

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. 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 circumstances and manner in which they are to be used, reference should be made to the Pilot's Notes for this aircraft.

Emergency controls**General**

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

Cabin sliding hood**Operation from inside**

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

Note . . .

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.

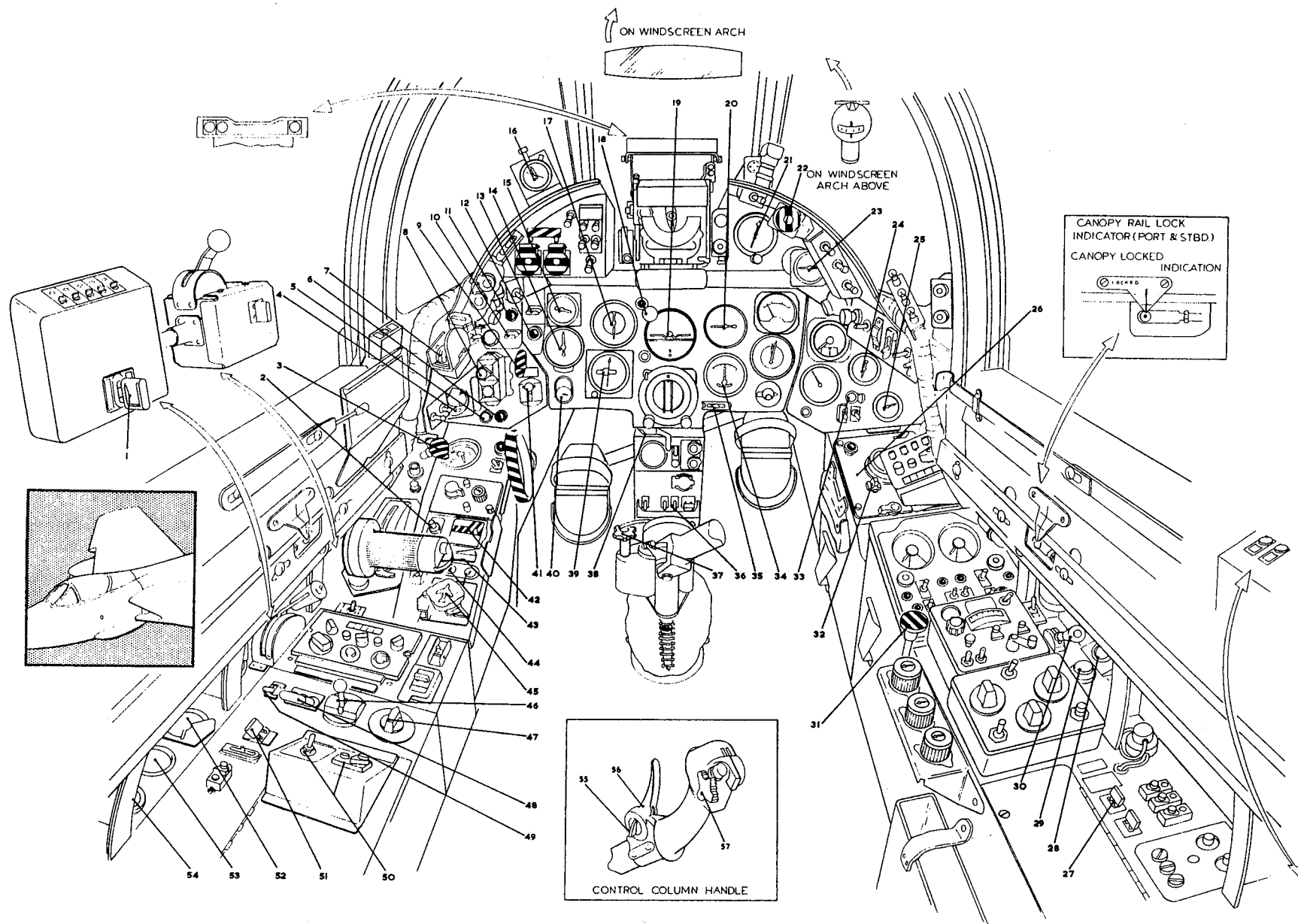


Fig. 1 Flying controls and instruments
◀ (Completely revised) ▶

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KEY TO FIG.1

(Flying controls and instruments)

