TO: Registered Garmin G500 Owner/Operators
DATE: February 10, 2014

SUBJECT: STC SA02015SE-D Part 23 AML STC update G500 System, New Interfaces, and Software Upgrades

CERTIFICATION
APPROVAL: SA02015SE-D (see Approval section of STC SB1405 for details)

COMPLIANCE
Mandatory: For software update only.

Optional: All other aspects of this STC data are optional and may be incorporated at the owner’s discretion and are not warranty reimbursable.

PURPOSE
This STC Service Bulletin provides notification of the STC SA02015SE-D, MDL Revision 13 for the following:

- Software Updates:
  1. GDU 620 Software Version 6.21 contains the following changes from version 6.11:
     1. KAS 297 altitude preselector emulation support
     2. Resolves issue identified in Service Advisory 1361
  2. GAD 43e Software Version 2.20 contains the following changes from version 2.12:
     1. KAS 297 altitude preselect emulation for KFC200/250 autopilot systems
     2. Resolves parallel DME tuning issue
  3. GRS 77 software Version 3.04 contains the following changes from version 3.03:
     1. Resolves initialization issue when aircraft is moved on the ground (e.g. towing operations) during the first 10 seconds after turning on power to AHRS.
     2. Resolves initialization issue when magnetic interference is present near the magnetometer during the first 60 seconds after turning on power to AHRS.

- Interface Approvals:
  1. KAS 297 altitude preselect emulation for KFC200/250 autopilot systems using GAD 43e
  2. Flight Director display for Century IV, 2000, and 41 autopilot systems
  3. Flight Director display for Cessna 400B/800B autopilots with Synthetic Vision Technology enabled
  4. Gyro emulation for Cessna 300B/400B/800B/1000 autopilot systems using GAD 43/43e
  5. GWX 70 weather radar interface
  6. GNC 255 navigation radio interface
  7. Parallel Tuning for the KN 63 DME
  8. Interface for the KDM 706(A) DME
ISSUES ADDRESSED BY THIS MODIFICATION
Service Advisory 1309, possible temporary loss of heading and attitude following aircraft movement or magnetic interference during AHRS power up initialization, is addressed by GRS 77 V3.04.

Service Advisory 1361, possible temporary loss of heading/attitude information in Garmin G500 and G600 Systems following extended power-on stall and slow flight maneuvers, is addressed by GDU 620 Software Version 6.21.

Service Bulletin 1306, regarding parallel DME tuning, is addressed by GAD 43e Software Version 2.20. Parallel tuning may be restored in aircraft affected by Service Bulletin 1306.

Installation Bulletin 1330, regarding replacement of the PRE-80 altitude preselector, has been addressed by adding additional data to the Installation Manual listed in MDL Revision 13.

PRODUCTS AFFECTED
Aircraft modified by Part 23 AML STC SA02015SE-D Master Drawing List (MDL) Revision 13 or earlier.

DESCRIPTION
This STC Service Bulletin provides notification of G500 STC software and interface update as approved by MDL Revision 13. Refer to Software Service Bulletin 1368, Rev. B or later for software installation instructions.

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.