

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.

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.

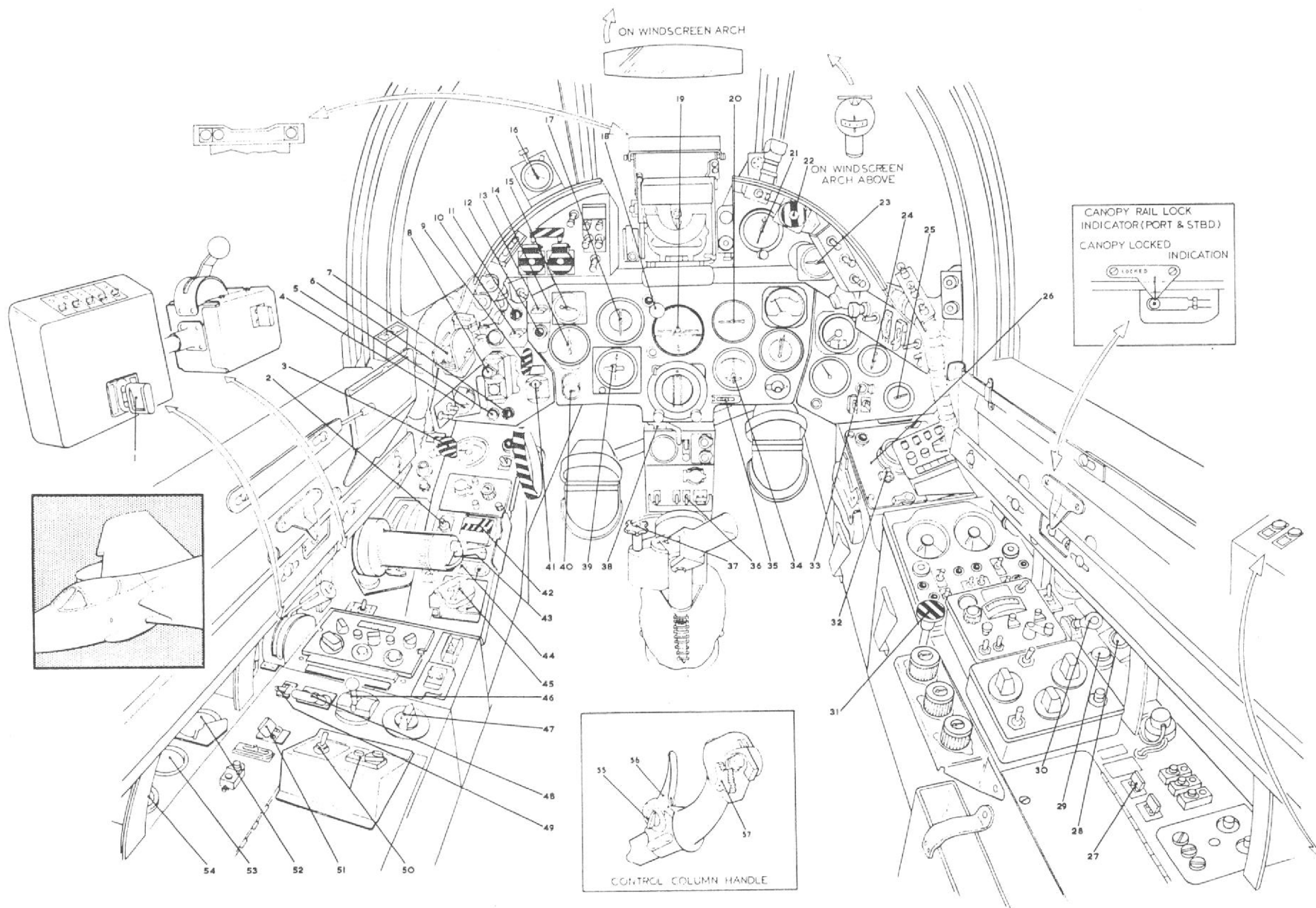


Fig. 1 Flying controls and instruments
◀ (Completely revised) ▶

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KEY TO FIG.1

(Flying controls and instruments)

