

Chapter 1

PILOT'S CONTROLS AND EQUIPMENT

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WARNING**AN AIRCREW EJECTION SEAT IS FITTED TO THIS AIRCRAFT.**

Before attempting to enter the cabin ensure that the instructions detailed on the LETHAL WARNING marker card at the front of this Handbook have been complied with.

THIS IS VERY IMPORTANT**Introduction**

1. This Chapter gives the location of the cabin controls and instruments used by the pilot, the items being grouped as indicated in the illustrations. It will be found that certain items are not referenced as they are regarded as standard features of all cabins. Where the operation of a control or any feature of an instrument is not obvious, the necessary information is given in the key to the illustration. For more detailed information of the operation of certain controls and the manner in which they are to be used, reference should be made to H.A.P.52, Pilot's Notes.

Emergency controls**General**

2. The function and operation of the emergency controls and instruments indicated in the illustrations are described in detail in Sect. 1, Chap. 3.

Cabin sliding hood**Operation from inside**

3. The cabin sliding hood is normally operated by an electric actuator, but pro-

vision is made for manual operation if desired. The actuator is controlled by a three-position switch marked OPEN, OFF and SHUT, which is contained in a combined hood and clutch control box mounted on the port side of the cabin above the throttle lever. The clutch lever moves in a gate marked FREE and LOCKED. When in the FREE position, the actuator clutch is disengaged by a Bowden cable interconnection and the hood control switch is moved to the OFF position by a mechanical linkage within the control box. With the actuator de-clutched, the hood may be moved in the required direction by the handgrips, and as the control switch is in the OFF position, the actuator cannot be operated under no-load conditions.

WARNING

When the aircraft is ready for take-off, a check must always be made to ensure that the black line on the hood rail lock indicators, which are located one on each side of the cabin and marked LOCKED, line up with the spot in the centre of the lock pins, thus indicating that the hood rail locks are correctly set to lock the rails and hood to the airframe.

Operation from outside

4. Before leaving the cabin, the actuator clutch should be left in the FREE position, thus leaving the hood free to slide. The

hood may then be pushed open or closed as desired. For details of the emergency operation of the hood, reference should be made to Sect. 1, Chap. 3.

Note . . .

The cabin hood must NOT be opened or closed by pushing on the transparent plastic.

Operation by external control switch

5. A three-position, centre-off switch located at the bottom of the forward face of the first fuselage frame inside the fuselage nose piece, necessitating removal of the nose piece for access, is used for external operation of the hood during cabin pressurization checks. This switch is normally OFF and disconnected from the aircraft electrical system. To use the switch, it is first necessary to disconnect the cabin control from the plug and socket break on the cabin port shelf, remove the external control switch socket from its stowage above the shelf and connect it to the plug on the shelf. The actuator clutch should then be placed in the LOCKED position and the fuselage nose piece removed, as described in Sect. 3, Chap. 1 to gain access to the external switch.

Note . . .

Before using the switch, ensure that the hood is clear, and after use, reconnect the cabin switch to the plug on the shelf and return the external switch socket to its stowage.

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KEY TO FIG. I
(FLYING CONTROL AND INSTRUMENTS)

