

Part I

Chapter 17—Strategic Reconnaissance Equipment

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**1 General**

*(a) Day role*

(i) The day crate is carried in the bomb-bay with either bomb-bay fuel tanks or with a flash crate replacing the forward bomb-bay tank.

(ii) In the day crate may be carried up to eight F96 cameras, three F89 cameras with three PE units and an F49 survey camera.

*(b) Night role*

(i) The night crate is carried in the bomb-bay with either three flash crates or with one flash crate and the aft bomb-bay tank.

(ii) In the night crate may be carried up to five F89 cameras with five PE units.

**2 F96 camera installation**

*(a)* The F96 cameras are controlled from panel CG at the nav/radar position (see Fig. 1). A further panel ASA is at the prone bomb-aimer's position (see Fig. 2).

*(b)* Electrical supplies for the cameras are as follows:

Cameras 1-5: 28 volt DC from feeder 23P7  
200 volt AC from No. 2 bus-bar

Cameras 6-8: 28 volt DC from feeder 24P7  
200 volt AC from No. 4 bus-bar

*(c)* The intervalometer for the cameras is supplied with 28 volt DC from feeder 23P7.

**3 F89 camera installation**

*(a)* The F89 cameras are controlled from panel CL (see Fig. 3) at the nav/radar position. Additional controls are on panel ASA at the prone bomb-aimer's position.

*(b)* Electrical DC supplies are from feeder 23P7. There are no AC supplies.

#### 4 Photo-flash installation

(a) The photo-flash installation is controlled from panel CL, with additional controls on panel ASA.

(b) 28 volt DC electrical supplies for the installation are from feeder 23P7 for the front and rear crates and from feeder 24P7 for the centre crate.

#### 5 F49 camera installation

(a) The F49 camera is controlled from panel CG (see Fig. 1); a warning light is on panel ASA.

(b) On 1st pilot's panel AAH is an amber warning light which comes on three seconds before the camera is pulsed and remains on until after the camera has pulsed as a warning to the pilot to level the wings, since the camera can be corrected for drift and pitch but not for bank.

(c) Electrical DC supplies to the camera are from feeder 23P7 and to the warning lights from feeder 24P7.

#### 6 F96 cameras operation

(a) The following is the recommended sequence of operation of the cameras:

- (i) AC supplies selected ON.
- (ii) Master and individual camera circuit-breakers closed.
- (iii) Ratio selector selected and reset.
- (iv) Exposure control selected.
- (v) Image compensation and intervalometer time interval set.
- (vi) Bomb doors open.
- (vii) Intervalometer changeover selected. Start cameras by intervalometer ON/OFF switch.

(b) The intervalometer pulses all selected cameras through relays and directly operates a magnetic indicator and counter. The indications that the cameras are functioning correctly are by individual counters on panel CL and flashing lights on panel ASA.

