

## Chapter I

## 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.

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## 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.*

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## 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. I 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.*

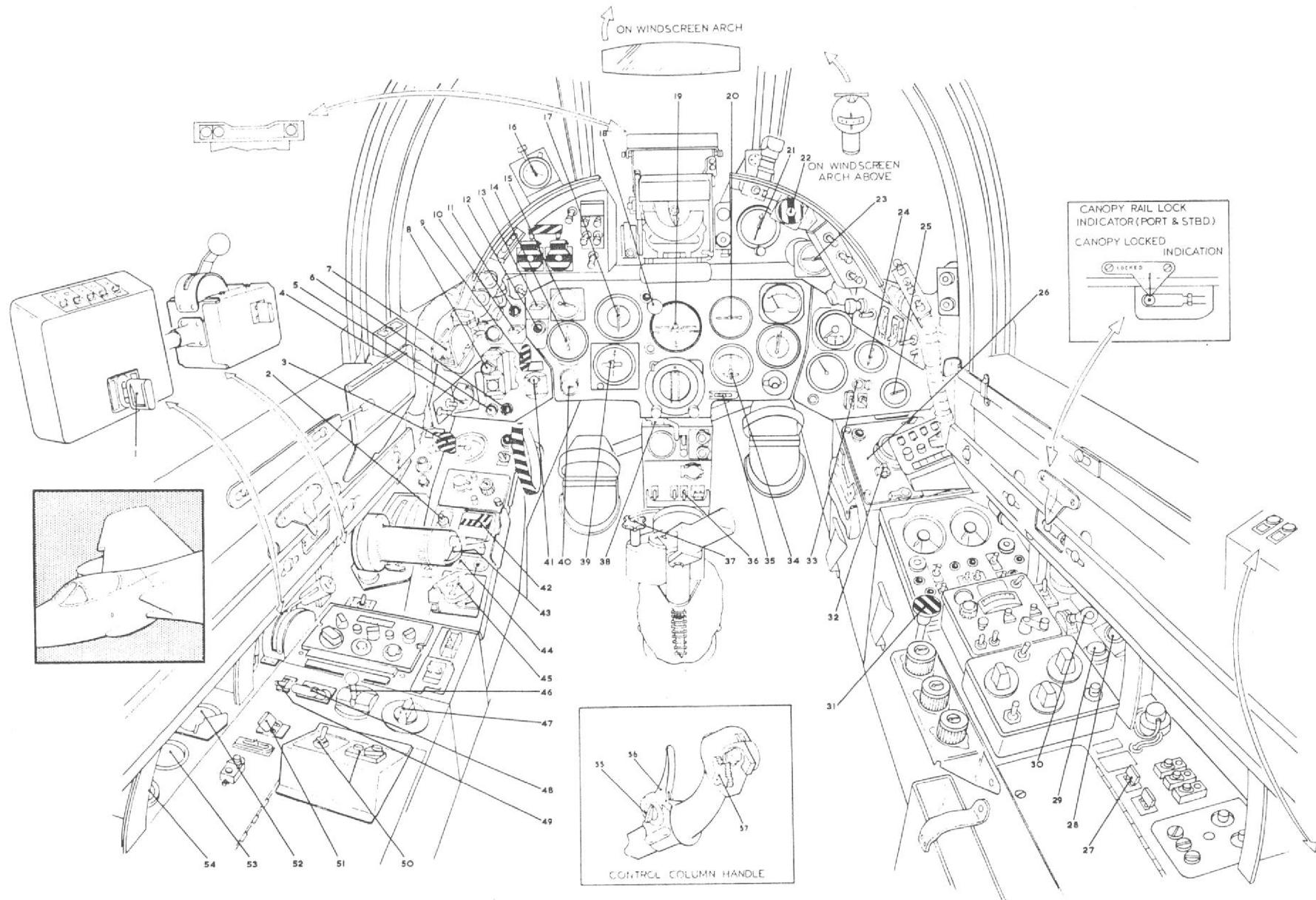


Fig. 1 Flying controls and instruments  
 ▲ (Completely revised) ▶

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## KEY TO FIG.1

(Flying controls and instruments)

◀ (Completely revised) ▶

- 1 AIR BRAKE RELAY BOX AND TEST SWITCH
- 2 TAIL PLANE SELECTOR SWITCH
- 3 UNDERCARRIAGE EMERGENCY CONTROL
- 4 UNDERCARRIAGE INDICATOR
 

