

BENDIX/KING KA-44B ADF ANTENNA - REMOVAL/INSTALLATION

1. General

- A. This section gives the removal and installation procedures for the Bendix/King KA-44B ADF antenna, for Airplanes 20800500 and On and 208B2000 and On. For a general overview of the ADF system refer to, Bendix/King KR 87 ADF System - Description and Operation.

2. Tools and Equipment

- A. Tools and Equipment
 - Electrical Connector Protective Cover.
- B. Special Consumables
 - None.
- C. Reference Material
 - Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices
 - Bendix/King KR 87 ADF System - Description and Operation
 - Bendix/King KR 87 ADF System - Adjustment/Test.

3. Setup

- A. Prepare the Airplane for the Bendix/King KA-44B ADF antenna removal.
 - (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 breaker given in Table 401.

Table 401. Circuit Breaker

Circuit Breaker	Circuit Breaker Location
ADF 1	Avionics Circuit Breaker Panel

4. Bendix/King KA-44B ADF Antenna Removal

- A. Remove the KA-44B ADF Antenna (Refer to Figure 401).
 - (1) Carefully remove the sealant bond between the KA-44B antenna and the fuselage skin. Refer to Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices.
 - (2) Remove the screws that attach the antenna to the fuselage skin.
 - (3) Carefully move the antenna away from the airplane to get access to the electrical connector.
 - (a) Disconnect the electrical from the antenna.
 - (b) If you are not replacing the antenna in a short amount time, put a protective cover on the electrical connector.
 - (4) Remove the antenna from the airplane.

5. Bendix/King KA-44B ADF Antenna Installation

- A. Install the KA-44B ADF Antenna (Refer to Figure 401).
 - (1) Remove sealant from the fuselage skin. Refer to Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices.
 - (2) Visually examine the fuselage skin to make sure there are no cracks, corrosion, or damage.
 - (3) Remove the protective cover from the electrical connector.
 - (4) Put the antenna near it correct installation position.
 - (5) Connect the electrical connector to the antenna.
 - (6) Put the antenna in its correct installation position.
 - (7) Install the screws that attach the antenna to the fuselage skin.
 - (8) Engage the circuit breaker given in Table 401.

6. KA-44B ADF Antenna Post-Maintenance Checks

A. Do the KA-44B ADF Antenna Post-Maintenance Checks.

- (1) Do a check of the ADF system. Refer to Bendix/King KR 87 ADF System - Adjustment/Test.

7. Closeout

A. Put the Airplane Back to its Initial Condition.

- (1) Refer to Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices and seal the antenna and antenna screws as follows:
 - (a) Seal the outer edge of the antenna with Type I, Class B sealant.
 - (b) Seal the antenna screws to 0.25 inch (6.35 mm) with Type I, Class B sealant.

Figure 401 : Sheet 1 : KA-44B ADF Antenna Installation