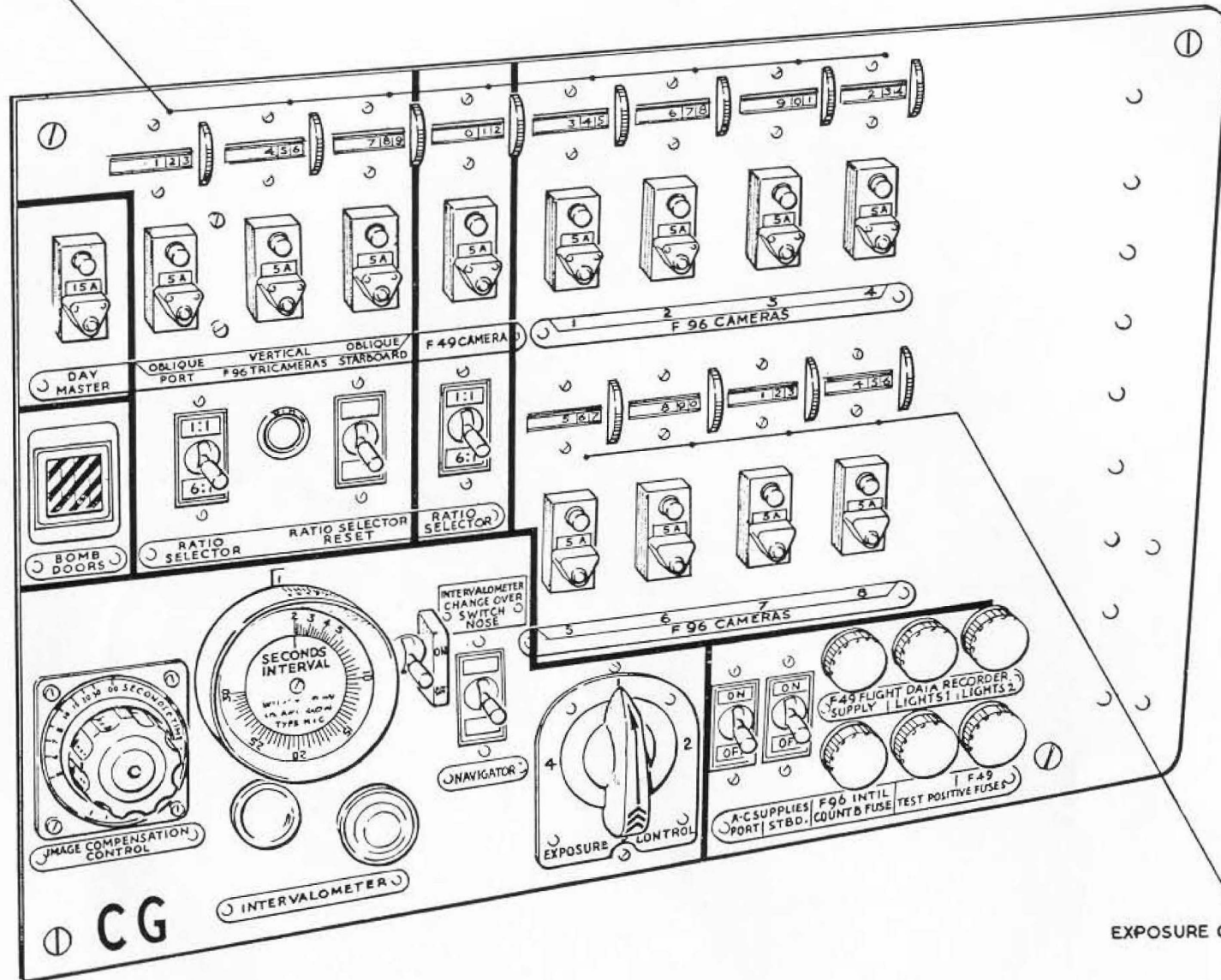
#### 7 F89 cameras operation

(a) The following is the recommended sequence of operation of the cameras:

- (i) Master circuit-breakers closed.
- (ii) Flash container selected on crate selector switch.
- (iii) Cameras and height/speed setting ON.
- (iv) Ground speed and aircraft height set on V/H controller.
- (v) Master camera selected.
- (vi) Required number of flashes selected.
- (vii) Bomb doors open.
- (viii) Flash LIVE/ISOLATE switch to LIVE. Flash armed indicators ARM.
- (ix) Start cameras and flash release either by camera start/flash release pushbutton or NBS bomb release pulse.
- (x) The IMC supply light on the V/H controller then comes on, the flashes gone lights pulse, the flashes remaining counters subtract and the flash selector moves to the next position.

(b) If the height/speed setting supply is not made only one flash is released and the IMC light does not come on; the flashes gone light remains on.

