

## Chapter I PILOT'S CONTROLS AND EQUIPMENT

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### WARNING

#### AN AIRCREW EJECTION SEAT IS FITTED TO THIS AIRCRAFT.

*This equipment is a source of potential danger to personnel and of damage to the aircraft. If the firing mechanism is operated while the aircraft is on the ground, the seat will be ejected, damage will be done to the aircraft and injury may be caused to any person in, or leaning into, the cabin.*

*Before any individual is allowed to enter the cabin, therefore, the N.C.O. i/c airframe servicing is to ensure that the safety strap is in position over the firing handle of the ejection seat and secured with the safety pin, or that the safety pin is fitted in the hole in the seat.*

### Introduction

1. This chapter gives the location of the 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 in all aircraft. 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, reference should be made to A.P.4347D, Pilot's Notes.

### Emergency controls

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

### Sliding hood

#### Operation from inside

3. The sliding hood is normally operated by an electric actuator, but provision is also made for manual operation. 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 in the cabin on the port side 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 hood rail lock indicators, which are located two on each side of the cabin and marked LOCKED are pointing to the centres 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 lever should be placed in the FREE position, thus leaving the hood free to slide. The hood may then be pushed open or closed from the outside as desired. For details of the emergency operation of the hood, reference should be made to Sect. 1, Chap. 3 of this volume.

### Note . . .

*The 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, is provided for external operation of the hood during cabin pressurization checks. This switch is normally OFF and disconnected from the electrical system. To use the switch it is first necessary to disconnect the control from the plug and socket break in the cabin on the 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.

### WARNING

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

KEY TO FIG. 1 (FLYING CONTROLS AND INSTRUMENTS)

- |  |  |   |
|--|--|---|
| 1 UNDERCARRIAGE INDICATOR<br>Light sequence:—<br>GREEN Undercarriage locked down<br>RED Undercarriage in process of retraction or extension<br>ALL OFF Undercarriage locked up | 13 RATE OF CLIMB INDICATOR   | 30 BRAKE PARKING LOCK<br>For temporary parking  |
| 2 UNDERCARRIAGE WARNING LIGHT<br>Lights when throttle is approximately one-third open and undercarriage locked down  | 14 TURN AND SLIP INDICATOR   | 31 PRESSURE HEAD HEATER SWITCH  |
| 3 UNDERCARRIAGE CONTROL<br>Interlocking push-buttons. Top for UP, bottom for DOWN<br>Note.—Clockwise rotation of outer ring of UP button overrides safety lock                 | 15 STANDBY COMPASS   | 32 RUDDER BAR CONTROL<br>For adjustment of rudder bar   |
| 4 FLAP CONTROL   | 16 DE-ICING PUMP SWITCH  | 33 GYRO COMPASS   |
| 5 AILERON POWER ASSISTANCE INDICATOR<br>Indicates power off  | 17 CLOCK   | 34 ALTIMETER  |
| 6 ELEVATOR POWER ASSISTANCE INDICATOR<br>Indicates power off   | 18 ACCELEROMETER   | 35 FLAP POSITION INDICATOR  |
| 7 AILERON POWER ASSISTANCE SWITCH<br>Use to disengage power  | 19 HYDRAULIC PRESSURE AUDIO WARNING SWITCH ▶<br>Use to cut-out audio warning                             | 36 AIR BRAKE INDICATOR<br>Indicates flaps out   |
| 8 ELEVATOR POWER ASSISTANCE SWITCH<br>Use to disengage power   | 20 CABIN PRESSURE WARNING LIGHT  | 37 TAIL PLANE STANDBY CONTROL   |
| 9 MACH METER   | 21 CABIN ALTIMETER   | 38 AIR BRAKE CONTROL  |
| 10 TAIL PLANE POSITION INDICATOR   | 22 H.P. OXYGEN CONTENTS GAUGE  | 39 AILERON AND RUDDER TAB POSITION INDICATORS   |
| 11 AIRSPEED INDICATOR  | 23 OXYGEN DEMAND REGULATOR   | 40 AILERON AND RUDDER TRIM TAB CONTROL SWITCH<br>Operation in natural sense (i.e. the aircraft responds to the attitude of the silhouette on the switch knob) |
| 12 ARTIFICIAL HORIZON  | 24 COMPASS CONTROL UNIT<br>Ground use only. Light indicates installation operative                       | 41 TRIM SWITCH LOCK<br>Engage when flying with ailerons power operated  |
|  | 25 TEST BUTTON ON ANTI-G SUIT VALVE<br>Depress to test installation                                      | 42 CABIN TEMPERATURE SELECTOR   |
|  | 26 ANTI-G PRESSURE GAUGE   | 43 CABIN TEMPERATURE CONTROL  |
|  | 27 ANTI-G SUIT CONTROL   | 44 CABIN PRESSURE SWITCH  |
|  | 28 TAIL PLANE INCIDENCE CONTROL (NORMAL)<br>Move up to increase tailplane incidence and down to decrease | 45 CABIN PRESSURE WARNING TEST<br>Ground use only   |
|  | 29 HYDRAULIC BRAKE CONTROL   | 46 TAIL PLANE MOTOR CIRCUIT BREAKER   |

