

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII
Systems

LIGHTS

INTERIOR LIGHTS

Cockpit lighting is divided into main and auxiliary subsystems.

The main lighting system includes:

Instruments

Overhead panels

Side consoles

Pedestal

Floodlight

The auxiliary lighting system includes:

Map lights

Dome lights

Floodlights are installed on the lower surface of the instrument panel glare shield. The floodlights are controlled by the FLOOD rheostat on the overhead panel.

A dome light is installed in the ceiling panel on the pilot side. The light is supplied with 28 Vdc from the No. 1 distribution bus and controlled by the DOME light switch on the overhead panel.

Two swiveling map lights are installed above the pilot and copilot. The lights are activated by switches on the control wheels and dimming controls installed next to each light.

The baggage compartment lighting system consists of a dome light installed in the headliner, inspection light installed in the lower part of left pylon, manually operated by an ON/OFF switch, located on the door frame, and also drives BAGG/FUEL DOOR message.

The baggage compartment dome and the pylon lights are powered from the battery bus. The "door open" switch is powered only when the door is open.

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII Systems

Day-Night System

The day/night system is powered from No. 1 and 2 distribution buses, and the priority bus, through DAY/NIGHT circuit breakers. Light intensity is controlled by pressing PUSH DIM pushbutton on pilot instrument panel. When PUSH DIM is pressed, the lighted pushbuttons are illuminated at full intensity or dimmed.

Instrument Lights

The instruments are internally lit by 5 Vdc lamps. Power is supplied from two solid-state converters. The converters have an input of 28 Vdc and adjustable output of 0 to 5 Vdc. Power for the pilot and copilot instrument panels and glareshield is supplied by instrument converter. Light intensity is controlled by the INSTR PNL rheostat on the overhead panel. Power for the pedestal and the left and right consoles is supplied by a separate converter. Light intensity is controlled by CONSOLES rheostat on the overhead panel. The overhead panel is lit by edge lights, controlled by OVERHEAD rheostat.

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII
Systems

Emergency Lights

Emergency lights are located above the cabin entrance door and adjacent to each emergency exit. Escape path lighting is provided on the cabin floor. Each emergency exit and the door are also lighted from outside, as well as the area forward of the wing. The lights are controlled by EMERG LTS switch, on overhead panel. With the switch in ON position, lights are powered by emergency batteries.

The emergency lights come on automatically (EMERG LTS switch in ARM position) if both distribution buses fail, both generators fail or if cabin pushbutton (located above entrance door) has been pressed.

Electrical power (28 Vdc) is supplied by both distribution bus No. 1 and No. 2 to charge the emergency batteries. EMERG LT caution light is on whenever EMERG LTS switch is not in ARM position. However, if the lights come on in flight, it is recommended to switch them off, if they are not immediately required, to preserve the emergency battery power for landing phase. (see [FAILURE OF BOTH GENERATORS, page II-37](#)).

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII Systems

EXTERIOR LIGHTS

Position and Anti-Collision/Strobe Lights

One position light (an array of 5 green or red LED elements) and one Anti-Collision/Strobe light are installed at each wing tip. The wing Anti-Collision/Strobe lights are synchronized to flash simultaneously. Two white position lights and a strobe light are installed at tail cone.

Wing Inspection Lights

The wing inspection lights, installed on each side of the fuselage, forward of the wing leading edge, enable visual inspection of the wings for ice formation and de-icing boots operation, while flying in darkness.

Taxi Lights

Two sealed beam taxi lights are installed on the nose landing gear strut.

Landing Lights

A sealed beam landing light is installed at each wing root. Pulsating lights system is also available.

Stair Lights

Each stair on the airstair door is lit by a light located at center of the stair.

Recognition Light

A recognition light is installed at the top of the vertical stabilizer. It is used on the ground (prior to engine start) and in flight as a beacon for better recognition. In addition, on the ground, it comes on if the BATT switch is in ON or OVER LOAD REDUCT position with no generator operating or no external power source connected. This serves a warning observable from outside the aircraft to prevent draining the aircraft batteries.