◀ (Completely revised) ▶

- | | | |
|--|--|--|
| 1 AIR BRAKE RELAY BOX AND TEST SWITCH | 16 STOP WATCH | 40 FLAP POSITION INDICATOR |
| 2 TAIL PLANE SELECTOR SWITCH | 17 AIRSPEED INDICATOR | 41 FLAP CONTROL SELECTOR SWITCH |
| 3 UNDERCARRIAGE EMERGENCY CONTROL | 18 STICK CENTRING WHITE SPOT | 42 TAIL PLANE TRIM STANDBY CONTROL SWITCH |
| 4 UNDERCARRIAGE INDICATOR | 19 ARTIFICIAL HORIZON | 43 AIR BRAKE CONTROL SWITCH |
| Lamp sequence:- | 20 RATE OF CLIMB INDICATOR | 44 AILERON AND RUDDER TRIM TAB POSITION INDICATORS |
| GREEN Undercarriage locked down | 21 STANDBY ALTIMETER | 45 AILERON AND RUDDER TRIM TAB CONTROL SWITCH AND AILERON TRIM LOCK |
| RED Undercarriage unlocked | 22 FIRE WARNING LAMP AND EXTINGUISHER PUSH SWITCH | Operation in natural sense, i.e., aircraft responds to the attitude of the silhouette on the switch knob. Engage the lock when flying with ailerons power operated |
| ALL OFF Undercarriage locked up | 23 ACCELEROMETER | |
| 5 UNDERCARRIAGE WARNING LAMP | 24 CABIN ALTIMETER | |
| Illuminates when throttle is approximately 1/3 open and the undercarriage is not locked down | 25 OXYGEN CONTENTS GAUGE | |
| 6 AIR BRAKE INDICATOR | 26 OXYGEN DEMAND REGULATOR AND FLOW INDICATOR | |
| Indicates white when air brake is extended | 27 FIRE WARNING LAMP TEST SWITCH | 46 CABIN TEMPERATURE CONTROL SWITCH |
| 7 BRAKING PARACHUTE CONTROL SWITCH AND INDICATOR | 28 ANTI-G AIR SUPPLY PRESSURE GAUGE | 47 CABIN TEMPERATURE SELECTOR SWITCH |
| 8 UNDERCARRIAGE CONTROL SELECTOR SWITCH UNIT | 29 ANTI-G VALVE TEST BUTTON | 48 CABIN PRESSURE CONTROL SWITCH |
| Interlocking push switches. | Depress to test installation | 49 CABIN FLOOD AIR FLOW SWITCH |
| Top for UP, bottom for DOWN. | 30 ANTI-G CONTROL SELECTOR | 50 BRAKING PARACHUTE TEST SWITCH AND CIRCUIT BREAKER |
| Clockwise rotation of outer ring of UP push switch overrides the safety lock | 31 EMERGENCY OXYGEN RELEASE CONTROL | 51 CABIN PRESSURE WARNING LAMP TEST SWITCH |
| 9 FLAP EMERGENCY CONTROL | 32 EMERGENCY 100% OXYGEN SUPPLY SWITCH | 52 WHEEL BRAKE ACCUMULATOR PRESSURE GAUGE |
| 10 AILERON POWER CONTROL SWITCH | 33 CABIN PRESSURE WARNING LAMP | 53 FLAP EMERGENCY AIR PRESSURE GAUGE |
| 11 ELEVATOR POWER CONTROL INDICATOR | 34 TURN AND SLIP INDICATOR | 54 UNDERCARRIAGE EMERGENCY AIR PRESSURE GAUGE |
| Indicates white with power OFF | 35 TURN AND SLIP INDICATOR NORMAL/ EMERGENCY SUPPLY SWITCH | 55 WHEEL BRAKE PARKING LOCK |
| 12 AILERON POWER CONTROL INDICATOR | 36 PRESSURE HEAD HEATER SWITCH | 56 WHEEL BRAKE CONTROL LEVER |
| Indicates white with power OFF | 37 AILERON SPRING FEEL UNIT CONTROL HANDWHEEL | 57 TAIL PLANE INCIDENCE CONTROL SWITCH |
| 13 ELEVATOR POWER CONTROL SWITCH | 38 RUDDER BAR ADJUSTMENT CONTROL LEVER | Normal |
| 14 MACHMETER | For adjustment of rudder bar for leg reach | |
| 15 TAIL PLANE POSITION INDICATOR | 39 ALTIMETER | |