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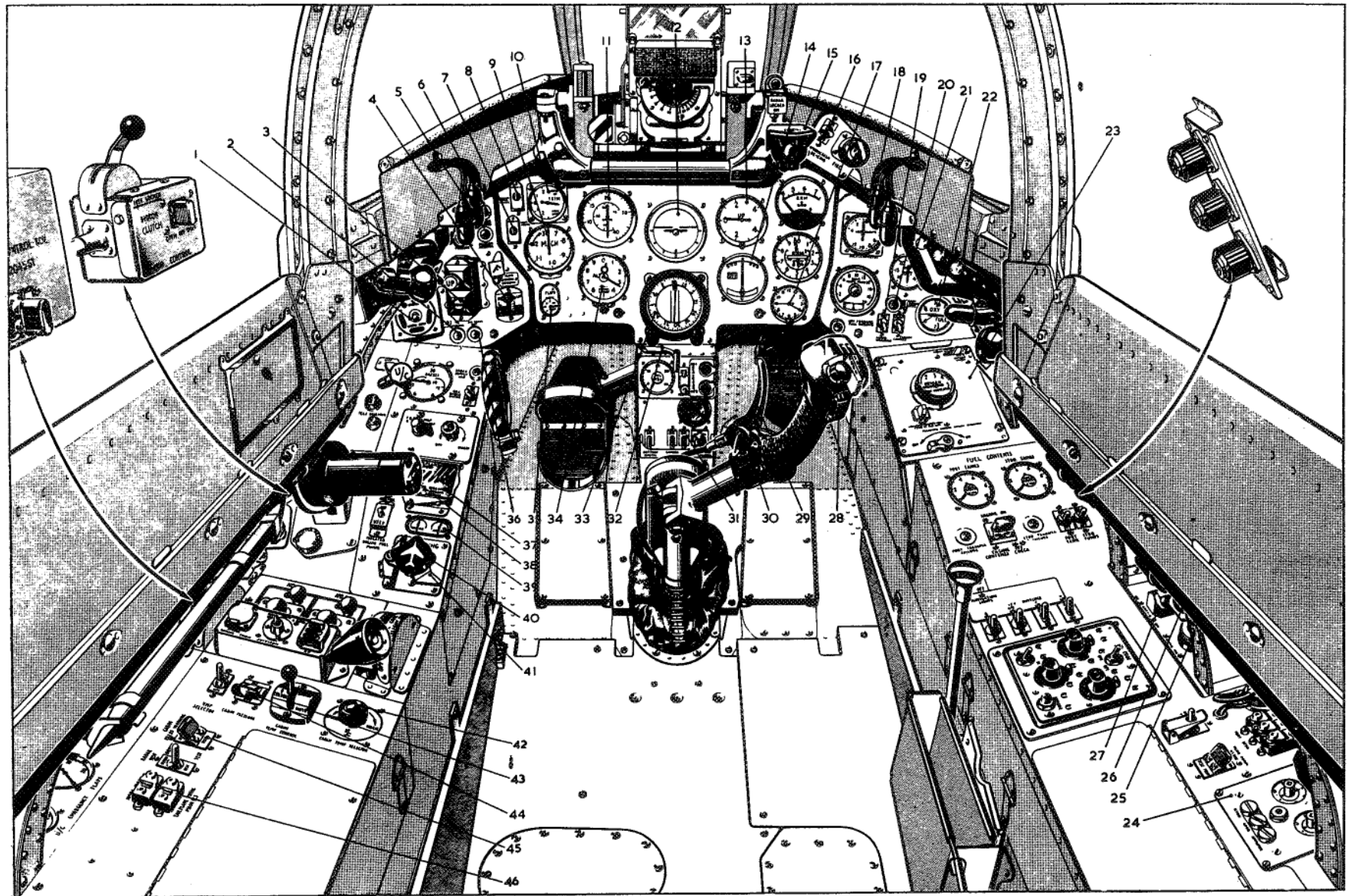


