

BENDIX/KING KA-815 TAS DIRECTIONAL ANTENNA - REMOVAL/INSTALLATION

1. General

- A. This section gives the removal and installation procedures for the Bendix/King 870-KTA Traffic Advisory System KA-815 directional antenna. There are two TAS antennas installed on the airplane, the KA-815 directional antenna and the L-band antenna. For a general overview of the Bendix/King KTA-870 Traffic Advisory System refer to, Bendix/King KTA-870 Traffic Advisory System - Description and Operation.

2. Tools and Equipment

- A. Tools and Equipment
- Coaxial Connector Protective Covers.
- B. Special Consumables
- None.
- C. Reference Material
- Chapter 20, Electrical Bonding - Maintenance Practices
 - Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices
 - Chapter 25, Cabin Upholstery- Maintenance Practices
 - Bendix/King KTA-870 Traffic Advisory System - Description and Operation
 - Bendix/King KTA-870 Traffic Advisory System - 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 breaker given in Table 401.

Table 401. Circuit Breaker

Circuit Breaker Name	Circuit Breaker Location
TAS	Avionics Circuit Breaker Panel

- (5) As necessary, remove the cabin headliner. Refer to Chapter 25, Cabin Upholstery- Maintenance Practices.

4. KA-815 Directional Antenna Removal

- A. Remove the KA-815 Directional Antenna (Refer to Figure 401).
- (1) Disconnect the coaxial connectors (PF1007, PF1008, PCF1009, and PCF1010) from the directional antenna.
 - (a) If a replacement antenna is not to be installed immediately, put protective covers on the coaxial connectors.
 - (2) Remove the fillet seal from the base of the TAS directional antenna and the fuselage skin. Refer to Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices.
 - (3) Remove the sealant (white-RTV) from the screws on the TAS directional antenna.
 - (4) Remove the screws that attach the TAS directional antenna to the fuselage skin.
 - (5) Carefully remove the TAS directional antenna and the O-ring from the fuselage skin.

5. KA-815 Directional Antenna Installation

- A. Install the KA-815 Directional Antenna (Refer to Figure 401).
- (1) Install the O-ring on the TAS directional antenna.
 - (2) Put the TAS directional antenna and the O-ring in its correct position on the fuselage skin.
 - (3) Install the screws that secure the TAS directional antenna to the fuselage skin.
 - (4) If necessary, remove the protective cover from the coaxial connector.
 - (5) Connect the coaxial connectors (PC1007, PC1008, PC1009, and PC1010) to the TAS directional antenna.
 - (6) Make sure that the TAS directional antenna is Type I electrically bonded to the fuselage skin. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.

- (7) Engage the circuit breaker given in Table 401.

6. KA-815 Directional Antenna Post-Maintenance Checks

- A. Do the KA-815 Directional Antenna Post-Maintenance Checks. Refer to, Bendix/King KTA-870 Traffic Advisory System - Adjustment/Test.

7. Closeout

- A. Put the Airplane Back to its Initial Condition.
- (1) Apply Type V, Class B sealant (white RTV) on the top of the screws that secure the TAS directional antenna to the fuselage skin.
 - (2) Apply Type I, Class B sealant to make a fillet seal around the base of the TAS directional antenna and the fuselage skin. Refer to Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices.
 - (3) As necessary, put the cabin headliner back to previous condition. Refer to Chapter 25, Cabin Upholstery-Maintenance Practices.

Figure 401 : Sheet 1 : TAS Antenna Installation