- 1 UNDERCARRIAGE INDICATOR
Light sequence:—
GREEN Undercarriage locked down
RED Undercarriage in process of retraction or extension
All OFF Undercarriage locked up
- 2 UNDERCARRIAGE CONTROL
Interlocking push-buttons. Top for UP, bottom for DOWN. Note—Clockwise rotation of outer ring of UP button overrides the safety lock.
- 3 FLAP CONTROL (EMERGENCY)
Grasp the control between the fingers, press the centre button with the thumb and pull control.
- 4 AILERON POWER CONTROL SWITCH
Use to disengage power
- 5 ELEVATOR POWER CONTROL INDICATOR
Indicates power off
- 6 AILERON POWER CONTROL INDICATOR
Indicates power off
- 7 ELEVATOR POWER CONTROL SWITCH
- 8 TAIL PLANE POSITION INDICATOR
- 9 AIRSPEED INDICATOR
- 10 ARTIFICIAL HORIZON
- 11 GYRO COMPASS
- 12 STANDBY COMPASS
- 13 RATE OF CLIMB INDICATOR
- 14 TURN AND SLIP INDICATOR
- 15 CLOCK
- 16 ACCELEROMETER
- 17 CABIN ALTIMETER
- 18 CABIN PRESSURE WARNING LIGHT
- 19 H.P. OXYGEN CONTENTS GAUGE
- 20 OXYGEN DEMAND REGULATOR
- 21 ANTI-G PRESSURE GAUGE
- 22 TEST BUTTON ON ANTI-G SUIT VALVE
Depress to test installation
- 23 COMPASS CONTROL UNIT
Ground use only. Light indicates installation inoperative.
- 24 ANTI-G SUIT CONTROL
- 25 HYDRAULIC PRESSURE AUDIO WARNING SWITCH
To cut out Audio warning
- 26 BRAKE PARKING LOCK
For temporary parking
- 27 TAIL PLANE INCIDENCE CONTROL (NORMAL)
Move up to increase tailplane incidence and down to decrease
- 28 HYDRAULIC BRAKE CONTROL
- 29 PRESSURE HEAD HEATER SWITCH
- 30 RUDDER BAR CONTROL
For adjustment of rudder bar position
- 31 ALTIMETER
- 32 MACH METER
- 33 FLAP POSITION INDICATOR
- 34 FLAP CONTROL
- 35 AIR BRAKE INDICATOR
Indicates air brake out
- 36 UNDERCARRIAGE WARNING LIGHT
Lights when throttle is approx. $\frac{1}{3}$ open and the undercarriage is not locked down.
- 37 TAIL PLANE STANDBY CONTROL
- 38 AIRBRAKE CONTROL
- 39 AILERON AND RUDDER TRIM TAB POSITION INDICATORS
- 40 AILERON AND RUDDER TRIM TAB CONTROL SWITCH
Operation in natural sense, i.e., the aircraft responds to the attitude of the silhouette on the switch knob
- 41 TRIM SWITCH LOCK
Engage when flying with ailerons power operated
- 42 CABIN TEMPERATURE SELECTOR
- 43 CABIN TEMPERATURE CONTROL
- 44 CABIN PRESSURE SWITCH
- 45 CABIN PRESSURE WARNING TEST SWITCH
Ground use only
- 46 TAIL PLANE MOTOR CIRCUIT BREAKER
- 47 FLOOD AIRFLOW SWITCH

