

MARKER BEACON ANTENNA - REMOVAL/INSTALLATION

1. General

- A. This section gives the removal and installation procedures for the marker beacon system antenna. For a general overview of the marker beacon system refer to Landing Aids - Description and Operation.

2. Tools and Equipment

- A. Tools and Equipment
 - None.
- B. Special Consumables
 - Protective cover.
- C. Reference Material
 - Refer to Chapter 20, Electrical Bonding - Maintenance Practices
 - Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices
 - Refer to Landing Aids - Description and Operation
 - Refer to Landing Aids - Adjustment/Test.

3. Setup

- A. Prepare the Airplane
 - (1) Put the BATTERY switch to the OFF position.
 - (2) Put the AVIONICS switches to the OFF position.
 - (3) Disconnect external electrical power from the airplane.
 - (4) Disengage the circuit breakers given in Table 401.

Table 401. Circuit Breakers

Circuit Breaker Name	Circuit Breaker Location
AUDIO	Avionics Circuit Breaker Panel
AUDIO 2	Avionics Circuit Breaker Panel

- (5) Remove the rear compartment wall. Refer to Chapter 25, Rear Compartment Wall - Maintenance Practices.

4. Marker beacon Antenna Removal

- A. Remove the Marker Beacon Antenna (Refer to Figure 401).
 - (1) Disconnect the coaxial connector (PT1001) from the antenna.
 - (a) If you are not immediately replacing the antenna, put a protective cover on the coaxial connector.
 - (2) Remove all sealant from the tops of the screws that attach the marker beacon to the airplane doubler.
 - (3) Remove any sealant from around the base of the antenna.
 - (4) Remove the screws that attach the marker beacon antenna to the airplane doubler.
 - (5) Remove the marker beacon antenna from the airplane.

5. Installation

- A. Install the Marker Beacon Antenna (Refer to Figure 401).
 - (1) Make sure that the mounting surface area for the marker beacon antenna is clean and free of old sealant and contamination. Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices.
 - (2) Put the antenna in its correct position on the bottom lower aft of the airplane.
 - (3) Install the screws that attach the antenna to the airplane.
 - (4) Connect the coaxial connector to the antenna.
 - (5) Engage the circuit breakers given in Table 401.

6. Post-Maintenance Checks

- A. Marker Beacon Post-Maintenance Checks
 - (1) Do an electrical bond check (Type I) between the antenna to the airplane. Refer to Chapter 20, Electrical Bonding -

Maintenance Practices.

- (2) Do an operational check of the marker beacon system. Refer to Landing Aids - Adjustment/Test.

7. Closeout

- A. Put the Airplane Back to its Initial Condition.
 - (1) Install the rear compartment wall. Refer to Chapter 25, Rear Compartment Wall - Maintenance Practices.
 - (2) Fillet seal around the base of the antenna and airplane fuselage skin with Type I, Class B sealant.

Figure 401 : Sheet 1 : Marker Beacon Antenna Installation

