Fig.

Chapter 2

CONTROLS AND EQUIPMENT AT **CREW STATIONS**

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		Para.			Para.		Para.
tation	 	2	Wireless operator's station		8	Radar operator's station	 14
	 	3	Main panel		9	Galley	 15
station	 	4	Navigator's station		10	Illuminating flare dischargers .	 16
seat	 	5	Navigator's table and panels		77	Photoflash discharger	17
r's station	 	6	Astrodome			Observer's station	18
iary panels	 	7	S.B. operator's station		13	Seats, fittings and trimmings .	 19
			The second s				
			LICT OF ULLUCTRATION	10			

Fig.

Phase 2

LIST OF ILLUSTRATIONS

					Illuminating flare dischargers	14
	W/T operator's station			7		
2	Navigator's station			8		16
	Navigator's panels (1)			9		10
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4						
5	Radar operator's station			12		18
6	Galley equipment			13		
	2 3 4 5 6	 Navigator's station Navigator's panels (1) Navigator's panels (2) S.B. operator's station Radar operator's station 	 Navigator's station Navigator's panels (1) Navigator's panels (2) S.B. operator's station Radar operator's station 	4 S.B. operator's station 5 Radar operator's station	2 Navigator's station 8	2 Navigator's station 8 Starboard observer's station 3 Navigator's panels (1) 9 Port observer's station (looking 3 Navigator's panels (2) 10 forward) 4 S.B. operator's station 11 Port observer's station (looking 5 Radar operator's station 12 aft)

ADDENDA

Addendum 1 - Phase 1 Fig.	Addendum 2 - Phase 2 Fig.
Flight engineer's panel - Phase 1 1Å Starboard observer's station - Phase 1 2A	Flight engineer's panel - Phase 2 1B Crew stations and general equipment -
Port observer's station - Phase 1 3A	Phase 2 2B Flight engineer's auxiliary panel -

1. For convenience of description, controls and equipment are divided between crew stations. Fig.1 provides a general picture of the layout of the complete aircraft interior and the remaining illustrations are concerned with the various crew stations with the exception of those for the pilots which are covered in Chapter 1.

AIR BOMBER'S STATION (fig.2)

This is located in the nose of the 2. aircraft and is provided with windows giving a forward and downward view. A general guide to the location of the controls and equipment is provided by the illustration. The twin air bomber's panels

RESTRICTED

are illustrated in Section 7.

Flare chutes

... 3B

3. These are described and illustrated in Sect.7 and are not shown in the illustra-The stores for which they are tion. provided are carried in multiple strap stowages, at each side of the nose.

.

Air bomber's sta Flare chutes ... Front gunner's s Front gunner's s Flight engineer' Main and auxilia

	Fig.
Crew stations and general equipment	1
Air bomber's and front gunner's	
stations (1)	2
Air bomber's and front gunner's	
stations (2)	3
Flight engineer's station	4
Flight engineer's main panel	5
Flight engineer's auxiliary panel	6

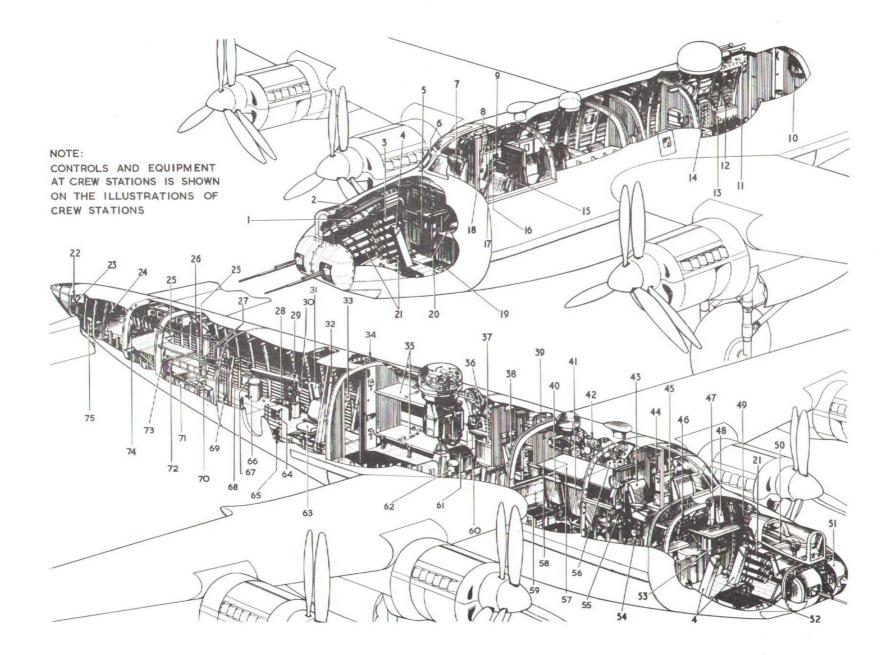


Fig.1. Crew stations and general equipment

A.P.4267B, Vol.1, Book 1, Sect.1, Chap.2 A.L.131, July 62

KEY TO FIG.1

1.	NO.1 HEATER
2.	AMMUNITION SYSTEM (port and
	starboard)
3.	MARINE MARKER STOWAGES
4.	FLARE CHUTE
5.	PRE-SELECTOR PANEL
6.	WINDSCREEN WIPER
7.	SECOND PILOT'S SEAT
8.	CONTROL BOX IN CANOPY
9.	FLIGHT ENGINEER'S SEAT
10.	FLAME FLOAT STOWAGES
11.	SIGNAL DISCHARGER CONTROL
	PANEL
12.	SIGNAL DISCHARGERS (4)
13.	EMPTY CARTRIDGE STOWAGE BAG
14.	ILLUMINATING CARTRIDGE STOW-
	AGE (169 cartridges)
14. 15.	
	AGE (169 cartridges)
15.	AGE (169 cartridges) FIRST PILOT'S SEAT
15. 16.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER
15. 16. 17.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGNAL PISTOL CARTRIDGE STOWAGE
15. 16. 17.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGNAL PISTOL CARTRIDGE STOWAGE WINDSCREEN GLYCOL TANK
15. 16. 17. 18.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGNAL PISTOL CARTRIDGE STOWAGE
15. 16. 17. 18. 19.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGN AL PISTOL CARTRIDGE STOWAGE WINDSCREEN GLYCOL TANK PILOT'S FLOOR SPECIAL STORES STOWAGES
15. 16. 17. 18. 19. 20.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGN AL PISTOL CARTRIDGE STOWAGE WIN DSCREEN GLYCOL TANK PILOT'S FLOOR
15. 16. 17. 18. 19. 20.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGN AL PISTOL CARTRIDGE STOWAGE WINDSCREEN GLYCOL TANK PILOT'S FLOOR SPECIAL STORES STOWAGES
15. 16. 17. 18. 19. 20. 21.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGNAL PISTOL CARTRIDGE STOWAGE WINDSCREEN GLYCOL TANK PILOT'S FLOOR SPECIAL STORES STOWAGES (refer to text)
15. 16. 17. 18. 19. 20. 21. 22.	AGE (169 cartridges) FIRST PILOT'S SEAT DRIFT RECORDER AIR THERMOMETER SIGNAL PISTOL CARTRIDGE STOWAGE WINDSCREEN GLYCOL TANK PILOT'S FLOOR SPECIAL STORES STOWAGES (refer to text) WANDER LIGHT

26. 27. 28.	CONTROL GUARD RAIL RUDDER LOCKING SYSTEM FLYING CONTROLS NO.3 HEATER FLYING CONTROL GUARD
31.	MOUNTING FOR B.3 DRIFT METER OBSERVER'S SEAT (port) RETRACTABLE SCANNER
34. 35. 36.	FLARE CHUTE (rear) PHOTOFLASH DISCHARGER CREW REST BUNKS NO.2 HEATER GALLEY
 39. 40. 41. 42. 43. 44. 45. 46. 47. 	RADAR OPE RATOR'S SEAT SEXTANT STOWAGE NAVIGATOR'S RISING SEAT ROUTINE NAVIGATOR'S SEAT RADAR AND A.D.R.I.S. EQUIPMENT WIRELESS OPERATOR'S SEAT WIRELESS OPERATOR'S STATION PILOT'S INSTRUMENT PANEL RUDDER CONTROLS CONTROL COLUMN ENGINE CONTROL PEDESTAL AMMUNITION BOX (port and starboard)
50. 51.	FRONT GUNNER'S SEAT GUN MOUNTING AIR BOMBER'S CUSHIONS

- 53. A.C. SUPPLIES PANEL
- 54. TRIM CONTROL BOX
- ALDIS LAMP STOWAGE (aft of second pilot's seat)
- 56. NAVIGATOR'S PANEL
- 57. NAVIGATOR'S PLOTTING TABLE
- 58. ASTRO-COMPASS MOUNTINGS
- 59. STEP
- 60. VACUUM FLASK STOWAGES
- 61. TURRET STEP
- 62. REFUSE BIN
- 63. OBSERVER'S SEAT (starboard)
- 64. BINOCULARS STOWAGE
- 65. HAND CAMERA STOWAGE
- 66. ELSAN
- NOTE ...

Refer to fig.18 for the effect of Mod.359.

- 67. FIRST-AID KIT
- 68. STOWAGES FOR CONTROL LOCKING PINS
- 69. DIPSTICK STOWAGES
- 70. EMERGENCY PACK
- 71. NITROGEN BOTTLES
- 72. ACCESS LADDER
- 73. HANDRAIL
- 74. VERTICAL CAME RA COMPARTMENT

75. OBLIQUE CAMERA COMPARTMENT NOTE...

Controls and equipment at crew stations are shown on the illustrations of crew and panels.

