

## VHF NAVIGATION ANTENNA COUPLER - REMOVAL/INSTALLATION

### 1. General

- A. This section gives the removal and installation procedures for the VHF Navigation (NAV) Antenna Coupler. For a general overview of the Garmin VHF Navigation System refer to Garmin VHF Navigation System - Description and Operation.

### 2. Tools and Equipment

**NOTE:** For the supplier publication part number and manufacturer data, refer to the Introduction Supplier Publication List.

- 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
  - Garmin VHF Communications System - Description and Operation
  - Garmin VHF Navigation System - Adjustment/Test.

### 3. Setup

- A. Prepare the Airplane
- (1) Disconnect external electrical power from the airplane.
  - (2) Disengage the circuit breakers given in Table 401.

**Table 401. Circuit Breakers**

Circuit Breaker Name	Circuit Breaker Location
COMM 1	Avionics Circuit Breaker Panel
NAV 1	Avionics Circuit Breaker Panel
COMM 2	Avionics Circuit Breaker Panel
NAV 2	Avionics Circuit Breaker Panel

### 4. VHF NAV Antenna Coupler Removal

- A. Remove the VHF NAV Antenna Coupler (Refer to Figure 401).
- (1) Disconnect the coaxial connectors from the NAV antenna coupler.
    - (a) If the antenna coupler is not going to be replaced immediately, put a protective cover on the coaxial connectors.
  - (2) Remove the bolts and nuts that attach the NAV antenna coupler to the instrument panel structure beam.
  - (3) Remove the VHF NAV antenna coupler from the airplane.

### 5. VHF NAV Antenna Coupler Installation

- A. Install the VHF NAV Antenna coupler (Refer to Figure 401).
- (1) Put the VHF NAV antenna coupler in its correct position on the instrument panel structure beam.
  - (2) Install the bolts and nuts that attach the VHF NAV antenna coupler to the instrument panel structure beam.
  - (3) If necessary, remove the protective covers from the coaxial connectors.
  - (4) Connect the coaxial connector to the VHF NAV antenna coupler.

### 6. VHF NAV Antenna Coupler Post-Maintenance Checks

- A. Do the VHF NAV Antenna Coupler Post-Maintenance Checks.
- (1) Do an electrical bond check (Type I) between the VHF NAV antenna coupler and the airplane structure. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.
  - (2) Engage the circuit breakers given in Table 401.
  - (3) Do a functional check of the Garmin VHF Navigation System. Refer to Garmin G1000 VHF Navigation System -

Adjustment/Test.

**7. Closeout**

- A. Put the Airplane Back to its Initial Condition.
  - (1) None.

Figure 401 : Sheet 1 : VHF Navigation Antenna Coupler Installation

