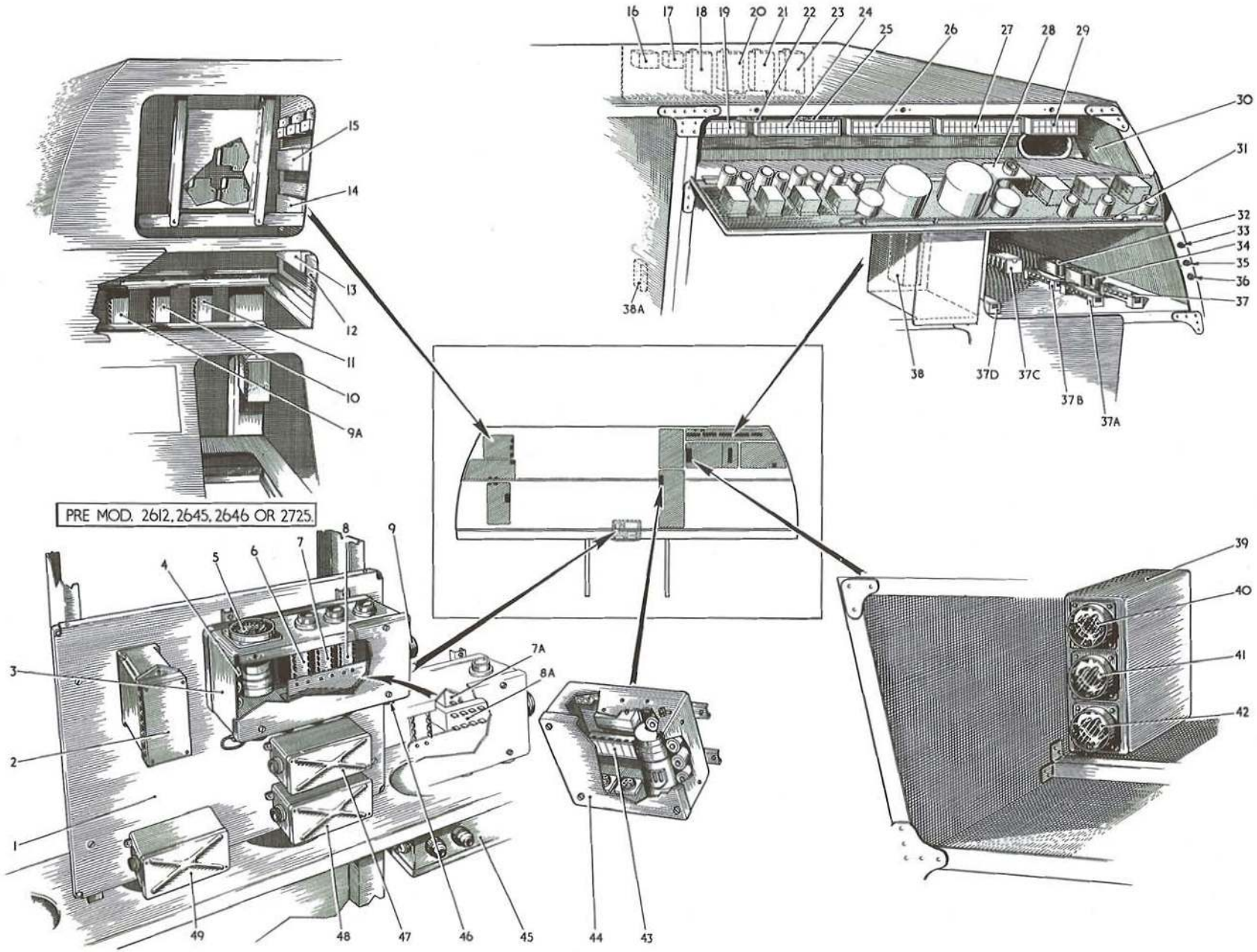

Fig. 6 . Details of equipment in radio crate.(1)

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Key to fig. 6 (Details of equipment in radio crate (1))

1 INSTRUMENT INVERTER CONTROL PANEL
2 INSTRUMENT INVERTER MAIN RELAY
3 INSTRUMENT INVERTER TORQUE SWITCH BOX
4 INSTRUMENT INVERTER TORQUE SWITCH CAPACITORS
5 INSTRUMENT INVERTER TORQUE SWITCH
6 INSTRUMENT SUPPLY DISCRIMINATION RELAY
7 INSTRUMENT SUPPLY A.C. SELECTOR RELAY (PRE-MOD. 2648)
7A INSTRUMENT SUPPLY A.C. SELECTOR RELAY (PRE-MOD. 2648)
8 INSTRUMENT SUPPLY D.C. SELECTOR RELAY (PRE-MOD. 2648)
8A INSTRUMENT SUPPLY D.C. SELECTOR RELAY (PRE-MOD. 2648)
9 TANKER CONTROL PANEL SUPPLY CONNECTOR (B/K MK. 1 AND B/K/PR MK. 1 ONLY)
9A CONNECTOR BLOCK X-Y (MOD. 2398)
10 CONNECTOR BLOCK V-W
11 CONNECTOR BLOCK T-U
12 CONNECTOR BLOCK R-S
13 CONNECTOR BLOCK N-P
14 CONNECTOR BLOCK L-M
15 CONNECTOR BLOCK J-K
16 CONNECTOR BLOCK B1-B3
17 CONNECTOR BLOCK A1-A2
18 CONNECTOR BLOCK G-H
19 PANEL G FUSES 1-12
20 CONNECTOR BLOCK E-F
21 CONNECTOR BLOCK C-D
22 3-WAY CONNECTOR BLOCK (HF.:—28 VOLT, 19 VOLT AND EARTH)
23 CONNECTOR BLOCK A-B
24 PANEL G FUSES 13-24
25 5-WAY CONNECTOR BLOCK (HF.:—28 VOLT, 19 VOLT, EARTH AND LOW LEVEL RADIO ALT. 28-VOLT)
26 PANEL G FUSES 25-36
27 PANEL G FUSES 37-48
28 PANEL G FUSES TEST LAMP (POST MOD. 2294)
29 PANEL G FUSES 49-54
30 PANEL G
31 FUSE TEST PROBE (POST MOD. 2294)
32 VOLTAGE TRIMMER PANEL 112 VOLT EARTH BLOCK
33 VOLTAGE TRIMMER PANEL 112 VOLT EARTH BOLT
34 VOLTAGE TRIMMER PANEL A.C. EARTH BLOCK
35 VOLTAGE TRIMMER PANEL A.C. EARTH BOLT
36 VOLTAGE TRIMMER PANEL 28-VOLT EARTH BOLT
37 VOLTAGE TRIMMER PANEL 28-VOLT EARTH BLOCK
37A CONNECTOR BLOCK AA (MOD. 2787)
37B CONNECTOR BLOCK AB (MOD. 2787)
37C CONNECTOR BLOCK Z (MOD. 2787)
37D CONNECTOR BLOCK ZB (MOD. 2796)
38 PANEL G FUSES 55-66 (POST MOD. 2647)
38A CONNECTOR BLOCK ZA (MOD. 2796)
39 TYPE 350 INVERTER TORQUE SWITCH BOX
40 TYPE 350 INVERTER NO. 1 TORQUE SWITCH
41 TYPE 350 INVERTER NO. 2 TORQUE SWITCH
42 TYPE 350 INVERTER NO. 3 TORQUE SWITCH
43 AUTO PILOT FUSES 1-6
44 AUTO PILOT TORQUE SWITCH BOX
45 T4 BOMB SIGHT FUSE BOX (POST MOD. 1648)
46 P.R. CAMERA SIGHT SUPPLY CONNECTOR (B/PR MK. 1 AND B/K/PR MK. 1 ONLY)
47 INSTRUMENT INVERTER SUPPRESSOR NO. 3
48 INSTRUMENT INVERTER SUPPRESSOR NO. 2
49 INSTRUMENT INVERTER SUPPRESSOR NO. 1

Key to fig. 7 (Details of Equipment in radio crate (2))

1 CONNECTOR BLOCK J-K
2 CONNECTOR BLOCK X-Y
3 CONNECTOR BLOCK L-M
4 CONNECTOR BLOCK N-P
5 CONNECTOR BLOCK R-S
6 CONNECTOR BLOCK T-U
7 CONNECTOR BLOCK V-W

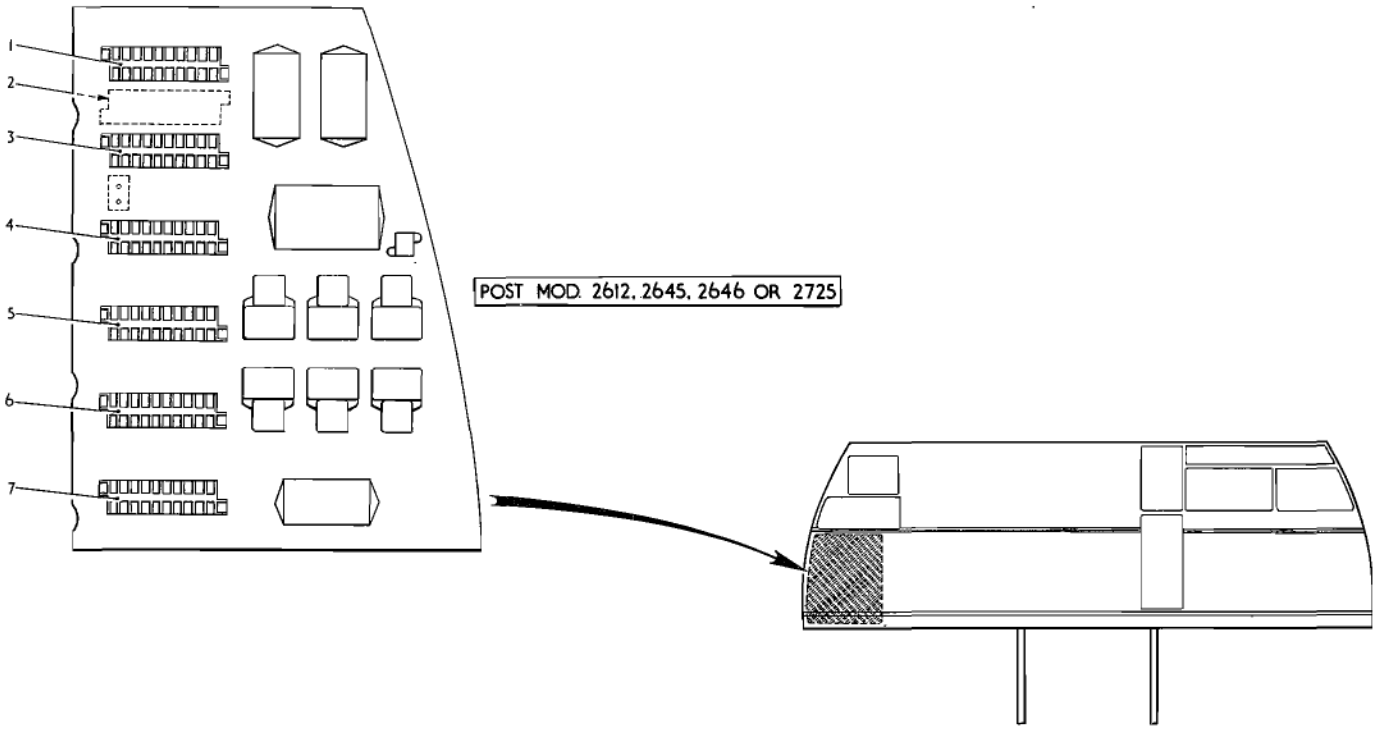

Fig. 7 Details of equipment in radio crate (2)