Lamp sequence:-

GREEN	Undercarriage locked down
RED	Undercarriage unlocked
ALL OFF	Undercarriage locked up
- 5 UNDERCARRIAGE WARNING LAMP
 

Illuminates when throttle is approximately 1/3 open and the undercarriage is not locked down
- 6 AIR BRAKE INDICATOR
 

Indicates white when air brake is extended
- 7 BRAKING PARACHUTE CONTROL SWITCH AND INDICATOR
- 8 UNDERCARRIAGE CONTROL SELECTOR SWITCH UNIT
 

Interlocking push switches.  
Top for UP, bottom for DOWN.  
Clockwise rotation of outer ring of UP push switch overrides the safety lock
- 9 FLAP EMERGENCY CONTROL
- 10 AILERON POWER CONTROL SWITCH
- 11 ELEVATOR POWER CONTROL INDICATOR
 

Indicates white with power OFF
- 12 AILERON POWER CONTROL INDICATOR
 

Indicates white with power OFF
- 13 ELEVATOR POWER CONTROL SWITCH
- 14 MACHMETER
- 15 TAIL PLANE POSITION INDICATOR

- 16 STOP WATCH
- 17 AIRSPEED INDICATOR
- 18 STICK CENTRING WHITE SPOT
- 19 ARTIFICIAL HORIZON
- 20 RATE OF CLIMB INDICATOR
- 21 STANDBY ALTIMETER
- 22 FIRE WARNING LAMP AND EXTINGUISHER PUSH SWITCH
- 23 ACCELEROMETER
- 24 CABIN ALTIMETER
- 25 OXYGEN CONTENTS GAUGE
- 26 OXYGEN DEMAND REGULATOR AND FLOW INDICATOR
- 27 FIRE WARNING LAMP TEST SWITCH
- 28 ANTI-G AIR SUPPLY PRESSURE GAUGE
- 29 ANTI-G VALVE TEST BUTTON
 

Depress to test installation
- 30 ANTI-G CONTROL SELECTOR
- 31 EMERGENCY OXYGEN RELEASE CONTROL
- 32 EMERGENCY 100% OXYGEN SUPPLY SWITCH
- 33 CABIN PRESSURE WARNING LAMP
- 34 TURN AND SLIP INDICATOR
- 35 TURN AND SLIP INDICATOR NORMAL/EMERGENCY SUPPLY SWITCH
- 36 PRESSURE HEAD HEATER SWITCH
- 37 AILERON SPRING FEEL UNIT CONTROL HANDWHEEL
- 38 RUDDER BAR ADJUSTMENT CONTROL LEVER
 

For adjustment of rudder bar for leg reach
- 39 ALTIMETER
- 40 FLAP POSITION INDICATOR
- 41 FLAP CONTROL SELECTOR SWITCH
- 42 TAIL PLANE TRIM STANDBY CONTROL SWITCH
- 43 AIR BRAKE CONTROL SWITCH
- 44 AILERON AND RUDDER TRIM TAB POSITION INDICATORS
- 45 AILERON AND RUDDER TRIM TAB CONTROL SWITCH AND AILERON TRIM LOCK
 

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
- 46 CABIN TEMPERATURE CONTROL SWITCH
- 47 CABIN TEMPERATURE SELECTOR SWITCH
- 48 CABIN PRESSURE CONTROL SWITCH
- 49 CABIN FLOOD AIR FLOW SWITCH
- 50 BRAKING PARACHUTE TEST SWITCH AND CIRCUIT BREAKER
- 51 CABIN PRESSURE WARNING LAMP TEST SWITCH
- 52 WHEEL BRAKE ACCUMULATOR PRESSURE GAUGE
- 53 FLAP EMERGENCY AIR PRESSURE GAUGE
- 54 UNDERCARRIAGE EMERGENCY AIR PRESSURE GAUGE
- 55 WHEEL BRAKE PARKING LOCK
- 56 WHEEL BRAKE CONTROL LEVER
- 57 TAIL PLANE INCIDENCE CONTROL SWITCH
 