EXPOSURE COUNTERS



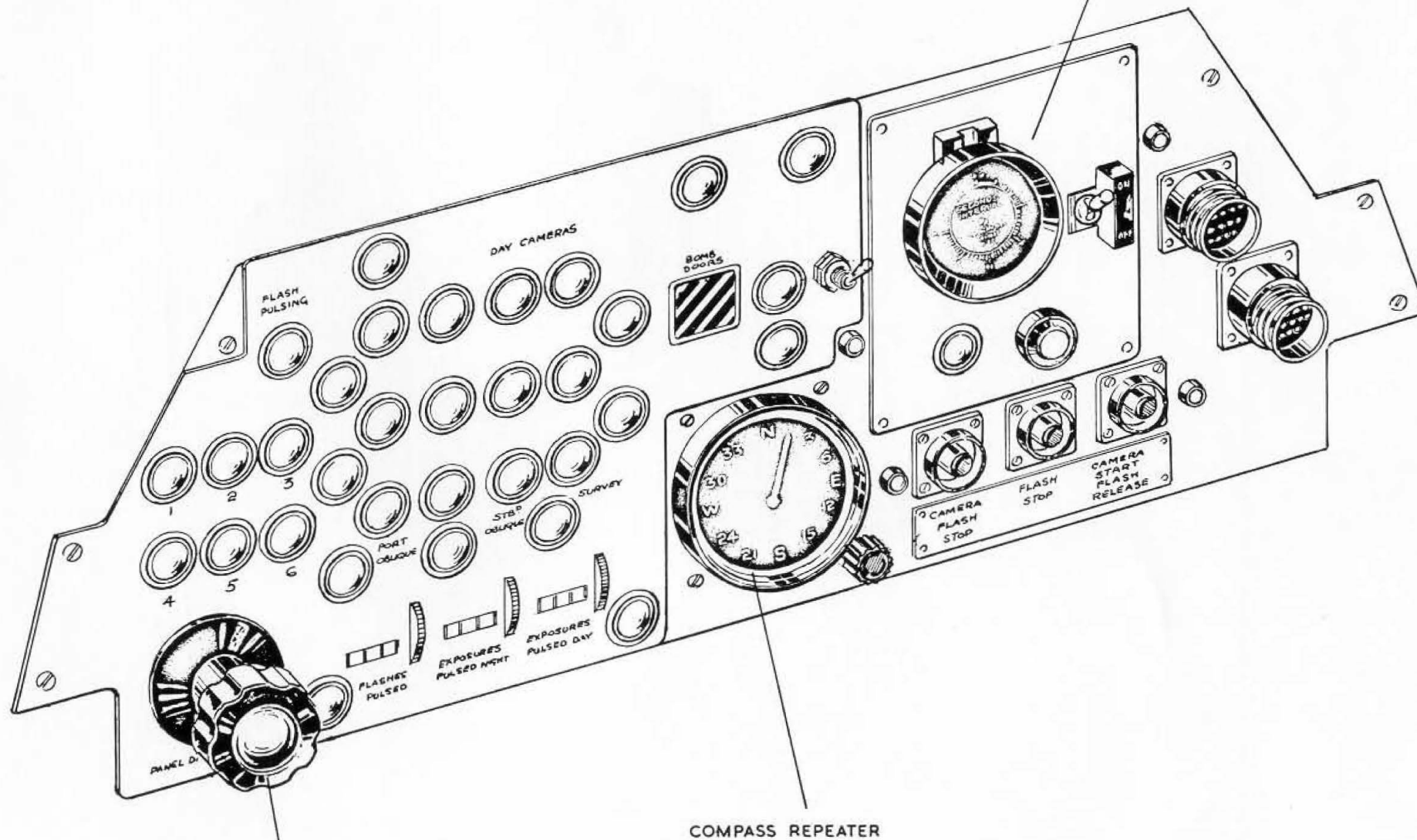
EXPOSURE COUNTERS

Fig. 1 Panel CG

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TYPE F 96 MK. I INTERVALOMETER