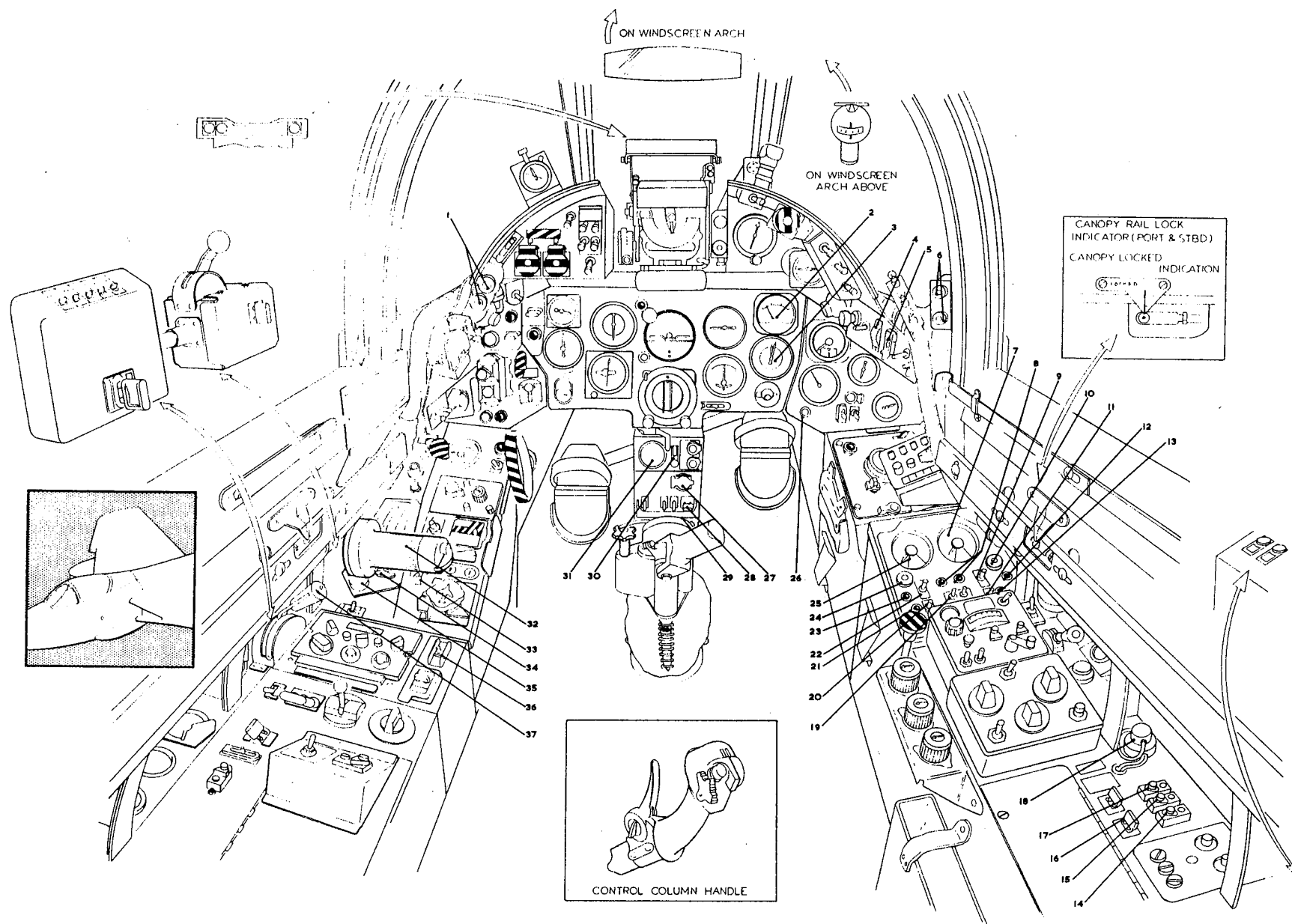


Fig. 2 Engine controls and instruments
◀ (Completely revised) ▶

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KEY TO FIG. 2

(Engine controls and instruments)