F.S./2

•

FRONT GUNNER'S STATION (fig.3)

4. A Type N front gun mounting is installed in the nose above the forward portion of the air bomber's station. The main controls are covered by the illustration and reference should be made to A.P.2796N, Vol.1 and 5, for a detailed description of the mounting.

Front gunner's seat (Sect.3, Chap.16)

5. This is shown in both fig.2 and 3 and is fitted with a swivelling and sliding mechanism controlled by a handle which projects from under the seat base. When this handle is right forward, relative to the individual occupying the seat, the seat is locked; when it is pulled partially back, the seat is free to slide and when the handle is pulled right back, the seat is free to rotate.

FLIGHT ENGINEER'S STATION (fig.4)

6. A table with a hinged flap, which provides access to a recess below the table top, is secured to the bulkhead aft of the second pilot's station. On this bulkhead above the table is the main instrument and control panel and at the side is the auxiliary panel. The seat, which swivels on a pedestal, is provided with a locking handle. This is illustrated in Sect.3, Chap.16.

Main and auxiliary panels

7. Refer to fig.5 and 6 and their associated keys.

WIRELESS OPERATOR'S STATION (fig.7)

8. This is situated behind the bulkhead aft of the first pilot's station. A signal pistol, which is not shown in the illustration, is stowed in a holder secured to the floor under the seat. A firing adapter, into which the pistol can be inserted, is fitted to the fuselage roof over the flight engineer's seat.

Main panel

9. Mounted on this panel are the I.F.F. control units and the equipment is mounted between formers 16 and 18 as described in Book 2, Sect.6, Chap.1.

NAVIGATOR'S STATION (fig.8)

10. Three seats are provided at this station, two being together on a common base with independent rising and falling seat backs controlled each by a handle at the side of the associated seat. The third seat is fitted to a base which can be raised or lowered. In the high position it is used as a platform to give access to the astrodome. These seats are described and illustrated in Sect.3. Chap.16.

Aircraft with Mod.674 embodied have the navigator's swinging seat replaced by a single swivelling seat as shown in Sect.3, Chap.16, fig.11.

Navigator's table and panels

11. The construction of the table is illustrated in Sect.3, Chap.16. The panels are illustrated in fig.9 and 10 with the equipment on the table together with the instruments, A.D.R.I.S. and radar equipment, described in Book 2, Sect.5, and 6 off this Volume.

Astrodome

12. An intercom. callbox and mic/tel, socket are located immediately aft of the astrodome and an astro-compass mounting bar can be fitted towards either side of the dome. Two mounting spigots are provided on the bar to enable four different mounting positions to be utilised for the instrument. When the instrument is not in use, it is stowed on a mounting spigot secured to the navigator's top shelf level with the dome. At the top of the dome is a swivelling lug for supporting a sextant.

S.B. OPERATOR'S STATION (fig.11) 13. The navigator's table extends aft over the front spar, the extended position incorporating a hinged flap to allow entry to the operator's seat. The flap also allows the seat to be slid further towards the table when the crash stations aft of the spar are to be used. The controls on the navigator's panel opposite this station are illustrated in fig.9.

RADAR OPERATOR'S STATION (fig.12)

14. Located behind a bulkhead at the aft end of the S.B. operator's station is a table above which is mounted A.S.V. radar equipment. The controls for the retractable scanner are mounted on a panel at the port end of the lower shelf above the table.

GALLEY (fig.13)

15. The galley equipment is situated aft of a bulkhead behind the radar operator's station. All controls and facilities provided are shown in the illustration.

ILLUMINATING FLARE DISCHARGERS (fig.14)

16. Four six-barrel 1.75 in. signal cartridge dischargers are fitted, pointing in an upward and outward direction, to the starboard side of the fuselage between formers 20 and 22. A control panel and cartridge stowage are shown in the illustration. Details of the control panel are to be found in Book 2, Sect.7, Chap.1 of this Volume.

NOTE . . .

The cartridge stowage accommodates 169 cartridges.

PHOTOFLASH DISCHARGER (fig.15)

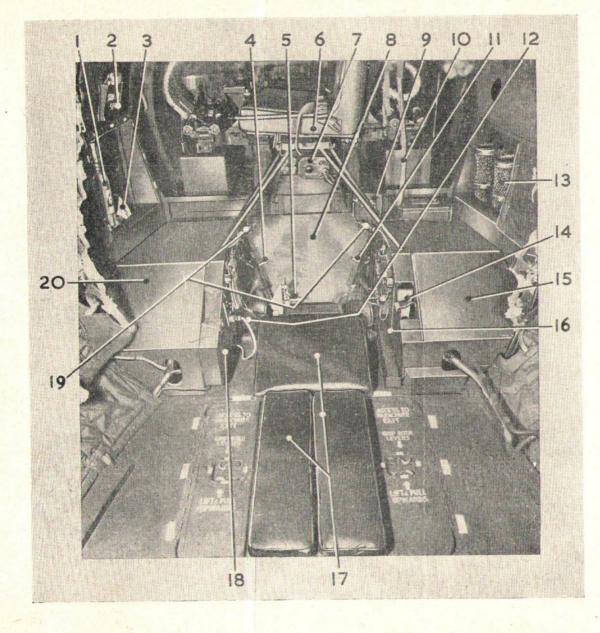
17. In the fuselage roof, immediately aft of former 22 and to port centre, is a single six-barrel 1.75 in. signal cartridge discharger. This is controlled in conjunction with the signal dischargers mentioned in the previous paragraph.

OBSERVER'S STATIONS (fig.17, 18 and 19)

18. Three stations are located in the fuselage, one on the starboard side at formers 25 and 26, another on the port side at formers 27 and 28 and one at the extreme end of the fuselage rear section. Seats are provided at the two beam stations and body cushions at the aft station. With the embodiment of Mod.382, sockets for a signalling lamp lead plug are fitted to the roof, one for the port observer at former 27, and another for the starboard observer at former 26. The equipment at each station is detailed in the keys to the illustrations.

SEATS, FITTINGS AND TRIMMINGS 19. These are described in Sect.3, Chap.16 of this Volume





- I FIRE EXTINGUISHER
- 2 SUN BLIND STOWAGE (GUNNER'S CANOPY)
- 3 GUN COCKING HANDLE (GUNNER), ALSO BREECH STOPPAGE AND GUN ELEVATING LEVER IN ADJACENT STOWAGES
- 4 PORT STOP FOR WINDSCREEN WIPER
- 5 BOMB-SIGHT MOUNTING
- 6 GUNNER'S SEAT
- 7 BOMB-SIGHT LIGHTING CONTROL PANEL
- 8 AIR BOMBER'S WINDOW
- 9 OXYGEN CUT-OFF POINT AND FLOW INDICATOR
- 10 OXYGEN TUBE
- II STARBOARD STOP FOR WINDSCREEN WIPER
- 12 AIR BOMBER'S ELBOW CUSHIONS
- 13 STOWAGES FOR TWO PORTABLE OXYGEN SETS
- 14 STOWAGE FOR BOMB DISTRIBUTOR COVER
- 15 STARBOARD EMPTY CARTRIDGE BOX
- 16 AIR BOMBER S STARBOARD PANEL
- 17 AIR BOMBER'S BODY CUSHIONS
- 18 AIR BOMBER'S PORT PANEL
- 19 PANEL LAMP
- 20 PORT EMPTY CARTRIDGE BOX

Fig. 2. Air bomber's and front gunner's stations-I

- I DIMMER SWITCH-CONTROLS FOR ITEM 5
- 2 GUN FIRING BUTTON
- 3 RED WARNING LIGHT-INDICATES POWER SWITCH IS ON
- 4 GUN SIGHT
- 5 PANEL LAMP
- 6 GUN SIGHT DIMMER SWITCH
- 7 POWER SUPPLY SWITCHES L.H.-OFF R.H.-ON
- B GUN MASTER SWITCH Forward—FIRE Back—SAFE
- 9 CAMERA SWITCH Forward—ON Back—OFF
- 10 OXYGEN CUT-OFF VALVE AND FLOW INDICATOR
- USE EXTERNAL POWER SUPPLY FOR GROUND TEST UNLESS ENGINE GENERATOR IS CHARGING
- 12 WARNING LABEL :---ELECTRIC MOTOR MUST BE RUNNING BEFORE MOVING CONTROL HANDLE
- 13 ELEVATION LEVER Engaged (up)/Free ALSO AZIMUTH LEVER Free (up)/Engaged
- 14 MANUAL ELEVATION GEAR Operated by item 13
- 15 MANUAL GEAR OPERATED BY RATCHET LEVER Refer item 3, fig. 2
- 16 PORT GUN MOUNTING CRADLE
- 17 EMERGENCY CALL SWITCH-TO PILOT
- 18 GUN CONTROL HANDLE (refer to 12)
- 19 INTERCOMM. CONTROL UNIT
- 20 MIC./TEL. SOCKET