Logo Lights

One logo light (optional) is installed in each horizontal stabilizer upper surface to illuminate the vertical stabilizer and rudder from both sides.

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII Systems

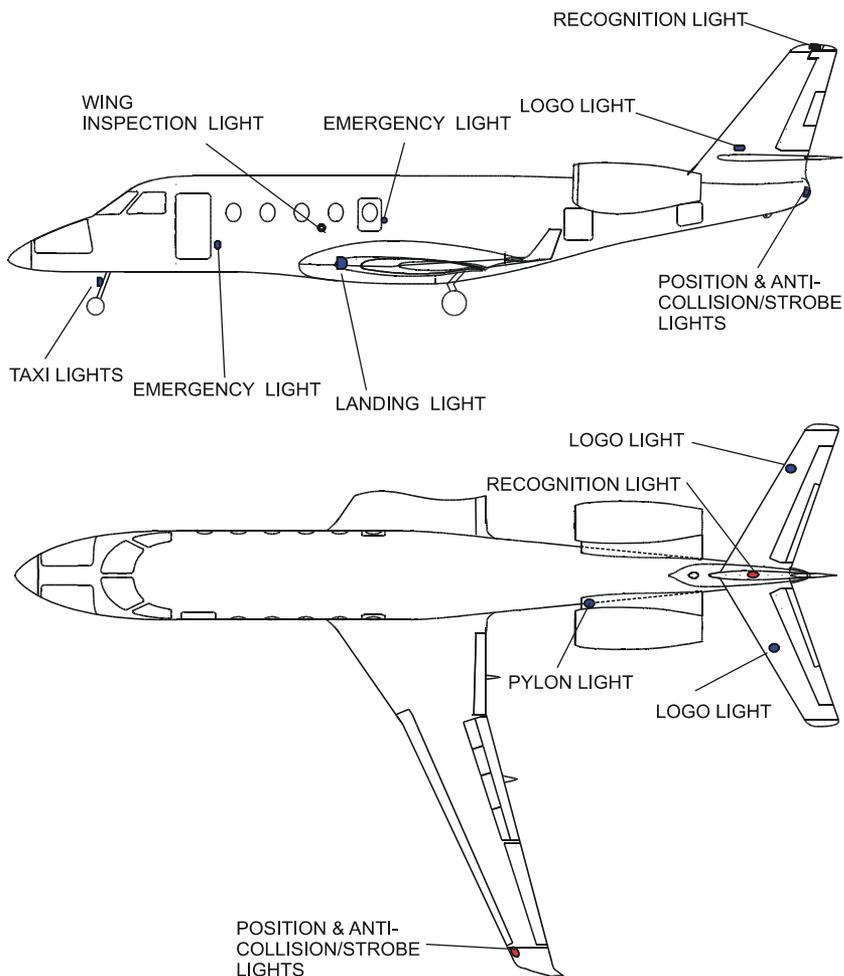


Figure 7-33-1. Exterior Lights Location

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII Systems

LIGHTING CONTROLS

Interior Lights

BELTS switch - Has two positions:

ON - BELTS light in cabin sign is on.

OFF - Cabin sign is off.

NO SMOKE - Has two positions:

ON - NO SMOKING light is on.

OFF - NO SMOKING light is off.

EMERG LTS switch - Has three positions:

ARM - Normal position. Emergency lights armed for operation during emergency.

OFF - Emergency lights are off.

ON - Emergency lights are on.

DOME switch - Has two positions:

ON - Cockpit dome light is on.

OFF - Cockpit dome light is off.

MASTER switch - Has three positions:

ON - Instrument, edge and ice detection lights are on. light intensity is controlled by OVERHEAD, INSTR PNL and CONSOLES rheostats.

OFF - Lights are off.

MAP switches - Located on each pilot control wheel. Switches the individual map lights on and off.

Four rheostats - FLOOD, OVERHEAD, INSTR PNL and CONSOLES control the lights intensity of the different parts of the cockpit panels, pedestal and consoles.

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII
Systems

Exterior Lights

BCN switch - Has two positions:

- ON - Vertical stabilizer recognition light is on.
- OFF - Vertical stabilizer recognition light is off.

