

COMANT VHF ANTENNA - REMOVAL/INSTALLATION

1. General

- A. This page block gives the procedures for the removal and installation of the Comant VHF antennas. There is a left antenna that is a component of the VHF 1 system (COM 1) and the right antenna that is a component of the VHF 2 system (COM 2). For a general overview of the Garmin VHF Communications System refer to Garmin VHF Communications System - Description and Operation.
- B. The VHF COM 1 and VHF COM 2 receiver/transmitter functions are found in the Garmin GIA 63W/64W Integrated Avionics Units No.1 and No. 2, respectively. For the GIA 63W/64W unit maintenance procedures refer to Garmin G1000 GIA 63W/64W Integrated Avionics Unit - Removal/Installation.

2. Tools and Equipment

- A. Tools and Equipment
 - Protective cover.
- B. Special Consumables
 - None.
- C. Reference Material
 - Chapter 20, Torque Data - Maintenance Practices
 - Chapter 20, Electrical Bonding - Maintenance Practices
 - Chapter 20, Fuel, Weather, Pressure, and High-temperature Sealing - Maintenance Practices
 - Garmin G1000 VHF Communications System - Description and Operation
 - Garmin G1000 VHF Communication System - Adjustment/Test
 - Chapter 25, Cabin Upholstery - Maintenance Practices.

3. Setup

- A. Prepare the Airplane
 - (1) Make sure that the BATTERY switch is set to the OFF position.
 - (2) Make sure that the AVIONICS switches are set to the OFF position.
 - (3) Make sure that the EXTERNAL POWER switch is set to the OFF position.
 - (4) Remove external electrical power from the airplane.
 - (5) Disengage the circuit breakers applicable to the antenna you are replacing given in Table 401.

Table 401. Circuit Breakers

VHF Antenna	Circuit Breaker Name	Circuit Breaker Location
VHF Antenna 1 (COM 1)	COM 1	Avionics Circuit Breaker Panel
	NAV 1	Avionics Circuit Breaker Panel
VHF Antenna 2 (COM 2)	COM 2	Avionics Circuit Breaker Panel
	NAV 2	Avionics Circuit Breaker Panel

- (6) Remove the headliner inside the cabin below the VHF antennas between FS 188.70 and FS 201.50 for the Model 208B and between FS 168.70 and FS 181.50 for the Model 208. Refer to Chapter 25, Cabin Upholstery - Maintenance Practices.

4. Comant VHF Antenna Removal

- A. Remove the VHF Antenna (Refer to Figure 401).

NOTE: The removal procedures for the VHF 1 and VHF 2 antennas are typical.

- (1) From inside the cabin, disconnect the coaxial connector from the applicable antenna.
 - (a) If the antenna is not going to be replaced immediately, put a protective cover on the coaxial connector.
- (2) Carefully remove the sealant from the base of the VHF antenna and the fuselage surface. Refer to Chapter 20, Fuel, Weather, Pressure, and High-temperature Sealing - Maintenance Practices.
- (3) Remove the screws that attach the antenna to the fuselage.
- (4) Remove the antenna from the airplane.

5. Comant VHF Antenna Installation

- A. Install the VHF Antenna (Refer to Figure 401).

NOTE: The installation procedures for the VHF 1 and VHF 2 antennas are typical.

- (1) Make sure that the fuselage matting surface for the antenna is clean for sufficient electrical bonding. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.
- (2) Put the antenna in its correct position on the fuselage.
- (3) Install the screws that attach the antenna to the fuselage. Refer to Torque Data - Maintenance Practices.
- (4) If necessary, remove the protective cover on the antenna coaxial connector.
- (5) Connect the coaxial connector to the antenna.
- (6) Engage the circuit breakers applicable to the antenna you replaced given in Table 401.

6. Comant Antenna Post-Maintenance Checks

- A. Do the VHF Antenna Post-Maintenance checks.

- (1) Do an electrical bond check (Type I) between the antenna and the primary structure. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.
- (2) Do an operational check of the antenna. Refer to Garmin G1000 VHF Communication System - Adjustment/Test, Garmin VHF Communications System COM 1 and COM 2 Audio Transmission and Antenna Operational Check.

7. Closeout

- A. Put the Airplane Back to its Initial Condition.

- (1) Install the headliner inside the cabin. Refer to Chapter 25, Cabin Upholstery - Maintenance Practices.
- (2) Fillet seal around the base of the antenna and airplane fuselage skin with Type I or Type XIV, Class B-2 sealant.

Figure 401 : Sheet 1 : VHF Antenna Installation