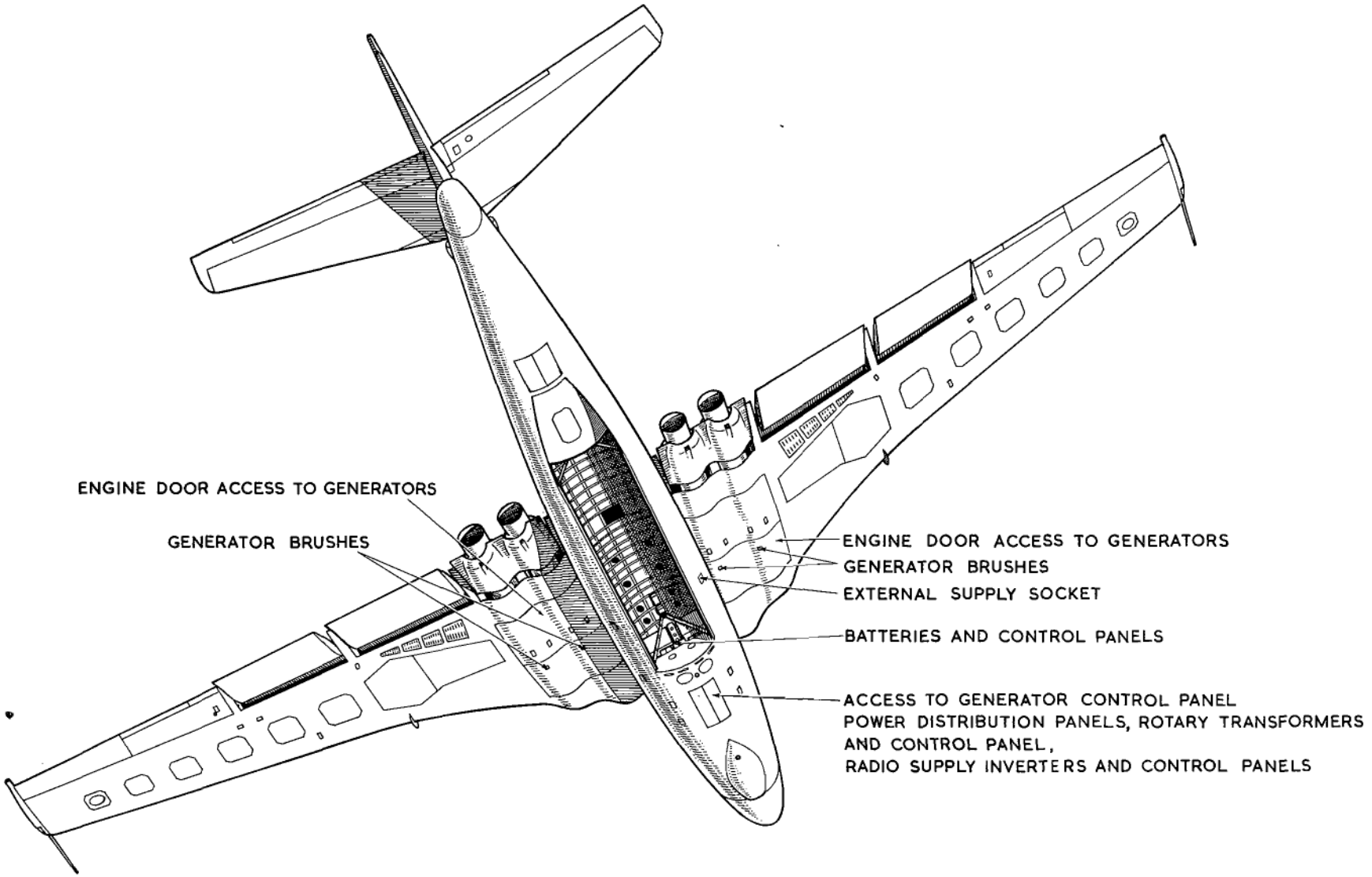

Fig. 8 Access panels

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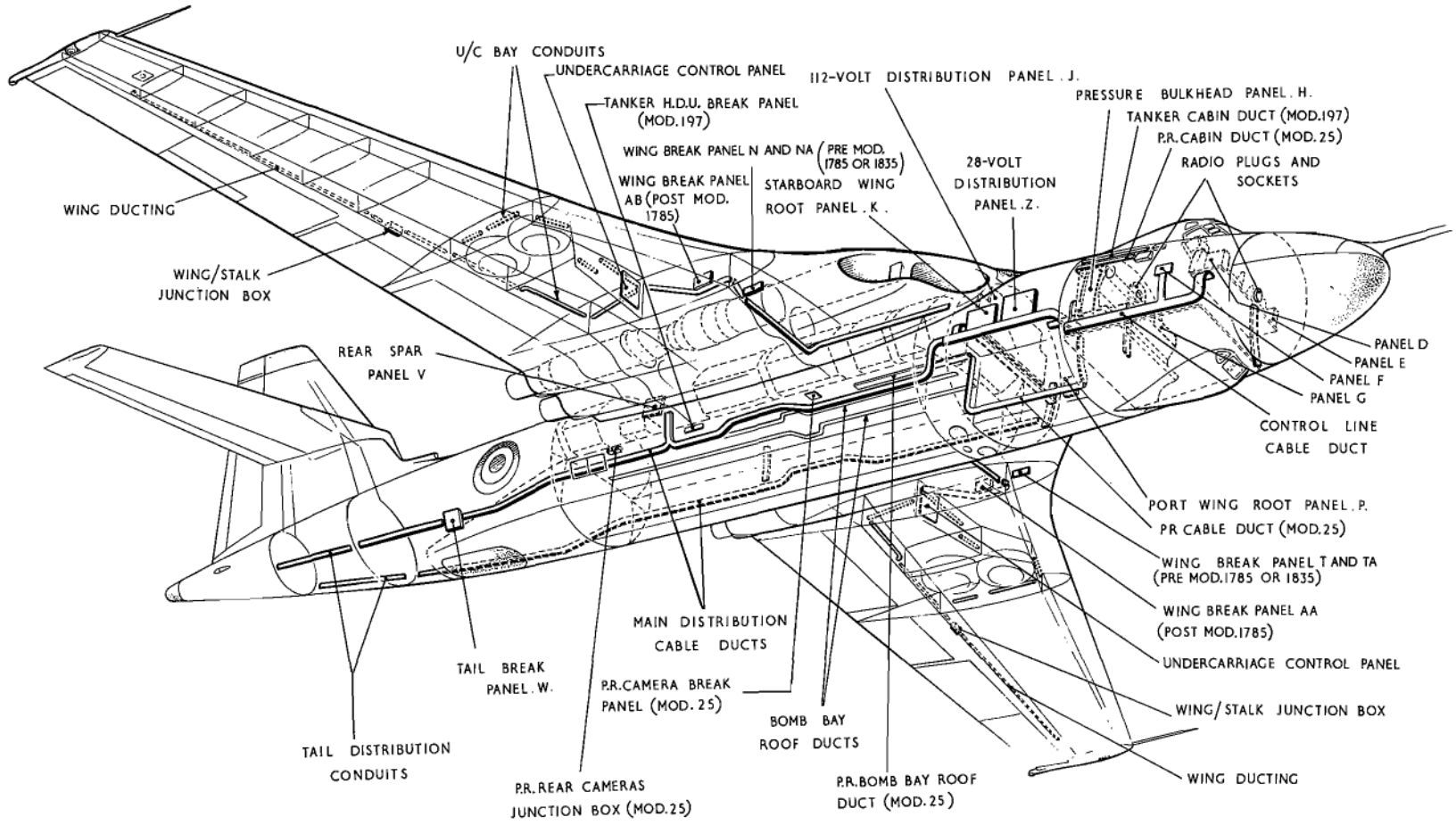

Fig. 9 . Power distribution ducts.

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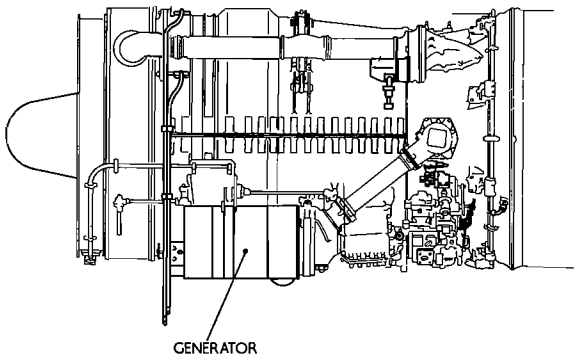

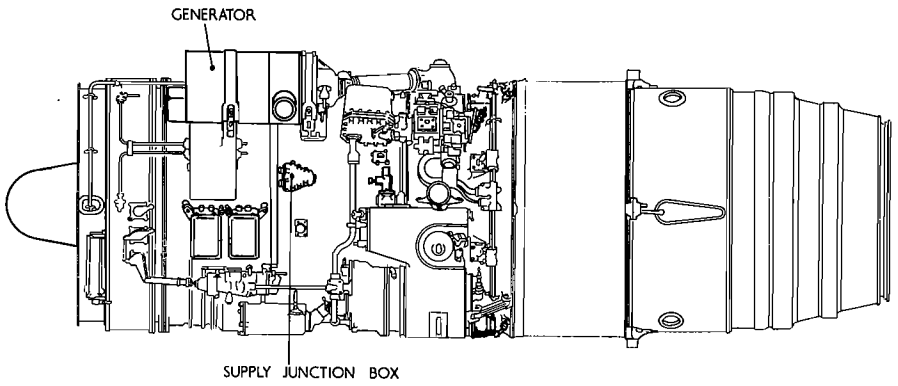

Fig. 10 Equipment on engine

Key to fig. 11 (112-volt control panel J)