Normal

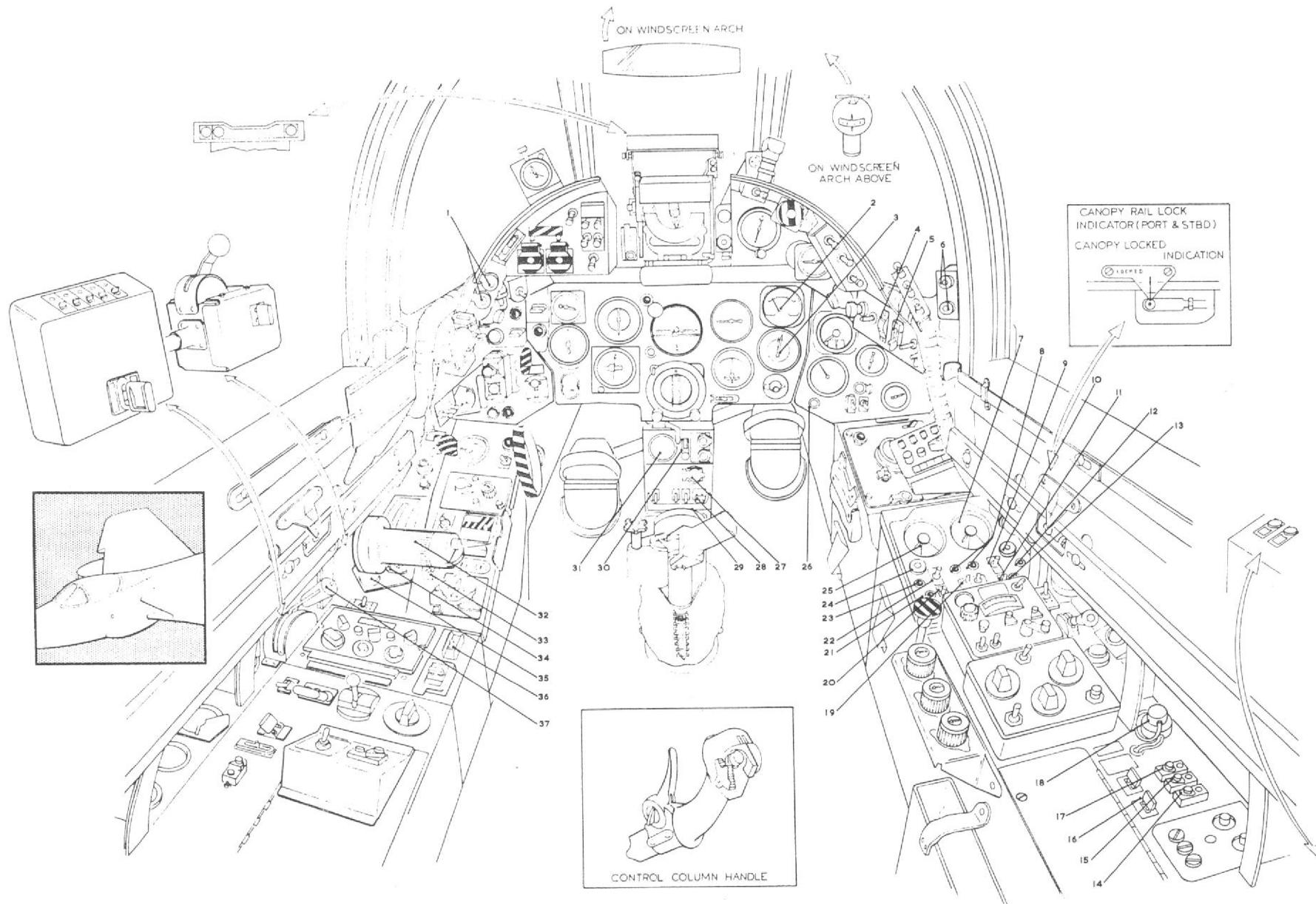


Fig. 2 Engine controls and instruments  
 ◀ (Completely revised) ▶

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## KEY TO FIG. 2

(Engine controls and instruments)