RESTRICTED

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REFER ALSO TO FIG. 2

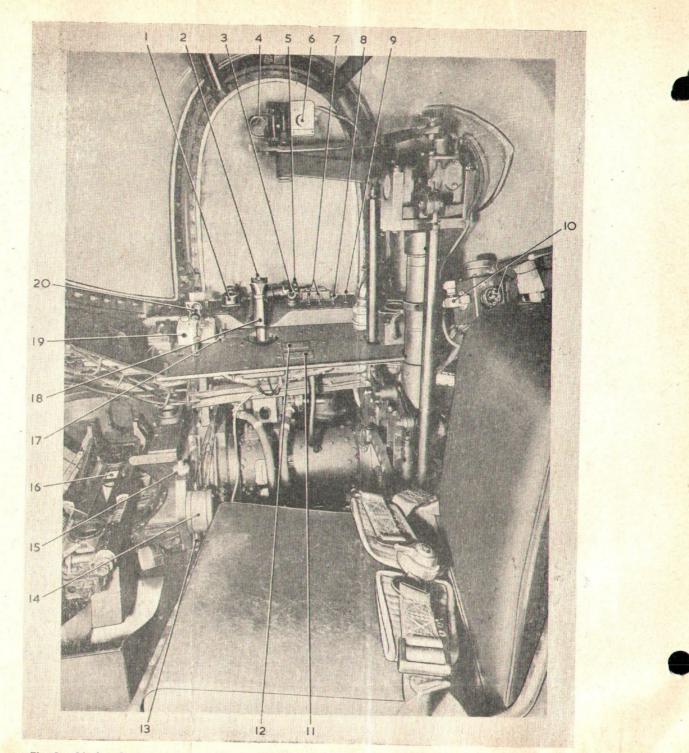
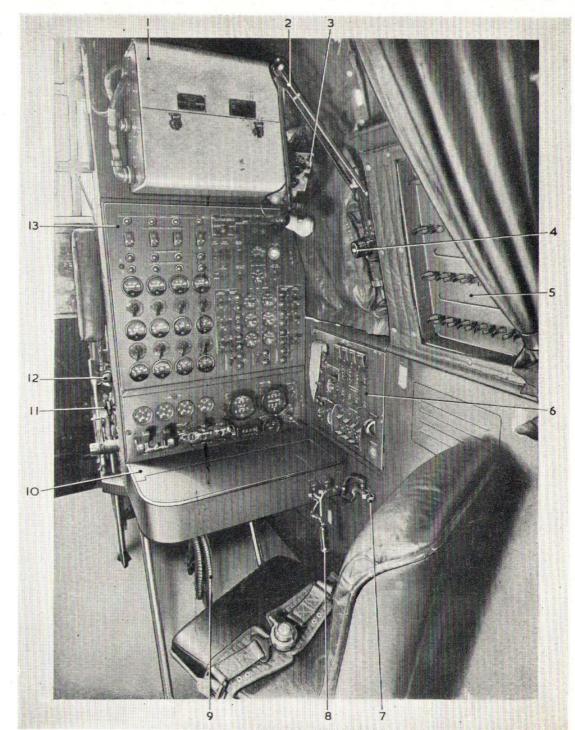
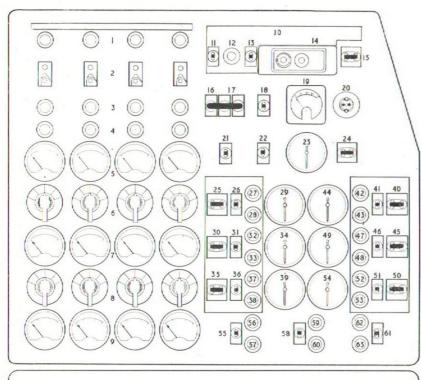


Fig. 3. Air bomber's and front gunner's stations-2



- 2 ANGLEPOISE LAMP
- 3 INTER-COM. STATION BOX
- 4 ANGLEPOISE LAMP DIMMER-SWITCH
- SIGNAL CARTRIDGE STOWAGE
- 6 AUXILIARY PANEL
- 7 OXYGEN CUT-OFF POINT
- 8 MIC./TEL. SOCKET
- 9 OXYGEN TUBE
- 10 TABLE WITH HINGE FLAP
- II OXYGEN REGULATOR
 - In aircraft embodying Mod. 484, the regulator is located at the top of the forward face of the flight engineer's bulkhead.
- 12 LAMP FOR OXYGEN REGULATOR
- 13 MAIN PANEL





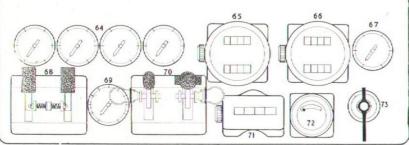


Fig. 5. Flight engineer's main panel

ELECTRICAL SYSTEM

- I GENERATOR FAILURE INDICATORS (Left to right, No. 1, 2, 3 and 4)
- 2 GENERATOR FIELD CIRCUIT BREAKERS (Left to right, No. 1, 2, 3 and 4)
- 10 SUPPLY ELECTRICALLY DRIVEN FLIGHT INSTRUMENTS sub panel :---
- II Switch Up-A.S.V. GYRO TEST & EMERG.
 - Down-NORMAL
- 12 Power failure indicator
- 13 Switch
 - Up-EMERG, down-NORMAL
- 14 RESET RELAY SWITCH—SWITCH OF WHEN ENGINES STATIONARY
- 15 CONVERTER switch Up-ON
- 18 GALLEY ISOLATION SWITCH (Spring-loaded to "galley ON ")
- 19 Voltmeter
- 20 FUEL PUMP TEST socket

ENGINE CONTROLS AND INDICATORS

- (Left to right No. 1, 2, 3 and 4)
- 3 Supercharger indicators
- 4 MASTER ENGINE COCK INDICATORS
- 5 CHANGE temperature indicators
- 6 CARBURETTOR AIR-INTAKE controls (AUTO, COLD, STOP & ON)
- 7 RADiator temperature indicators
- 8 RADiator FLAP CONTROLS (AUTO, OPEN, STOP & CLOSE)
- 9 OIL temperature indicators
- Note.-Following items single only
- 16 SUPERCHARGER switch Up-FS, down-MS
- 17 WATER/METHANOL switch
- 21 AIR CLEANER switch Up-CLEAN, down-NORMAL

FUEL SYSTEM

- Note.-All switches up for ON
- 22 CABIN HEATER FUEL SUPPLY switch
- 23 DROP TANK CONTENTS gauge
- 24 DROP TANK PUMP SWITCH
- Note:-Following pump switches also down-TEST (item 20)

PORT SYSTEM

- No. I tank
- 25 PUMP SWITCHES
- 26 SELECTOR COCK switch
- 27 ON indicator
- 28 OFF indicator
- 29 Contents gauge
- No. 2 tank
- 30 PUMP SWITCHES
- 31 SELECTOR COCK switch
- 32 ON indicator
- 33 OFF indicator
- 34 Contents gauge

No. 3 and 4 tanks

- 35 PUMP SWITCHES
- 36 SELECTOR COCK switch
- 37 ON indicator
- 38 OFF indicator
- 39 Contents gauge

STARBOARD SYSTEM

- No. I tank
- 40 PUMP SWITCHES
- 41 SELECTOR COCK switch
- 42 ON indicator
- 43 OFF indicator
- 44 Contents gauge

No. 2 tank

- 45 PUMP SWITCHES
- 45 SELECTOR COCK switch
- 47 ON indicator
- 48 OFF indicator
- 49 Contents gauge

No. 3 and 4 tanks

- 50 PUMP SWITCHES
- 51 SELECTOR COCK switch
- 52 ON indicator
- 53 OFF indicator
- 54 Contents gauge

CROSS FEED COCKS

- 55 Port
- Switch up-ON 58 CENTRE
- Switch up-ON
- 61 Starboard
 - Switch up-ON
- 56, 59, 62 ON indicators 57, 60, 63 OFF indicators

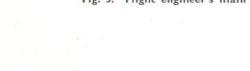
OIL SYSTEM

64 Oil pressure gauges (Left to right, No. 1, 2, 3 and 4)

MISCELLANEOUS

- 65 "Gallons gone" meter-port
- 66 "Gallons gone" meter-starboard
- 67 VACUUM GAUGE
- 68 EMERGENCY AIR BOMB DOORS Both handles up—OFF Left down—DOORS OPEN Right down—DOORS CLOSED
- 69 EMERGENCY AIR, U/C and FLAPS gauge
- 70 EMERGENCY AIR U/C and FLAPS Both handles up -OFF Left down-U/C DOWN Right down-FLAPS DOWN
- 71 AIR NAUTICAL MILES indicator
- 72 Oxygen flow indicator
- 73 VACUUM CHANGE Left—EMERGENCY Right—NORMAL

Note .- Capitals indicate inscriptions





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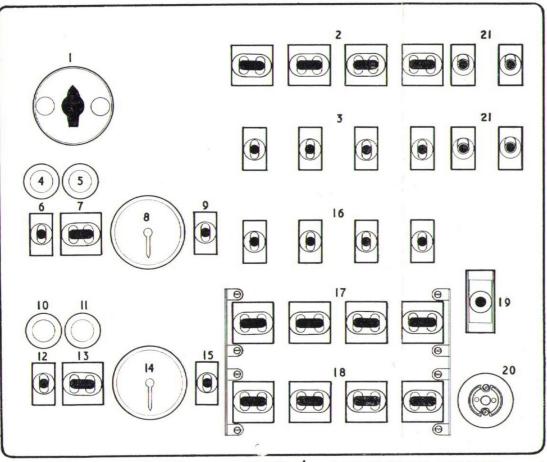


FIG. 6. FLIGHT ENGINEER'S AUXILIARY PANEL

ENGINE STARTING GROUP

- 1 ENGINE PRIMING switch
- 2 ENGINE STARTING SWITCHES Down—ON (left to right, No. 1, 2, 3 and 4 engine. Fitted with guards)
- 3 BOOSTER COIL and SLOW RUNNING CUT-OFF switches
 - Up-booster coil on, down-cut-off operated

