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AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Garmin G500/G600 TXi Owners and Operators
DATE: November 19, 2020
SUBJECT: Approval of G500/G600 TXi Software Version 3.12

COMPLIANCE

Optional. This service bulletin is optional and may be incorporated at the owner's discretion.

PURPOSE

AML STC SA02571SE , Master Drawing List Rev 11 includes the following:

- Update TXi software from v3.03 to v3.12
- Update AHRS software from v2.08 to v2.09
- Update ADC software from v2.07 to v2.08
- Update GEA 110 software from v2.10 to v2.20
- Update GEA 71B Enhanced software from v2.21 to v2.60
- Hardware updates to GEA 110 and GEA 71B Enhanced
- DFC 90 interface approval (Cirrus SR20/22 only)
- Garmin GI 275 interface and standby instrument approval
- GMU 44B installation and interface approval
- GNC 355 interface approval
- Additional EIS sensor interface approvals
- Add Piper PA-46R-350T (TCDS A25SO) to the AML

The TXi G500/G600 software v3.12 update includes the following changes:

- Addition of GDU 1060 MFD/EIS layout
- Addition of MFD engine page
- Update CDI control to allow localizer autoswitch

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.

- Expansion of turbine EIS features including additional OEM engine sensor interfaces:
 - Add fuel quantity indication for supported single engine turbine aircraft
 - Turboprop Shaft Horsepower readout
 - Eleven-gauge turbine EIS Layout
 - Rudder trim gauge
 - Single and Twin Piston percent Horsepower support
 - Switched fuel quantity gauges
 - Vacuum pressure gauge
 - Fuel imbalance caution message
 - Digital display readouts for bar gauges
 - Cirrus EIS display layout
 - Installer deletion of exceedances
 - Mach field on PFD
- Expansion of engine and tach timers
 - For new installations, tach time can be used to match the tach time of the removed tachometer
 - For currently fielded installations upgrading to TXi software v3.12, the following formula is recommended to establish the initial value:
$$\text{Tach hours at time of TXi software v3.12 upgrade} = \text{Tach Hours at time of original TXi EIS installation} + \text{TXi Flight Hours since time of installation.}$$

PRODUCTS AFFECTED

G500/G600 TXi PFD/MFD/EIS display systems installed using Approved Model List (AML) Supplemental Type Certificate (STC) SA02571SE are affected.

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