LIGHTING

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LIGHTING

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LIGHTING

GENERAL

The airplane is equipped with a suite of lighting systems covering the direct and indirect illumination of the flight compartment and airplane exterior.

The general airplane lighting includes:

- Flight Compartment Lighting Internal lighting is used in the flight compartment for flight instrumentation and general lighting.
- Passenger Compartment Lighting Lighting systems for the passenger cabin are not provided, except for the main entrance.
- External Lighting External lighting in the form of landing, taxi and airplane identification are used.
- Service and Maintenance Lighting Lighting is available to service areas to assist maintenance personnel, in their airplane checks and inspections.
- Emergency Lighting Lighting is provided to permit airplane occupants to safely move away from the airplane in an emergency situation.

FLIGHT COMPARTMENT LIGHTING

Controls for the flight compartment are located on two panels in the centre pedestal. One panel controls the flight compartment flood and display lighting, while the other controls the integral and miscellaneous lighting.

There are two types of integral lighting in the flight compartment; electroluminescent (EL) lighting and incandescent lighting. All instrument panels are provided with integral legend/edge lighting. The instrument panels are grouped in an area, with each one having its dedicated dimming control.

The electrical power to the integral lighting system is through an ON/OFF or AUTO mode selection of a MASTER switch. When in AUTO mode, to increase the life of the lighting elements (example: daylight or high cockpit light conditions) the system will be turned on or off automatically. This is accomplished through a light sensor circuit, which is dependent upon the ambient lighting conditions in the flight compartment.

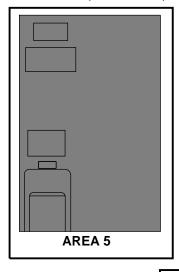
CRT display, fluorescent flood, integral instrument and instrument panel lights provide instrument lighting. A LAMP TEST is provided to test the indicator lights, using the electrical management system.

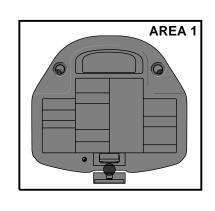
The flight compartment lighting includes the following:

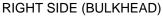
- Flight compartment flood lights.
- Flight compartment floor lights.
- Flight compartment area lights.
- Map lights.
- Flight compartment panels integral lighting.
- Flight compartment flashlights.
- Orientation light.

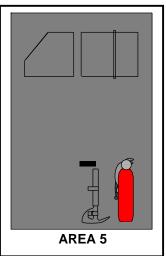
FLIGHT COMPARTMENT INTEGRAL LIGHTING AREAS

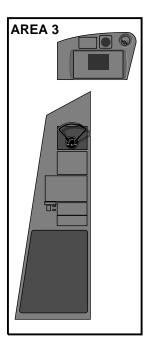
LEFT SIDE (BULKHEAD)

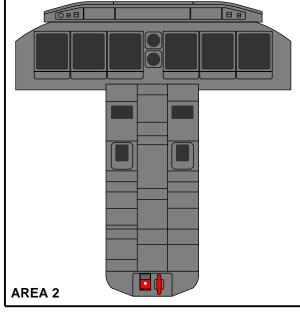


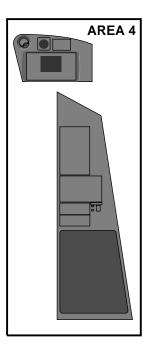






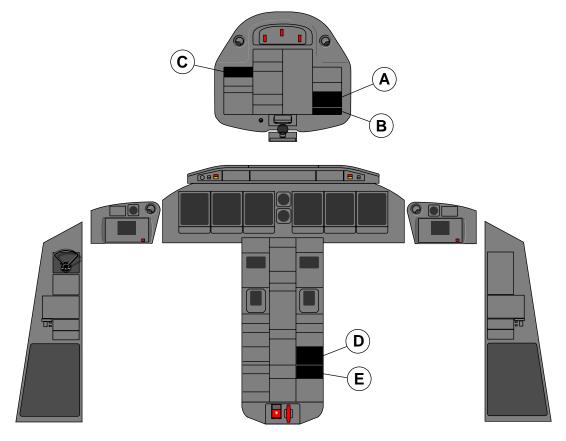






- AREA 1 OVERHEAD PANEL Electroluminescent lighting (EL).
- AREA 2 CENTRE INSTRUMENT PANEL AND PEDESTAL Mixed lighting; half EL lighting and half incandescent.
- AREA 3 LEFT SIDE CONSOLE (Pilot) Incadescent lighting.
- AREA 4 RIGHT SIDE CONSOLE (Copilot) Incadescent lighting.
- **AREA 5** CIRCUIT BREAKER/MISCELLANEOUS PANELS Electroluminescent lighting.

FLIGHT COMPARTMENT LIGHTING PANELS





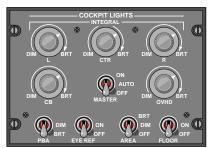
(A) EXTERNAL LIGHTING



B PASSENGER SIGNS/ EMERGENCY LIGHTS



(C) LIGHT SENSOR – ELT (OPTIONAL)



D COCKPIT LIGHTS INTEGRAL/MISC



E COCKPIT LIGHTS FLOOD/DISPLAY

INTEGRAL LIGHTING

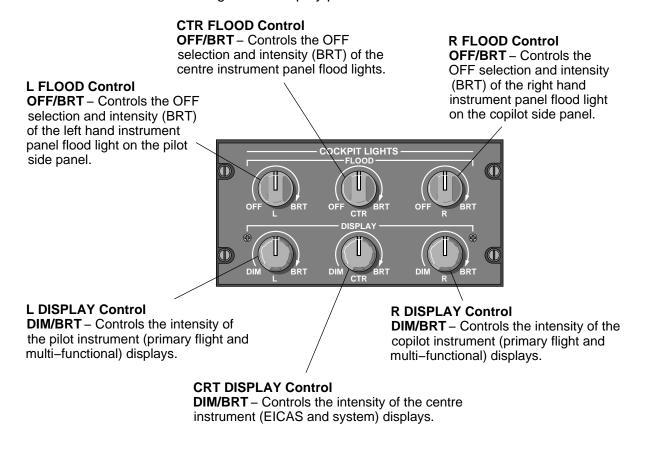
There are two types of integral lighting in the flight compartment: electroluminescent lighting consisting of an assembly layered within the panel powered by AC and incandescent lighting which is a bulb type lighting and can be AC or DC powered. The integral lighting is divided into five control areas as described in the previous illustration. A sensor is provided on the LIGHT SENSOR/ELT panel in the flight compartment, to turn the integral lighting system on/off for day/night time lighting requirements.



COCKPIT LIGHTS FLOOD/DISPLAY PANEL

All flood/display lighting is activated by rotary control knobs located on the COCKPIT LIGHTS FLOOD/DISPLAY control panel in the centre pedestal. The panel includes rotary control knobs for the following areas:

- Pilot instrument flood light and display lights.
- Copilot instrument flood light and display lights.
- Centre instrument flood lights and display panels.



COCKPIT LIGHTS FLOOD/DISPLAY PANEL (CONT'D)

Flight Compartment Flood Lights

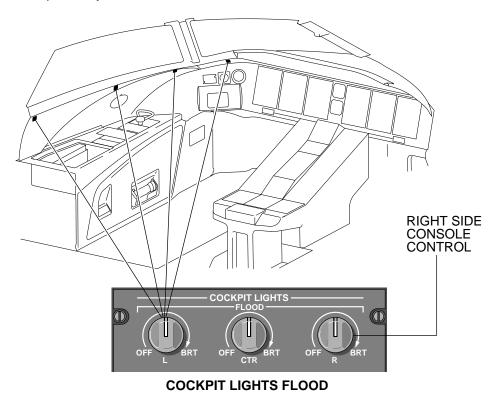
Flood lights are installed at both crew stations for general illumination of the instruments.

The flight compartment flood lights comprise: four LH and four RH side console instrument panel lights and two centre instrument panel lights.

Dimming and off control of the lights is provided to the left, right and centre areas of the flight compartment using a single OFF/BRT rotary control knob for each area. The rotary control knobs are located on the COCKPIT LIGHTS FLOOD/DISPLAY control panel in the centre pedestal. Variable controls enable the lights to change intensity gradually from off, to full bright.