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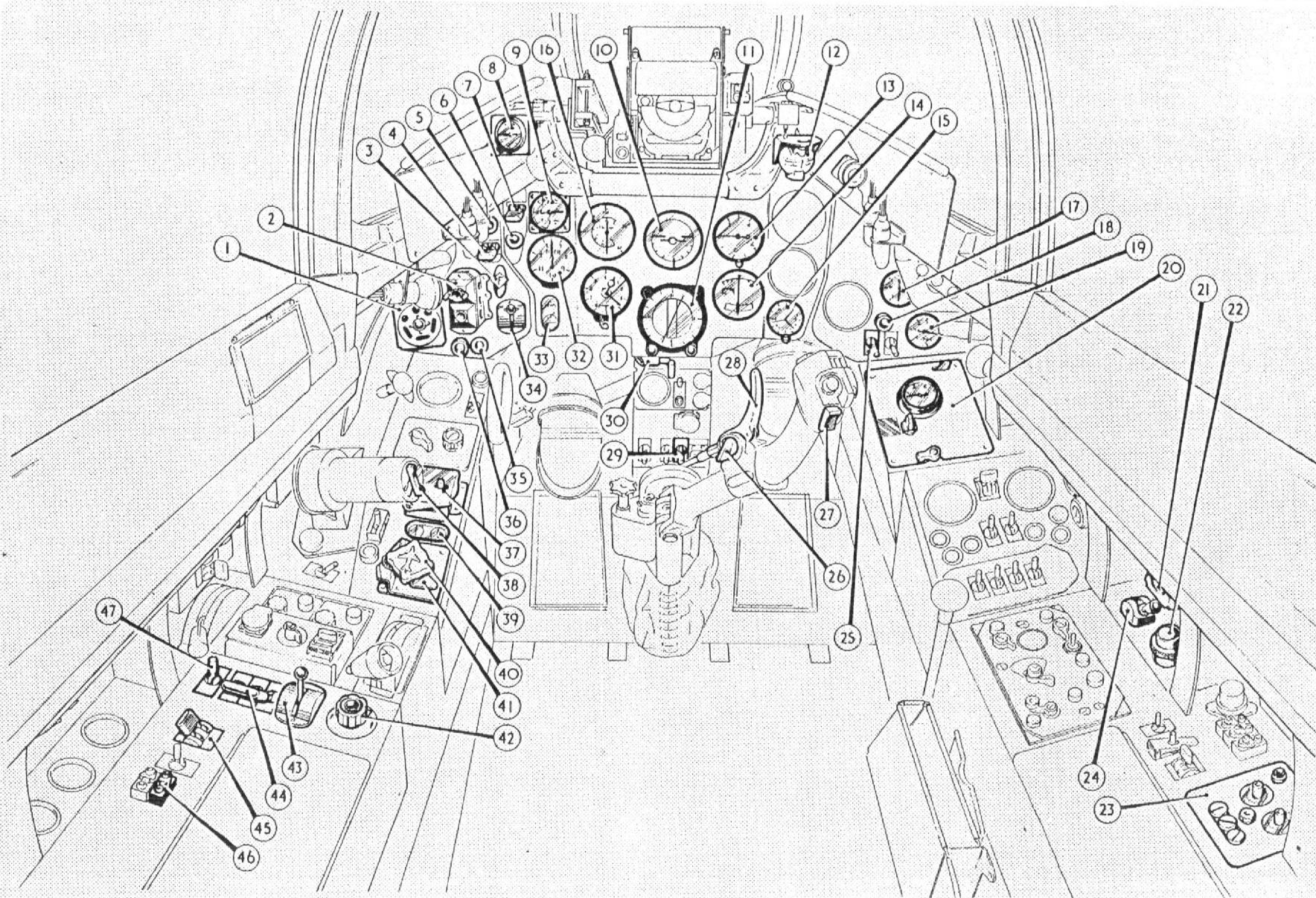


Fig. I. Flying controls and instruments

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KEY TO FIG. 2
(ENGINE CONTROLS AND INSTRUMENTS)

- | | | |
|------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1 LOW PRESSURE FUEL COCK CONTROL
Moved forward from OFF to ON | 13 FUEL TRANSFER, FAILURE INDICATOR—STARBOARD | 24 FUEL TRANSFER, FAILURE INDICATOR—PORT |
| 2 THROTTLE DAMPER | 14 WING TANK EMPTY WARNING INDICATOR—STARBOARD | 25 FUEL GAUGE—PORT TANKS |
| 3 THROTTLE
Aft for idling, forward for full throttle | 15 AMMETER TEST SOCKET
Used for test prior to flight | 26 IGNITION SWITCH
When off, isolates igniter units |
| 4 HYDRAULIC FAILURE WARNING LIGHT | 16 CIRCUIT BREAKER, ENGINE STARTER | 27 STARTER SELECTOR SWITCH |
| 5 EXHAUST GAS THERMOMETER | 17 CIRCUIT BREAKER, BOOSTER PUMP—STARBOARD | 28 ENGINE MASTER SWITCH
Controls flight instruments, tank pumps, fuel pressure and emergency fuel pump circuits |
| 6 TACHOMETER | 18 TANK PUMPS TEST SWITCH
Used for test prior to flight | 29 OIL PRESSURE GAUGE |
| 7 FUEL LOW PRESSURE WARNING INDICATOR | 19 CIRCUIT BREAKER, BOOSTER PUMP—PORT | 30 JET PIPE TEMPERATURE CONTROLLER |
| 8 FUEL CONTENTS CHECK SWITCH | 20 FUEL TANK BOOSTER PUMP SWITCH—STARBOARD | 31 ENGINE FUEL PUMP ISOLATING SWITCH |
| 9 ENGINE ANTI-ICING INDICATOR | 21 FUEL TANK BOOSTER PUMP SWITCH—PORT | 32 ENGINE FUEL PUMP ISOLATING WARNING LIGHT |
| 10 ENGINE ANTI-ICING SWITCH | 22 WING TANK EMPTY WARNING INDICATOR—PORT | 33 H.P. FUEL COCK CONTROL |
| 11 FUEL GAUGE—STARBOARD TANKS | 23 FUEL BOOSTER PUMP FAILURE WARNING INDICATOR—PORT | 34 RELIGHT SWITCH
Press with ignition switch (Item 26) on for relight |
| 12 FUEL BOOSTER PUMP FAILURE WARNING INDICATOR—STARBOARD | | |