1 28-VOLT CONTROL PANEL Z (*fig.* 13 *and* 14)
2 STARBOARD WING ROOT PANEL K
3 STARBOARD GENERATOR PANEL
4 GENERATOR NO. 4 UNDERVOLT RELAY
5 GENERATOR NO. 4 VOLTAGE REGULATOR
6 GENERATOR NO. 4 FIELD THERMAL UNIT
7 GENERATOR NO. 4 MAIN (BUS-BAR) THERMAL UNIT
8 GENERATOR NO. 4 DIFFERENTIAL RELAY
9 GENERATOR NO. 4 FIELD RELAY (PRE-MOD. 2817)
10 GENERATOR NO. 4 CIRCUIT BREAKER
11 GENERATOR NO. 3 UNDERVOLT RELAY
12 GENERATOR NO. 4 AMMETER SHUNT
13 GENERATOR NO. 3 MAIN (BUS-BAR) THERMAL UNIT
14 STARBOARD BUS-BAR PANEL (*fig.* 12 *or* 12*A*)
◀ **14A** GENERATOR NO. 4 ENGAGE RESISTOR (MOD. 2933)
14B GENERATOR NO. 3 ENGAGE RESISTOR (MOD. 2933) ▶
15 GENERATOR NO. 3 DIFFERENTIAL RELAY
15A UPPER GENERATOR CONTROL PANEL FUSES 1-6
16 ROTARY TRANSFORMER NO. 1 START RELAY (PRE-MOD. 733)
17 ROTARY TRANSFORMER HOLD-OFF RELAY
18 ROTARY TRANSFORMER NO. 1 MAIN (BUS-BAR) THERMAL UNIT
19 ROTARY TRANSFORMER NO. 1 MAIN CONTACTOR
20 ROTARY TRANSFORMER NO. 2 START RELAY (PRE-MOD. 733)
20A ROTARY TRANSFORMER HOLD-OFF RELAY NO. 2 (POST MOD. 733)
21 ROTARY TRANSFORMER NO. 2 MAIN (BUS-BAR) THERMAL UNIT
22 ROTARY TRANSFORMER NO. 2 MAIN CONTACTOR
23 ROTARY TRANSFORMER NO. 3 START RELAY (PRE-MOD. 733)
24 ROTARY TRANSFORMER NO. 3 MAIN CONTACTOR
25 ROTARY TRANSFORMER NO. 3 MAIN (BUS-BAR) THERMAL UNIT
26 GENERATOR NO. 4 REVERSE CURRENT FUSE
27 GENERATOR NO. 3 REVERSE CURRENT FUSE
28 GENERATOR NO. 2 REVERSE CURRENT FUSE
29 GENERATOR NO. 1 REVERSE CURRENT FUSE
29A { GENERATOR CRASH CONTACTORS (MOD. 2860)
{ GENERATOR FIELD AND CRASH CONTACTORS (MOD. 2817)
◀ **29B** GENERATOR NO. 2 ENGAGE RESISTOR ▶
30 UPPER GENERATOR PANAL
◀ **30A** GENERATOR NO. 1 ENGAGE RESISTOR ▶
31 GENERATOR NO. 2 MAIN (BUS-BAR) THERMAL UNIT
31A GENERATOR CRASH CONTACTORS RESET SWITCH (POST MOD. 2860, PRE-MOD. 2817)
31B PORT GENERATOR CONTROL PANEL
32 GENERATOR NO. 1 CIRCUIT BREAKER
33 GENERATOR NO. 1 AMMETER SHUNT
34 GENERATOR NO. 1 FIELD RELAY (PRE-MOD. 2817)
35 PORT BUS-BAR PANEL (*fig.* 12 *or* 12*A*)
36 GENERATOR NO. 1 DIFFERENTIAL RELAY
37 GENERATOR NO. 1 MAIN (BUS-BAR) THERMAL UNIT
38 GENERATOR NO. 1 VOLTAGE REGULATOR
39 GENERATOR NO. 1 UNDERVOLT RELAY
40 PORT WING ROOT PANEL P
41 GENERATOR NO. 1 ENGAGE RELAY (CIRCUIT BREAKER INTERLOCK RELAY PRE-MOD. 2933)
42 TYPE 350 INVERTER INSTALLATION (*fig.* 17)
42A TYPE 350 INVERTER CONTACTORS (*fig.* 17)
43 GENERATOR NO. 1 FIELD THERMAL UNIT
44 GENERATOR NO. 2 UNDERVOLT RELAY
45 GENERATOR NO. 1 DIFFERENTIAL RELAY
46 GENERATOR NO. 2 VOLTAGE REGULATOR
47 GENERATOR NO. 2 ENGAGE RELAY (CIRCUIT BREAKER INTERLOCK RELAY PRE-MOD. 2933)
48 GENERATOR NO. 2 AMMETER SHUNT
49 GENERATOR NO. 2 CIRCUIT BREAKER
50 NO. 4 GENERATOR HOLD-OFF RELAY
51 GENERATOR NO. 2 FIELD THERMAL UNIT
52 GENERATOR HOLD-OFF RELAY VOLTAGE DROPPING RESISTANCES
53 GENERATOR NO. 2 FIELD RELAY (PRE-MOD. 2817)
54 NO. 4 GENERATOR HOLD-OFF RELAY
54A FUSE TEST PROBE (MOD. 2294)
55 UPPER GENERATOR CONTROL PANEL
56 FUSES NO'S. 1-12
57 GENERATOR NO. 3 FIELD THERMAL UNIT
58 GENERATOR NO. 3 FIELD RELAY (PRE-MOD. 2817)
59 NOT USED
60 GENERATOR NO. 3 ENGAGE RELAY (CIRCUIT BREAKER INTERLOCK RELAY PRE-MOD. 2933)
61 GENERATOR NO. 3 VOLTAGE REGULATOR
62 GENERATOR NO. 3 AMMETER SHUNT
63 GENERATOR NO. 4 ENGAGE RELAY (CIRCUIT BREAKER INTERLOCK RELAY PRE-MOD. 2933)
64 ROTARY TRANSFORMER NO. 3

