

100 percent position should be selected when using an oxygen mask for smoke protection. The emergency position on the mask may be used if increased oxygen flow is desired. Use of the emergency position will result in diminished duration of oxygen supply.

A two-position toggle switch is provided on the pilot's and copilot's side consoles. The switch is marked MIC OXY MASK and MIC HEAD SET. Depressing the microphone button on the appropriate control wheel allows a crewmember to transmit through the headset microphone or oxygen mask microphone, whichever is selected.

LIGHTING

INTERIOR LIGHTING

Interior lighting is provided for the flight compartment, cabin and tailcone area. Electroluminescent panels, instrument floodlights and white background lighting illuminate all cockpit instruments and switches. Two overhead floodlights, controlled by a single rheostat switch, are available for additional cockpit lighting. The overhead floodlights operate off the emergency bus in the event of a double generator failure. The following instrument panel lights can be operated from the standby gyro battery in case of electrical system failure: standby gyro indicator; dual fan tachometer; and the standby altimeter/airspeed indicator. All lights except the overhead and instrument floodlights are controlled by a PANEL LIGHT CONTROL master switch and then adjusted by rheostats. When the instrument panel lights are on, a dimmer is activated in the annunciator panel to provide for lower warning light intensity during night flying. The starter disengage switch is also illuminated when the panel lights are on. A floodlight in the glare shield comes on to illuminate the fan tachometers when a starter switch is pressed. It goes out when the starter/generator reverts to generator operation.

Two individually controlled map lights are located in the overhead panel above the pilot and copilot. Intensity controls are located at the forward end of each side console.

Cabin lighting includes individually controlled overhead reading lights, two aft baggage compartment lights, a refreshment center light and optional overhead fluorescent lighting. An illuminated switch on the forward door post turns on exit lights over the main and emergency doors and one aft baggage compartment light. These lights are powered by the hot battery bus and are available any time the battery is installed and serviceable.

A three-position passenger advisory switch in the cockpit is also tied to the hot battery bus. In the SEAT BELT position, only the FASTEN SEAT BELT sign is illuminated in the cabin. In the PASS SAFETY position, the NO SMOKING, FASTEN SEAT BELT sign and EMERGENCY EXIT lights are illuminated. When the switch is OFF, all advisory and emergency lighting is extinguished.

A third provision for emergency exit lighting is through a small battery in the cabin headliner which will power the emergency exit lights any time a sensor is exposed to a force of 5 Gs or more.

TAILCONE LIGHTING

A detachable light located in the forward tailcone area provides interior lighting for tailcone inspection. Power is from the hot battery bus. The OFF/ON switch is mounted on the access doorframe and is wired through the door-closed microswitch. Closing the tailcone compartment door will extinguish the light, regardless of OFF/ON switch position.

TAILCONE BAGGAGE COMPARTMENT

A tailcone baggage compartment light is located above the tailcone access door. The switch is located on the aft face of the forward door post.

NOSE BAGGAGE COMPARTMENT LIGHTING

A light located centrally in the nose baggage compartment provides interior lighting for baggage loading or unloading. An illuminated OFF/ON switch, located adjacent to the light, is wired through a microswitch in each nose baggage access door release latch. With the switch in the ON position, opening either door will illuminate the light. Closing the baggage doors will extinguish the light, regardless of switch position.

The nose baggage light is powered by the hot battery bus and is available any time the battery is connected and serviceable.

EXTERIOR LIGHTING

Exterior lighting consists of wing and tail mounted navigation lights, anti-collision lights (strobe), a wing inspection light, landing lights, and combined taxi - recognition - landing lights (the outboard lights on the wing tip are landing lights which illuminate with LH ON and RH ON positions of the landing light switches; if the landing gear is extended, the lights on the landing gear doors also come on in this selection. The respective gear door lights, as well as the wing tip recognition lights, also come on any time the landing gear is extended and the REC/TAXI position is selected on these switches; with the landing gear retracted the inboard wing tip lights [only] operate as recognition lights). A rotating beacon is installed on top of the rudder, and optional tail flood lights are available. All exterior lights are controlled by switches located on the instrument panel. The navigation lights are installed in the wing tips and in the tailcone cap. A wing inspection light, located located aft of the cabin door, illuminates the forward portion of the left wing, enabling the pilot to detect ice buildup during night flight. The wing recognition lights allow the pilot to turn on high intensity lights, similar to the landing lights, without having to lower the landing gear. A landing/taxi light is attached to each main landing gear door and they are individually controlled as explained above. The gear door lights are automatically shut off, regardless of switch position, when the landing gear is retracted. Anti-collision lights are mounted next to the navigation lights, one in each wing tip. These lights are of very high intensity and can be disturbing to other airplanes and ground personnel if they are used during ground operations. They should be turned on just prior to takeoff roll and secured shortly after landing. The tail flood lights, if installed, are mounted on top of the horizontal stabilizer and illuminate the vertical fin area for inflight recognition at night.