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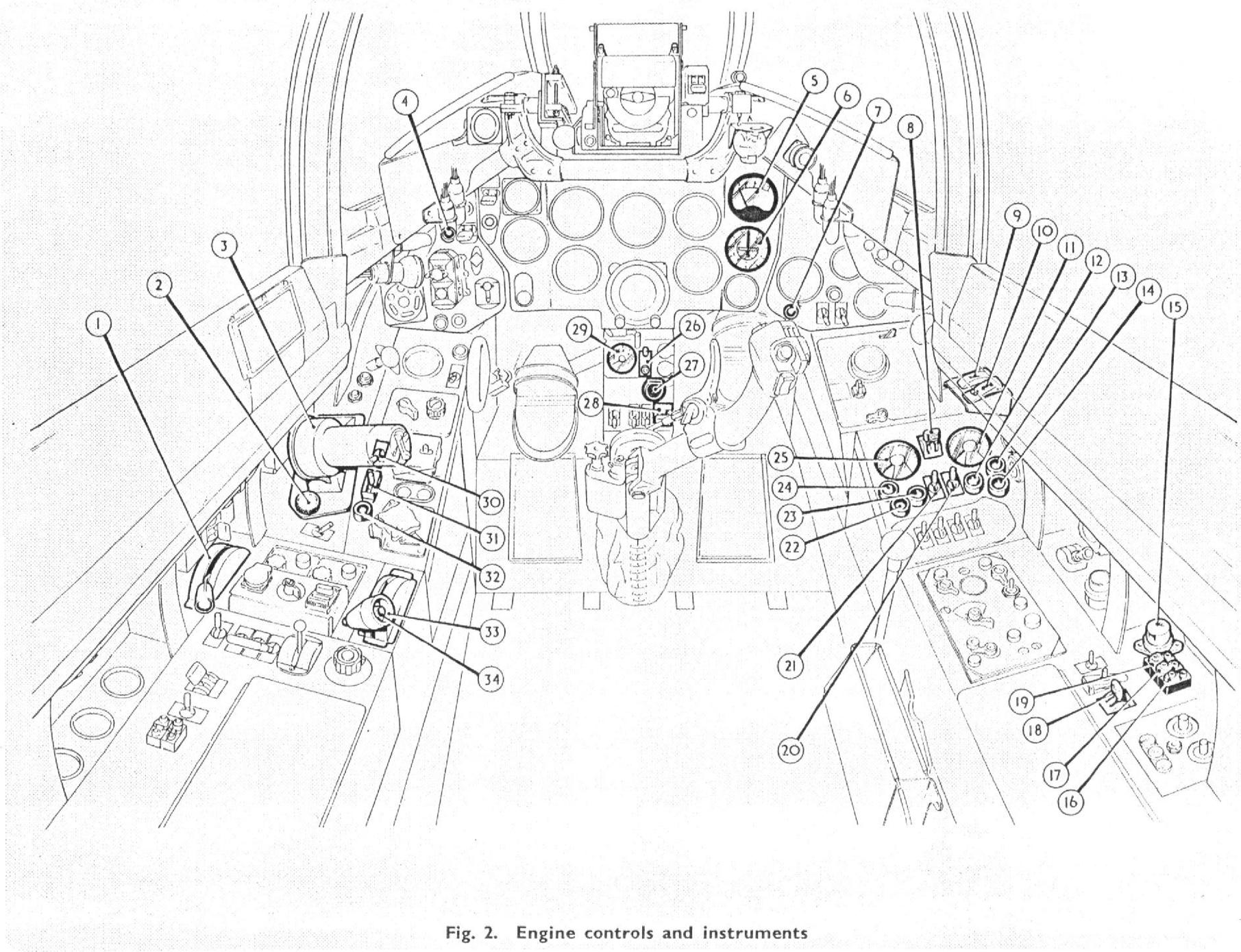