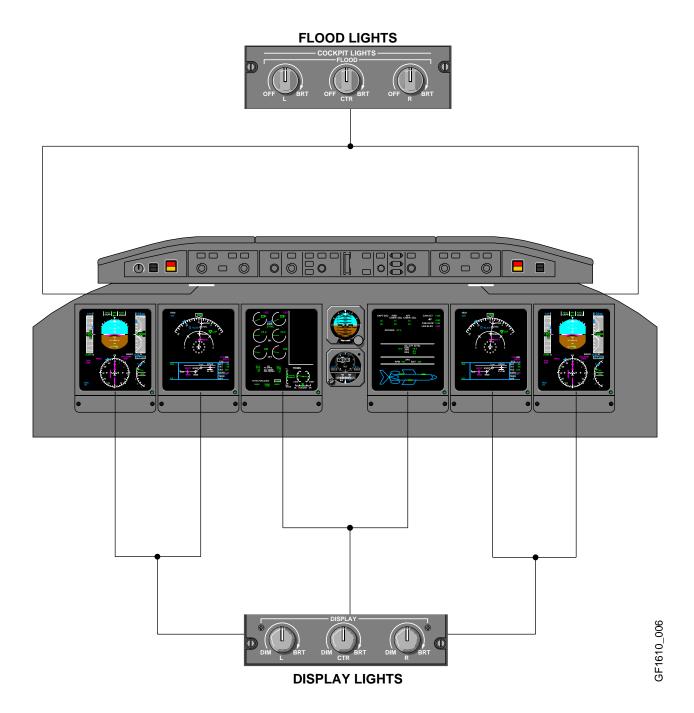
Display Lighting

Display lighting is provided for illumination of the pilot, copilot and centre instrument panels. Refer to next page for additional cockpit lights flood display, locations and control. The L and R DISPLAY knobs control the Primary Flight Displays (PFDs) and the Multi-Functional Displays (MFDs) for the pilot and copilot respectively.



The CTR DISPLAY controls the EICAS primary display and the system display. This illumination is provided through a single DIM/BRT rotary control knob.

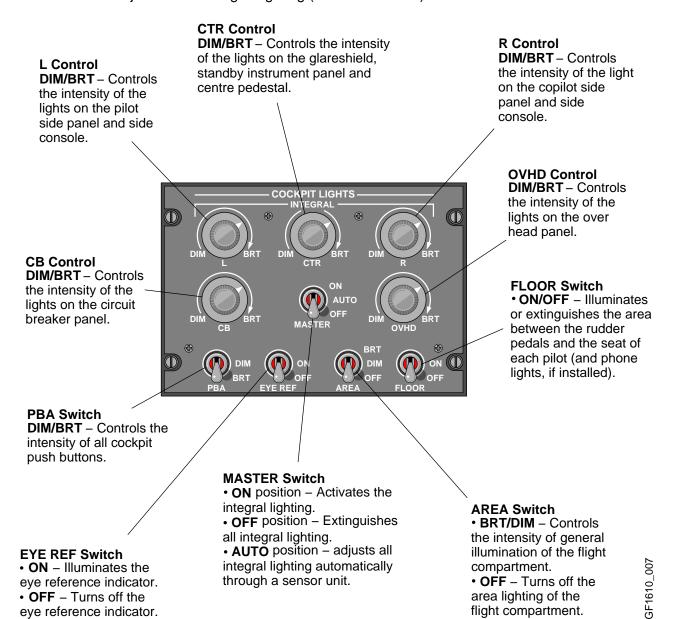
COCKPIT LIGHTS FLOOD/DISPLAY SCHEMATIC



COCKPIT LIGHTS INTEGRAL/MISC PANEL

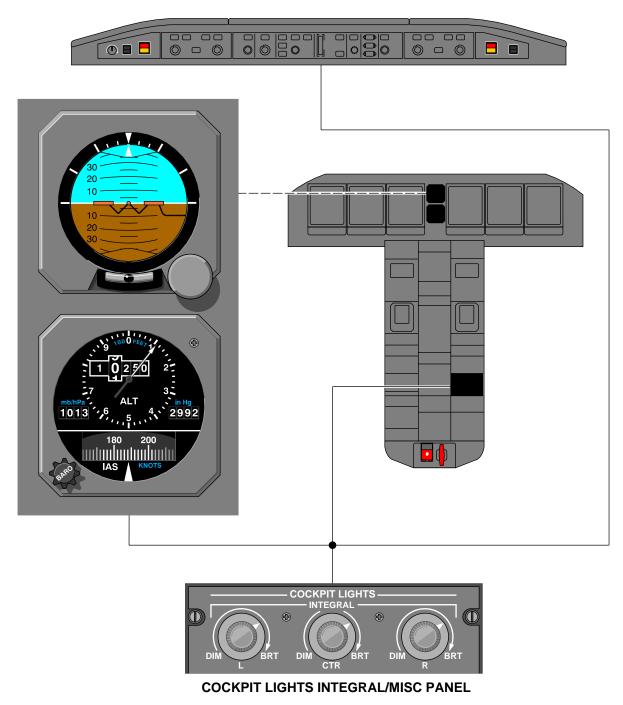
The integral instrument and miscellaneous panel lighting is controlled by rotary control knobs and switches located on the COCKPIT LIGHTS INTEGRAL/MISC control panel in the centre pedestal. The panel includes control for the following areas:

- Pilot side panel and console.
- Copilot side panel and console.
- Circuit breaker panel, overhead panel, push button annunciators, eye reference lights, flight compartment area and floor lighting.
- Automatic adjustment of integral lighting (MASTER switch).



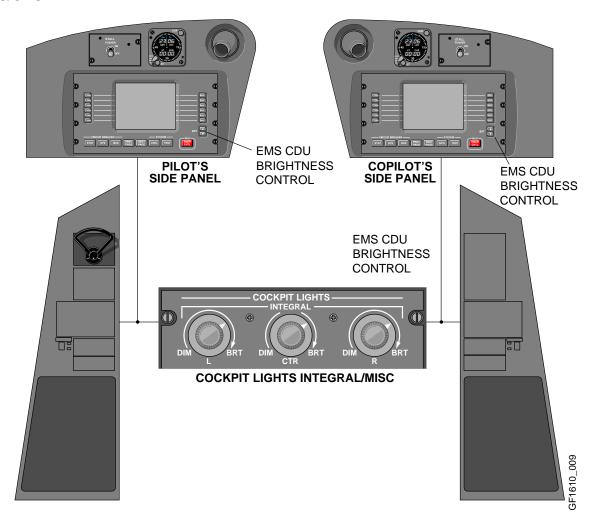
Glareshield and Standby Instrument Lights

The standby instrument lights are powered from the battery bus whenever normal DC power is lost. The standby instrument and glareshield lights are controlled by the integral "CTR" switch on the COCKPIT LIGHTS INTEGRAL/MISC panel.



Pilot/Copilot Side Panel Lighting

The pilot and copilot side panels are controlled by L or R "DIM" and "BRT" rotary control knobs on the COCKPIT LIGHTS INTEGRAL/MISC panel. Brightness display is available on each EMS/CDU.



Integral Lighting Master Control

The electrical power to the integral lighting shall be controlled by the MASTER switch on the COCKPIT LIGHTS INTEGRAL/MISC panel in the centre pedestal. The integral lighting system can be turned ON/OFF or switched to AUTO mode through the MASTER switch. When in AUTO, to increase the life of the lighting elements, the system shall be turned on/off through a light sensor circuit depending on the ambient lighting conditions in the flight compartment.

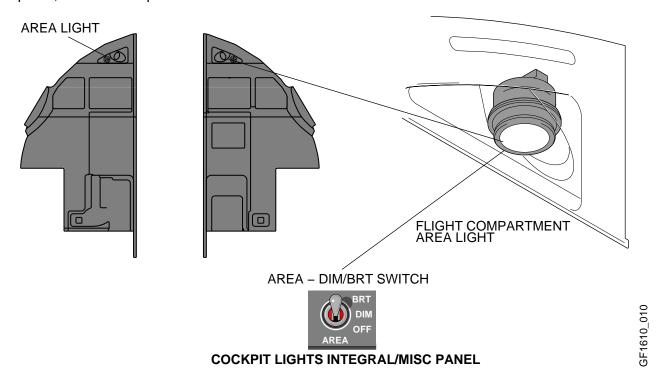


MASTER Switch

- ON position Activates the integral lighting.
- AUTO position adjusts all integral lighting automatically through a sensor unit.
- OFF position Extinguishes all integral lighting.