◀ (Completely revised) ▶

- | | |
|--|---|
| 1 FUEL LOW LEVEL WARNING LAMPS | 21 FUEL COCK POSITION INDICATOR - PORT |
| 2 EXHAUST GAS THERMOMETER | 22 FUEL BOOSTER PUMP SWITCH - PORT |
| 3 TACHOMETER | 23 FUEL TRANSFER INDICATOR - PORT |
| 4 ENGINE ANTI-ICING INDICATOR | 24 FUEL BOOSTER PUMP FAILURE WARNING LAMP - PORT |
| 5 ENGINE ANTI-ICING SWITCH | 25 FUEL CONTENTS GAUGE - PORT TANKS |
| 6 FUEL BOOSTER PUMP FAILURE WARNING LAMPS | 26 FUEL LOW PRESSURE WARNING LAMP |
| 7 FUEL CONTENTS GAUGE - STARBOARD TANKS | 27 ENGINE STARTER PUSH SWITCH AND COVER FLAP
Actuates engine starting cycle |
| 8 OUTBOARD DROP TANK EMPTY INDICATORS - PORT AND STARBOARD TANKS | 28 ENGINE MASTER SWITCH
Controls engine starter circuits, fuel tank booster pumps, fuel pressure indicator and a.c. supplies circuit |
| 9 FUEL BOOSTER PUMP SWITCH - STARBOARD | 29 ENGINE STARTER MASTER BAR |
| 10 FUEL BOOSTER PUMP FAILURE WARNING LAMP - STARBOARD | 30 ENGINE IGNITION SWITCH
Isolates ignition units when OFF |
| 11 FUEL TANK SELECTOR SWITCH - STARBOARD TANKS | 31 ENGINE OIL PRESSURE GAUGE |
| 12 FUEL TRANSFER INDICATOR - STARBOARD | 32 THROTTLE
Aft for idling, forward for full throttle. Movement of the throttle also opens and closes the high pressure fuel cock |
| 13 FUEL COCK POSITION INDICATOR - STARBOARD | 33 JET PIPE TEMPERATURE CONTROL SWITCH |
| 14 ENGINE STARTER CIRCUIT BREAKER | 34 HIGH PRESSURE FUEL COCK 'OFF' TRIGGER |
| 15 FUEL BOOSTER PUMP CIRCUIT BREAKER - STARBOARD | 35 THROTTLE DAMPER |
| 16 FUEL BOOSTER PUMPS TEST SWITCH
Used for test prior to flight | 36 ENGINE RELIGHT SWITCH
Press with ignition switch (item 30) ON for relight |
| 17 FUEL BOOSTER PUMP CIRCUIT BREAKER - PORT | 37 LOW PRESSURE FUEL COCK CONTROL LEVER |
| 18 AMMETER TEST SOCKET
Used for test prior to flight | |
| 19 FUEL LOW LEVEL WARNING LAMPS TEST SWITCH | |
| 20 FUEL TANK SELECTOR SWITCH - PORT TANKS | |