PROPELLER DE-ICING GROUP

- 4 NORMAL ON indicator
- 5 EMERGENCY ON indicator
- 6 NORMAL operation switch Up-ON
- 7 EMERGENCY operation switch Up-ON
- 8 TANK CONTENTS gauge
- 9 Gauge switch
- Up-ON

WING AND TAIL LEADING EDGE DE-ICING GROUP

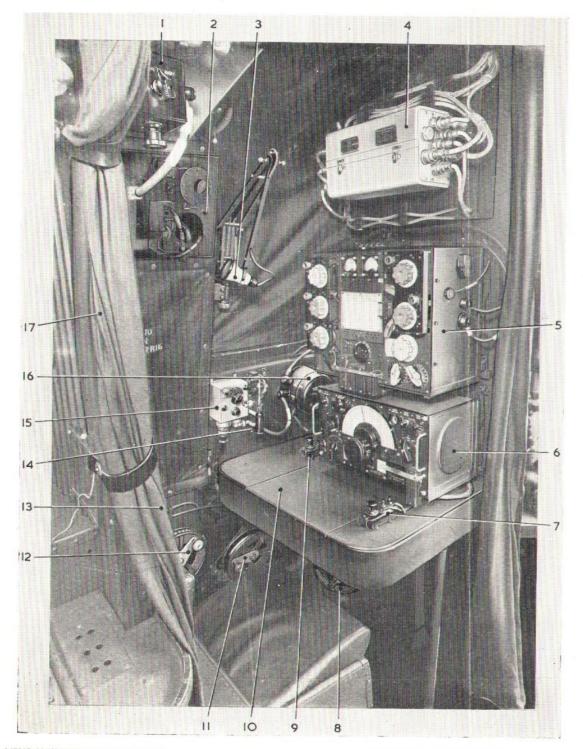
- 10 NORMAL ON indicator
- 11 EMERGENCY ON indicator
- 12 NORMAL operation switch Up-ON
- 13 EMERGENCY operation switch Up—ON
- 14 TANK CONTENTS gauge
- 15 Gauge switch Up-ON
- MISCELLANEOUS
- 16 OIL DILUTION switches
- Up—ON (left to right, No. 1, 2, 3 and 4) 17 GENERATOR SWITCHES

Up-ON, down OFF (left to right, No. 1, 2, 3 and 4)

- 18 WATER/METHANOL TEST SWITCHES Up—TEST (left to right, No. 1, 2, 3 and 4)
- 19 UNDERCARRIAGE TEST SWITCH Up—TEST
- 20 Water/Methanol PUMP TEST SOCKET
- 21 FUEL FLOWMETER BY-PASS operating switches

UP-ON (by-pass closed)

Note.-Capitals indicate inscriptions



Key to Fig. 7

- **1** LORAN LOADING UNIT
- 2 WIRELESS OPERATOR'S AUXILIARY PANEL
- **3** ANGLEPOISE LAMP
- 4 AUTO-PILOT JUNCTION BOX
- 5 T.1154M
- 6 R.1155L
- 7 MORSE KEY
- 8 OXYGEN TUBE CONNECTION
- 9 MORSE KEY FOR I.F.F.
- 10 TABLE WITH HINGED FLAP
- 11 TRAILING AERIAL WINCH
- 12 SPARE AERIAL REEL
- 13 OXYGEN CUT-OFF POINT (BEHIND CURTAIN)
- 14 MIC./TEL. SOCKET
- 15 CALL BOX
- **16** AERIAL SELECTOR SWITCH
- 17 BLACK-OUT CURTAIN

Key to Fig. 8

- 1 AIR POSITION INDICATOR NO. 1
- 1a AIR POSITION INDICATOR NO. 2
- 2 MK. 3 BOMBSIGHT COMPUTOR
- 3 RISING FLAPS OVER TABLE MAP COM-PARTMENTS
- 4 G4B COMPASS INDICATOR
- **5** DOUBLE SEAT
- 6 FRONT SPAR COVERS
- 7 S.B. PANEL
- 8 BOMBING PANEL
- 9 ASTRO COMPASS STOWAGE

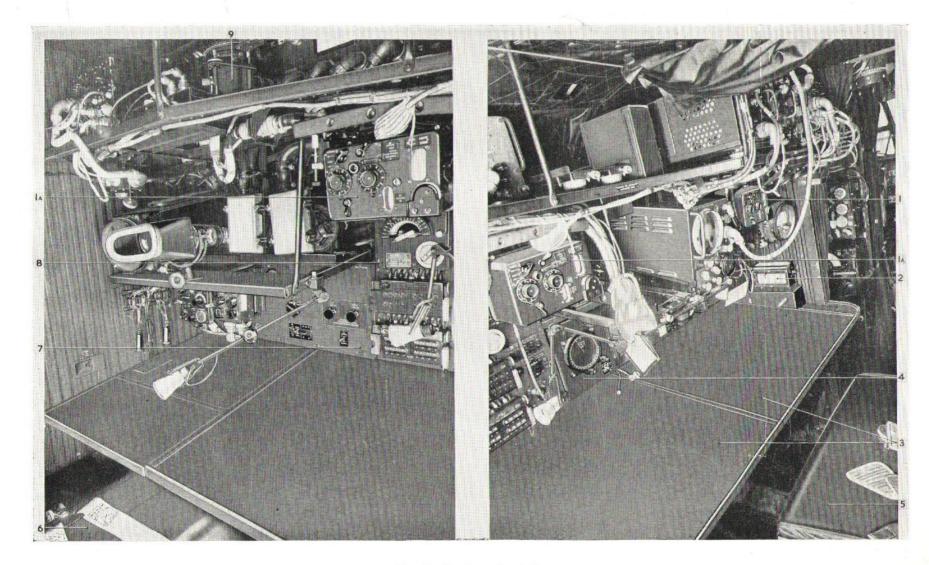


Fig. 8. Navigator's station

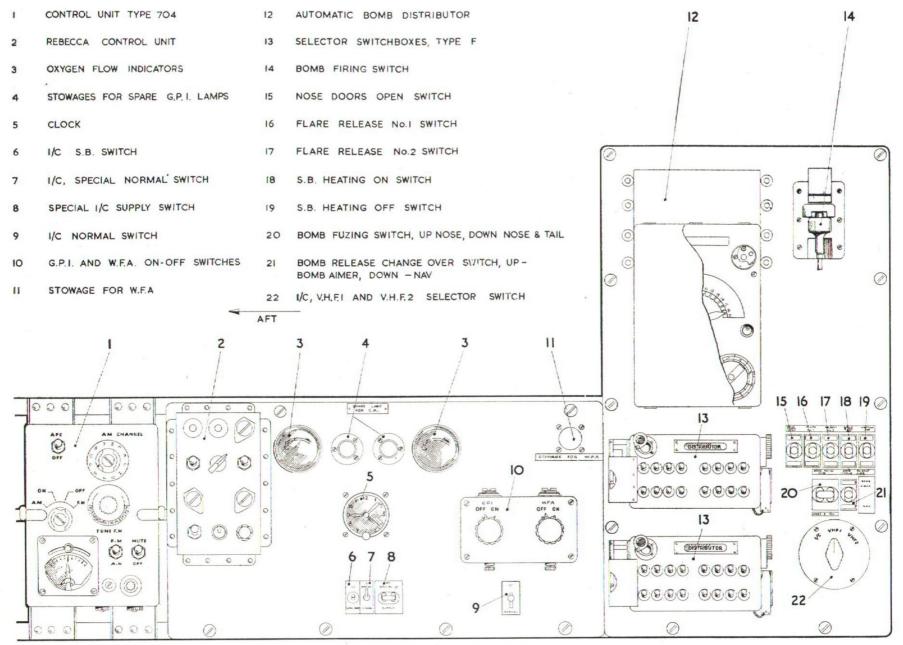


Fig. 9. Navigators' panels (I)

A.P.4267B, Vol.1, Book 1, Sect.1, Chap.2, Addenda A.L.131, July 62

ADDENDA

The illustrations which follow depict the changes in controls, instruments, etc., when Phase 1 and Phase 2 are embodied in the aircraft. The radar, sono-buoy and navigator's stations, where other changes take place with the embodiment of Phase 1 and 2 are shown in Book 2 of this Air Publication.

Fig.

7A

2A

PHASE 1 - ADDENDUM 1 ILLUSTRATIONS

Port observer's station - Phase 1 ... 3A

Flight engineer's panel - Phase 1 ...

Starboard observer's station - Phase 1

PHASE 2 - ADDENDUM 2 ILLUSTRATIONS

Fig.