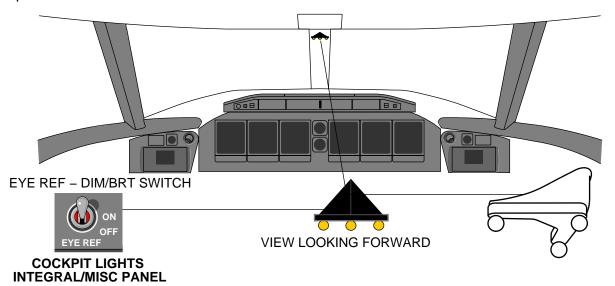
Cockpit Area Lights

Two area lights are provided for general illumination of the flight compartment and controlled by a single switch OFF/DIM/BRT control located on the COCKPIT LIGHTS INTEGRAL/MISC control panel, in the centre pedestal.



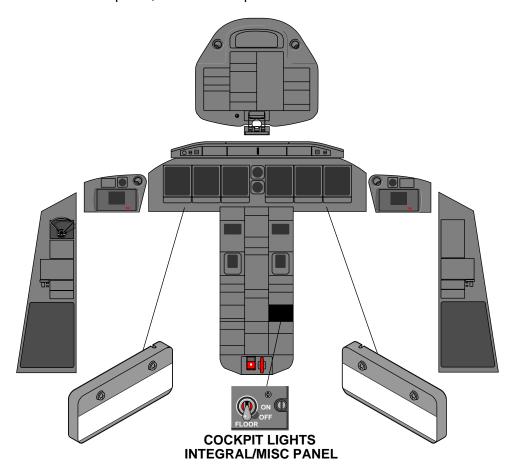
Eye Reference Light

An eye reference light provides the pilot(s) orientation for optimal seat position. This illumination is provided by a single ON/OFF switch located on the COCKPIT LIGHTS INTEGRAL/MISC control panel.



Flight Compartment Floor Lights

The floor lights illuminate the area between the rudder pedals and the seat of each pilot. To illuminate these areas, a single on/off control switch is located on the COCKPIT LIGHTS INTEGRAL/MISC control panel, in the centre pedestal.



Push Button Annunciator Lights

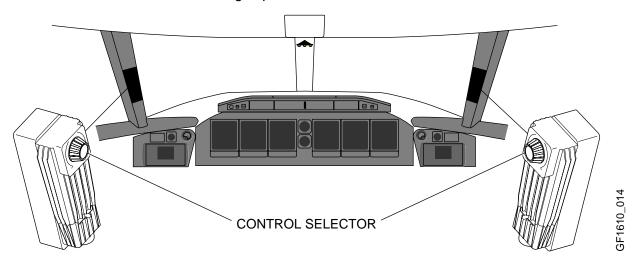
The push button annunciator lights illuminate all cockpit push buttons. This illumination is provided with a single switch DIM/BRT control located on the COCKPIT LIGHTS INTEGRAL/MISC control panel, in the centre pedestal.



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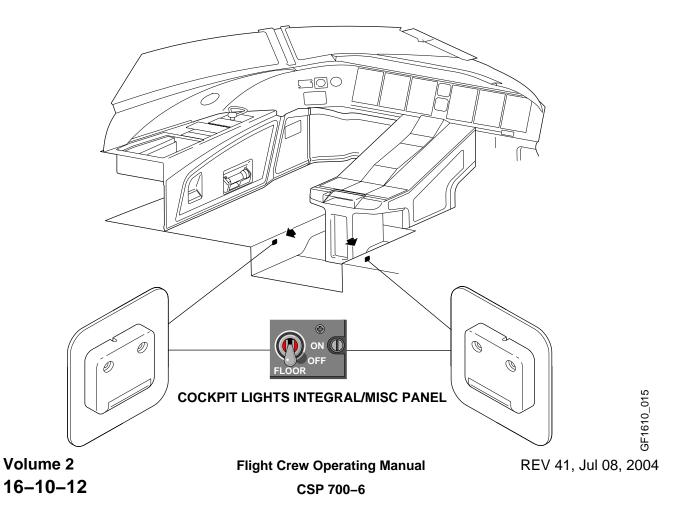
Map Reading Lights

Each crew member (pilot and copilot) position is provided with a map reading light. These lights swivel and include on/off and dimming capabilities.



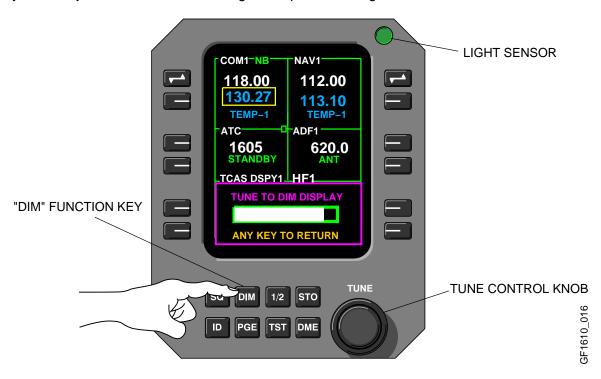
Cockpit Phone Lights

Two phone lights are controlled by the FLOOR switch on the COCKPIT LIGHTS INTEGRAL/MISC PANEL of the centre pedestal. Turning on the floor lights will automatically illuminate the phone lights.



Radio Management Unit (RMU) Display Dimming

The RMU brightness display will appear when the "DIM" function key is selected. Pressing the "DIM" function key connects the RMU brightness control to the "TUNE" control knob allowing the display to be adjusted to match overall flight compartment brightness.



The "TUNE" control knob returns to normal operation when any function or line select key is selected. Setting display brightness provides the bezel mounted light sensor with the pilot's desired reference about which they adjust the brightness for varying lighting conditions.

Flight Management Unit (FMS) Display Lighting

Both the manual and automatic (photo sensor) brightness controls are used to increase or decrease the display brightness. The brightness knob manually adjusts the brightness. After the adjustment is made, the photo sensors monitor the ambient light and maintain the brightness level over various lighting conditions.



COCKPIT LIGHTS INTEGRAL/MISC PANEL (CONT'D) LASERTRACK Navigation Display Unit (if installed)

The LASERTRACK Navigation Display Unit (NDU) is located on the pilot's side panel. The display unit's lighting control is from the left bright dim control on the COCKPIT LIGHTS INTEGRAL panel.

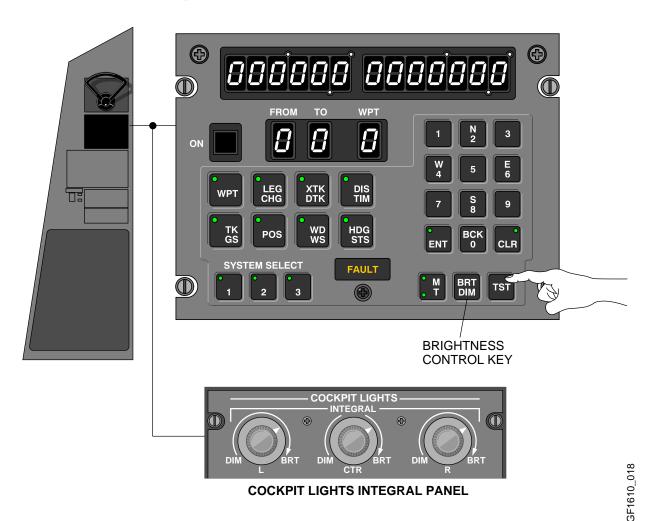
The bright/dim key is used to control the lighting of the Navigation Display Unit (NDU) display. When first pressed and held, the display intensity increases until the brightest level is reached. When pressed and held a second time, the display intensity decreases until the dimmest level is reached.

The test TST

key is used to initiate a test of all NDU annunciations, cue lights and display.