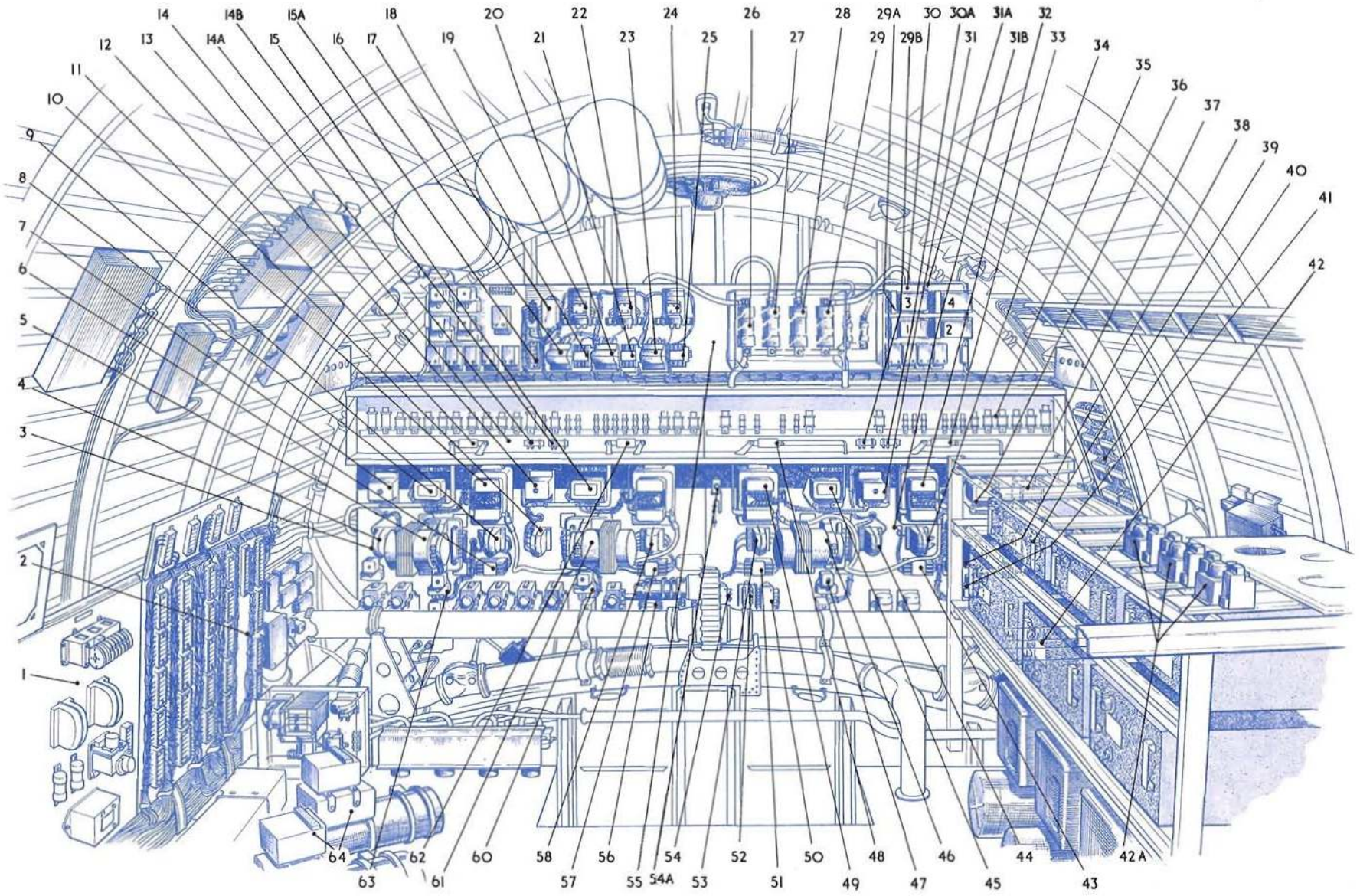

Fig.11 112-Volt control panel J
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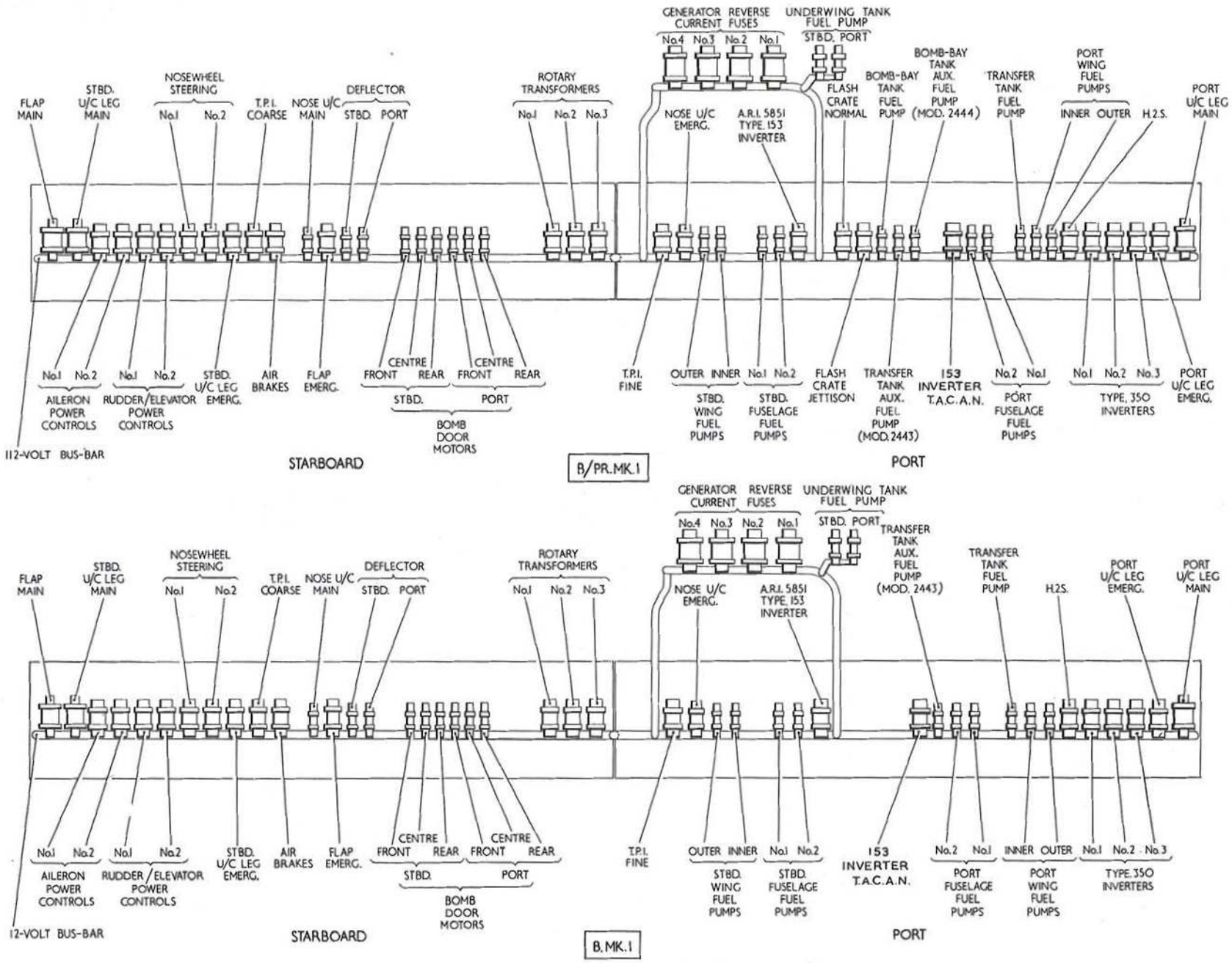

Fig. 12 Arrangement of panel J H.R.C. fuses (I)

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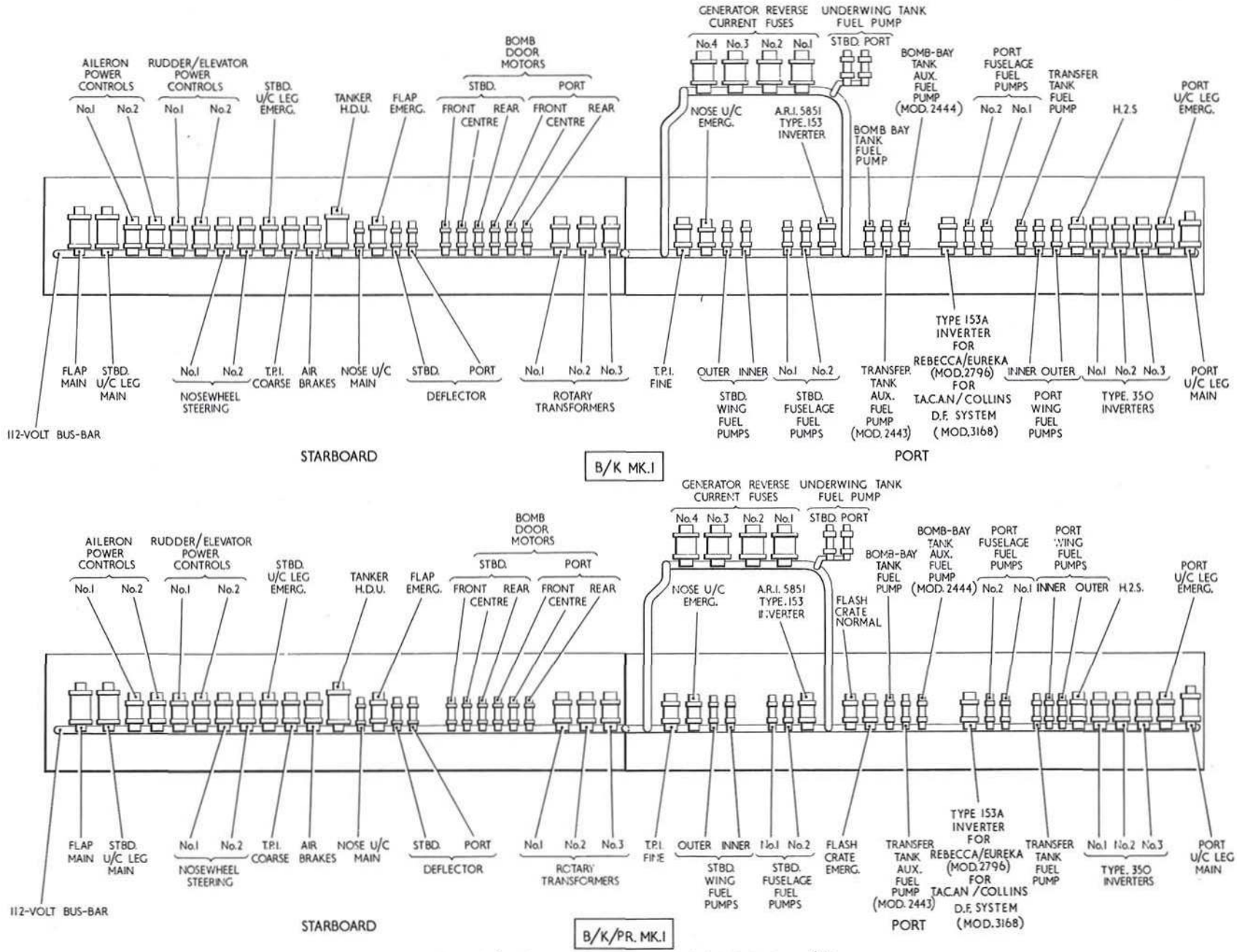

Fig. 12A. Arrangement of panel J H.R.C. fuses (2)

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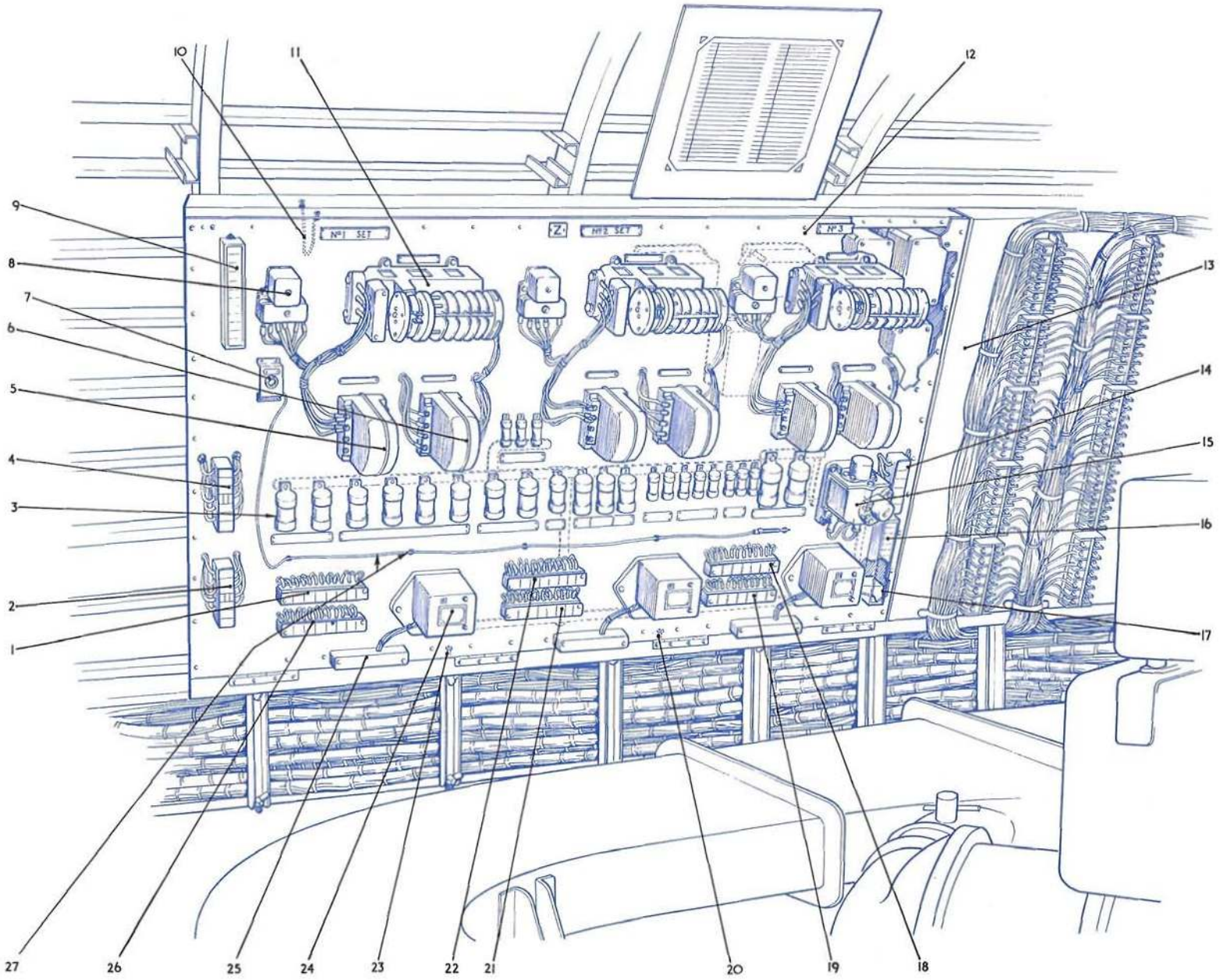