Fig. 2. Engine controls and instruments

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KEY TO FIG. 3

(ARMAMENT, NAVIGATION, SIGNALLING, RADIO AND MISCELLANEOUS)

- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1 BRAKE ACCUMULATOR PRESSURE GAUGE | 17 FIRE WARNING LIGHT AND EXTINGUISHER PUSH SWITCH
Pull knob to test bulb before take-off
Light indicates when temperature in engine bay and accessories bay exceeds 300 ± 30 deg. C. Pushing the knob will operate the fire extinguisher. The flame switches are of the re-setting type and indicate temporary surges of excessive heat, thus, flickering of the light in flight and during engine run on the ground may occur. Refer to Sect. 4, Chap. 5 | 35 MAP AND NOTECASE STOWAGE |
| 2 CROWBAR | | 36 EMERGENCY OXYGEN RELEASE |
| 3 AIRBRAKE RELAY BOX AND TEST SWITCH | | 37 I.F.F. SWITCHES |
| 4 HOOD CONTROL AND CLUTCH LEVER
When the clutch lever is in the FREE position it declutches the motor, and the hood control switch is moved automatically to the OFF position | 18 RED INSTRUMENT LIGHTS, Port and Starboard | 38 CAMERA GUN PUSH SWITCH |
| 5 MULTI-CHANNEL CARD HOLDER | 19 RED INSTRUMENT STANDBY LIGHTS, Port and Starboard | 39 GUN FIRING TRIGGER |
| 6 GYRO GUN SIGHT RANGE CONTROL | 20 RADIO COMPASS | 40 GENERATOR WARNING LIGHTS |
| 7 TELE-BRIEFING PUSH SWITCH | 21 SPARE BULB HOLDER | 41 GYRO GUN SIGHT CIRCUIT BREAKER |
| 8 TELE-BRIEFING LIGHT | 22 CAMERA EXPOSURE BRIGHT/DULL SWITCH | 42 BATTERY MASTER SWITCH
On for flight, switch off to isolate all electrical services except fire extinguisher |
| 9 EMERGENCY UNDERCARRIAGE CONTROL
Grasp the control between the fingers, press the centre button with thumb and pull control to operate | 23 RED INSTRUMENT LIGHTS, Port and Starboard | 43 CAMERA MASTER SWITCH |
| 10 TRIPLE PRESSURE GAUGE
Brake and main hydraulic system pressure | 24 ULTRA-VIOLET INSTRUMENT LIGHTS, Port and Starboard | 44 HOOD JETTISON CONTROL |
| 11 TARGET REJECTION SWITCH | 25 FORWARD RED SHELF LIGHTS—Port and Starboard | 45 RADAR RANGE ON/OFF SWITCH |
| 12 RADAR SUPPLY INDICATOR | 26 ULTRA-VIOLET INSTRUMENT LIGHTS, DIMMER SWITCH | 46 GYRO GUN SIGHT CONTROL UNIT |
| 13 GYRO GUN SIGHT EMERGENCY MANUAL RETRACTION CONTROL | 27 RED INSTRUMENT LIGHTS, DIMMER SWITCH | 47 PRESS TO TRANSMIT SWITCH |
| 14 GYRO GUN SIGHT | 28 RED SHELF LIGHTS, DIMMER SWITCH | 48 V.H.F. SELECTOR SWITCH |
| 15 GYRO GUN SIGHT AND MOUNTING CONTROL SWITCH | 29 RADIO COMPASS CONTROL PANEL LIGHT—DIMMER SWITCH | 49 V.H.F. CONTROL UNITS |
| 16 RADAR 'LOCKED-ON' INDICATOR | 30 ACCUMULATOR—EMERGENCY CABIN LIGHTS | 50 BOMB CONTROL PANEL |
| | 31 BUTT TEST SWITCH | 51 AFT RED SHELF LIGHTS—Port and Starboard |
| | 32 NAVIGATION LIGHT SWITCH | 52 RADAR TEST SWITCH |
| | 33 RADIO COMPASS CONTROL PANEL | 53 HOOD CIRCUIT BREAKER |
| | 34 GYRO GUN SIGHT RECORDER STOWAGE | 54 EMERGENCY AIR GAUGE—FLAPS |
| | | 55 EMERGENCY AIR GAUGE—UNDERCARRIAGE |

