

DME ANTENNAS - REMOVAL/INSTALLATION

1. General

- A. This section gives the removal and installation procedures for the DME antennas. For a general overview of the DME system refer to, Bendix/King KN 63 DME 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, Electrical Bonding - Maintenance Practices
 - Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices.
 - Bendix/King KN 63 DME System - Description and Operation
 - Bendix/King KN 63 DME System - Adjustment/Test.

3. Setup

- A. Prepare the Airplane for the removal of the DME antenna.
- (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 Breakers

Circuit Breaker Name	Circuit Breaker Location
DME	Avionics Circuit Breaker Panel

4. DME Antenna Removal (No Cargo Pod)

- A. Remove the DME Antenna (Refer to Figure 401).
- (1) Carefully remove the sealant bond between the DME antenna and the fuselage skin.
 - (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 connector from the antenna.
 - (b) If you are not replacing the antenna right away, put a protective cover on the electrical connector.
 - (4) Remove the antenna from the airplane.

5. DME Antenna Installation (No Cargo Pod)

- A. Install the DME 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) If necessary, remove the protective cover from the electrical connector.
 - (4) Put the antenna near its 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,

6. DME Antenna Removal (Cargo Pod)

- A. Remove the DME Antenna (Refer to Figure 401).
- (1) Carefully remove the sealant bond between the DME antenna and the fuselage skin.

- (2) Remove the screws that attach the antenna to the fuselage skin,
- (3) Open a cargo pod access door near where the antenna is installed to get access to the electrical connector.
 - (a) Remove the cable cover and plate cover to gain access to the electrical connector for the antenna.
 - (b) Disconnect the electrical connector from the antenna.
 - (c) If you are not replacing the antenna right away, put a protective cover on the electrical connector.
- (4) Remove the antenna from the airplane.

7. DME Antenna Installation (Cargo Pod)

A. Install the DME 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) Remove the cable cover and plate cover that protects the cable and right angle electrical connector.
- (3) Visually examine the fuselage skin to make sure there are no cracks, corrosion, or damage.
- (4) Put the antenna in its correct installation position.

NOTE: Some DME antennas are located towards the front of the cargo pod, while others are located towards the rear of the cargo pod.

- (5) Install the screws that attach the antenna to the fuselage skin,
- (6) Install the right angle adapter to the DME antenna electrical connector.
- (7) Connect the electrical connector to the antenna.
- (8) Install the cable cover and plate cover that protects the cable and right angle electrical connector for the antenna.
- (9) Do an electrical bond check (Type V) between the antenna and the airplane. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.

8. DME Antenna Post-Maintenance Checks

A. Do the DME Antenna Post-Maintenance Checks

- (1) Do a check of the DME antenna. Refer to Bendix/King KN 63 DME System - Adjustment/Test.

9. Closeout

A. Put the Airplane Back to its Initial Condition.

- (1) Seal the outer edge of the antenna with Type I, Class B sealant. Chapter 20, Fuel, Weather And High-Temperature Sealing - Maintenance Practices.
- (2) Close the cargo pod door.

Figure 401 : Sheet 1 : DME Antenna Installation

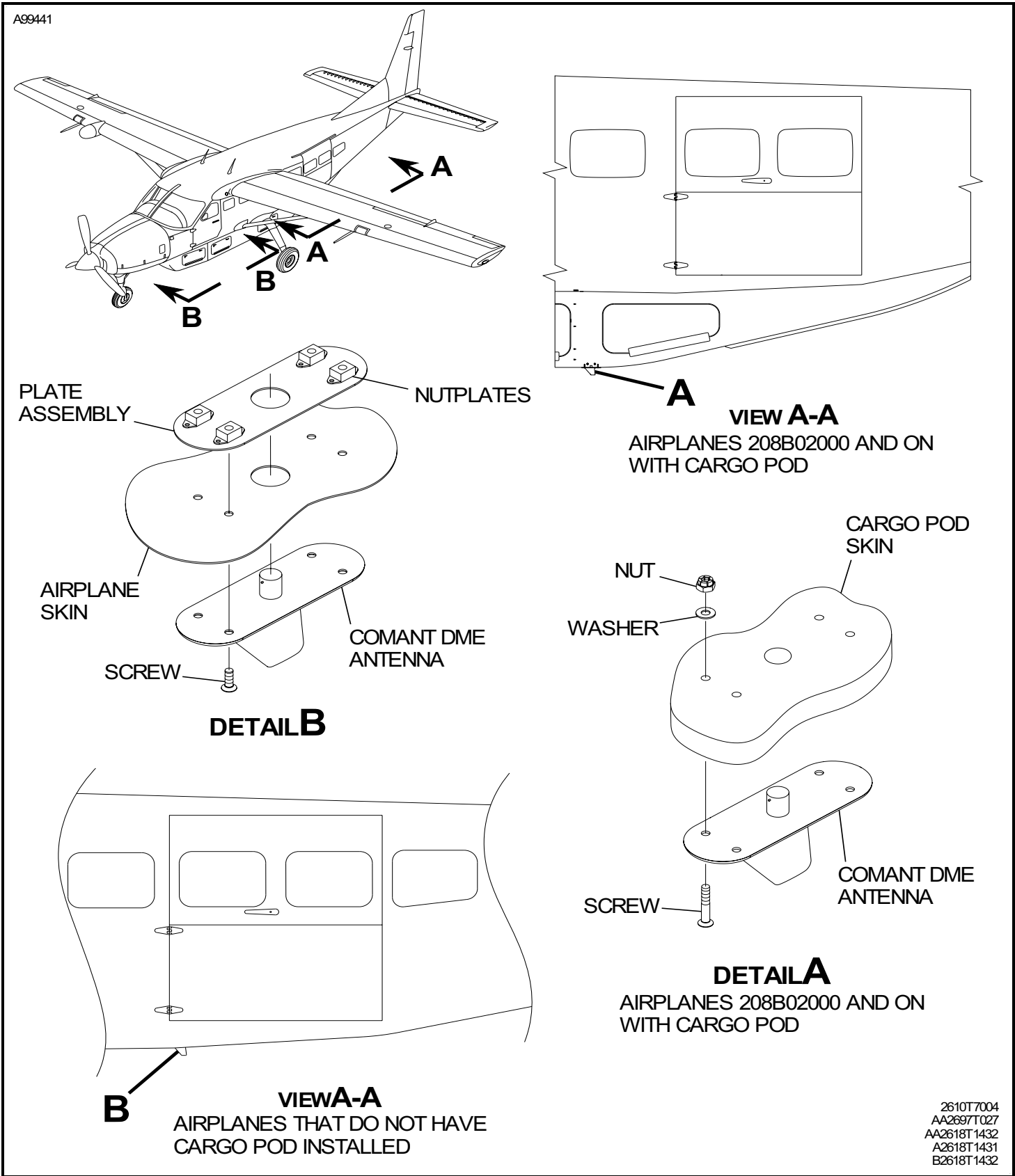


Figure 401 : Sheet 2 : DME Antenna Installation