Flight engin	eer's	pan	el - 1	Phas	e 2		1B	
< Crew station	ns and	d ger	neral	equi	pmer	1 f		
Phase 2							2B	
Flight engin	eer's	aux	iliary	pan	el			
Phase 2							3B	

F.S./1

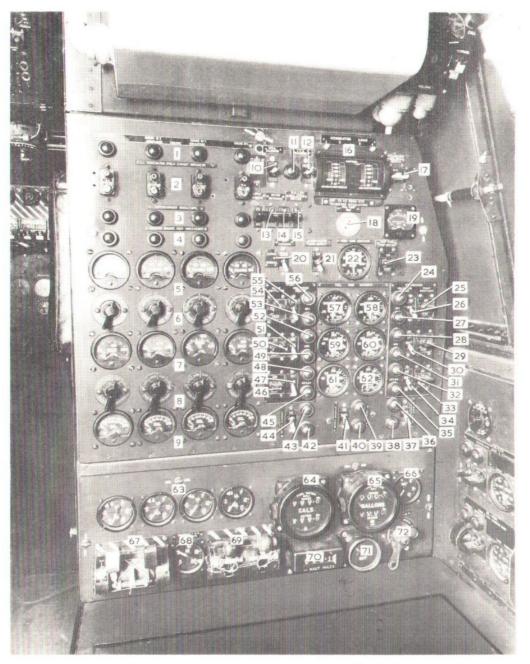


Fig.IA. Flight engineers panel-Phase I **RESTRICTED**

KEY TO FIG. 1A

Flight engineer's main panel — Phase 1

(All engine components are from left to right, 1, 2, 3, 4)

- **1** GENERATOR FAILURE INDICATORS
- **2** GENERATOR FIELD CIRCUIT BREAKERS
- **3** SUPERCHARGER INDICATORS
- 4 MASTER ENGINE COCK INDICATORS
- 5 CHARGE TEMPERATURE GAUGES
- 6 CARBURETTOR AIR INTAKE CONTROLS AUTO/COLD/STOP/HOT
- 7 RADIATOR TEMPERATURE GAUGES
- 8 RADIATOR FLAP CONTROLS AUTO/OPEN/STOP/CLOSE
- 9 OIL TEMPERATURE GAUGES
- **10** INVERTER SWITCH NO. 100A ON/NORMAL/OFF
- 11 INVERTER FAILURE INDICATOR White — normal
 - Black failure of an inverter
- 12 INVERTER SWITCH No. 103
- 13 SUPERCHARGER SWITCH F.S./M.S.
- 14 WATER/METHANOL SWITCHES ON/OFF
- **15** GALLEY ISOLATION SWITCH
- 16 GENERATOR LOAD INDICATORS
- 17◀ A.A.P.P. OFF/FLIGHT SELECTOR SWITCH►
- 18 FUEL PUMP TEST SOCKET
- **19** VOLTMETER
- 20 AIR CLEANER SWITCH CLEAN/NORMAL
- 21 CABIN HEATER FUEL SUPPLY
- 22 DROP TANK CONTENTS GAUGE
- 23 DROP TANK PUMP SWITCH Starboard fuel panel
- 24 No. 1 ON INDICATOR
- F.S./3

- 25 FUEL SELECTOR COCK SWITCH
- 26 No. 1 PUMP SWITCH ON/TEST
- 27 OFF INDICATOR
- 28 No. 2 ON INDICATOR
- 29 No. 2 PUMP SWITCH
- 30 FUEL SELECTOR COCK SWITCH
- 31 No. 2 OFF INDICATOR
- 32 No. 3 and 4 ON INDICATOR
- 33 No. 3 and 4 pump switch
- 34 No. 3 and 4 cock selector switch
- 35 No. 3 and 4 OFF INDICATOR
- 36 CROSS-FEED COCK ON INDICATOR
- 37 CROSS-FEED COCK SELECTOR SWITCH
- 38 CROSS-FEED COCK OFF INDICATOR
- 39 CROSS-FEED COCK ON INDICATOR (PORT)
- 40 CROSS-FEED COCK OFF INDICATOR (STAR-BOARD)
- 41 CENTRE CROSS-FEED COCK SWITCH
- 42 PORT CROSS-FEED COCK OFF INDICATOR
- 43 PORT CROSS-FEED COCK ON INDICATOR
- 44 PORT CROSS-FEED COCK SWITCH Port fuel panel
- 45 No. 3 AND 4 OFF INDICATOR
- 46 No. 3 and 4 pump switch
- 47 No. 3 and 4 cock selector switch
- 48 NO. 3 AND 4 ON INDICATOR
- 49 No. 2 OFF INDICATOR
- 50 No. 2 PUMP SWITCH
- 51 NO. 2 TANK SELECTOR SWITCH
- 52 No. 2 ON INDICATOR
- 53 No. 1 OFF INDICATOR
- 54 No. 1 PUMP SWITCH
- 55 No. 1 COCK SELECTOR SWITCH
 - RESTRICTED

- 56 No. 1 ON INDICATOR
- 57 PORT SYSTEM NO. 1 TANK CONTENTS GAUGE
- 58 STARBOARD SYSTEM NO. 1 TANK CON-TENTS GAUGE
- 59 PORT SYSTEM NO. 2 TANK CONTENTS GAUGE
- 60 STARBOARD SYSTEM NO. 2 TANK CON-TENTS GAUGE
- 61 Port system No. 3 and 4 tank contents gauge
- 62 STARBOARD SYSTEM NO. 3 AND 4 TANK CONTENTS GAUGE
- 63 OIL PRESSURE GAUGES
- 64 GALLONS-GONE METER PORT SYSTEM
- 65 GALLONS-GONE METER STARBOARD SYSTEM
- 66 VACUUM GAUGE
- 67 BOMB DOOR EMERGENCY AIR OPERATING LEVERS

Both handles up — OFF Left down — DOORS OPEN Right down — DOORS CLOSED

- 68 EMERGENCY AIR PRESSURE GAUGE
- 69 ALIGHTING GEAR AND FLAPS EMERGENCY AIR OPERATING LEVERS

Up — OFF Left hand down — ALIGHTING GEAR DOWN

- Right hand down FLAPS DOWN
- 70 AIR NAUTICAL MILES INDICATOR
- 71 OXYGEN FLOW INDICATOR
- 72 VACUUM PUMP CHANGE-OVER COCK EMERGENCY/NORMAL No. 1/No. 2

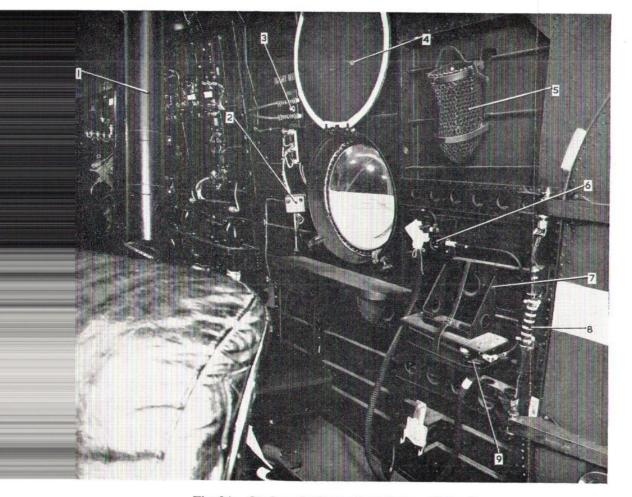


Fig. 2A. Starboard observer's station - Phase 1

KEY TO FIG. 2A

Starboard observer's station - Phase 1

- 1 STARBOARD SCANNER JACK
- 2 OBSERVATION BLISTER
- 3 DINGHY RELEASE HANDLES
- 4 OBSERVATION BLISTER BLACK-OUT COVER
- 5 PORTABLE OXYGEN BOTTLE STOWAGE
- 6 OXYGEN FLOW GAUGE AND BAYONET SOCKET CONNECTION
- 7 BINOCULAR STOWAGE
- 8 DOOR JETTISON HANDLE
- **9** OXYGEN RECUPERATION

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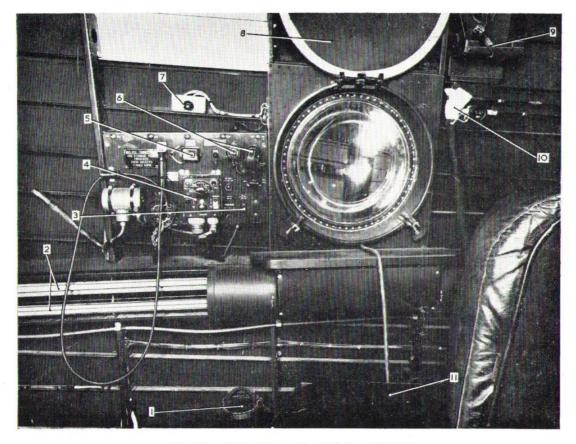


Fig. 3A. Port observer's station - Phase 1

KEY TO FIG. 3A

Port Observer's station-Phase 1

- **1** PORTABLE OXYGEN BOTTLE STOWAGE
- 2 RUDDER AND ELEVATOR CONTROL RODS
- 3 HEATER CONTROL PANEL (NO. 3 HEATER)
- 4 INTERCOM. CONTROL PANEL
- 5 FUSE BOX
- 6 FLOODLAMP AND DIMMER SWITCH
- 7 FLAME FLOAT RELEASE BUTTON
- 8 OBSERVATION BLISTER BLACK-OUT COVER
- 9 BINOCULAR STOWAGE
- 10 OXYGEN FLOW GAUGE AND BAYONET SOCKET CONNECTION
- 11 OBSERVER'S SEAT

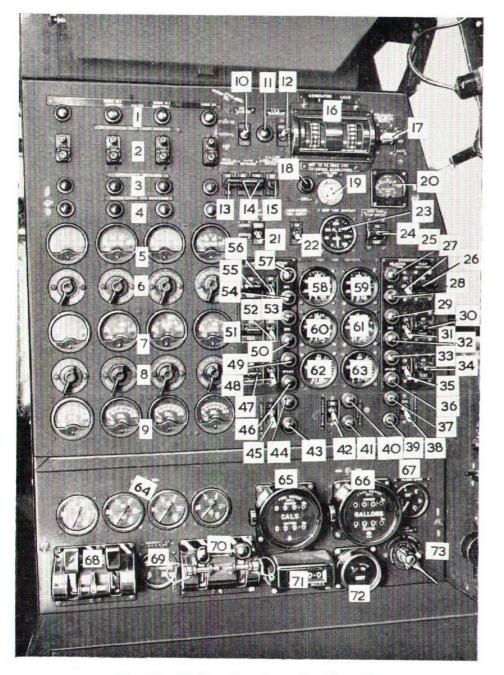


Fig. 1B. Flight engineer's panel - Phase 2

KEY TO FIG. 1B

Flight engineer's panel-Phase 2

(All engine components are from left to right, 1, 2, 3, 4)