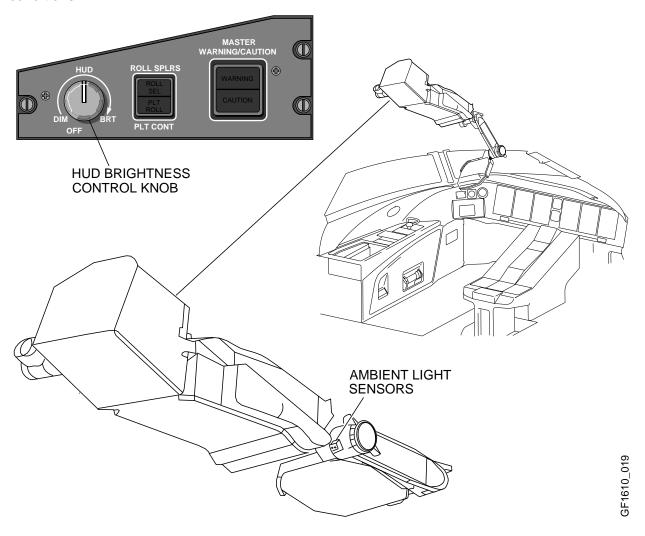
NOTE

During test the NDU annunciators and cue lights come on sequentially.



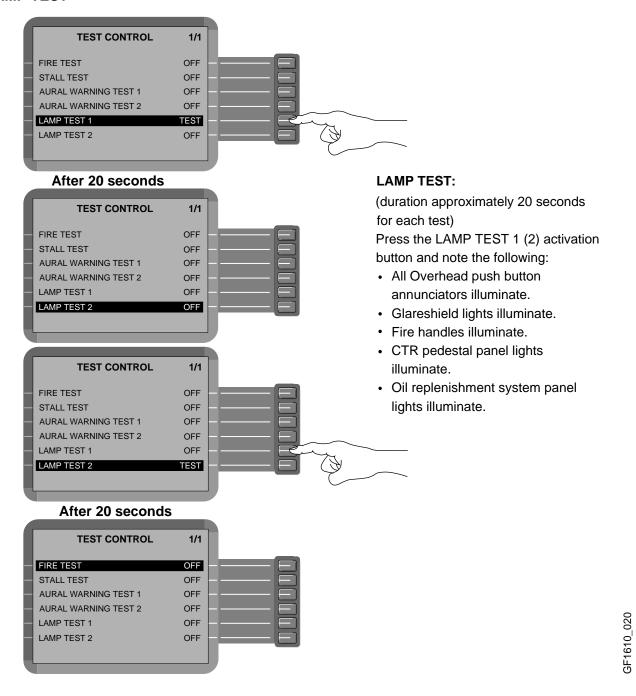
Heads-Up Guidance Display Lighting

The heads-up guidance system has a brightness control knob located on the glareshield (pilot's side), and ambient sensors (overhead HGS) which adjust the brightness for varying lighting conditions.



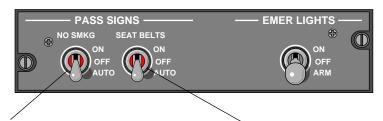
The brightness rotary knob allows the display to be adjusted manually to match overall flight compartment brightness. After the adjustment is made, the ambient sensors monitor the ambient light and maintain the brightness level over various lighting conditions.

LAMP TEST



PASSENGER SIGNS/EMERGENCY LIGHTS PANEL

The PASS SIGNS switches for the no smoking and seat belts are located on the PASS SIGNS/EMER LTS panel.



NO SMKG SWITCH

- ON Turns on all no smoking signs.
- OFF Turns off all no smoking signs.
- AUTO NO SMKG switch will activate the no smoking lights automatically, based on airplane configuration.

SEAT BLTS SWITCH

- ON Turns on all seat belt signs.
- OFF Turns off all seat belt signs.
- AUTO SEAT BLTS switch will activate the seat belt lights automatically, based on airplane configuration.

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Passenger Signs

The NO SMKG and SEAT BLTS control switches are located on the overhead panel in the flight compartment. The control panel has three position (ON/OFF/AUTO) switches. When either switch is turned ON, light for the no smoking or seat belt symbol illuminates.

When the NO SMKG switch is set to AUTO, the no smoking lights in the cabin illuminate automatically when the landing gear is selected down or when cabin depressurization occurs (cabin altitude greater than 8,000 ft).

When the SEAT BLTS switch is set to AUTO, the seat belt symbol in the cabin illuminates automatically when the landing gear is selected down or the slats/flaps are not in the zero degree position or when cabin depressurization occurs (cabin altitude greater than 8,000 ft).

Passenger Signs Electronic Chime

The chime will sound when the system operates automatically or if either the NO SMKG or SEAT BLTS switch is selected to the ON position.





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PASSENGER LIGHTING SYSTEM

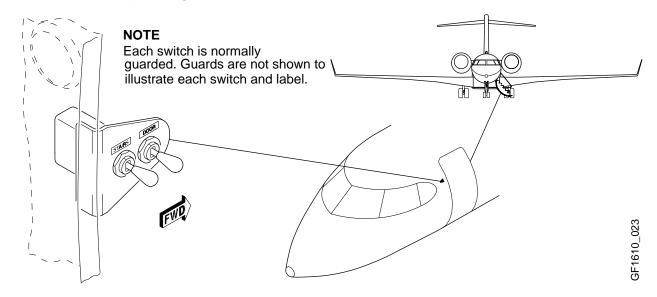
Lighting is provided to illuminate the stairs which are part of the main passenger door, when entering or exiting the airplane. The door stair lighting includes:

- Door stair lights (each step).
- Two stair ground lights (lower step).
- Passenger door rear light (if installed).

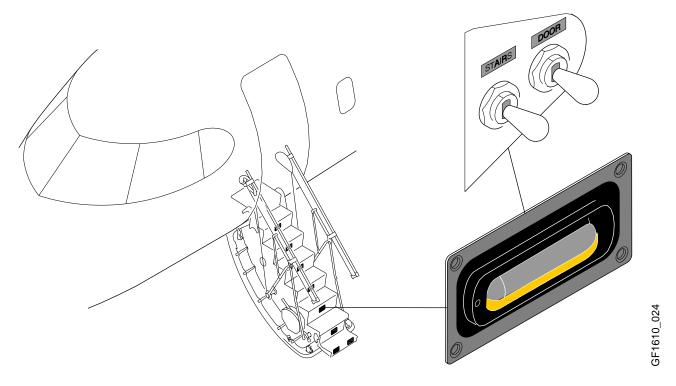
PASSENGER LIGHTING SYSTEM (CONT'D)

Passenger/Crew Entrance Stair Lights

Entrance area lighting is provided to illuminate the stairs and area in front of the passenger door. Lighting for the entrance area is provided by door stair lights. Each door stair light is installed in the vertical part of the step. The lower folding step contains two door stair lights to supply light to the area in front of the passenger door.



The stair lighting is controlled on and off by the "STAIRS" lights switch installed internally adjacent to the main passenger door.



PASSENGER LIGHTING SYSTEM (CONT'D)

Passenger/Crew Entrance Stair Lights (Cont'd)

The stair lights receive power when the passenger door "STAIRS" light switch is selected ON and the passenger door is open. The door open signal is received from a switch located on the door assembly. The "DOOR" switch is installed next to the "STAIRS" lights switch (both normally guarded) and closing the door automatically shuts off the stair lighting.

SERVICE AND MAINTENANCE LIGHTING

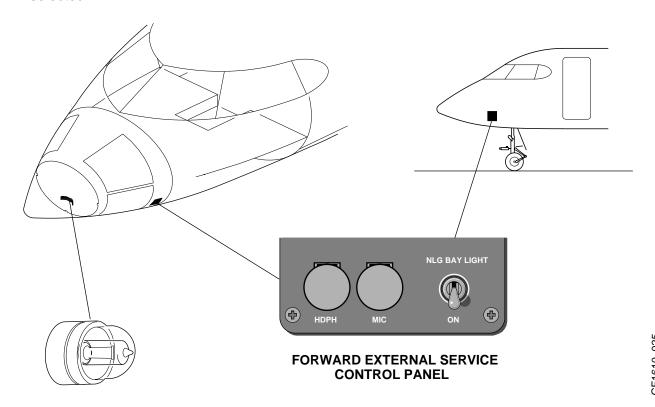
The service and maintenance lights supply lighting to the work areas of the airplane for servicing, maintenance and inspection purposes. The areas which illuminated are:

- Nose wheel well.
- Avionics compartments.
- Aft equipment bay.
- APU bay.

These lights are controlled to the on/off position by several switches located in proximity to the normal access areas. All service and maintenance lights are connected directly to an airplane battery. The nose wheel well light and the avionics compartment lights interface with one another. The aft equipment bay lights and the APU bay light interface with each other.

Nosewheel Bay Lighting

A maintenance light is installed in the nosewheel bay. The light is controlled by the switch on the forward external service control panel or when any of the switches in the avionics bay are selected.