◀ (Completely revised) ▶

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

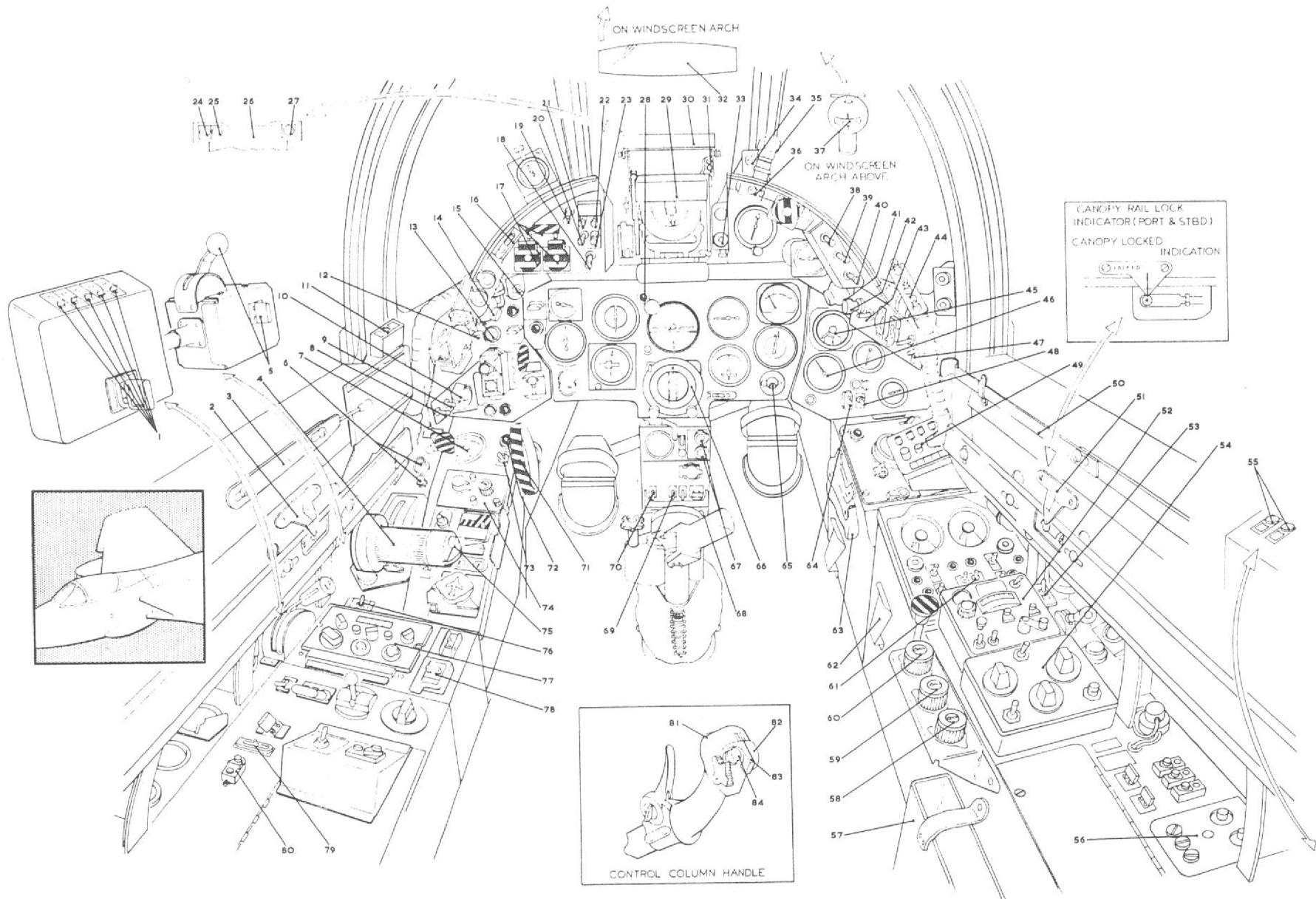


Fig. 3 Armament, navigation, radio and miscellaneous  
 ◀ (Completely revised) ▶

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## KEY TO FIG. 3

(Armament, navigation, radio and miscellaneous)