Fig. 1. Flying controls and instruments

**KEY TO FIG. 2 (ENGINE CONTROLS AND INSTRUMENTS)**

- |   |   |  |
|---|---|--|
| 1 HIGH PRESSURE FUEL COCK CONTROL<br>Moved forward from OFF to ON   | 9 IGNITION SWITCH<br>When off, isolates igniter units   | 18 FUEL TRANSFER FAILURE INDICATOR—PORT  |
| 2 LOW PRESSURE FUEL COCK CONTROL<br>Moved forward from OFF to ON  | 10 ENGINE MASTER SWITCH<br>Controls flight instruments, tank pumps, fuel pressure<br>and emergency fuel pump circuits | 19 ENGINE OFF—CONTENTS CHECK<br>Used to check total fuel content when engine is not<br>running |
| 3 RELIGHT SWITCH<br>Press with ignition switch (item 9) on for relight  | 11 STARTER PUSH-BUTTON<br>Actuates engine starting cycle  | 20 FUEL TRANSFER FAILURE INDICATOR—STARBOARD   |
| 4 THROTTLE DAMPER   | 12 EXHAUST GAS THERMOMETER  | 21 FUEL TANK BOOSTER PUMP SWITCH—PORT<br>Used for manual balancing of fuel contents.           |
| 5 THROTTLE<br>Aft for idling, forward for full throttle   | 13 TACHOMETER   | 22 FUEL TANK BOOSTER PUMP SWITCH—STARBOARD<br>Used for manual balancing of fuel contents       |
| 6 EMERGENCY ENGINE FUEL PUMP ISOLATING SWITCH<br>(Inoperative pending introduction of modified engine fuel<br>pump) | 14 FUEL PRESSURE WARNING INDICATOR<br>Indicates fuel pressure is low at engine inlet                                  | 23 AMMETER TEST SOCKET<br>Used for test prior to flight  |
| 7 EMERGENCY ENGINE FUEL PUMP ISOLATED WARNING<br>LIGHT  | 15 ENGINE ANTI-ICING SWITCH AND INDICATOR   | 24 CIRCUIT BREAKER, BOOSTER PUMP—PORT  |
| 8 OIL PRESSURE GAUGE  | 16 FUEL GAUGE—PORT TANKS  | 25 CIRCUIT BREAKER, BOOSTER PUMP—STARBOARD   |
|   | 17 FUEL GAUGE—STARBOARD TANKS   | 26 TANK PUMPS TEST SWITCH<br>Used for test prior to flight                                     |
|   |   | 27 CIRCUIT BREAKER, STARTER  |