- **1** GENERATOR FAILURE INDICATORS
- 2 GENERATOR FIELD CIRCUIT BREAKERS
- **3** SUPERCHARGER INDICATORS
- **4 MASTER ENGINE COCK INDICATORS**
- **5** CHARGE TEMPERATURE INDICATORS
- 6 CARBURETTOR AIR INTAKE CON-TROLS-AUTO/COLD/STOP/HOT
- 7 RADIATOR TEMPERATURE GAUGES
- 8 RADIATOR FLAP CONTROLS AUTO/ OPEN/STOP/CLOSE
- **9** OIL TEMPERATURE GAUGES
- 10 INVERTER SWITCH NO. 100A-STAND-BY/NORMAL/OFF
- **11 INVERTER FAILURE INDICATOR** White - normal Black - failure of an inverter
- 12 INVERTER SWITCH NO. 103
- 13 SUPERCHARGER SWITCH-F.S./M.S.
- 14 WATER / METHANOL SWITCHES ON / OFF
- **15 GALLEY ISOLATION SWITCH**
- **16** GENERATOR LOAD INDICATORS
- 17 A.A.P.P. OFF/FLIGHT SELECTOR SWITCH
- 18 INTERCOMM. CALL INDICATOR
- **19** FUEL PUMP TEST SOCKET
- **20 VOLTMETER**
- 21 AIR CLEANER SWITCH CLEAN / NORMAL
- 22 CABIN HEATER FUEL SUPPLY SWITCH
- 23 DROP TANK CONTENTS GAUGE
- 24 DROP TANK PUMP SWITCH

Starboard fuel panel

- 25 NO. 1 TANK SELECTOR COCK ON IN-DICATOR
- 26 NO. 1 TANK PUMP SWITCH-ON/TEST
- 27 NO. 1 FUEL TANK SELECTOR SWITCH

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KEY TO FIG. 1B (cont'd)

- 28 NO.1 TANK SELECTOR COCK, OFF, INDICATOR
- 29 NO.2 TANK SELECTOR COCK, ON, INDICATOR
- 30 NO.2 TANK PUMP SWITCH ON/TEST
- 31 NO.2 FUEL TANK SELECTOR SWITCH
- 32 NO.2 TANK SELECTOR COCK, OFF, INDICATOR
- 33 NO.3 AND 4 TANKS SELECTOR COCK ,ON, INDICATOR
- 34 NO.3 AND 4 TANKS PUMP SWITCH
- 35 NO.3 AND 4 TANKS SELECTOR
- SWITCH ON/TEST 36 NO.3 AND 4 TANKS SELECTOR COCK,OFF, INDICATOR
- 37 CROSS-FEED COCK, ON, INDICATOR (STARBOARD)
- 38 CROSS-FEED COCK SELECTOR SWITCH (STARBOARD)
- 39 CROSS-FEED COCK SELECTOR, OFF, INDICATOR (STARBOARD)
- 40 CROSS-FEED COCK SELECTOR, ON, INDICATOR (CENTRE)
- 41 CROSS-FEED COCK SELECTOR, OFF, INDICATOR (CENTRE)
- 42 CROSS-FEED COCK SELECTOR SWITCH (CENTRE)
- 43 CROSS-FEED COCK SELECTOR, OFF, INDICATOR (PORT)

- 44 CROSS-FEED COCK SELECTOR, ON, INDICATOR (PORT)
- 45 CROSS-FEED COCK SELECTOR SWITCH (PORT)

Port fuel panel

- 46 NO.3 AND 4 TANKS SELECTOR COCK, OFF, INDICATOR
- 47 NO.3 AND 4 TANKS PUMP SWITCH -ON/TEST
- 48 NO.3 AND 4 TANKS SELECTOR SWITCH
- 49 NO.3 AND 4 TANKS SELECTOR COCK ,ON,INDICATOR
- 50 NO.2 TANK SELECTOR COCK, OFF, INDICATOR
- 51 NO.2 TANK PUMP SWITCH
- 52 NO.2 TANK SELECTOR SWITCH
- 53 NO.2 TANK SELECTOR COCK, ON,
- INDICATOR
- 54 NO.1 TANK SELECTOR COCK, OFF, INDICATOR
- 55 NO.1 TANK PUMP SWITCH
- 56 NO.1 TANK SELECTOR SWITCH
- 57 NO.1 TANK SELECTOR COCK, ON, INDICATOR

- 58 PORT SYSTEM NO.1 TANK CON-TENTS GAUGE
- 59 STARBOARD SYSTEM NO.1 TANK CONTENTS GAUGE
- 60 PORT SYSTEM NO.2 TANK CON-TENTS GAUGE
- 61 STARBOARD SYSTEM NO.2 TANK CONTENTS GAUGE
- 62 PORT SYSTEM NO.3 AND 4 TANKS CONTENTS GAUGE
- 63 STARBOARD SYSTEM NO.3 AND 4 TANKS CONTENTS GAUGE
- 64 OIL PRESSURE GAUGE S
- 65 GALLONS-GONE METER PORT SYSTEM
- 66 GALLONS-GONE METER -STARBOARD SYSTEM
- 67 VACUUM GAUGE
- 68 BOMB DOOR EMERGENCY AIR OPERATING LEVERS Both handles up - OFF Left down - DOORS OPEN Right down - DOORS CLOSED
- 69 EMERGENCY AIR PRESSURE GAUGE
- 70 ALIGHTING GEAR AND FLAPS EMERGENCY AIR OPERATING LEVERS
- 71 AIR NAUTICAL MILES INDICATOR
- 72 OXYGEN FLOW INDICATOR
- 73 VACUUM PUMP CHANGE-OVER COCK - EMERGENCY/NORMAL

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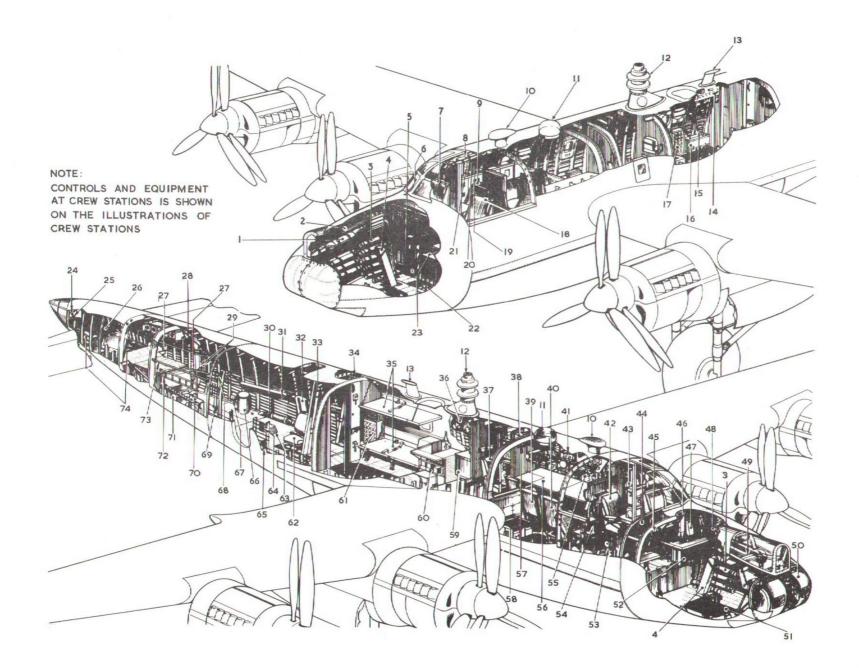


Fig. 2B. Crew stations and general equipment-Phase 2

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KEY TO FIG.2B

Crew stations and general equipment -Phase 2

1	NO 1 HEATED					
1.	NO.1 HEATER					
2.	AMMUNITION SYSTEM					
3.	(port and starboard) PYROTECHNIC STOWAGES					
4.	FLARE CHUTE					
5.	PRE-SELECTOR PANEL					
6.	WINDSCREEN WIPER					
7.	SECOND PILOT'S SEAT					
8.	CONTROL BOX IN CANOPY					
9.	FLIGHT ENGINEER'S SEAT					
10.	LOOP AERIAL					
11.	ASTRO DOME					
12.	A. R.I.18144 AERIAL					
13.	A.R.I.18124/1 AERIAL					
14.	SIGNAL DISCHARGER CONTROL PANEL					
15.	SIGNAL DISCHARGERS (4)					
16.	EMPTY CARTRIDGE STOWAGE BAG					
17.	ILLUMINATING CARTRIDGE STOWAGE					
	(169 cartridges)					
18.	FIRST PILOT'S SEAT					
19.	DRIFT RECORDER					
20.	AIR THERMOMETER					
21.	SIGNAL PISTOL CARTRIDGE					
	STOWAGE					
22.	WINDSCREEN GLYCOL TANK					
	WINDSCREEN GLICOL IANA					
	(under step)					
23.						
23. 24.	(under step)					