Fig.13. 28-volt control panel Z

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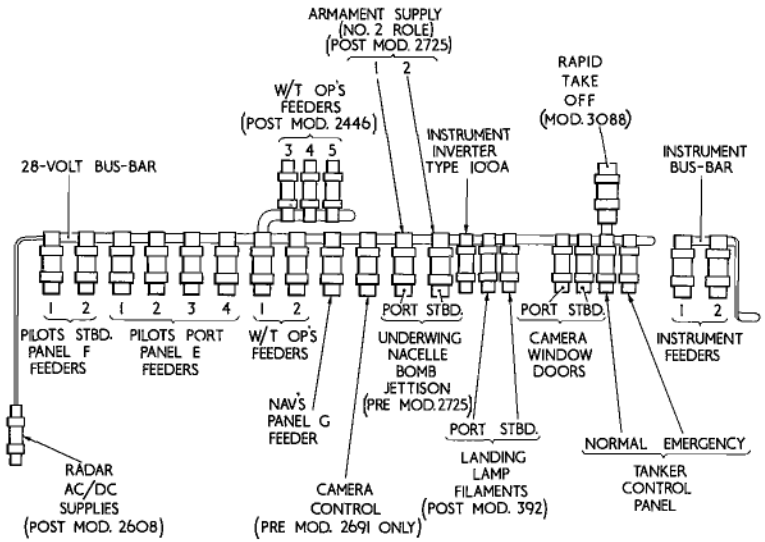
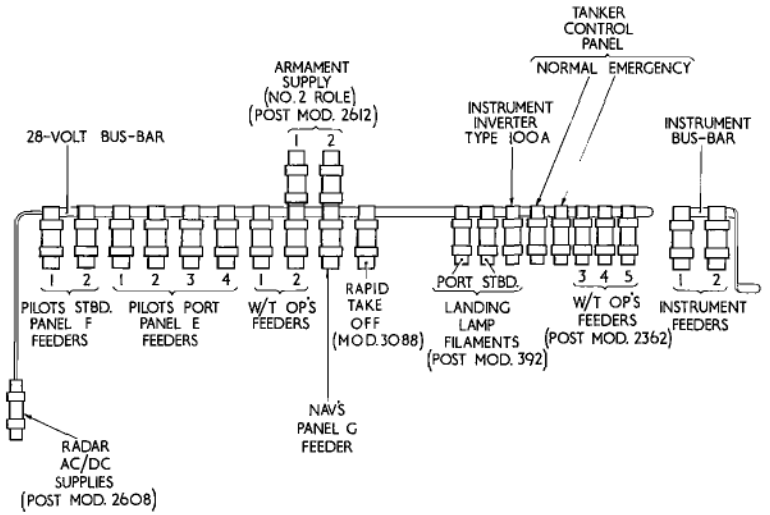
Key to fig. 13 (28-volt control panel Z)

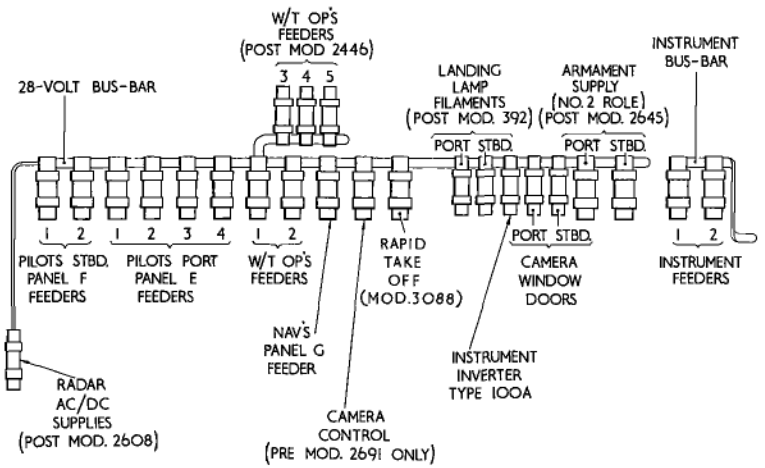
1 FUSES 1-12
2 CONNECTOR BLOCK E-F
3 H.R.C. FUSES (*fig.* 14)
4 CONNECTOR BLOCK A-B
5 UNDERVOLTAGE RELAYS (3) FOR ROTARY TRANSFORMERS
6 AUXILIARY RELAYS (3) FOR ROTARY TRANSFORMERS
7 FUSE TEST LAMP (MOD. 2294)
8 INTERLOCK RELAYS (3) FOR ROTARY TRANSFORMERS
9 FUSES 73-84 (B/PR MK. 1 AND B/K/PR MK. 1 ONLY)
10 BONDING
11 VOLTAGE REGULATORS (3) FOR ROTARY TRANSFORMERS
12 PANEL Z
13 PANEL K
14 CONNECTOR BLOCK C-D
15 FLIGHT INSTRUMENT CONTACTOR
16 FUSES 73-84 FOR B. MK. 1 AND B/K MK. 1 (POST MOD. 2240)
FUSES 85-86 FOR B/PR MK. 1 AND B/K/PR MK. 1 (POST MOD. 2240)
17 HEAVY DUTY CONNECTOR
18 FUSES 25-36
19 FUSES 61-72
20 EARTH BOLT
21 FUSES 49-60
22 FUSES 13-24
23 EARTH BOLT
24 COMBINED DIFFERENTIAL RELAY AND MAIN CIRCUIT BREAKERS (3) FOR ROTARY TRANSFORMERS
25 AMMETER SHUNTS (3) FOR ROTARY TRANSFORMERS
26 FUSES 37-48
27 FUSE TEST PROBE, CABLE AND CABLE CLIPS (MOD. 2294)



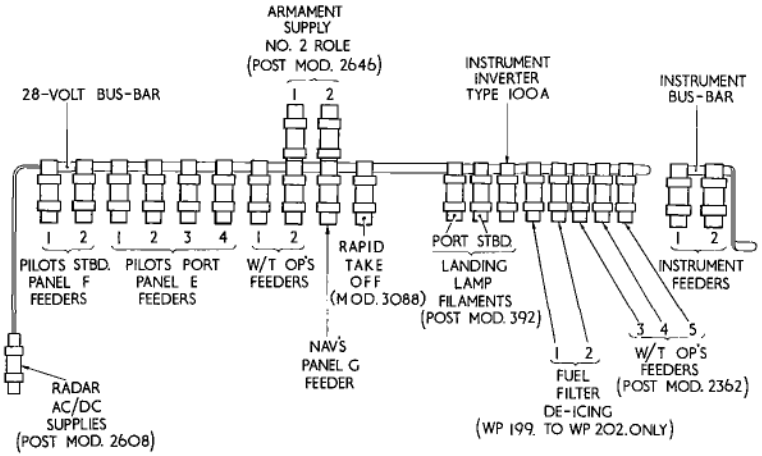
B/K/PR. MK.1



B/K MK.1



B/PR. MK.1



B. MK.1

Fig. 14 Arrangement of panel Z H.R.C. fuses

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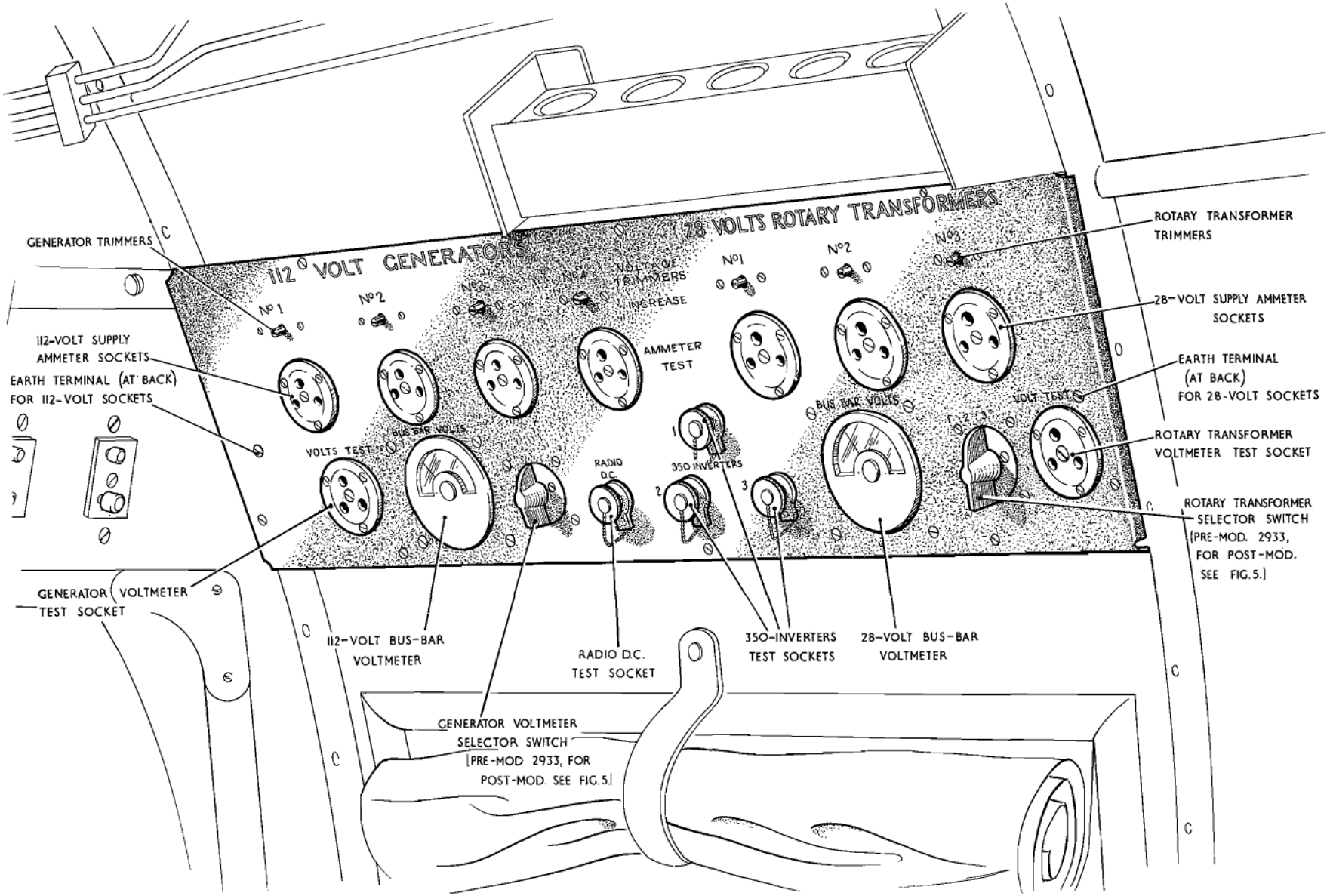

Fig. 15 Voltage trimmer panel

Key to fig. 16 (Equipment in battery compartment)