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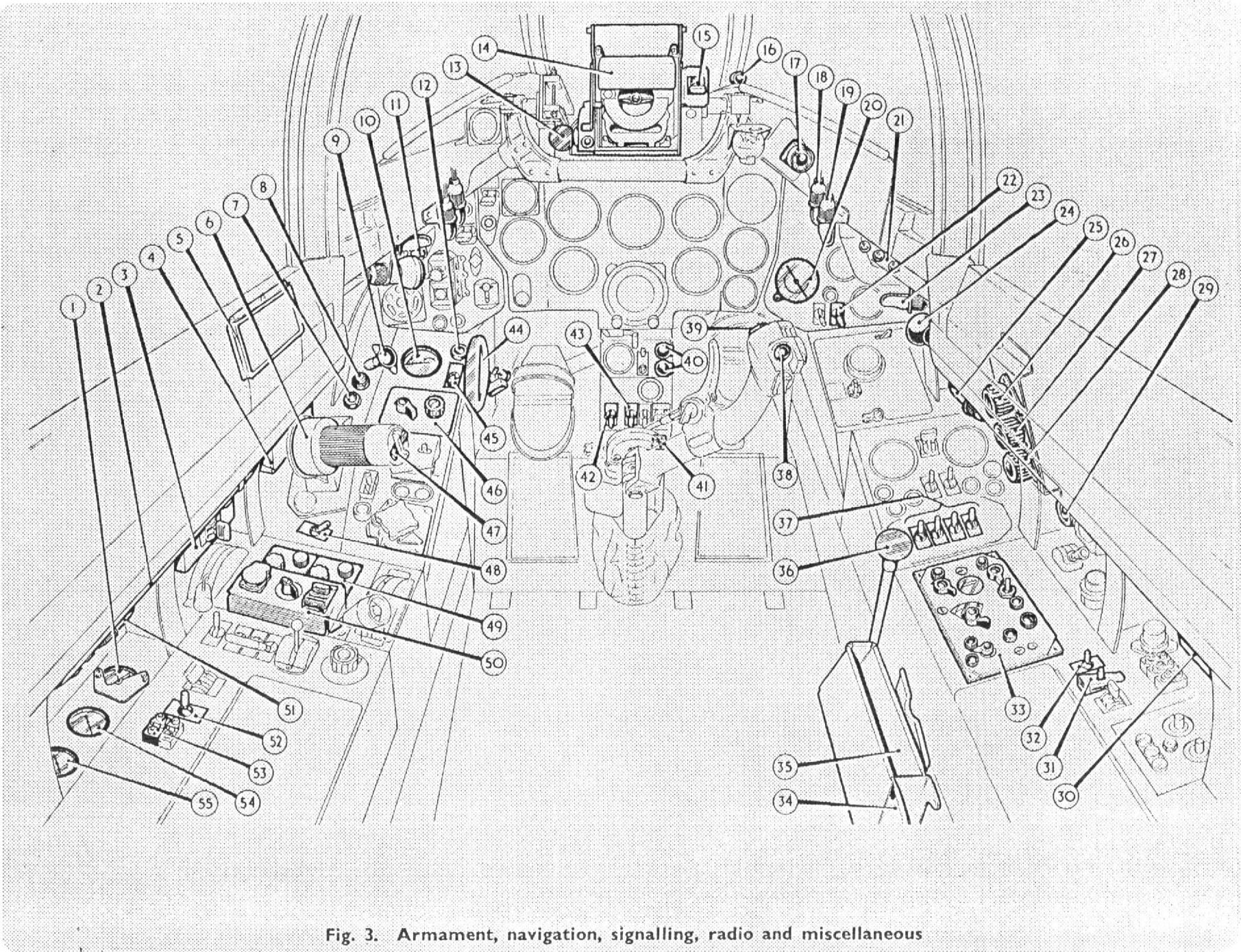


Fig. 3. Armament, navigation, signalling, radio and miscellaneous

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