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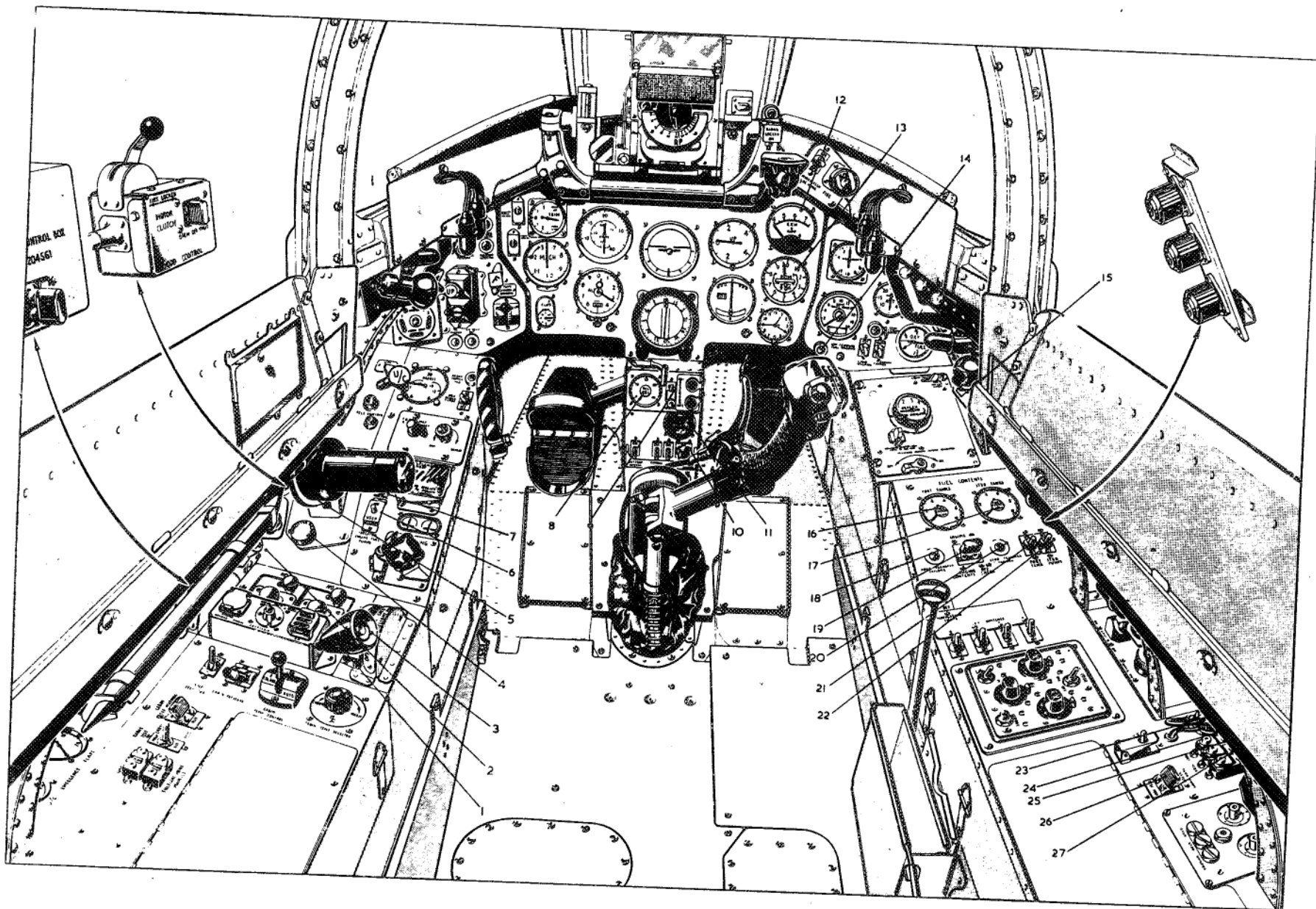


Fig. 2. Engine controls and instruments

(KEY TO FIG. 3 ARMAMENT, NAVIGATION, SIGNALLING, RADIO AND MISCELLANEOUS)