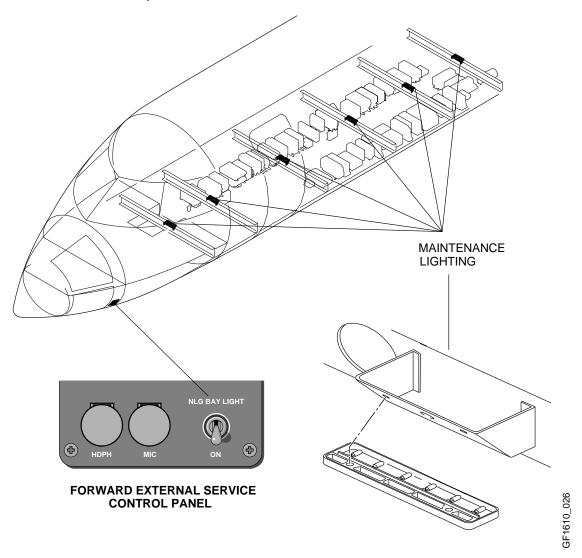
SERVICE AND MAINTENANCE LIGHTING (CONT'D)

Nosewheel Bay Lighting (Cont'd)

All lights in the avionics bay and nose landing gear bay can be automatically turned off by an auto shut-off device which prevents discharging of the avionics battery. After 15 minutes of normal operation, the lights will flash for approximately 10 seconds. The lights will then resume normal operation. When 20 minutes of normal operation (total time) have elapsed the lights are automatically turned off. All lights can be turned off and the timing sequence cancelled by selecting any of the switches twice within a three second period.

Avionics Bay Lighting

Six maintenance lights are installed in the avionics bay. The lights are controlled by the switch on the forward external service control panel or when any of three switches installed at different locations in the avionics bay are selected.



Automatic shut-off (described in the nose landing gear bay lighting section) prevents discharging of the avionics battery for prolonged periods of operation.

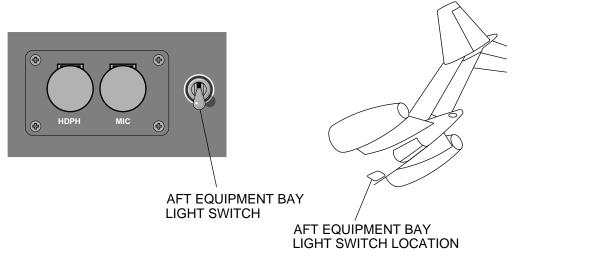
SERVICE AND MAINTENANCE LIGHTING (CONT'D)

Aft Equipment Bay Lights

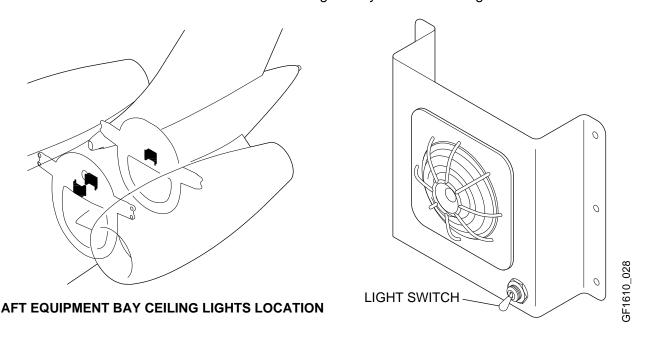
There are three lights located in the aft equipment bay area. These lights can be switched on by either of three switches:

- Two in the aft equipment bay.
- One in the APU bay area.

The aft equipment bay is equipped with one switch located on the aft equipment bay door frame and one located on one of the three light assemblies.



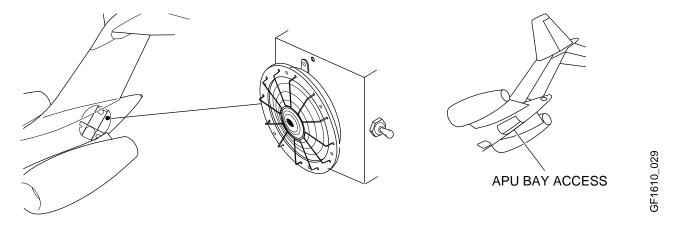
All lights in the aft equipment and APU bays can be automatically turned off by an auto shut-off device which prevents discharging of the APU battery. The design of this auto shut-off device is similar to the one used for the avionics and nose gear bay maintenance lights.



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SERVICE AND MAINTENANCE LIGHTING (CONT'D) APU Bay Lights

There is one light located in the APU bay area. This light can be switched on by one of the following three switches: two in the aft equipment bay and one located on the light assembly in the APU bay area. This light can be automatically shut-off by the auto shut-off device described previously in the aft equipment bay light section.



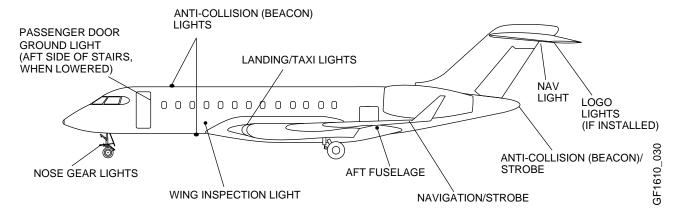
EXTERNAL LIGHTING

External lighting provides high intensity lights for landing and ground flood lights for area lighting and taxiing.

The external lighting includes the following:

- · Landing/taxi lights.
- Navigation (position) lights.
- Anti-collision (strobe) lights.
- Wing inspection, aft fuselage lights and passenger door ground light.
- Logo lights (if installed).
- Service area lights.

EXTERNAL LIGHTING SCHEMATIC

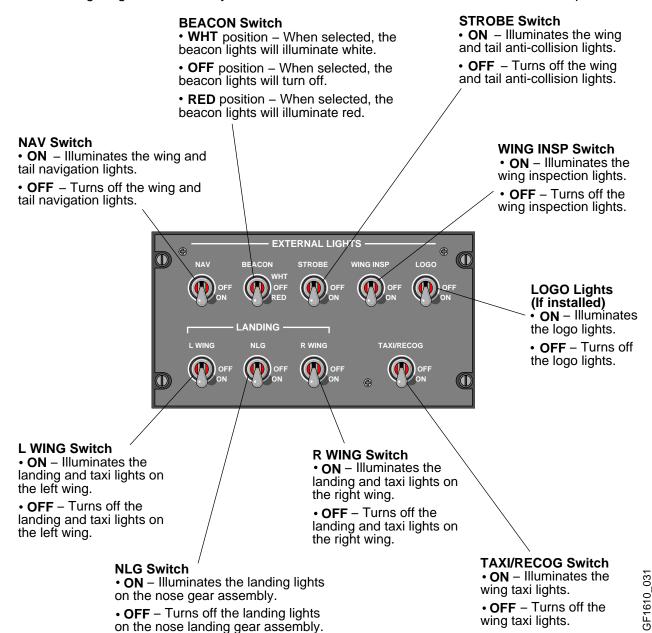


EXTERNAL LIGHTS CONTROL PANEL

The external lights control panel includes switches for the following lights:

- Navigation.
- Strobe beacon.
- Wing inspection.
- Landing/taxi.
- Taxi recognition.
- Logo (if installed)

All external lighting is controlled by switches located on the EXTERNAL LIGHTS control panel.

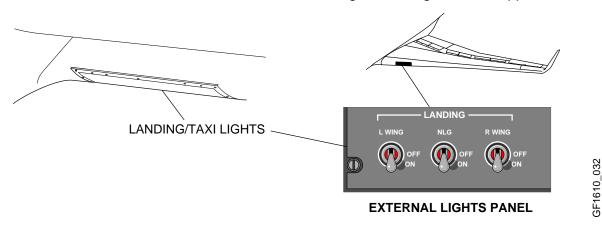


Landing Lights

A landing light is installed in each wing leading edge and two landing lights are installed on the nose gear. Each wing light is controlled by a dedicated on/off switch, while both nose landing lights are controlled by a single on/off switch.

