

GARMIN GSR 56 - DESCRIPTION AND OPERATION**1. General**

- A. This section provides a general description and operation of the Garmin GSR 56 system that operates the satellite radio. The line replaceable units (LRUs) for the Garmin GSR 56 system are the Garmin GSR 56 Iridium transceiver box and the C401-490 Iridium antenna.
- B. The functions for the Garmin GSR 56 system are found on the Garmin G1000 Integrated Avionics System. For a general overview of the Garmin G1000 Integrated Avionics System, refer to Garmin G1000 Integrated Avionics System - Description and Operation.

2. Description

- A. The Garmin GSR 56 system includes the GSR 56 Iridium transceiver box that is mounted in the interior tailcone and C401-490 Iridium antenna installation that is mounted on the upper exterior tailcone. The Garmin GSR 56 system provides an airborne, low-speed data link that provides satellite radio to the aircraft operators. This data link operates on the Iridium Satellite Network.
- B. Garmin GSR 56 Iridium Transceiver Box
 - (1) The Garmin GSR 56 Iridium transceiver box is mounted in the aft tailcone at RBL 11.31 and FS 384.22. The transceiver is connected to the Garmin G1000 Integrated Avionics System through electrical connector PT506.
 - (2) The GSR 56 is a remote-mount LRU with no user controls or indicators that provides airborne low-speed data link information to a display device. The Garmin G1000 Integrated Avionics System provides the user with the necessary display device to operate the satellite radio. System messages to the pilot display communicate the loss of this low-speed data signal. The absence of GSR 56 system messages indicates a fully operational GSR 56.
- C. C401-490 Iridium Antenna
 - (1) The C401-490 Iridium antenna is mounted on the upper tailcone, just right of BL 0.0 and between FS 344.0 and FS 356.0. The antenna is connected to the GSR 56 transceiver box by a coaxial cable and electrical connectors PT1029 and PT1030.

3. Operation

- A. The Garmin GSR 56 system receives power through the IRIDIUM DATA (OPT) circuit breaker (HI048) found on the avionics circuit breaker panel in the cockpit.
- B. Garmin GSR 56 Satellite Radio
 - (1) The satellite radio is operated through Garmin Connex Services. Contact Garmin Connex Services for radio service set-up instructions. Go to the Weather Data Link (Connex) page to Register the GSR 56 and verify the active services.
 - (2) The Map-Weather Data Link (Connex) page displays the weather datalink controls for displaying Connex Weather on the displays. The Aux - Telephone page displays the telephone and SMS text messaging controls for controlling the GSR 56 Satellite phone services.