- 1 CROWBAR
- 2 AIRBRAKE RELAY BOX AND TEST SWITCH
- 3 HOOD RAIL LOCK INDICATORS—Port and Starboard
- 4 HOOD CONTROL AND CLUTCH LEVER  
When clutch lever is in FREE position to de-clutch motor, hood control switch is moved to the OFF position automatically
- 5 MULTI-CHANNEL CARD HOLDER
- 6 TELE-BRIEFING PUSH SWITCH
- 7 TELE-BRIEFING LIGHT
- 8 EMERGENCY UNDERCARRIAGE CONTROL  
Grasp the control between the fingers, press the centre button with thumb and pull control to operate
- 9 TRIPLE PRESSURE GAUGE  
Brakes and main hydraulic system pressure
- 10 TARGET REJECTION SWITCH
- 11 HYDRAULIC FAILURE WARNING LIGHT
- 12 HOOD JETTISON CONTROL  
Refer to Sect. 1, Chap. 3
- 13 EMERGENCY FLAPS CONTROL  
Grasp the control between the fingers, press the centre button with thumb and pull control to operate
- 14 EMERGENCY GYRO GUN SIGHT MANUAL RETRACTION CONTROL
- 15 RETRACTABLE GYRO GUN SIGHT MOUNTING
- 16 GYRO GUN SIGHT
- 17 GYRO GUN SIGHT AND MOUNTING CONTROL SWITCH
- 18 RADAR LOCKED ON INDICATOR LIGHT
- 19 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  $300 \pm 30$  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 an engine run on the ground may occur. Refer to Sect. 4, Chap. 5
- 20 D.M.E. INDICATOR
- 21 RED INSTRUMENT LIGHTS—Port and Starboard
- 22 RED INSTRUMENT STANDBY LIGHTS—Port and Starboard
- 23 CAMERA EXPOSURE SWITCH
- 24 SPARE BULB HOLDER
- 25 RED INSTRUMENT LIGHTS—Port and Starboard
- 26 RED STANDBY LIGHT SWITCH
- 27 ULTRA VIOLET INSTRUMENT LIGHTS—Port and Starboard
- 28 ULTRA VIOLET INSTRUMENT LIGHTS, DIMMER SWITCH
- 29 RED INSTRUMENT LIGHTS, DIMMER SWITCH
- 30 RED SHELF LIGHTS, DIMMER SWITCH
- 31 GYRO GUN SIGHT RECORDER STOWAGE
- 32 MAP AND NOTE CASE
- 33 ACCUMULATOR, EMERGENCY COCKPIT LIGHTS
- 34 BUTT TEST SWITCH
- 35 D.M.E. CONTROL UNIT
- 36 I.F.F. SWITCHES
- 37 AFT RED SHELF LIGHTS—Port and Starboard
- 38 NAVIGATION LIGHTS SWITCH
- 39 EMERGENCY OXYGEN RELEASE
- 40 FORWARD RED SHELF LIGHTS—Port and Starboard
- 41 CAMERA GUN PUSH SWITCH
- 42 GUN FIRING TRIGGER
- 43 GENERATOR WARNING LIGHTS
- 44 GYRO GUN SIGHT CIRCUIT BREAKER
- 45 CAMERA MASTER SWITCH
- 46 BATTERY MASTER SWITCH  
On for flight, switch off to isolate all electrical services except fire extinguisher
- 47 RADAR SUPPLY INDICATOR
- 48 GYRO GUN SIGHT MANUAL AUTOMATIC SWITCH
- 49 GYRO GUN SIGHT CONTROL UNIT
- 50 PRESS TO TRANSMIT SWITCH
- 51 GYRO GUN SIGHT RANGE CONTROL
- 52 V.H.F. RADIO CONTROL UNITS
- 53 BOMB/R.P. CONTROL PANEL
- 54 V.H.F. SELECTOR SWITCH
- 55 BRAKE ACCUMULATOR PRESSURE GAUGE
- 56 RADAR TEST SWITCH
- 57 HOOD CIRCUIT BREAKER
- 58 EMERGENCY AIR GAUGE, FLAPS
- 59 EMERGENCY AIR GAUGE, UNDERCARRIAGE