◀ (Completely revised) ▶

- 1 AIR BRAKE RELAY BOX AND TEST SWITCH
- 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

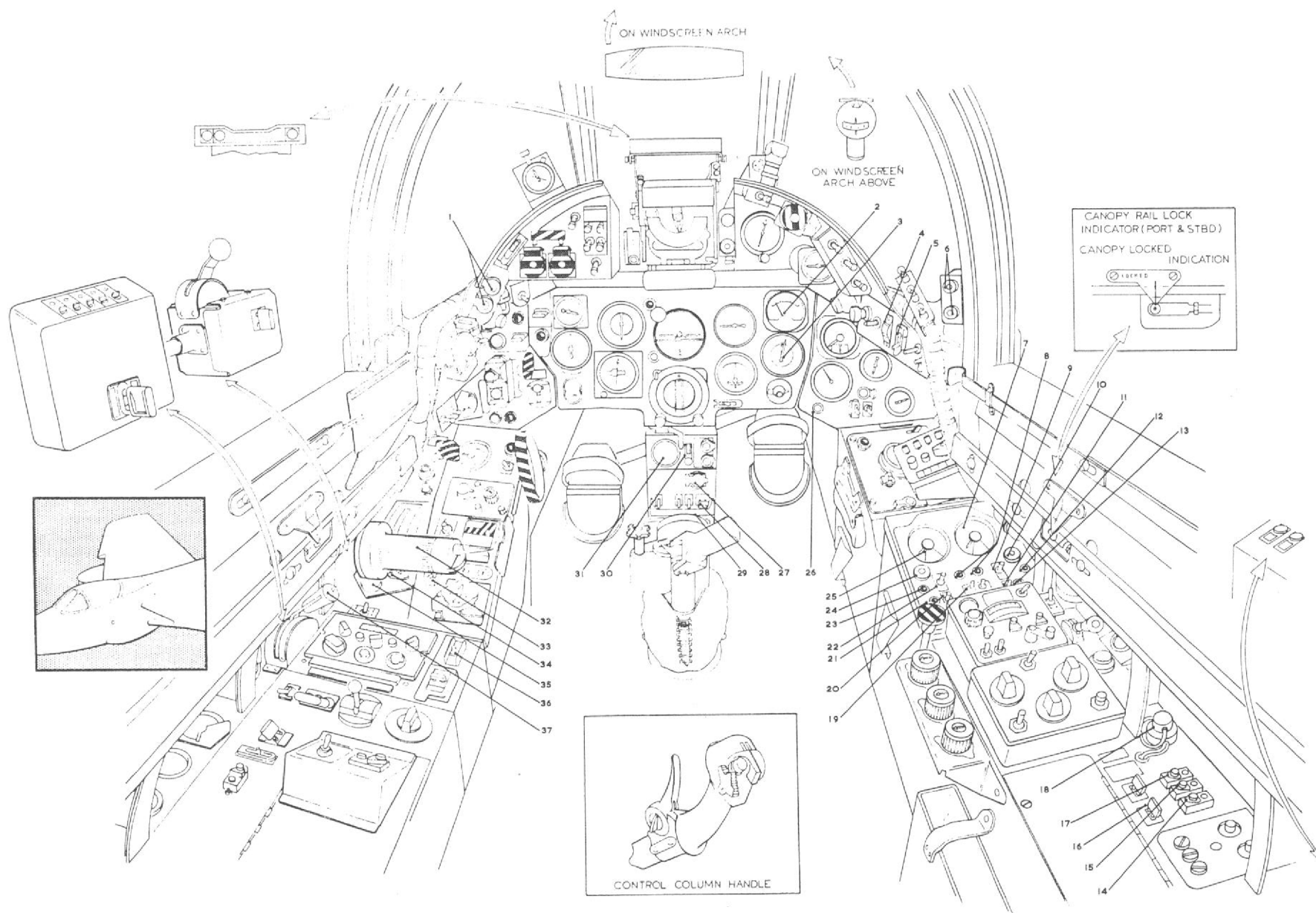


Fig. 2 Engine controls and instruments
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KEY TO FIG. 2