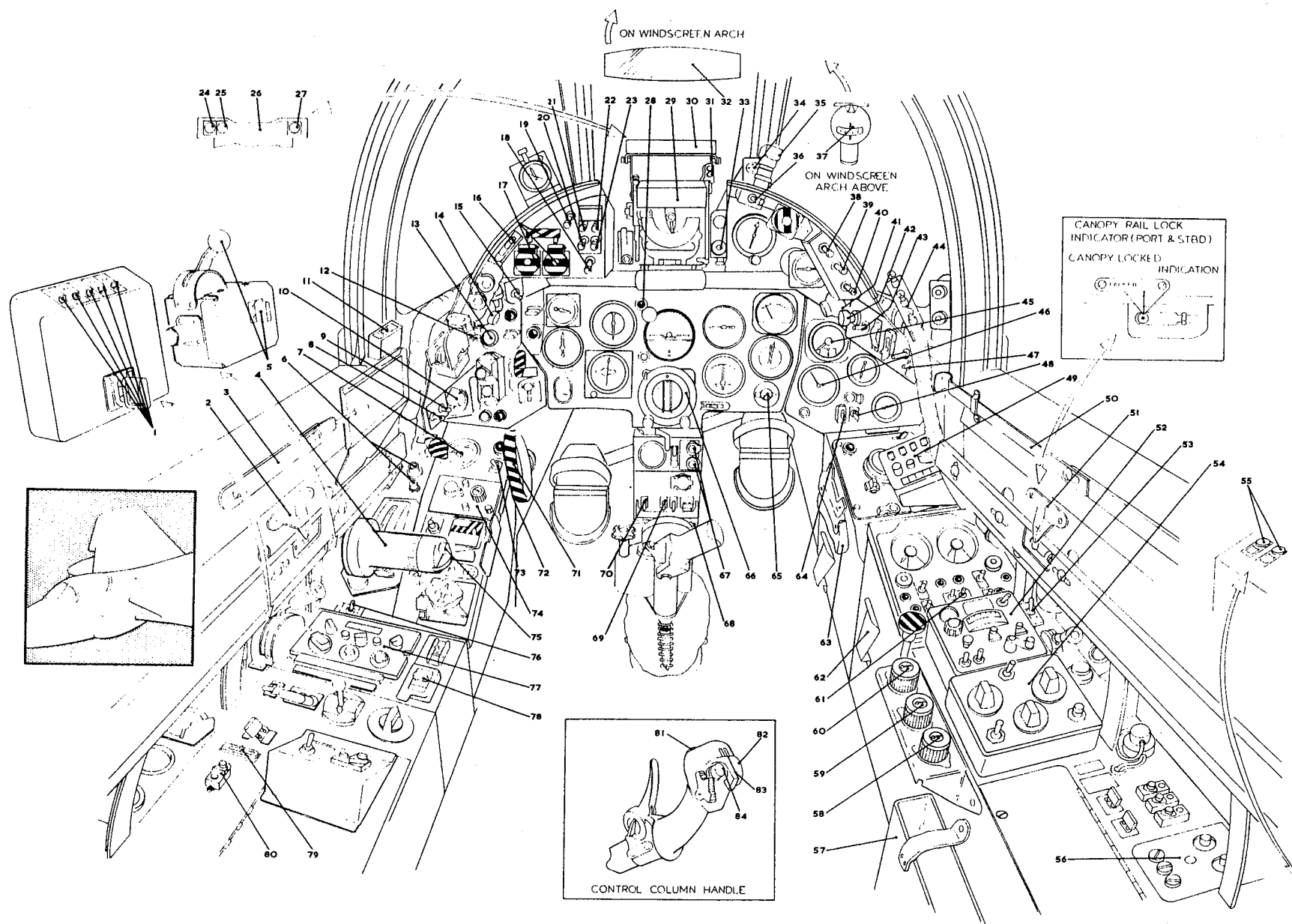


Fig. 3 Armament, navigation, radio and miscellaneous
◀ (Completely revised) ▶

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KEY TO FIG. 3

(Armament, navigation, radio and miscellaneous)

