

## MARKER BEACON ANTENNA COUPLER - REMOVAL/INSTALLATION

### 1. General

- A. This section gives the removal and installation procedures for the marker beacon system antenna coupler. 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
- Coaxial Connector Protective Covers.
- C. Reference Material
- Chapter 6, Access Plates And Panels Identification - Description And Operation
  - Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices
  - Chapter 25, Flight Compartment - Maintenance Practices
  - Landing Aids - Description and Operation
  - Landing Aids - Adjustment/Test.

### 3. Setup

- A. Prepare the Airplane
- (1) Make sure that the BATTERY switch, found on the circuit breaker switch panel, is set to the OFF position.
  - (2) Make sure that the AVIONICS switches on the circuit breaker switch panel, are set 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
<b>NOTE:</b> See note below.	

**NOTE:** Marker beacon function is provided by GMA 1 and GMA 2. The marker beacon coupler is only used with the dual GMA installation CRQ.

- (5) Remove the copilots seat. Refer to Chapter 25, Flight Compartment - Maintenance Practices.
- (6) Remove access panel 232BR. Refer to Chapter 6, Access Plates And Panels Identification - Description And Operation.

### 4. Antenna Coupler Removal

- A. Remove the Antenna Coupler (Refer to Figure 401).
- (1) On the coupler disconnect the coaxial connectors that follow:
    - PF1027
    - PF1028
    - PF1029.
  - (2) If you are not replacing the coupler at this time, put protective covers on the coaxial connectors.
  - (3) Remove the screws that attach the coupler to the Avionics rack.
    - (a) Remove the coupler from the airplane.

### 5. Antenna Coupler Installation

- A. Install the Antenna Coupler (Refer to Figure 401).
- (1) Put the coupler in its correct position on the avionics rack.
  - (2) Install the screws that attach the coupler to the avionics rack.
  - (3) If necessary, remove the protective covers from the coaxial connectors.

(4) Connect the coaxial connectors that follow to the coupler:

- PF1027
- PF1028
- PF1029.

(5) Engage the circuit breakers given in Table 401.

## **6. Post-Maintenance Checks**

A. Do the antenna coupler post-maintenance checks.

(1) 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 access panel 232BR. Refer to Chapter 6, Access Plates And Panels Identification - Description And Operation.

(2) Install the copilots seat. Refer to Chapter 25, Flight Compartment - Maintenance Practices.

Figure 401 : Sheet 1 : Antenna Coupler Installation