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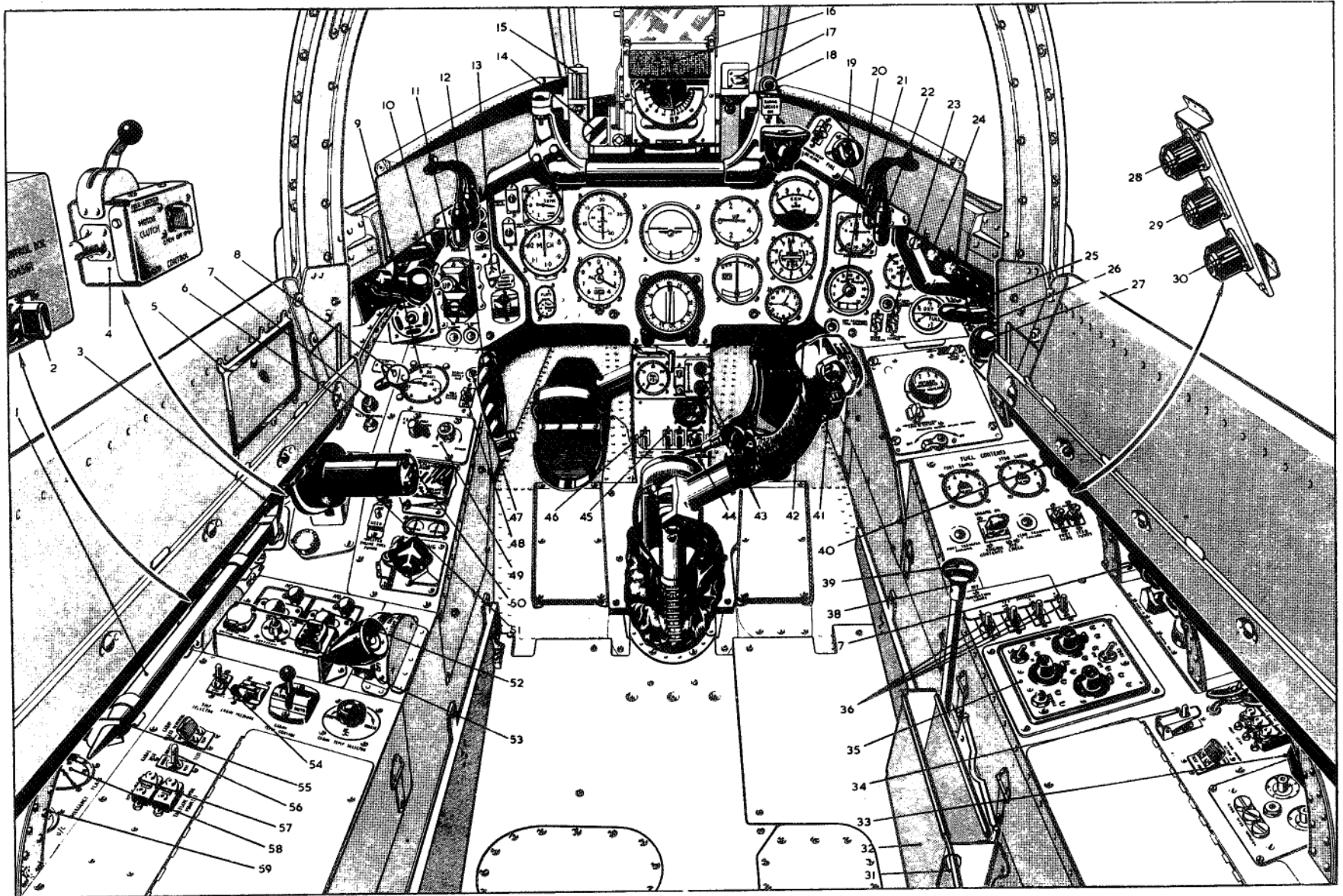



Fig. 3. Armament, navigation, signalling, radio and miscellaneous



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