

## LED NAV/ANTI-COLLISION LIGHTS - REMOVAL/INSTALLATION

### 1. General

- A. This section gives the procedure to remove and replace the LED NAV/Anti-Collision Light. The NAV/Anti-Collision light are each part of the NAV/Anti-Collision Light assembly and are removed as one unit. For Airplanes 208B5000 and On, each of the NAV/Anti-Collision light assemblies also have a tail position light (white), thus the incandescent tail stinger position light is no longer installed.

### 2. LED NAV/Anti-Collision Light Removal/Installation

- A. Remove the NAV/Anti-Collision Light (FL003 left, FR003 right) (Refer to Figure 401).

**NOTE:** Removal of the left and right NAV/Anti-Collision Lights are typical.

- (1) Remove external electrical power from the airplane.
- (2) Make sure that the BATTERY switch (SC005), found on the circuit breaker switch panel, is set to the OFF position.
- (3) Set the EXTERNAL POWER switch (SC006), found on the circuit breaker switch panel, to the OFF position.
- (4) Make sure that the NAV LIGHT and STROBE LIGHT circuit breakers, found on the left circuit breaker panel, are disengaged.
- (5) Remove the lens assembly.
  - (a) Carefully remove the sealer from the edge of the light assembly where it touches the spacer.
  - (b) Remove the screws that attach the front and rear lens retainer to the light assembly.
  - (c) Remove the lens and gasket from the light assembly.
- (6) Remove the light assembly.
  - (a) Remove the screws that attach the light assembly to the wing tip.
  - (b) Carefully remove the light from the wing tip sufficiently to get access to electrical connectors PL003 (left), PR003 (right) as applicable.
  - (c) Disconnect electrical connector PL012 (left), PR012 (right) as applicable from the light assembly.
- (7) Remove the NAV/Anti-Collision light from the airplane.
- (8) Carefully remove the sealant from the spacer.
  - (a) Remove the spacer from the wing tip.
- (9) Examine the spacer to make sure that there are no cracks or damage.

- B. Install the NAV/Anti-Collision Light (FL003 left, FR003 right) (Refer to Figure 401).

**NOTE:** Installation of the left and right NAV/Anti-Collision lights are typical.

- (1) Install the light assembly.
  - (a) Make sure that the mounting surface of the spacer is clean and free from old sealant.
  - (b) Fay seal the mounting surface and the spacer with Type XIV, Class B sealant. Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices.
    - 1 Install the spacer on the wing tip.
  - (c) Put the light near its correct position on the wing tip.
  - (d) Visually inspect the electrical connectors to make sure that there are no bent or damaged pins.
    - 1 Repair the found damage.
  - (e) Connect electrical connector PL012 (left), PR012 (right) as applicable to the light assembly.
  - (f) Carefully put the light in its correct position in the wing tip.
    - 1 Install the screws that attach the light to the wing tip.
- (2) Install the lens assembly.
  - (a) Put the gasket and lens in their correct position on the light assembly.
  - (b) Put the forward and aft lens retainers in their correct position on the light assembly.
  - (c) Install the screws that attach the lens retainers to the light assembly.
  - (d) Use Type XIV, Class B sealant to fay seal the light to the spacer. Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices.

- (3) Check the electrical bonding. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.
- (4) Do an operation test of the NAV/Anti-Collision light. Refer to LED Exterior Lighting - Maintenance Practices, NAV/Anti-Collision Light Operational Test.

Figure 401 : Sheet 1 : NAV/Anti-Collision Light Installation