1 112-VOLT EXTERNAL CONNECTION (ACCESS FROM OUTSIDE THE AIRCRAFT)
2 28-VOLT EXTERNAL CONNECTION (ACCESS FROM OUTSIDE THE AIRCRAFT)
3 96-VOLT FLASH-BACK RELAY
4 CIRCUIT-BREAKER FOR BOMB BAY SERVICING LAMPS
5 ENGINE STARTER H.R.C. FUSE
5A 112-VOLT BATTERY AMMETER SHUNT (POST MOD. 2650)
6 CIRCUIT-BREAKER FOR PORT NO. 1 WINDOW LAUNCHER
7 CIRCUIT-BREAKER FOR STARBOARD NO. 1 WINDOW LAUNCHER
8 FORWARD BOMB BAY CONNECTOR BLOCK F-G
9 FORWARD BOMB BAY CONNECTOR BLOCK D-E
10 FORWARD BOMB BAY CONNECTOR BLOCK B-C
11 FORWARD BOMB BAY CONNECTOR BLOCK A
12 BOMB JETTISON HEAVY DUTY CONNECTOR BLOCK
13 CIRCUIT-BREAKER FOR STARBOARD NO. 2 WINDOW LAUNCHER
14 CIRCUIT-BREAKER FOR PORT NO. 2 WINDOW LAUNCHER
15 ADDITIONAL 24-VOLT BATTERY H.D. CONNECTOR BLOCK (POST MOD. 2650)
15A 28-VOLT BATTERY AMMETER SHUNT (POST MOD. 2650)
16 ESSENTIAL SERVICES FUSE LABEL
17 24-VOLT BATTERY H.D. CONNECTOR BLOCKS
18 FUSES 1-3 ON P.R. CHANGE OF ROLE PANEL
19 112-VOLT FUSES 1-12
20 CIRCUIT-BREAKERS ON P.R. CHANGE OF ROLE PANEL
} P.R. ONLY
20A BOMB JETTISON H.R.C. FUSE (POST MOD. 2472 OR 2484 ONLY)
21 24-VOLT BATTERY RESET RELAY
22 ESSENTIAL SERVICES FUSES 13-24 (POST MOD. 2294—POSITION IF AMENDMENT 661 IS INCORPORATED)
23 CIRCUIT BREAKER FOR HOOD DETONATION
24 24-VOLT BATTERY CONTACTOR
25 24-VOLT FLASH-BACK RELAY
26 24-VOLT BATTERY TROLLEY (SHOWN WITH BATTERY REMOVED)
27 ESSENTIAL SERVICES FUSES 1-12
28 24-VOLT LEAD STOWAGE
29 ESSENTIAL SERVICES FUSES 13-24 (POST MOD. 2259—POSITION IF AMENDMENT 661 IS NOT INCORPORATED)
30 BATTERY TROLLEY LOCKING PINS
31 BATTERY TROLLEY TRACKS
32 96-VOLT BATTERY (4 × 24-VOLT BATTERIES IN SERIES)
33 96-VOLT BATTERY TROLLEY
◀33A BATTERY INSULATION MATS (4-OFF)▶
34 96-VOLT BATTERY LEAD STOWAGE
35 96-VOLT BATTERY CONTACTOR
36 INTERNAL START CONTROL RELAY
37 INTERNAL START 96-VOLT BATTERY CHANGE-OVER RELAY
38 96-VOLT BATTERY RESET RELAY
39 ENGINE STARTER H.R.C. FUSE (POST MOD. 2793)

