

**GARMIN G1000 GLOBAL POSITIONING SYSTEM - ADJUSTMENT/TEST****1. General**

A. This section gives the adjustment and test procedures for the GPS.

**2. GPS Operational Check**

A. Do the GPS Antenna Operational Check.

- (1) If airplane is in hanger that does not have a GPS repeater, move the airplane outside of the hangar.
- (2) Connect external electrical power to the airplane.
- (3) Set the EXTERNAL POWER switch to the BUS position.
- (4) Set the BATTERY switch to the ON position.
- (5) Set the AVIONICS 1 and AVIONICS 2 switches to the ON position.
- (6) Use the FMS knob to select the AUX-GPS STATUS page on the multifunction display (MFD).
- (7) Push the GPS 1 softkey.
  - (a) Make sure that it shows 3D NAV or 3D DIFF NAV in the GPS Solution field.
  - (b) Make sure that the satellites shown in the constellation view all show their signal strengths.
- (8) Push the GPS 2 softkey.
  - (a) Make sure that it shows 3D NAV or 3D DIFF NAV in the GPS Solution field.
  - (b) Make sure that the satellites shown in the constellation view all show their signal strengths.
- (9) Make sure that the position and altitude for GPS 1 and GPS 2 are accurate to two tenths of a minute in location and 100 feet for altitude.

**NOTE:** It can be 10 minutes or more for the system to fully get its GPS solution.
- (10) Set the AVIONICS 1 and AVIONICS 2 switches to the OFF position.
- (11) Set the BATTERY switch to the OFF position.
- (12) Set the EXTERNAL POWER switch to the OFF position.
- (13) Disconnect external electrical power from the airplane.
- (14) If the GPS 1 GPS/XM antenna was replaced, do a check of the XM function of the antenna. Refer to Garmin GDL 69A XM Data Link System - Adjustment/Test.