◀ (Completely revised) ▶

1 ARMAMENT CIRCUIT BREAKERS  
Guns, RP, Jettison 1, Jettison 2, Bombs

2 HOOD RAIL LOCK INDICATOR - PORT

3 CABIN CONDITIONING AIR SPRAY SLIDE - PORT

4 GYRO GUNSIGHT MANUAL RANGE CONTROL TWISTGRIP

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

6 TELE-BRIEFING PUSH SWITCH AND LAMP

7 HYDRAULIC TRIPLE PRESSURE GAUGE  
Wheel brake and main hydraulic systems pressure

8 RP MASTER SWITCH

9 RP MODE SWITCH

10 RP SALVO SELECTOR SWITCH

11 SAFETY PINS STOWAGE  
Ejection seat and hood jettison pins

12 RADAR RANGING TARGET REJECT SWITCH

13 HYDRAULIC FAILURE WARNING LAMP

14 CABIN CONDITIONING LOUVRE

15 RADAR PRESENTATION SWITCH

16 STANDBY UHF CHANNEL SELECTOR SWITCH

17 PYLON STORES JETTISON SWITCHES AND 'CLEAR AIRCRAFT' JETTISON SWITCH BAR

18 BOMB FUZING SWITCH

19 BOMB MASTER SWITCH

20 OUTBOARD PYLON SELECTOR SWITCH - PORT

21 INBOARD PYLON SELECTOR SWITCH - PORT

22 INBOARD PYLON SELECTOR SWITCH - STARBOARD

23 OUTBOARD PYLON SELECTOR SWITCH - STARBOARD

24 STREAM SWITCH AND INDICATOR LAMP - PORT } TARGET TOWING AIRCRAFT ONLY

25 STANDBY RELEASE SWITCH

26 TARGET TOWING CONTROL UNIT

27 STREAM SWITCH AND INDICATOR LAMP - STARBOARD } TARGET TOWING AIRCRAFT ONLY

28 INVERTER CHANGE OVER INDICATOR

29 GYRO GUNSIGHT

30 GYRO GUNSIGHT CAMERA RECORDER

31 RADAR 'LOCKED ON' LAMPS

32 REAR VIEW MIRROR

33 TARGET TOWING CONTINUITY SOCKET

34 MASTER ARMAMENT SAFETY BREAK 'LIVE' CONNECTOR

35 MASTER ARMAMENT SAFETY BREAK - STOWED SAFE

36 GYRO GUNSIGHT ON/OFF SWITCH

37 STANDBY COMPASS

38 GUNS MASTER SWITCH

39 GUNS SELECTOR SWITCH

40 BUTT TEST SWITCH

41 CABIN CONDITIONING LOUVRE

42 IFF/SSR FAILURE WARNING LAMP

43 IFF/SSR CONTROL UNIT LIGHTING SWITCH

44 GYRO GUNSIGHT SPARE FILAMENT HOLDER

45 DME INDICATOR

46 RADIO COMPASS INDICATOR

47 EMERGENCY LIGHTING SWITCH

48 CAMERA APERTURE SWITCH

49 IFF/SSR CONTROL UNIT

50 CABIN CONDITIONING AIR SPRAY SLIDE - STARBOARD

51 HOOD RAIL LOCK INDICATOR - STARBOARD

52 RADIO COMPASS CONTROL UNIT

53 UHF/MIX SWITCH

54 DME CONTROL UNIT

55 INVERTER CIRCUIT BREAKERS

56 COMPASS CORRECTOR CONTROL UNIT  
Ground use only. Lamp illuminated indicates installation inoperative

57 GYRO GUNSIGHT CAMERA RECORDER STOWAGE

58 SHELF RED LIGHTING DIMMER SWITCH

59 INSTRUMENT PANEL RED LIGHTING DIMMER SWITCH

60 ULTRA-VIOLET LIGHTING DIMMER SWITCH

61 NAVIGATION LAMPS SWITCH

62 MAP STOWAGE

63 GYRO GUNSIGHT CAMERA RECORDER STOWAGE

64 HYDRAULIC FAILURE AUDIO WARNING CUT-OUT SWITCH

65 GYRO COMPASS LIGHTING SWITCH

66 GYRO COMPASS

67 GENERATOR POWER FAILURE WARNING LAMPS

68 GYRO GUNSIGHT CIRCUIT BREAKER

69 CAMERA MASTER SWITCH

70 BATTERY MASTER SWITCH  
Switch OFF to isolate all electrical services except for fire extinguisher circuit

71 HOOD JETTISON CONTROL HANDLE

72 RADAR RANGING SUPPLY INDICATOR

73 RADAR RANGING ON/OFF SWITCH

74 GYRO GUNSIGHT CONTROL UNIT

75 PRESS-TO-TRANSMIT SWITCH

76 VHF/UHF TONE SWITCH

77 VHF/UHF CONTROL UNIT

78 VHF/UHF NORMAL/STANDBY SET SELECTOR SWITCH

79 INVERTER SELECTOR SWITCH

80 HOOD MOTOR CIRCUIT BREAKER

81 GUN FIRING TRIGGER

82 BOMB/RP SWITCH AND SAFETY FLAP

83 GUN FIRING SAFETY FLAP AND TRIGGER RELEASE

84 CAMERA CONTROL PUSH SWITCH





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