



AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Registered Garmin G500/G600 Owner and Operators
DATE: January 30, 2019

SUBJECT: Approval of G500/G600 GDU 620 Software Version 7.30, GSU 75(B) ADC/AHRS Software Version 2.05/2.06, GRS 77 Software Version 3.06 and GAD 43(e) Software Version 2.03 for Part 23 AML STC SA02153LA-D and EASA STC 10053008

REVISION C: Added GSU 75/75B Reset Information

CERTIFICATION APPROVAL: STC SA02153LA-D and EASA STC 10053008
COMPLIANCE

Recommended: GSU 75/75B AHRS Software Version 2.06 is recommended at the next scheduled maintenance interval. All other software versions are optional.

PURPOSE

Part 23 AML STC SA02153LA-D *Master Drawing List G500 PFD/MFD System AML STC*, 005-C0313-10 Rev. 7, and *Master Drawing List G600 PFD/MFD System AML STC*, 005-C0313-00 Rev. U include software updates for the GDU 620, GSU 75, GRS 77 and GAD 43/43e, as specified below.

GDU 620 software 7.30 includes the following changes:

- Adds support for the following features/data from the GTN 6XX/7XX Software Version 6.50:
 - Enhanced Descent-Only (EDO) VNAV Guidance
 - Display CDI/VDI Preview
 - Along Track Waypoints
 - Terrain Alerting data (without TAWS)
 - New icon for User Defined Waypoints as airports
- Adds new GFC 500 and GFC 600 Configuration Options

The following software versions are required with GDU 620 v7.30:

Table 1 – Compatible Software Versions

Model	Compatible Software Version (or later)
GTN 6XX/7XX	6.50
G500 TXi/G600 TXi	GDU 700/1060 v2.20
GFC 600	GMC 605 v2.21
GFC 500	G5 v5.50

GSU 75/75B AHRS v2.06 and ADC v2.05 improves No-GPS operation and error detection.

GSU 75/75B AHRS v2.06 also fixes a problem that causes the GSU 75/75B unit to reset during flight. Under extremely rare conditions, when the GSU 75/75B is operating in Reversionary Mode, the GSU 75/75B units may simultaneously reset during significant accelerations/decelerations such as those experienced during takeoff and landing. This issue does not occur when the AHRS is operating in Primary Mode and does not result in misleading data.

GRS 77 software v3.06 adds support for weight-on-wheels inputs and improves No-GPS operation and error detection.

GAD 43 System Software v2.03 improves data handling from AHRS.

GAD 43e Main Board Software Version 2.03 and Expansion Board Software Version 2.32 includes the following:

- Improves data handling from AHRS
- Improves how analog autopilots are handled when transitioning from a valid to invalid state.

This STC update adds the following interface approvals to the G500/G600 Part 23 AML STC SA02153LA-D:

- Garmin G5 as an approved standby instrument for aircraft on the G5 AML STC SA01818WI
- GFC 500 and GFC 600 autopilots

Addressed Service Notifications:

- Service Advisory 1749 Rev A, TFR (Temporary Flight Restriction) Over FIS-B Data May Show Incorrect Time and Date, is addressed by GDU 620 V7.30. The TFR time and date are now displayed correctly

PRODUCTS AFFECTED

G500/G600 systems installed using G500/G600 Part 23 AML STC SA02153LA-D and EASA STC 10053008 are affected.

Please contact your local Garmin Avionics Dealer (<http://www.garmin.com/dealers/>) for additional information or for questions regarding this notification. This service notification and associated bulletin/advisory product changes can only be implemented through Garmin's authorized dealer and service center network. This document is not a substitute for and cannot be used in lieu of the document(s) referenced above for airworthiness approval.