- **REAR OBSERVER'S CUSHIONS** 26. 27. FLYING CONTROLS GUARD RAIL 28. RUDDER LOCKING SYSTEM 29. FLYINGCONTROLS 30. NO.3 HEATER 31. FLYING CONTROL GUARD 32. **OBSERVER'S SEAT** (port) 33. RETRACTABLE SCANNER 34. PHOTOFLASH DISCHARGER CREW REST BUNKS 35. 36. NO.2 HEATER RADAR OPERATOR'S SEAT 37. 38. SEXTANT STOWAGE NAVIGATOR'S RISING SEAT 39. **ROUTINE NAVIGATOR'S SEAT** 40. RADAR AND A.D.R.I.S. EQUIPMENT 41. 42. WIRELESS OPERATOR'S SEAT 43. WIRELESS OPERATOR'S STATION 44. PILOT'S INSTRUMENT PANEL RUDDER CONTROLS 45. 46. CONTROL COLUMN PEDESTAL 47. ENGINE CONTROL 48. AMMUNITION BOX (port and starboard) 49. FRONT GUNNER'S SEAT 50. GUN MOUNTING 51. AIR BOMBER'S CUSHIONS 52. A.C. SUPPLIES PANEL 53.
 - TRIM CONTROL BOX

- 54. ALDIS LAMP STOWAGE (aft of second pilot's seat)
- NAVIGATOR'S PANEL 55.
- NAVIGATOR'S PLOTTING TABLE 56.
- 57. ASTRO-COMPASS MOUNTING
- 58. STEP
- 59. GALLEY
- A.R.I.18144 CRATE 60.
- 61. PYROTECHNICS STOWAGE
- 62. OBSERVER'S SEAT (starboard)
- 63. FLARE CHUTE
- 64. BINOCULARS STOWAGE
- HAND CAMERA STOWAGE 65.
- 66. ELSAN
- NOTE:- Refer to fig.18 for the effect of Mod.359
- FIRST-AID KIT 67.
- STOWAGES FOR CONTROL LOCK-68. ING PINS
- 69. DIPSTICK STOWAGES
- 70. EMERGENCY PACK
- 71. NITROGEN BOTTLES
- 72. ACCESS LADDER
- 73. HAND RAIL
- 74. CAMERA CUPOLAS (retractable)

NOTE ...

Controls and equipment at crew stations are shown on the illustrations of crew stations and panels.

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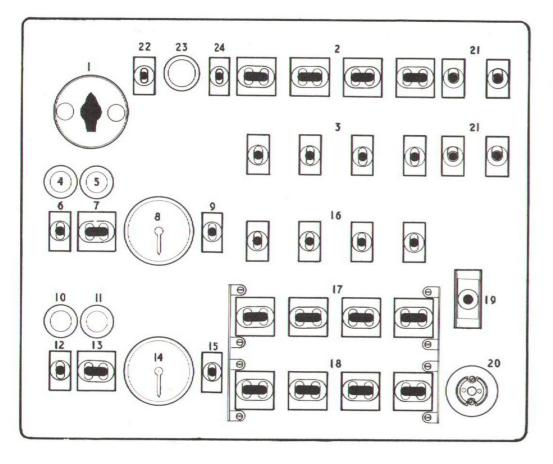


Fig.3B. Flight engineer's auxiliary panel - Phase 2

KEY TO FIG.3B

ENGINE STARTING GROUP

- **1 ENGINE PRIMING switch**
- 2 ENGINE STARTING SWITCHES Down - ON (Port to Starboard, No.1, 2, 3 and 4 engine. Fitted with guards)
- 3 BOOSTER COIL and SLOW RUNNING CUT-OFF switches
 - UP booster coil ON

DOWN - cut-off operated

RESTRICTED

PROPELLER DE-ICING GROUP

- 4 NORMAL ON indicator
- **5 EMERGENCY ON indicator**
- 6 NORMAL operation switch Up - ON
- 7 EMERGENCY operation switch Up - ON
- 8 TANK CONTENTS gauge
- 9 Gauge switch

Up - ON

WING AND TAIL LEADING EDGE DE-ICING GROUP .

- 10 NORMAL ON indicator
- 11 EMERGENCY ON indicator
- 12 NORMAL operation switch Up - ON
- 13 EMERGENCY operation switch Up - ON
- 14 TANK CONTENTS gauge
- 15 Gauge switch Up - ON

MISCELLANEOUS

16 OIL DILUTION switches

Up - ON (Port to Starboard, No.1, 2, 3 and 4)

- **17 GENERATOR SWITCHES**
 - Up ON, down OFF (Port to Starboard No.1, 2, 3 and 4)
- board No.1. 2. 3 and 4)
 18 WATER/METHANOL TEST SWITCHES
 Up TEST (Port and Starboard No.1 2. 3 and 4)
- 19 UNDERCARRIAGE TEST SWITCH Up - TEST
- 20 Water/Methanol PUMP TEST SOCKET

21 FUEL FLOWMETER BY-PASS operating switches

Up - ON (by-pass closed)

22 A.R.I.18144 DE-ICING SWITCH

Up - ON Centre - OFF

- 23 AL TERNATOR INDICATOR Power - OFF - white
 - Power ON black
- 24 ALTERNATOR ON AND RESET SWITCH

Up - ON Centre - OFF Down - OFF

NOTE... Capitals indicate inscriptions

This leaf issued with A.L. No. 63, April, 1954

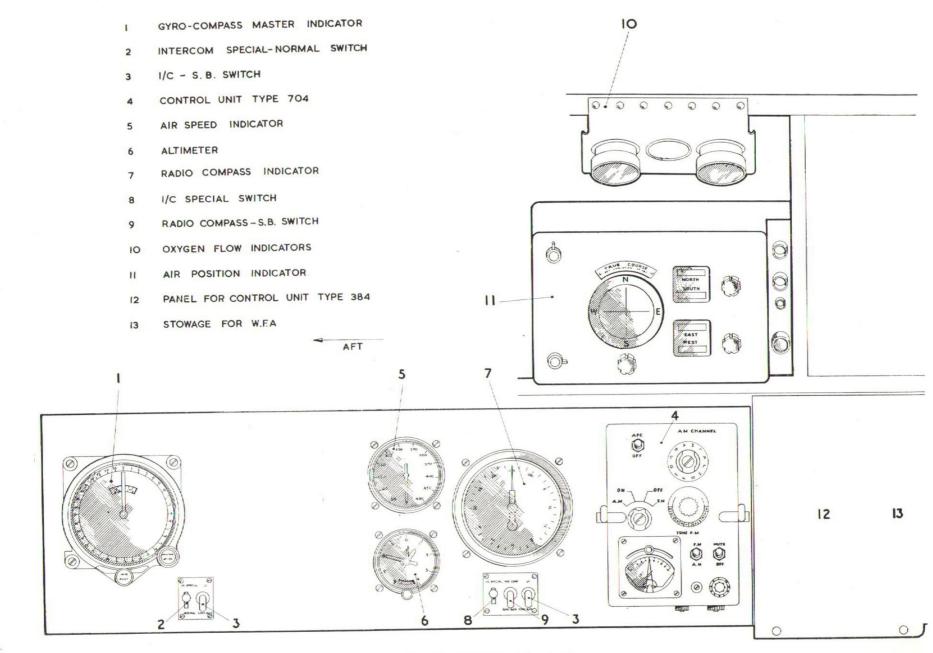


Fig. 10. Navigators' panels (2)

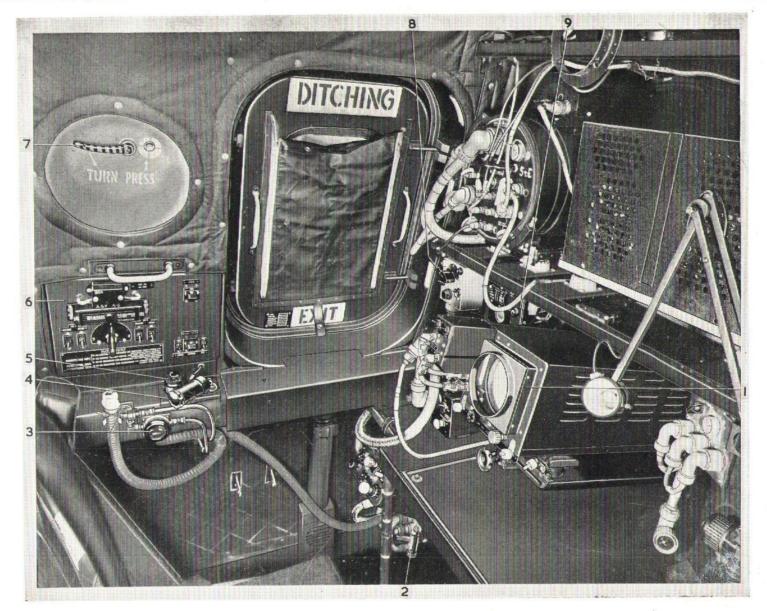


Key to Fig. 11

I PANEL

- 2 REBECCA INDICATOR
- 3 S.B. INDICATOR
- 4 WARNING HORN
- 5 ASTRODOME MIC/TEL. SOCKET
- 6 ASTRO-COMPASS IN STOWAGE
- 7 INTERCOM. MIC/TEL. SOCKETS
- 8 "PRESS TO TALK " PUSH-BUTTON
- 9 LIFT-UP FLAP IN TABLE