(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 | |

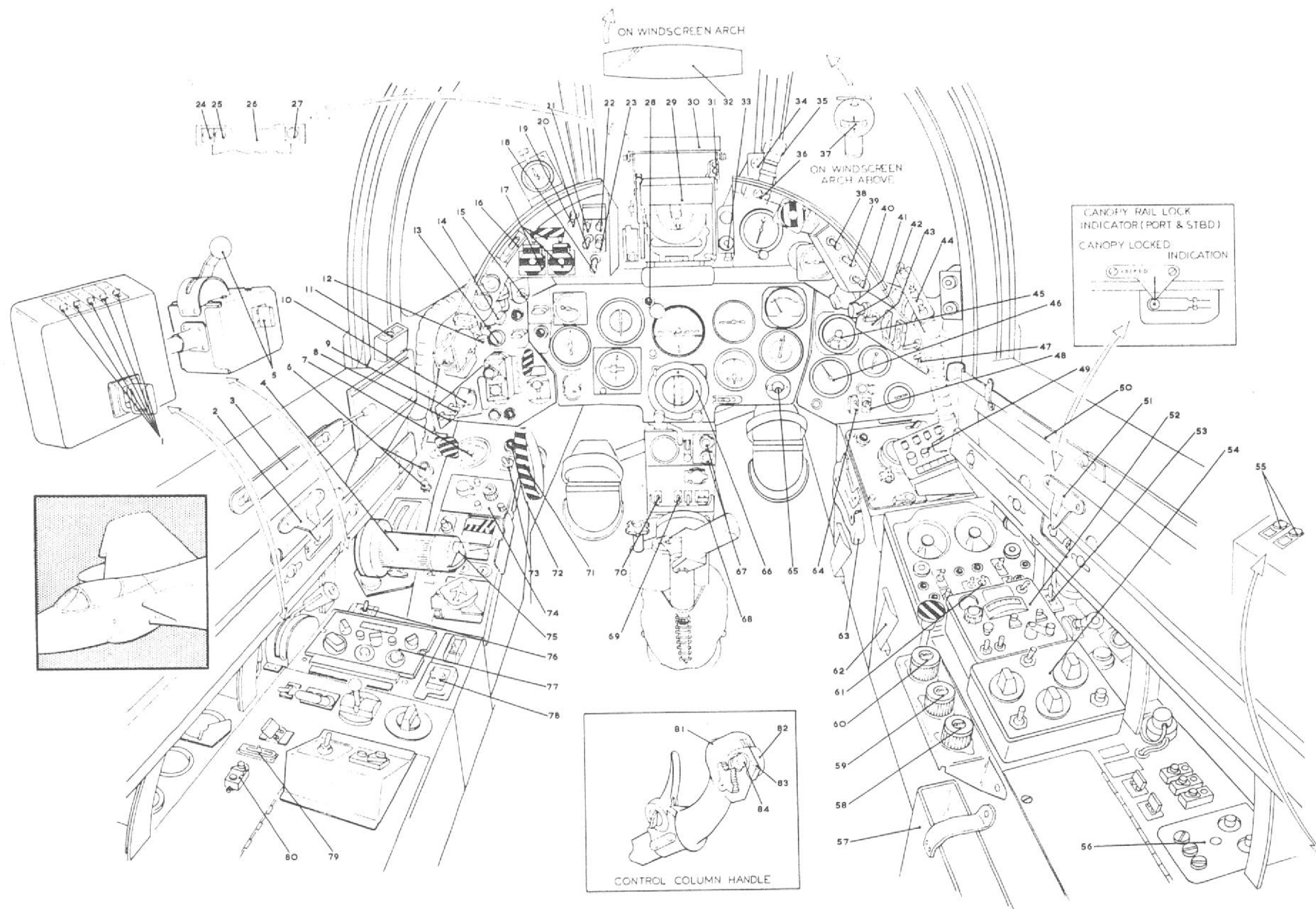


Fig. 3 Armament, navigation, radio and miscellaneous
◀ (Completely revised) ▶

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KEY TO FIG. 3

(Armament, navigation, radio and miscellaneous)

◀ (Completely revised) ▶

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