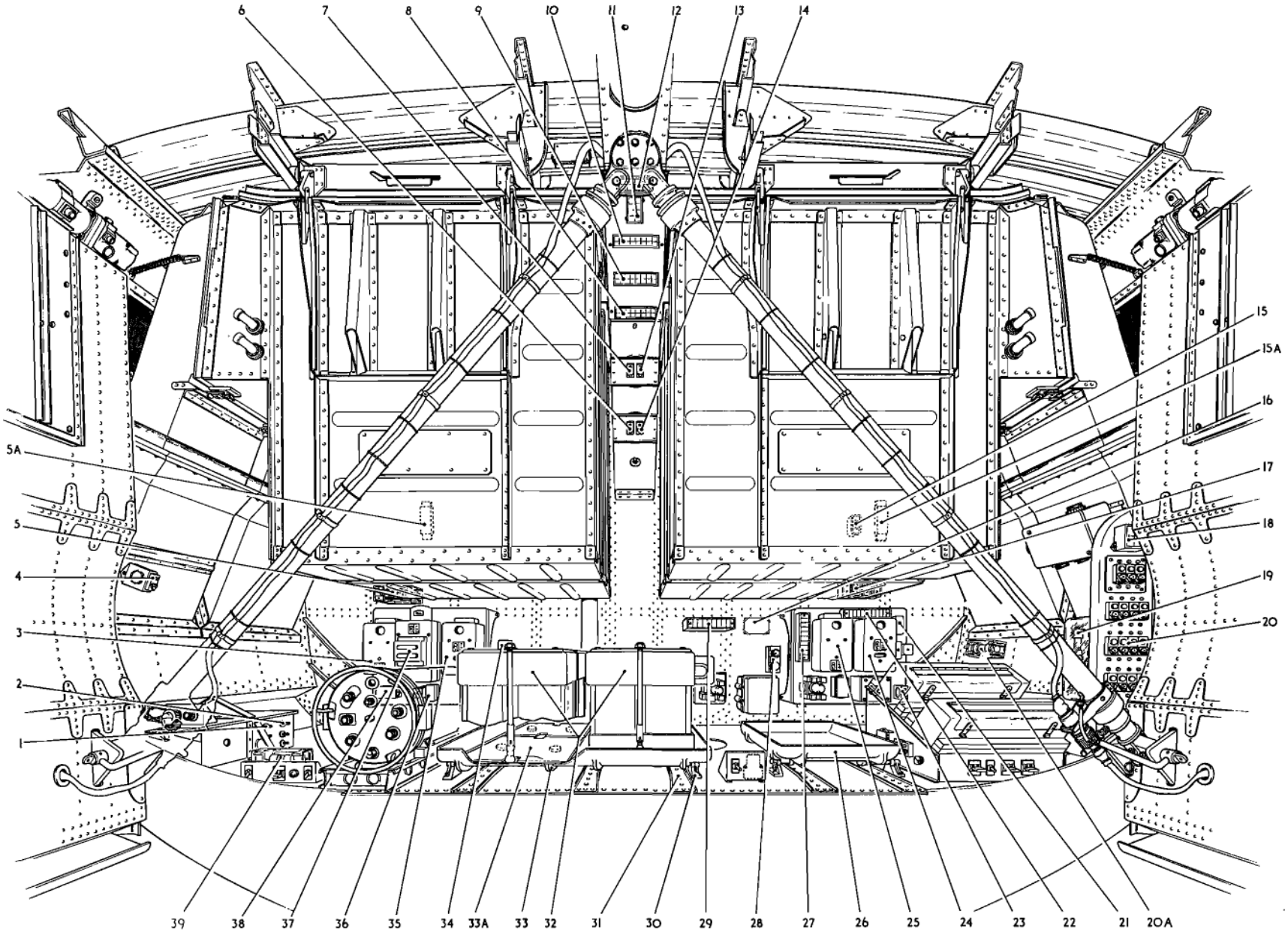

Fig. 16 Equipment in battery compartment

372203 4581 652 5/64 VB 925/1

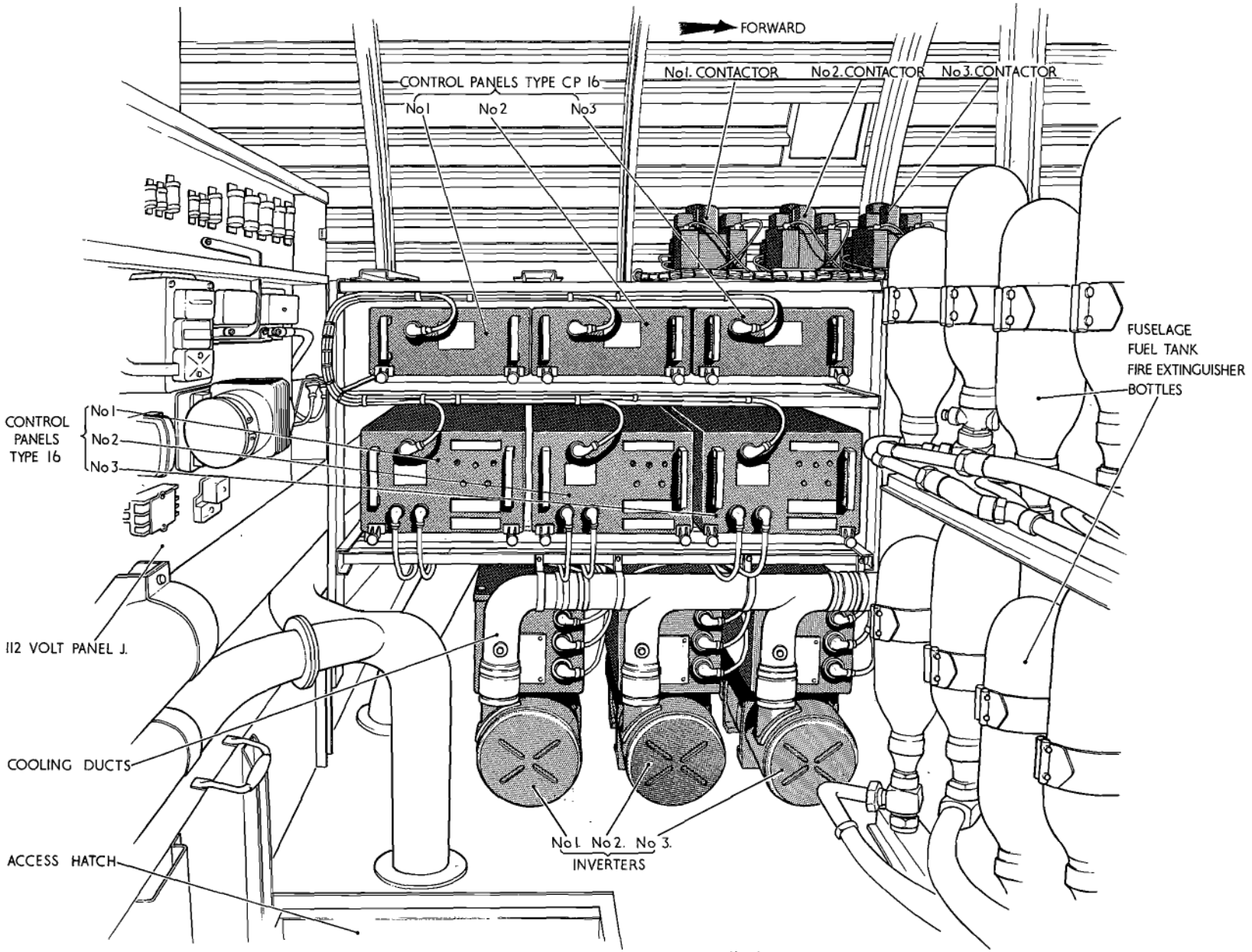

Fig. 17 Type 350 inverter installation

RESTRICTED

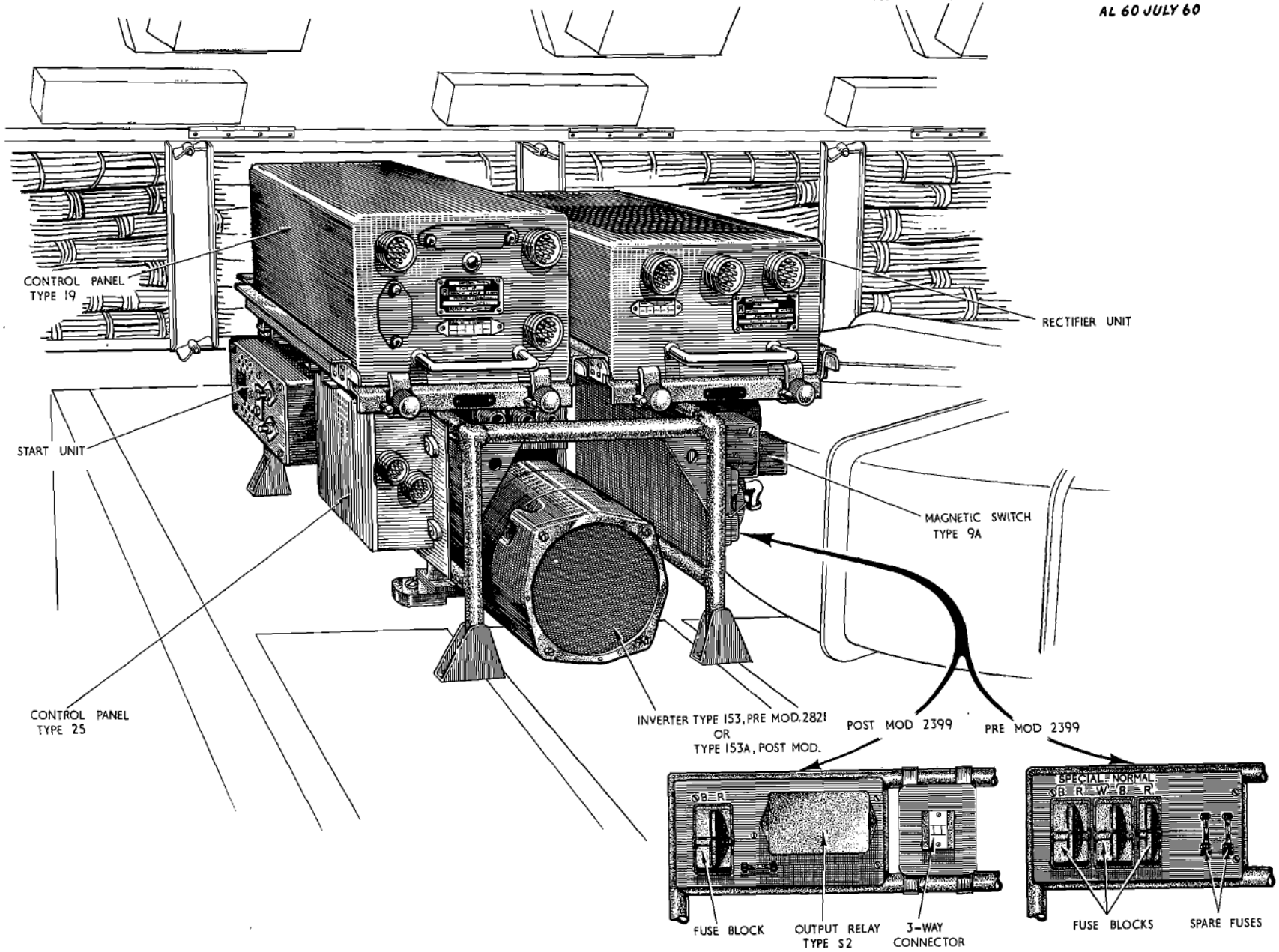

Fig. 18 . Type 153 inverter installation

RESTRICTED

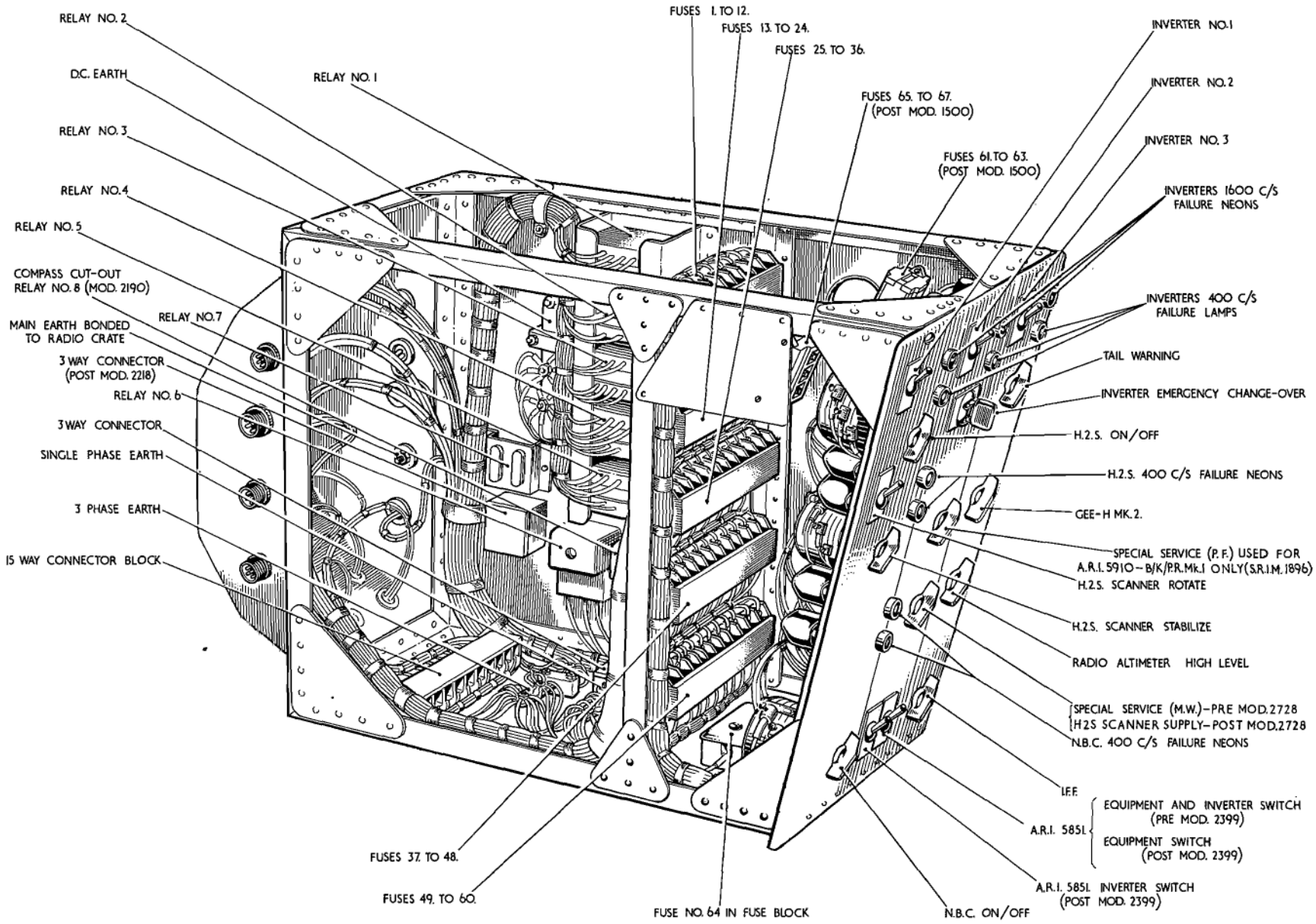

Fig. 19 Radar supplies power distribution box

RESTRICTED

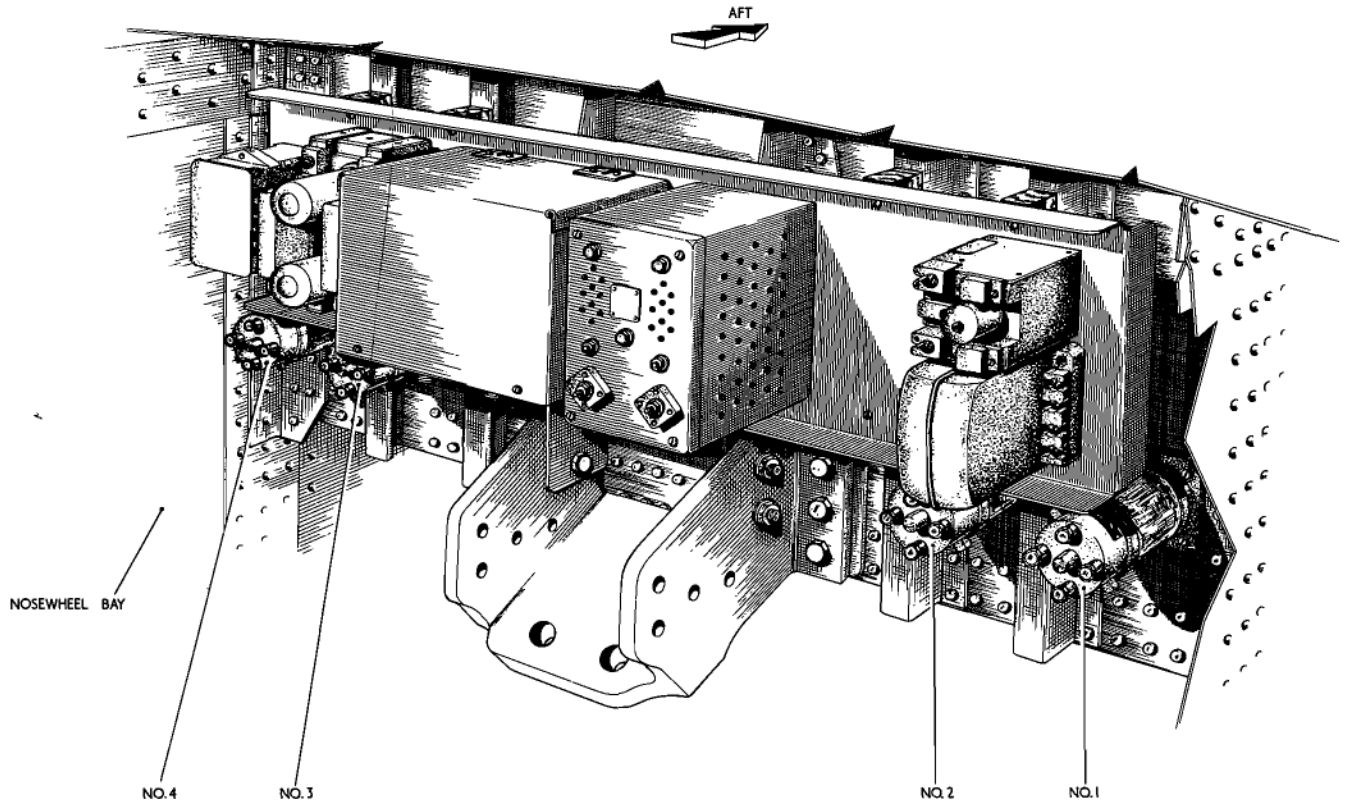

Fig. 20 Generator inertia switches (mod. 2259)

