

## GARMIN XM REMOTE SYSTEM - ADJUSTMENT/TEST

### 1. General

- A. This section gives the configuration (enable), and adjustment/test procedures for the Garmin XM GRT 10 Remote System. For a general overview of the XM GRT 10 Remote System refer to Garmin XM GRT 10 Remote System - Description and Operation.

### 2. GRC 10 Remote Control Configuration

- A. Do the GRC 10 Configuration (Enable)

**NOTE:** The Garmin GDL 69A XM Satellite Receiver must be configured correctly before the GRC 10 can be enabled. Refer to the Garmin Caravan G1000 Line Maintenance Manual, found in the Introduction, List of Publications.

**NOTE:** You must get the GRT 10 serial number from the bottom unit before you start the GRC 10 enable procedure.

- (1) Supply external electrical power to the airplane.
  - (a) Adjust the ground power unit (GPU) to 28Vdc, +0.5 or -0.5 Vdc.
- (2) Set the BATTERY switch (SC005), found on the circuit breaker switch panel, to the ON position.
- (3) Set the EXTERNAL POWER switch (SC006), found on the circuit breaker switch panel, to the ON position.
- (4) Make sure that the XM DATA LINK circuit breaker found on the Avionics circuit breaker panel, is engaged.
- (5) Install two AA batteries in the GRC 10 remote control.
- (6) Push and release one of the GRC 10 keys to supply power to the remote.
- (7) When the GRT 10 NOT FOUND message show on the GRC 10 display push the buttons that follow in sequence:
  - (a) UP
  - (b) DOWN
  - (c) LEFT
  - (d) RIGHT
  - (e) Minus (-)
  - (f) Plus (+)
  - (g) PSET.
- (8) Use the GRC 10 arrow buttons to enter the serial number of the applicable GRT 10 transceiver.
  - (a) Check the serial number you entered to make sure it is correct.
- (9) Push the GRC 10 XM button to save the serial number to the GRC 10.
- (10) Operate the GRC 10 to make sure that it is serviceable.
- (11) Set the BATTERY switch (SC005), found on the circuit breaker switch panel, to the OFF position.
- (12) Set the EXTERNAL POWER switch (SC006), found on the circuit breaker switch panel, to the OFF position.
- (13) Remove external electrical power from the airplane.

### 3. XM GRT 10 Remote System Operational Check

- A. Tools and Equipment.

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

- (1) Tools and Equipment
  - Aviation Headset.
- (2) Special Consumables
  - None.
- (3) Reference Material
  - Garmin XM GRT 10 Remote System - Description and Operation
  - Garmin XM GRT 10 Receiver - Removal/Installation

- Garmin G1000 Integrated Avionics System - Adjustment/Test.

B. Prepare the Airplane.

- (1) Make sure that the switches that follow are in the OFF position:
  - (a) BATTERY switch.
  - (b) EXTERNAL POWER switch.
  - (c) AVIONICS 1 and 2 switches.
- (2) Connect external electrical power to the airplane.
- (3) Make sure that all the circuit breakers on the Avionics circuit breaker panel are engaged.
- (4) Put the switches that follow in the positions given:
  - (a) External POWER switch to the BUS position.
  - (b) BATTERY switch to the ON position.
  - (c) Avionics 1 and 2 switches to the ON position.
- (5) After the Garmin G1000 system is fully initiated refer to Garmin G1000 Integrated Avionics System - Adjustment/Test and do the steps that follow:
  - (a) Do the Architecture Verification check and make sure all systems are serviceable.
  - (b) Make sure that the correct software and configuration has been installed.

C. Remote Control Unit Operational Test (GRT 10/GRC 10).

**NOTE:** When the GRC 10 remote control is configured with an airplane it will not work with another airplane, unless it is configured to the new airplane. Refer to XM GRT 10 Remote System - Adjustment/Test GRC 10 Remote Control Configuration.

- (1) Push the up button on the remote to tune to a different XM channel.
  - (a) Make sure that the channel changes and is visible on the remote display.
- (2) Push the down button to tune to a different XM channel.
  - (a) Make sure that the channel changes and is visible on the remote display.
- (3) Push the plus "+" button to increase the audio volume.
  - (a) Visually make sure that the volume increases on the MFD.
- (4) Push the minus "-" button to decrease the audio volume.
  - (a) Visually make sure that the volume decreases on the MFD.
- (5) Push the mute button.
  - (a) Make sure that the display shows the volume to be muted.
- (6) Push the mute button.
  - (a) Make sure that the audio volume bars return.

D. Entertainment Audio Jack Operational Check.

- (1) Plug an aviation headset in the pilot's audio jack.
- (2) While still listening to the XM channel, use the adapter cable to plug the entertainment audio source (portable radio, CD player, or MP3 player) in the Entertainment audio jack.
  - (a) Make sure that when the Entertainment Audio source is plugged in, the XM channel is muted and replaced by the Entertainment Audio source.
  - (b) Make sure that the Audio source sounds crisp and clear through the Pilot's Headset.

E. Put the Airplane Back to its Initial Condition.

- (1) Put the switches that follow to the OFF position:
  - (a) BATTERY switch.
  - (b) EXTERNAL POWER switch.
  - (c) AVIONICS 1 and 2 switches.
- (2) Disconnect external electrical power from the airplane.