◀ (Completely revised) ▶

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|--|--|----------------------------------|--|
| 1 ARMAMENT CIRCUIT BREAKERS
Guns, RP, Jettison 1, Jettison 2, Bombs | 25 STANDBY RELEASE SWITCH | } TARGET TOWING
AIRCRAFT ONLY | 56 COMPASS CORRECTOR CONTROL UNIT
Ground use only. Lamp illuminated
indicates installation inoperative |
| 2 HOOD RAIL LOCK INDICATOR - PORT | 26 TARGET TOWING CONTROL UNIT | | 57 GYRO GUNSIGHT CAMERA RECORDER
STOWAGE |
| 3 CABIN CONDITIONING AIR SPRAY SLIDE -
PORT | 27 STREAM SWITCH AND INDICATOR
LAMP - STARBOARD | | 58 SHELF RED LIGHTING DIMMER SWITCH |
| 4 GYRO GUNSIGHT MANUAL RANGE
CONTROL TWISTGRIP | 28 INVERTER CHANGEOVER
INDICATOR | | 59 INSTRUMENT PANEL RED LIGHTING
DIMMER SWITCH |
| 5 HOOD CONTROL SWITCH 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 | 29 GYRO GUNSIGHT | | 60 ULTRA-VIOLET LIGHTING DIMMER
SWITCH |
| 6 TELE-BRIEFING PUSH SWITCH AND LAMP | 30 GYRO GUNSIGHT CAMERA
RECORDER | | 61 NAVIGATION LAMPS SWITCH |
| 7 HYDRAULIC TRIPLE PRESSURE GAUGE
Wheel brake and main hydraulic systems
pressure | 31 RADAR 'LOCKED ON' LAMPS | | 62 MAP STOWAGE |
| 8 RP MASTER SWITCH | 32 REAR VIEW MIRROR | | 63 GYRO GUNSIGHT CAMERA RECORDER
STOWAGE |
| 9 RP MODE SWITCH | 33 TARGET TOWING CONTINUITY
SOCKET | | 64 HYDRAULIC FAILURE AUDIO WARNING
CUT-OUT SWITCH |
| 10 RP SALVO SELECTOR SWITCH | 34 MASTER ARMAMENT SAFETY BREAK
'LIVE' CONNECTOR | | 65 GYRO COMPASS LIGHTING SWITCH |
| 11 SAFETY PINS STOWAGE
Ejection seat and hood jettison pins | 35 MASTER ARMAMENT SAFETY BREAK -
STOWED SAFE | | 66 GYRO COMPASS |
| 12 RADAR RANGING TARGET REJECT SWITCH | 36 GYRO GUNSIGHT ON/OFF SWITCH | | 67 GENERATOR POWER FAILURE WARNING
LAMPS |
| 13 HYDRAULIC FAILURE WARNING LAMP | 37 STANDBY COMPASS | | 68 GYRO GUNSIGHT CIRCUIT BREAKER |
| 14 CABIN CONDITIONING LOUVRE | 38 GUNS MASTER SWITCH | | 69 CAMERA MASTER SWITCH |
| 15 RADAR PRESENTATION SWITCH | 39 GUNS SELECTOR SWITCH | | 70 BATTERY MASTER SWITCH
Switch OFF to isolate all electrical
services except for fire extinguisher
circuit |
| 16 STANDBY UHF CHANNEL SELECTOR
SWITCH | 40 BUTT TEST SWITCH | | 71 HOOD JETTISON CONTROL HANDLE |
| 17 PYLON STORES JETTISON SWITCHES AND
'CLEAR AIRCRAFT' JETTISON SWITCH
BAR | 41 CABIN CONDITIONING LOUVRE | | 72 RADAR RANGING SUPPLY INDICATOR |
| 18 BOMB FUZING SWITCH | 42 IFF/SSR FAILURE WARNING LAMP | | 73 RADAR RANGING ON/OFF SWITCH |
| 19 BOMB MASTER SWITCH | 43 IFF/SSR CONTROL UNIT LIGHTING
SWITCH | | 74 GYRO GUNSIGHT CONTROL UNIT |
| 20 OUTBOARD PYLON SELECTOR SWITCH -
PORT | 44 GYRO GUNSIGHT SPARE FILAMENT
HOLDER | | 75 PRESS-TO-TRANSMIT SWITCH |
| 21 INBOARD PYLON SELECTOR SWITCH -
PORT | 45 DME INDICATOR | | 76 VHF/UHF TONE SWITCH |
| 22 INBOARD PYLON SELECTOR SWITCH -
STARBOARD | 46 RADIO COMPASS INDICATOR | | 77 VHF/UHF CONTROL UNIT |
| 23 OUTBOARD PYLON SELECTOR SWITCH -
STARBOARD | 47 EMERGENCY LIGHTING SWITCH | | 78 VHF/UHF NORMAL/STANDBY SET
SELECTOR SWITCH |
| 24 STREAM SWITCH AND INDICATOR
LAMP - PORT } TARGET TOWING
AIRCRAFT ONLY | 48 CAMERA APERTURE SWITCH | | 79 INVERTER SELECTOR SWITCH |
| | 49 IFF/SSR CONTROL UNIT | | 80 HOOD MOTOR CIRCUIT BREAKER |
| | 50 CABIN CONDITIONING AIR SPRAY
SLIDE - STARBOARD | | 81 GUN FIRING TRIGGER |
| | 51 HOOD RAIL LOCK INDICATOR -
STARBOARD | | 82 BOMB/RP SWITCH AND SAFETY FLAP |
| | 52 RADIO COMPASS CONTROL UNIT | | 83 GUN FIRING SAFETY FLAP AND TRIGGER
RELEASE |
| | 53 UHF/MIX SWITCH | | 84 CAMERA CONTROL PUSH SWITCH |
| | 54 DME CONTROL UNIT | | |
| | 55 INVERTER CIRCUIT BREAKERS | | |

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