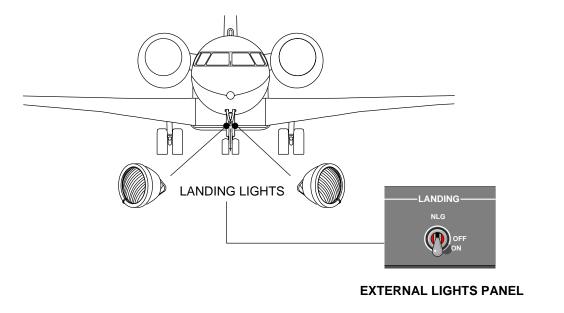
Wing Landing/Taxi Lights

Combined landing/taxi lights are installed in each wing fairing (leading edge) and controlled by individual switches on the EXTERNAL LIGHTS panel in the overhead panel. Selecting the individual "L or R WING" switch will illuminate the landing and taxi lights on the applicable side.



Nose Gear Landing Lights

Two sealed beam lamp landing lights are installed on the nose landing gear assembly. Both are controlled by an individual "NLG" switch on the EXTERNAL LIGHTS panel in the overhead panel.

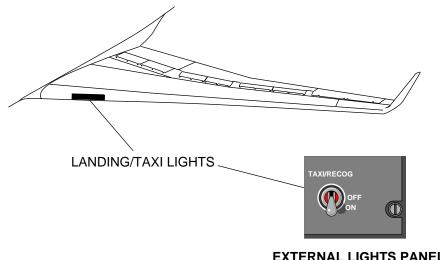


The nose gear landing lights illuminate when the switch is selected and the nose landing gear is down and locked.

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Taxi Lights

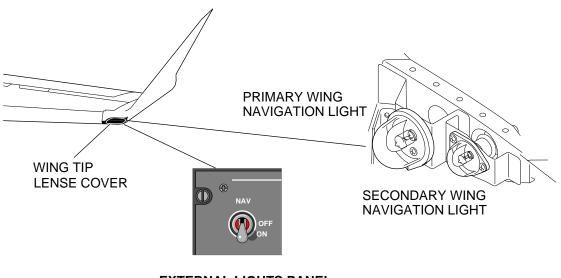
A taxi light is installed in each wing leading edge and controlled by a single "TAXI/RECOG" switch on the EXTERNAL LIGHTS panel for ground operation. These lights are also used for in flight recognition lights.



EXTERNAL LIGHTS PANEL

Wing Navigation Lights

Dual forward navigation lights are installed in each wing tip. The wing mounted navigation lights are covered by wing tip lenses on both wings. Two green primary and secondary navigation lights (position lights) are located in the right wing tip. Two red primary and secondary navigation lights (position lights) are located in the left wing tip. These lights are controlled by the "NAV" switch located on the EXTERNAL LIGHTS panel.



EXTERNAL LIGHTS PANEL

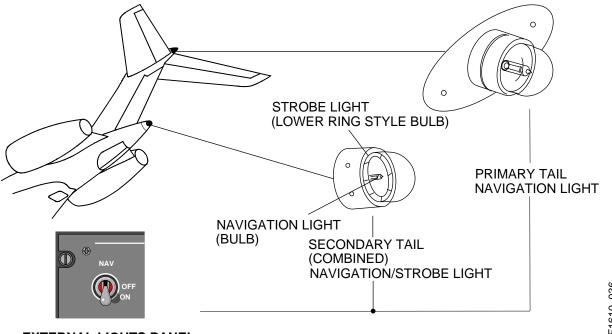
When the NAV switch is selected, the primary lights on each wing illuminate. Switch over from the primary to the secondary light system due to a navigation light failure is achieved automatically, by means of a navigation light control/indication unit (control box).

Wing Navigation Lights (Cont'd)

The primary wing navigation lights have a higher wattage than the secondary lights and are protected from overheat due to insufficient cooling. Due to high temperature conditions (limit temperature of the wing tip lens material) experienced on the ground, the system will automatically switch to the secondary wing navigation lights. A thermal switch is integrated in the equipment below each lens to detect temperature changes for automatic switching to the back-up (secondary) system.

Tail Navigation Lights

Two white navigation lights (primary and secondary) are located at the aft extremity of the airplane (fin and tail cone).



EXTERNAL LIGHTS PANEL

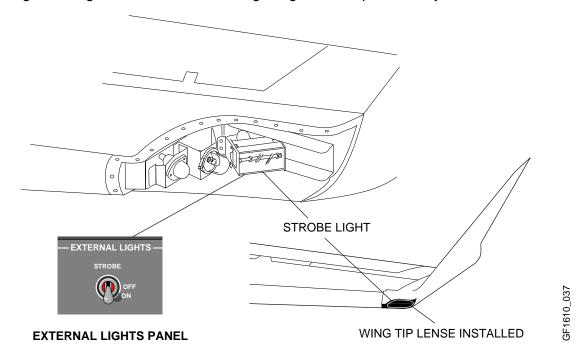
- Primary Light One primary navigation light is located on the trailing edge at the tail fairing.
 This light is controlled by the "NAV" switch (which also controls the wing navigation lights) located on the EXTERNAL LIGHTS panel to control the wing navigation lights.
- Secondary Light One secondary navigation light is located in the tail cone and is part of the combined rear strobe/navigation light unit. The lower portion of the unit is the strobe light. The bulb portion of the combined rear strobe/navigation light unit is the navigation light. This navigation light is controlled by the "NAV" switch (located on the EXTERNAL LIGHTS panel) which controls the wing navigation lights.
- When the "NAV" switch is selected on ground, the secondary light will illuminate for approximately 30 seconds then, switch over to primary light control. Switch over from the primary to the secondary light system due to a navigation light failure is achieved automatically by means of the navigation light control/indication unit.

Strobe Lights

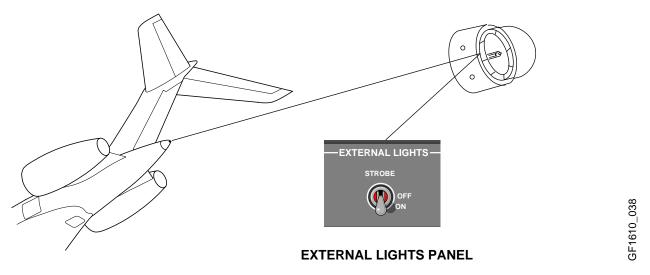
The anti-collision light system consists of two redundant systems: one wing tip/tail mounted and one fuselage mounted. One white anti-collision strobe light is located on each wing tip next to the navigation lights and one on the tail cone of the airplane.

Wing/Tip Tail Mounted Strobes

The wing strobe lights and the rear strobe light together comprise one system.



The flashing of the three white strobe lights is synchronized, simultaneous and used as the main system on the airplane.

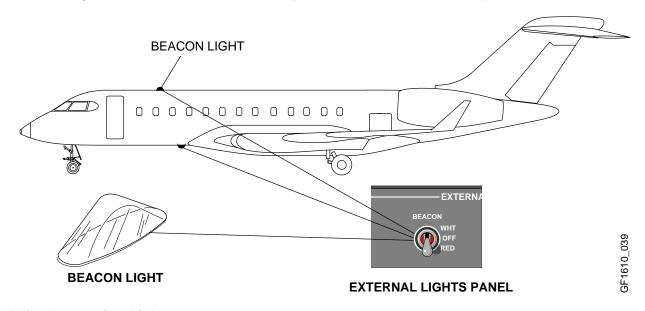


The wing and tail lights are white in color and controlled by the "STROBE" on/off switch located on the EXTERNAL LIGHTS panel.

Fuselage Mounted Strobes

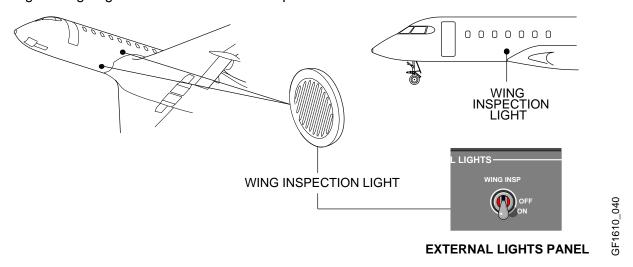
The red/white anti-collision strobe lights are located at the top and bottom of the fuselage. The upper strobe light and the lower strobe light together comprise one system. The flashing of the two lights is synchronized and simultaneous. These lights can be selected white or red through a "WHT/OFF/RED" switch located on the EXTERNAL LIGHTS panel. The red strobe light is incorporated in the fuselage mounted lights for ground operational purposes to minimize unfavorable effects on the crew and outside personnel during ground handling.

The fuselage mounted white anti-collision system is used as a back-up system on the airplane.



