

The optional Puritan Bennet sweep-on mask (174045-16) must be properly stowed to qualify as a quick donning mask. (Refer to placard adjacent to retainer for proper stowage position.) Oxygen supply to the mask may be verified by checking the transparent cylinder in the supply line for a green band. To ensure adequate supplemental oxygen, the regulator should be set to 100% for cabin altitudes above 20,000 feet.

The optional EROS mask operates similar to the standard mask except that mask emergency pressure is tested with a "press-to-test" button, and changed to emergency by turning that same button to EMER setting.

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. All lights except the overhead and instrument floodlights are controlled by a PANEL LIGHT CONTROL master switch (NIGHT DIM/ON/OFF) and are 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, an aft (tailcone and baggage compartment) compartment light, a refreshment center light and optional overhead fluorescent lighting. An illuminated switch on the aft side of the cabin refreshment center, forward of the cabin door, turns on exit lights over the main and emergency doors and two cabin PSU lights. 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 FASTEN SEAT BELT sign, the interior EMERGENCY EXIT lights and aft right hand PSU are illuminated. The NO SMOKING sign is illuminated at all times. 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 interior exit lights any time a sensor is exposed to a lateral fore and aft force of 5 Gs or more.

TAILCONE LIGHTING

A light mounted in the top of the baggage compartment in the tailcone provides interior lighting for the aft baggage compartment and for tailcone inspection. Power is from the hot battery bus. The OFF/ON switch is mounted on the forward side of the access door frame.

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 hinge. 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.

EXTERIOR LIGHTING

Exterior lighting consists of wing and tail mounted navigation lights, anti-collision lights (strobes), a wing inspection light, combined taxi/recognition/landing lights, and a red flashing beacon. All exterior lights are controlled by switches located on the pilot's instrument panel or switch panel. The navigation lights are installed in the wing tips and in the horizontal stabilizer fairing. The wing inspection light, 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 flashing beacon is located on top of the horizontal stabilizer above the rudder. The combination landing/recognition/taxi lights are mounted in the front of the bottom fairing of the center wing below the fuselage. Both lights are individually controlled. Prisms mounted in the fairing below the lights reflect the lights forward at the proper angle. The light switches are labeled LANDING L or R and OFF/RECOG/TAXI. OFF position removes power from the lights. The selection of LANDING causes the brightest illumination for landing; RECOG/TAXI position inserts a resistor into the circuit causing lower illumination, enabling use of the lights as recognition or taxi lights, while at the same time significantly extending lamp life because of operation at the reduced voltage level. 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.

There are two exterior emergency lights; one of which is located approximately six inches above the wing on the right side of the fuselage at about mid-wing. The other is located in the wing fairing of the right wing and shines on the ground near the front of the wing. Both lights are illuminated when the illuminated switch on the aft side of the refreshment center is on. They are also illuminated when the PASS SAFETY position of the passenger safety switch is selected and when the 5-G sensor is exposed to a lateral fore and aft force of 5 Gs or more.