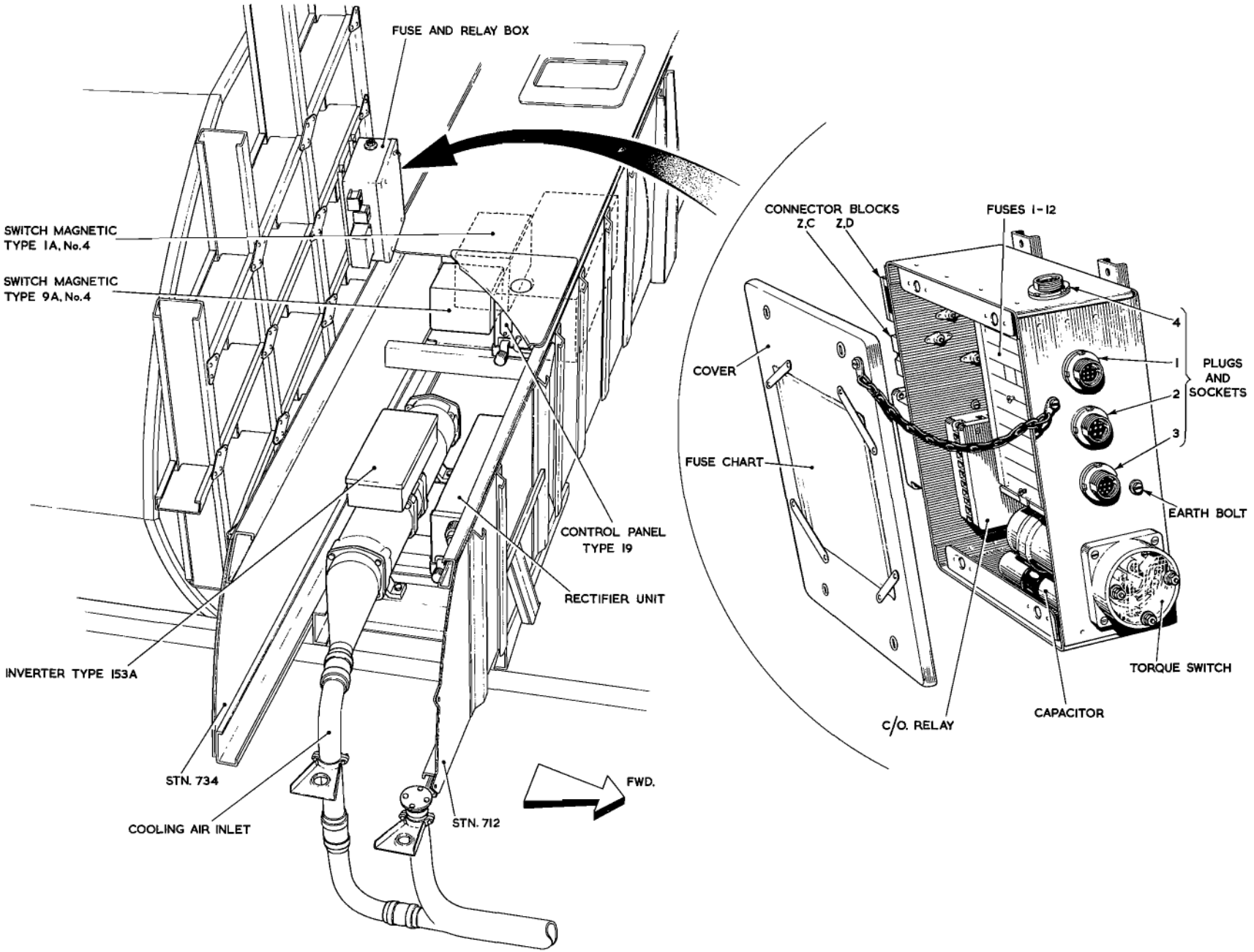

Fig. 21. Type 153A inverter installation for A.R.I. 5922 and A.R.I. 5924 (Mod. 2796) or A.R.I. 18107/4 and /13 (Mod. 3168)

RESTRICTED

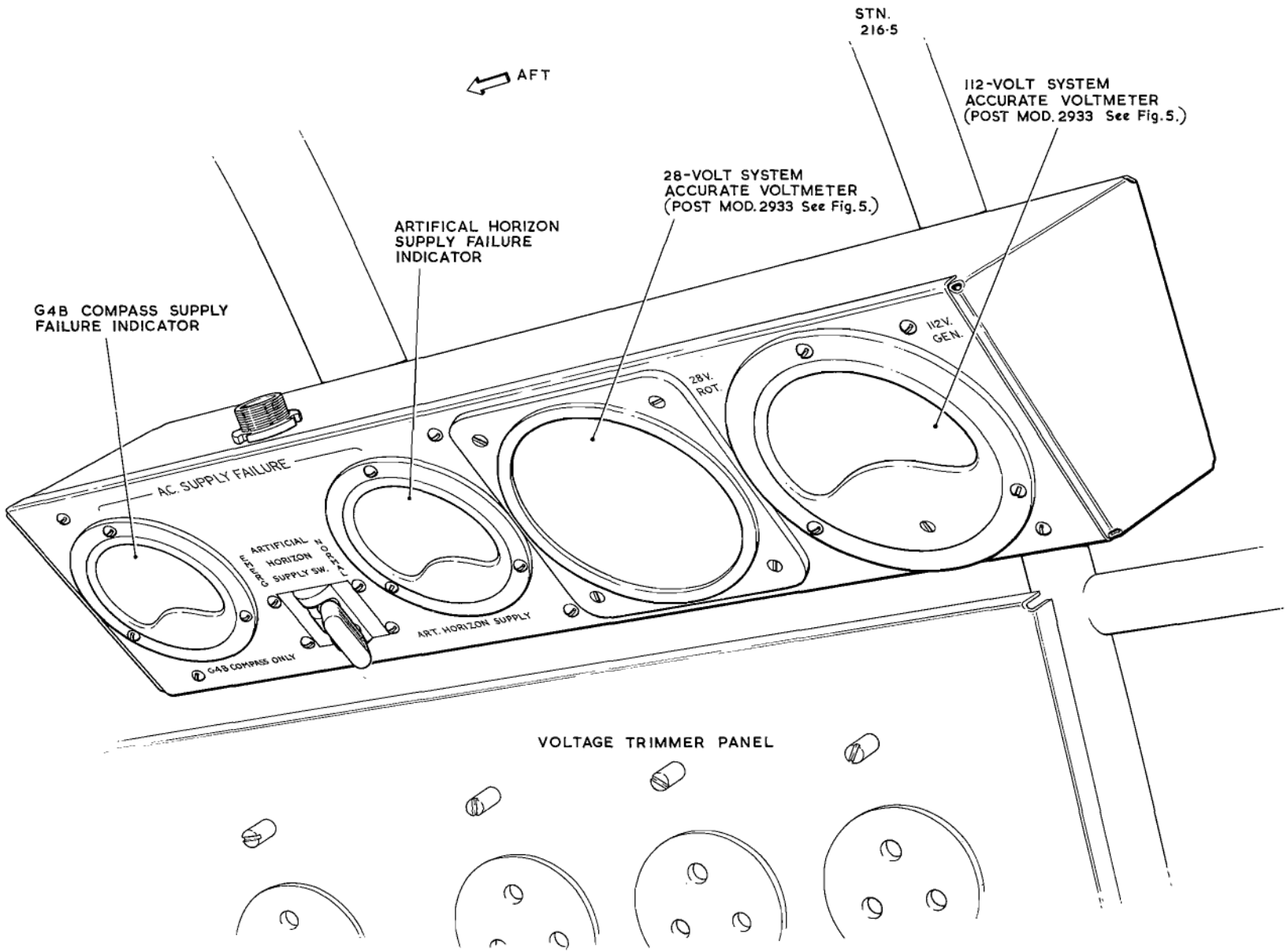

Fig. 22 A.C. manual change-over switch box (Mod. 2982)

2553 281983 625 7/63 P.P. 925-2

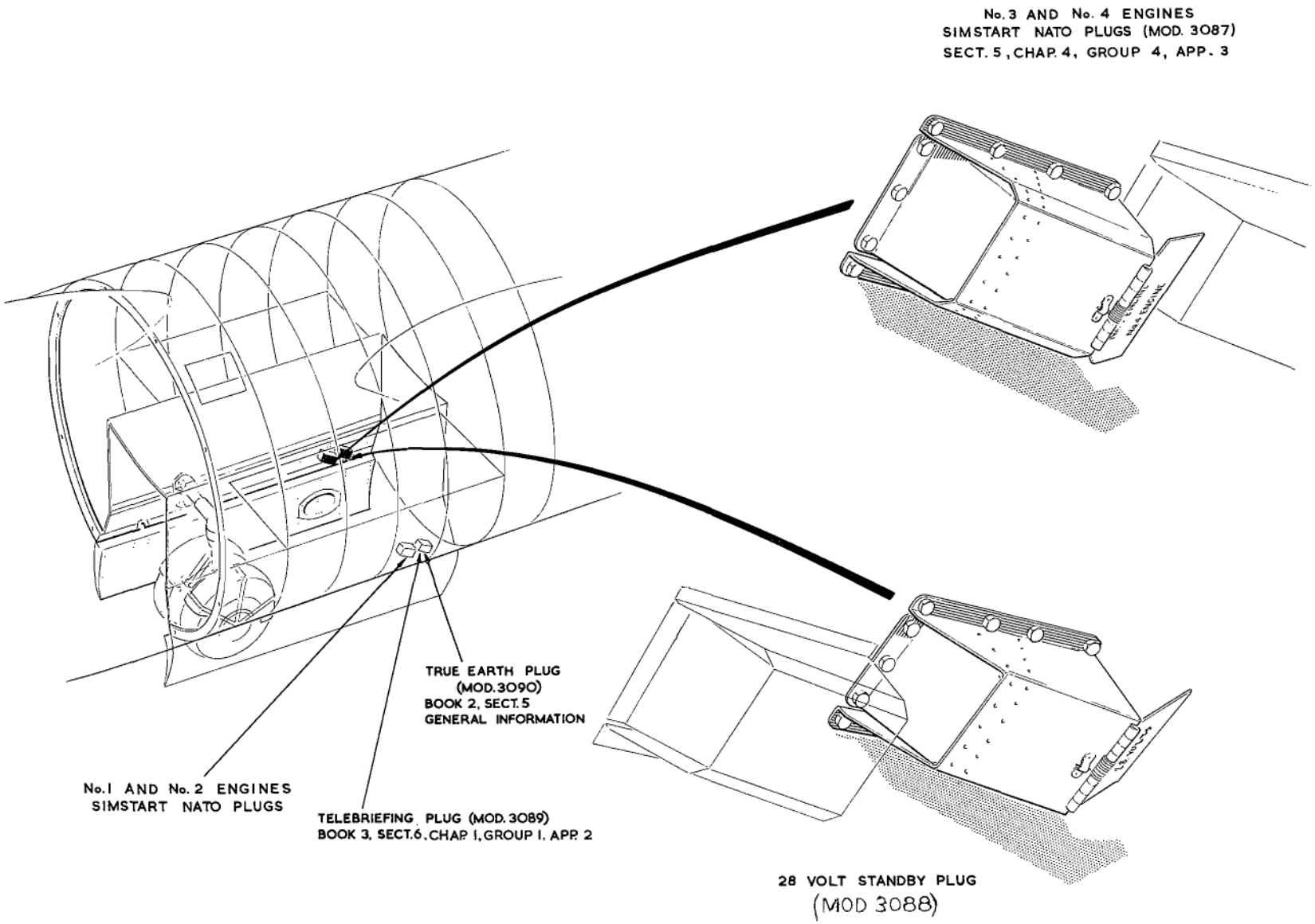

Fig. 23. Details of Simstart quick-release connectors