WING/LOGO switch - Has three positions:

- WING INSPECT - Wing inspection lights are on. The lights enable visual inspection of ice formation on the wings and leading edges and deicing boot operation during night flying.
- OFF - Wing inspection and logo lights are off.
- LOGO - Logo lights on the horizontal stabilizers illuminate both sides of the vertical stabilizer.

NAV switch - Has three positions:

- NAV STROBE - Both position and strobe lights at each wingtip and the position and strobe lights at tail cone are on.
- OFF - Position and strobe lights are off.
- NAV - Position lights are on.

LANDING switch (2) - Has three positions:

- ON - Landing lights are on.
- OFF - Landing lights are off.
- PULSE - Landing lights are pulsating for better recognition.

TAXI switch - Has two positions:

- ON - Taxi lights are on.
- OFF - Taxi lights are off.

Gulfstream G150

AIRPLANE FLIGHT MANUAL

Section VII Systems

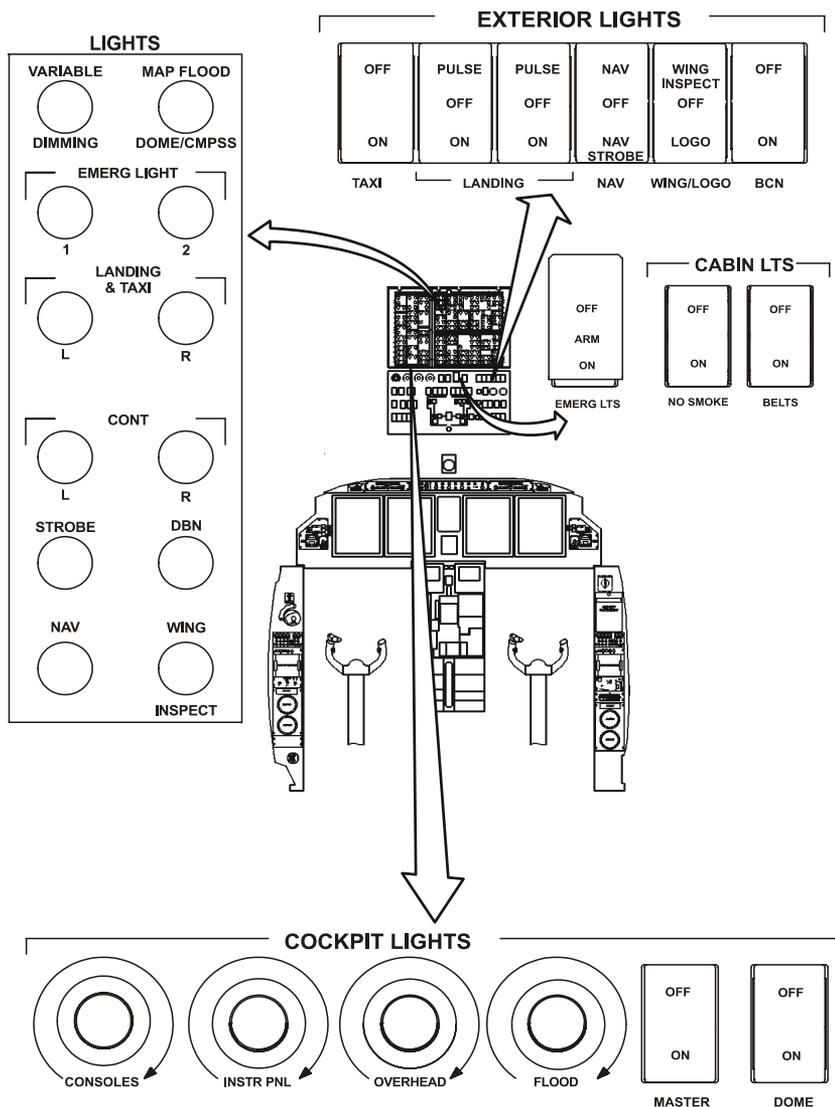


Figure 7-33-2. Lighting System Controls