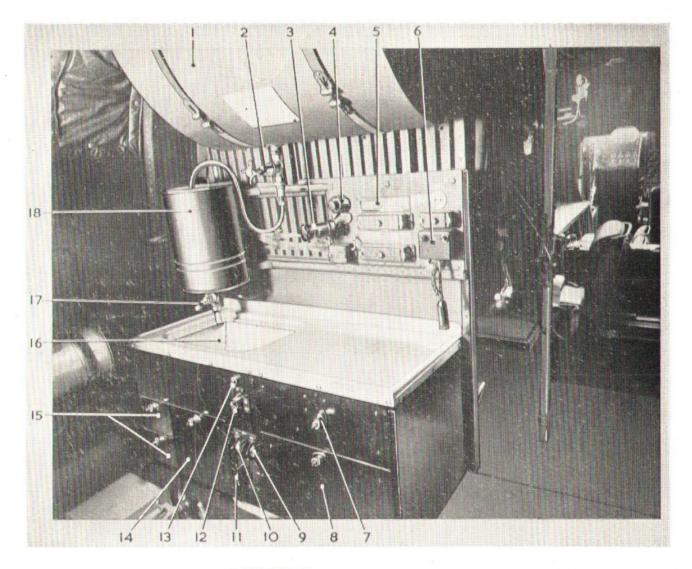
Fig. 11. Sonobuoy operator's station



- I A.S.V. INDICATOR
- 2 INTERCOM. MIC/TEL. SOCKET
- 3. OXYGEN-FLOW INDICATOR

- 4 PANEL LAMP
- 5 DIMMER SWITCH FOR (4)
- 6 POWER PANEL
 - Fig. 12. Radar operator's station

- 7 DITCHING EXIT RELEASE HANDLES
- 8 SCANNER EMERGENCY AIR LEVER
- 9 SCANNER CUPOLA CONTROL PANEL



- I FRESH WATER TANK
- 2 COLD WATER TAP
- 3 PANEL LAMP
- 4 DIMMER SWITCH
- 5 FUSE PANEL
- 6 CALL BOX AND MIC./TEL. SOCKET

7 HOT CUPBOARD

- 8 CUPBOARD WITH HOT-PLATE INSIDE
- 9 HOT-PLATE CONTROL SWITCH refer to (10) and (11)
- 10 HOT-PLATE START PUSH-BUTTON
- II HOT-PLATE STOP PUSH-BUTTON
- 12 URN CIRCUIT-BREAKER-PUSH-BUTTON FOR ON

Fig. 13. Galley equipment

- 13 URN ON INDICATING LAMP
- 14 CUPBOARD 15 DRAWERS
- 16 SINK
- 17 HOT WATER TAP IS URN

6



Fig. 14. Illuminating flare dischargers

Key to Fig. 14

- I RELAY PANEL
- 2 CONTROL PANEL
- **3 DISTRIBUTOR**
- 4 SIGNAL DISCHARGERS
- 5 BULKHEAD (FORMER 22)
- 6 EMPTY CARTRIDGE BAG
- 7 STOWAGE FOR 169 CARTRIDGES
- 8 FLARE CARTRIDGE DISTRIBUTOR
- 9 PANEL LAMP
- 10 DIMMER SWITCH



- I PORT SCANNER JACK
- 2 "ABANDON AIRCRAFT" WARNING HORN
- 3 1.5 IN. SIGNAL DISCHARGER
- 4 BULKHEAD (former 22)
- 5 SCANNER CONTROL VALVE MANUAL PUSH-BUTTON (obscured by jack)
- 6 4.5 IN. FLARE STOWAGES

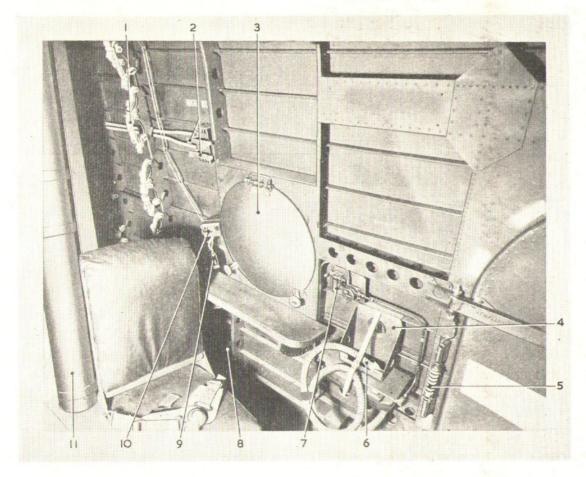


Fig. 16. Starboard observer's station

I 45 IN. STORE STOWAGES

2 DINGHY-RELEASE HANDLES

3 OBSERVATION WINDOW BLACK-OUT SCREEN (in position)

4 STOWAGE FOR BINOCULARS

5 DOOR HINGE EMERGENCY RELEASE

6 OXYGEN TUBE

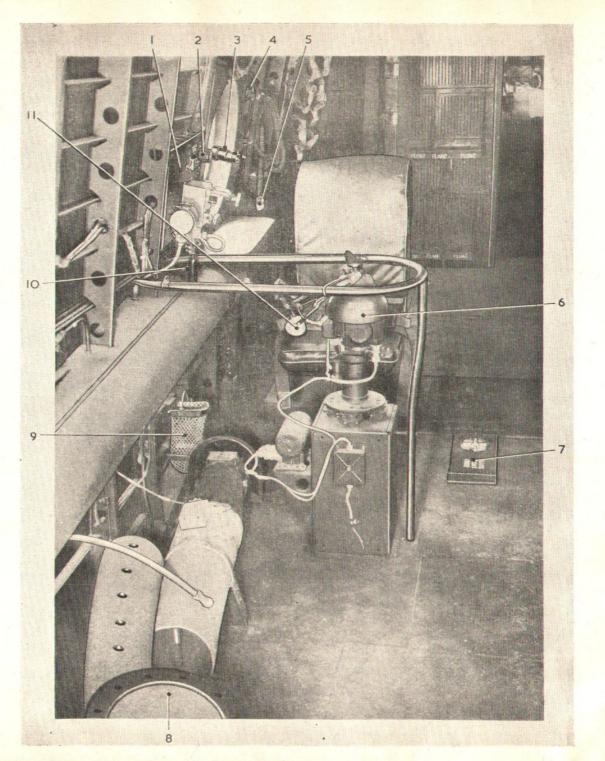
- 7 OXYGEN CUT-OFF POINT ON FLOWMETER
- 8 PORTABLE OXYGEN SET STOWAGE

9 MIC./TEL. SOCKET

10 CALL BOX

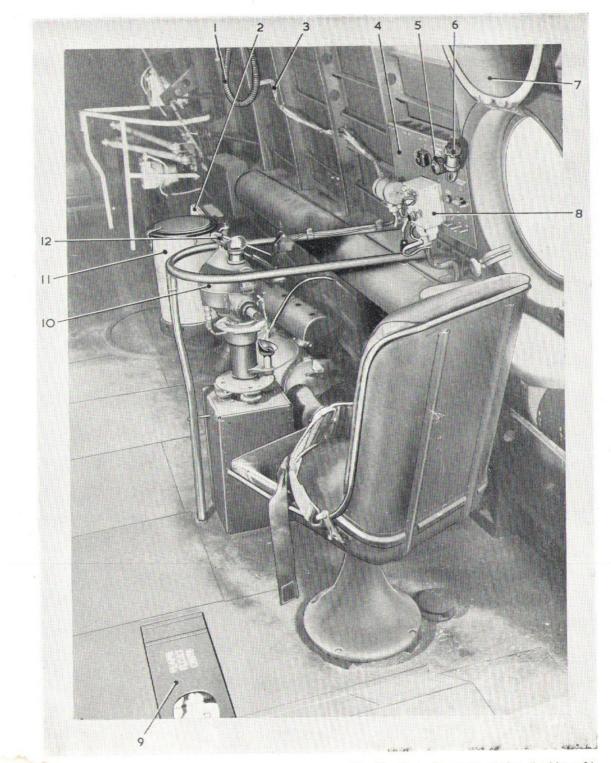
II STARBOARD SCANNER JACK

- I NO. 3 HEATER CONTROL PANEL
- 2 DIMMER SWITCH-CONTROLS ITEMS (3) AND (11)
- 3 PANEL LAMPS
- 4 OXYGEN CUT-OFF POINT AND FLOW INDICATOR
- 5 OXYGEN TUBE
- 6 DRIFT SIGHT
- 7 FLAME FLOAT RELEASE CHUTE
- 8 ELSAN
- 9 PORTABLE OXYGEN SET STOWAGE
- 10 MIC./TEL. SOCKET
- II ANGLEPOISE LAMP



RESTRICTED

.



I OXYGEN TUBE Note:-Inter-com. call box and mic./tel. socket is adjacent to this

2 FIRST-AID STOWAGE

3 OXYGEN CUT-OFF POINT AND FLOW INDICATOR

4 NO. 3 HEATER CONTROL PANEL

5 DIMMER SWITCH-CONTROLS (6) AND (12)

6 PANEL LAMP

7 OBSERVATION WINDOW BLACK-OUT SCREEN

B INTERCOM. CALL BOX AND MIC./TEL. SOCKET

9 FLAME FLOAT RELEASE CHUTE

10 DRIFT SIGHT

11 ELSAN (The incorporation of Mod. 359 provides a screening curtain in front of the Elsan and a relief tube aft of it.)

12 ANGLEPOISE LAMP

(A.L.82, Mar. 55)

- I REAR NAVIGATION LIGHTING MOUNTING AT TIP OF TRANSPARENT FAIRING
- 2 BLACK-OUT CURTAINS
- 3 INTER-COM. CALL BOX AND MIC./TEL. SOCKET
- 4 ASTRO-COMPASS MOUNTING
- 5 REAR OBSERVER'S CUSHIONS (one removed to expose compass mounting)
- 6 ANGLEPOISE LAMP
- 7 DIMMER SWITCH
- 8 REAR FLARE CHUTE DOOR SWITCH
- 9 INDICATOR LAMP

On rear face of former

II ZIP FASTENER

10 RELEASE

Note:—A sundblind is provided for roof of faring which fits on to lift-the-dot fasteners and is stowed aft of black-out curtains

