

## GARMIN GA 58 TAS ANTENNA - REMOVAL/INSTALLATION

### 1. General

- A. This section gives the removal and installation procedures for the Garmin GA-58 Traffic Advisory System (TAS) antenna. For a general overview of the Garmin GTS 825 Traffic Advisory System refer to, Garmin GTS 825 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
  - Garmin GTS 825 Traffic Advisory System - Description and Operation
  - Garmin GTS 825 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. Garmin GA 58 TAS Antenna Removal

- A. Remove the Garmin GA 58 TAS Antenna (Refer to Figure 401).
- (1) Disconnect the coaxial connectors (PF1013, PF1014, PF1015, and PF1015) from the GA 58 TAS antenna.
    - (a) If a replacement antenna is not to be installed immediately, put a protective cover on the coaxial connectors.
  - (2) Remove the fillet seal from the base of the GA 58 TAS 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 GA 58 antenna.
  - (4) Remove the screws that attach the GA 58 TAS antenna to the fuselage skin.
  - (5) Carefully remove the GA 58 TAS antenna and the O-ring from the fuselage skin.

### 5. Garmin GA 58 TAS Antenna Installation

- A. Install the Garmin GA 58 TAS Antenna (Refer to Figure 401).
- (1) Install the O-ring on the GA 58 TAS antenna.
  - (2) Put the GA 58 TAS antenna and the O-ring in its correct position on the fuselage skin.

**NOTE:** The arrow on the antenna must be pointed toward the front.
  - (3) Install the screws that secure the GA 58 TAS antenna to the fuselage skin.
  - (4) If necessary, remove the protective covers from the coaxial connectors.
  - (5) Connect the coaxial connectors (PF1013, PF1014, PF1015, and PF1015) to the TAS directional antenna.
  - (6) Make sure that the GA 58 TAS 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. Garmin GA 58 TAS Antenna Post-Maintenance Checks**

- A. Do the GA 58 TAS Antenna Post-Maintenance Checks. Refer to Garmin GTS 825 Traffic Advisory System - Adjustment/Test Garmin GTS 825 Traffic Advisory System Operational Check.

## **7. Closeout**

- A. Put the Airplane Back to its Initial Condition.
- (1) Do an electrical bond check (Type I) between the GA 58 TAS antenna and the airplane structure. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.
  - (2) Apply Type V, Class B sealant (white-RTV) on the top of the screws that secure the GA 58 antenna to the fuselage skin.
  - (3) Apply Type I, Class B sealant to make a fillet seal around the base of the GA 58 antenna and the fuselage skin. Refer to Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices.
  - (4) As necessary, put the cabin headliner back to previous condition. Refer to Chapter 25, Cabin Upholstery-Maintenance practices.

Figure 401 : Sheet 1 : GA 58 Antenna Installation