PANEL LIGHTING DIMMER SWITCH

COMPASS REPEATER

Fig. 2 Panel ASA

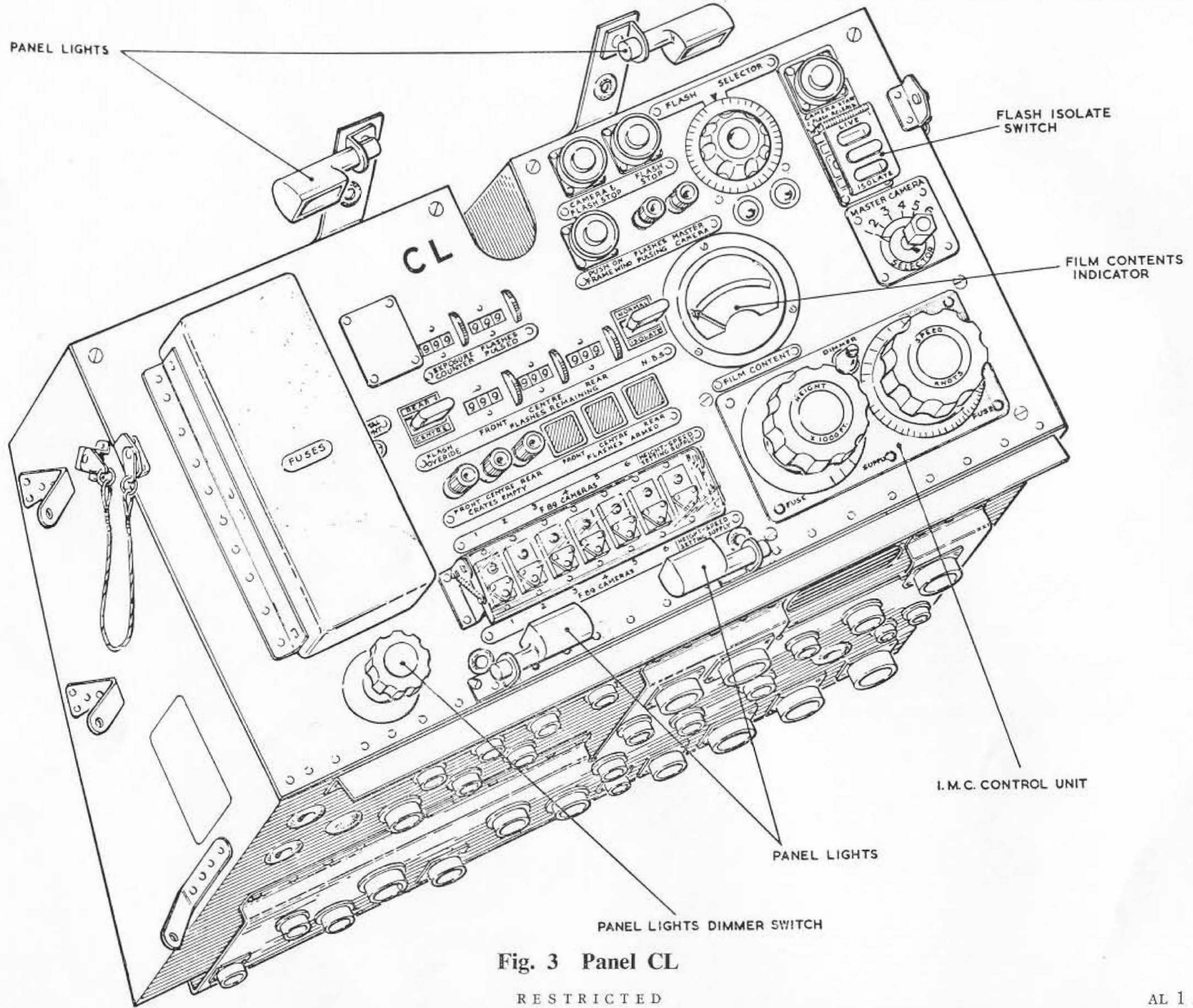


Fig. 3 Panel CL

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