Wing Inspection Lights

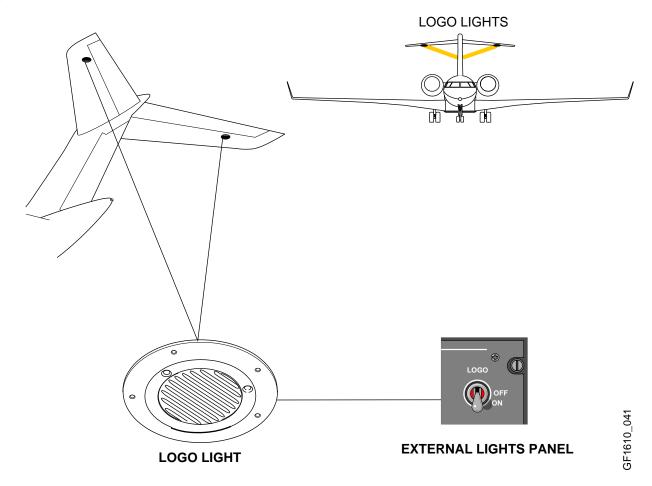
One wing inspection light is mounted on each side of the airplane to provide illumination of the wing leading edges that are critical with respect to ice accumulation.



The lights are controlled by the "WING INSP" on/off switch located on the EXTERNAL LIGHTS panel.

Logo Lights (If Installed)

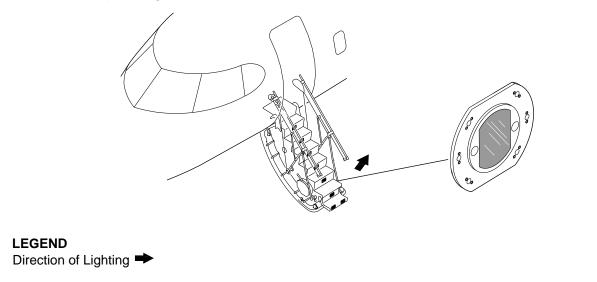
Space provisions are available for the installation of logo lights, to illuminate a customer logo painted on the vertical stabilizer.



The logo lights can be controlled by a "LOGO" on/off switch located on the EXTERNAL LIGHTS panel.

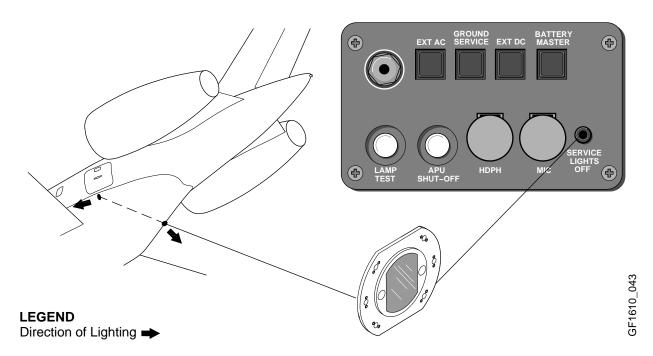
Passenger Door (Fuselage/Wing) Ground Lighting

One light is installed on the right lower section of the passenger door assembly. The light is directed aft along the forward fuselage ground area and wing. It is controlled by a switch located beside the main passenger door.



Aft Fuselage Service Lights

Two service lights are installed on the left and right lower aft fuselage. These lights are used to illuminate the aft wing and ground areas.



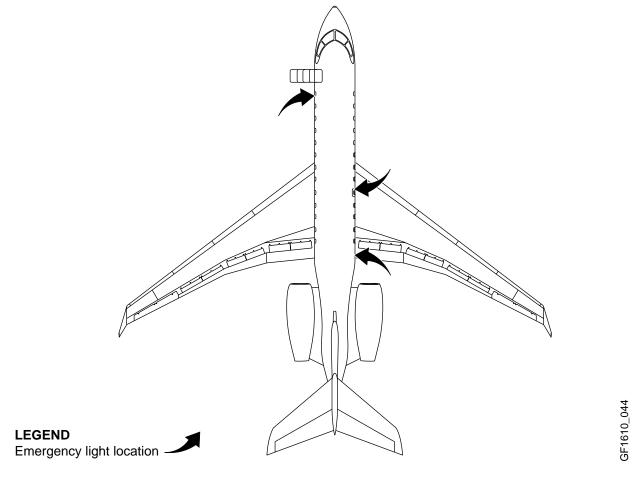
The lights are controlled by the service area light switch located on the aft external service control panel.

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EMERGENCY LIGHTING

Emergency lights are provided to illuminate escape routes in case of an emergency evacuation. The external emergency lights are located in the following areas:

- On the fuselage adjacent to the passenger door.
- Two over the right wing.



Details/illustrations of the interior ferry kits are not covered in this operating manual. An interior emergency lighting system (ferry kit) for the airplane consists of:

Four emergency dome lights.

An exit locating and marking signs system (ferry kit) for the airplane consists of:

- Two exit signs.
- Two exit locator signs.

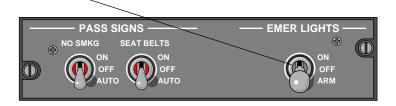
All fixed emergency lights are controlled by an "ON/OFF/ARM" switch on the PASS SIGNS/EMER LTS panel or automatically if the system is armed and the airplane DC power fails. The electrical power for all emergency lights is supplied by self contained battery power supply units.

EMERGENCY LIGHTING CONTROL

The emergency lights are controlled by the "ON/OFF/ARM" switch located on the PASS SIGNS/EMER LTS panel. A second switch for emergency lights control can be installed as an option, at the flight attendant position.

EMER LTS Switch

- ON Turns on all emergency lights.
- **OFF** Removes power from the emergency lights.
- ARM Emergency lights will come on if the DC essential bus fails.



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Flight Attendant ON/OFF Control (if installed)

The flight attendant emergency lights control switch is accessible while seated in the flight attendant seat. The flight attendant "ON/OFF" switch is an option and will be installed with final cabin refurbishment. The switch operation is as follows:

• OFF Mode – Normally used in this selection and the flight compartment switch has priority in the "ON/OFF" position in an emergency situation.

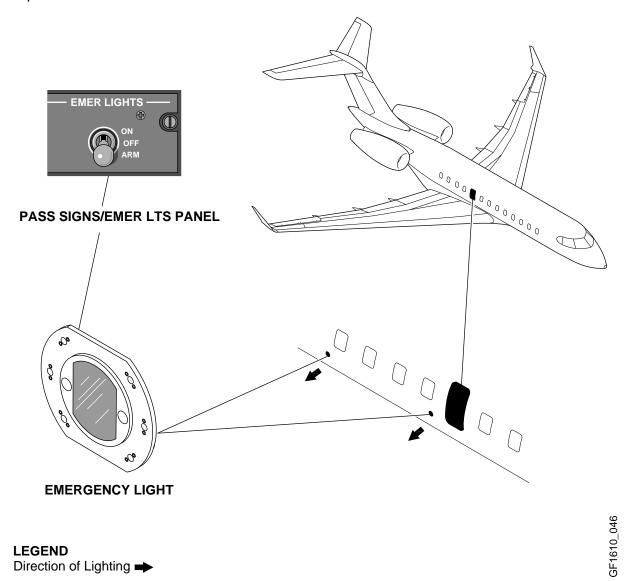
NOTE

The "ON" position in the flight compartment is independent of both the "ON" and "OFF" mode of the flight attendant switch.

• ON Mode – When selected to the "ON" position, the emergency lighting system will illuminate, provided that the switch in the flight compartment is in the "ARM" position.

EXTERNAL EMERGENCY LIGHTING

Exterior emergency exit lights are positioned adjacent to the emergency exits to assist in evacuation of the airplane.



Overwing Emergency Exit Lights

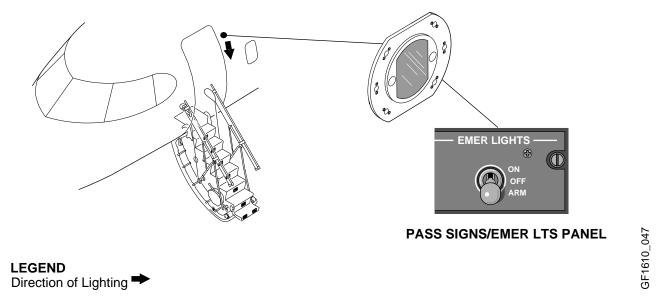
One overwing emergency light is installed over the right wing to illuminate the exit area, the wing and the ground along the escape route(s).

A second light is installed on the right hand side on the aft fuselage to illuminate the exit area, the wing and the ground along the escape route.

EXTERNAL EMERGENCY LIGHTING (CONT'D)

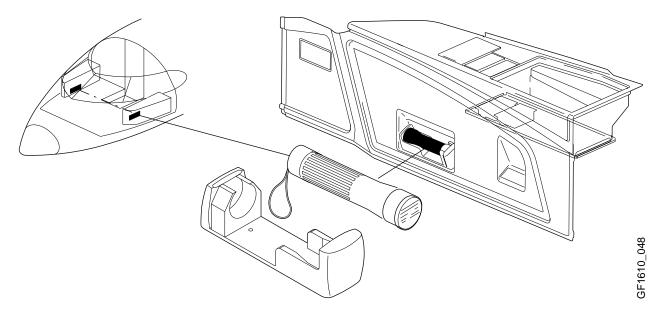
Passenger Door Emergency Light

One emergency light is installed in proximity to the passenger door to provide illumination of the door stairway and the ground area at the foot of the stairway.



Flight Compartment Flashlights

One flashlight is located on each side of the flight compartment to be used in an abnormal or emergency condition.



The flashlights are considered as part of the flight compartment furnishing equipment. Each flash light is automatically activated when removed from its retention bracket and has a built-in battery/lamp flashing LED indicator monitoring circuit and battery pack.

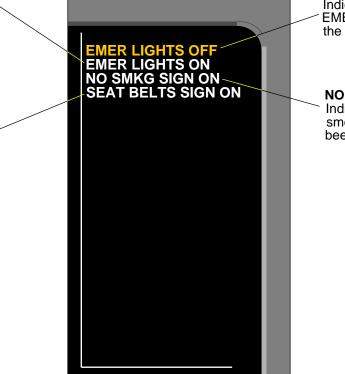
EICAS MESSAGES

EMER LIGHTS ON

SEAT BELTS SIGN ON Indicates that the seat belts sign has been

activated.

Indicates that the emergency lights have automatically activated (no power on the DC ESS bus) with the EMER LTS switch in the arm position or the EMER LTS switch is selected ON.



EMER LIGHTS OFF Indicates that the EMER LTS switch is in the off position.

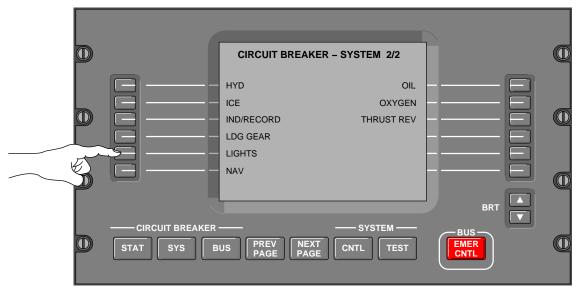
NO SMKG SIGN ON Indicates that the no smoking sign has been activated.

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LIGHTING EMS CIRCUIT PROTECTION

CB - LIGHTS SYSTEM



	CB - LIGHT		-, -
AFT MA	AINT LTS	APU BATT	ASCA IN
AREA	LTS	AV BATT	DCPC IN
BEACC	N LT 1	DC 2	IN
BEACC	N LT 2	DC 2	IN
CB PNI	INTG LTS	DC 2	IN
COPILO	OT INTG LTS	DC 1	IN
	CB – LIGHT	S SYSTEM	2/7
CTR 1	INTG LTS	DC ESS	IN
CTR 2	INTG LTS A	BATT	IN
CTR 2	INTG LTS B	APU BATT	ASCA IN
CTR 3	INTG LTS	DC 2	IN
EMER	LTS	DC ESS	IN
FLOOD	LTS	DC ESS	IN
	CB - LIGHT	S SYSTEM	3/7
FLOOR	/EYE LTS	DC 2	IN
FWD M	AINT LTS	AV BATT	DCPC IN
L LOGO	LTS	DC 1	IN
L NOSE	LDG LT	DC 1	IN
L TAXI	LT	AC 1	IN
L WING	LDG LT	AC 1	IN
	CB – LIGHT	S SYSTEM	4/7
LIGHT	DETECTOR		IN
MAP LT	rs	BATT	IN
NAV LT	S	DC 2	IN
NO SM	OKING SIGN	BATT	IN
OVHD	1 INTG LTS	BATT	IN
OVHD:	2 INTG LTS	DC 1	IN

TS SYSTEM	5/7			
BATT	IN			
DC 1	IN			
BATT	IN			
DC 2	IN			
BATT	IN			
DC 1	IN			
S SYSTEM	6/7			
DC ESS	IN			
DC 2	IN			
DC 2	IN			
AC 4	IN			
AC 4	IN			
BATT	IN			
CB – LIGHTS SYSTEM 7/7				
AV BATT DCPO	C IN			
DC 1	IN			
DC 1	IN			
DC 1	IN			
	BATT DC 1 BATT DC 2 BATT DC 1 TS SYSTEM DC ESS DC 2 DC 2 AC 4 AC 4 BATT TS SYSTEM AV BATT DC 1			

NOTE

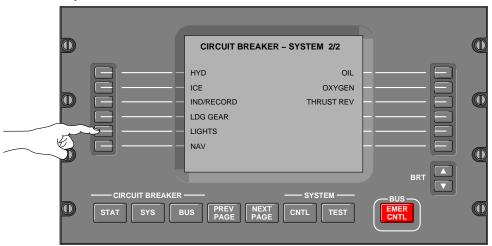
The OIL TANK PROBE power source is tied to the MAP LTS circuit breaker, therefore, the OIL TANK PROBE circuit breaker is OUT for airplanes incorporating SB 700–79–005.

LIGHTING EMS CIRCUIT PROTECTION

CB - LIGHTS SYSTEM (CONT'D)

Effectivity:

- Airplanes 9002 thru 9122 not incorporating Service Bulletin:
 - SB 700-24-045, AC and DC Power Distribution Unit Change and Activation of Build 4 Electrical System.



CB – LIGHTS SYSTEM 1/7		CB - LIGHTS SYSTEM		4//	CB - LIGHTS SYST			
AFT MAINT LTS	APU BATT	ASCA	IN	LOGO LTS	AC 4	IN	TAIL STROBE LTS	DC 1
AREA LTS	AV BATT	DCPC	IN	MAP LTS	BATT	IN	WING INSPECT LTS	DC 1
BEACON LT 1	DC 2		IN	NAV LTS	DC 2	IN	WING STROBE LTS	DC 1
BEACON LT 2	DC 2		IN	NO SMOKING SIGN	BATT	IN		
CB PNL INTG LTS	DC 2		IN	OVHD 1 INTG LTS	BATT	IN		
COPILOT INTG LTS	DC 1		IN	OVHD 2 INTG LTS	DC 1	IN		
CB – LIGHT	S SYSTEM		2/7	CB - LIGHT	S SYSTEM	5/7		
CTR 1 INTG LTS	DC ESS		IN	PBA BRT/DIM 1 A	BATT	IN		
CTR 2 INTG LTS A	BATT		IN	PBA BRT/DIM 1 B	DC 1	IN		
CTR 2 INTG LTS B	APU BATT	ASCA	IN	PBA BRT/DIM 2 A	BATT	IN		
CTR 3 INTG LTS	DC 2		IN	PBA BRT/DIM 2 B	DC 2	IN		
EMER LTS	DC ESS		IN	PBA BRT/DIM 3 A	BATT	IN		
FLOOD LTS	DC ESS		IN	PBA BRT/DIM 3 B	DC 1	IN		
CB – LIGHT	SSYSTEM		3/7	CB – LIGH	TS SYSTEM	l 6/7		
FLOOR/EYE LTS	DC 2		IN	PILOT INTG LTS	DC ESS	IN		
FWD MAINT LTS	AV BATT	DCPC	IN	R NOSE LDG LT	DC 2	IN		
L NOSE LDG LT	DC 1		IN	R TAXI LT	AC 4	IN		
L TAXI LT	AC 1		IN	R WING LDG LT	AC 4	IN		
L WING LDG LT	AC 1		IN	SEAT BELTS SIGN	BATT	IN		
LIGHT DETECTOR	DC 1		IN	STAIR LTS	AV BATT	DCPC IN		

CB - LIGHTS SYSTEM

IN IN

IN