



1200 E. 151st Street
Olathe, KS 66062
913-397-8200

AVIATION SERVICE DOCUMENT NOTIFICATION

TO: G500/G600 TXi Owners and Operators
DATE: June 4, 2024
SUBJECT: Approval of G500/G600 TXi Main Software Version 3.62
CERTIFICATION AUTHORIZATION: STC SA02571SE MDL Revision 33

PRODUCTS AFFECTED

G500/G600 TXi systems without turboprop EIS installed under STC SA02571SE are affected.



NOTE

MDL Rev. 33 keeps all turboprop aircraft with TXi engine gauges at G500/G600 TXi Software Version 3.53 with related installation data revisions. A future STC amendment will update turboprop aircraft with TXi engine gauges.

COMPLIANCE

For installations with G500/G600 TXi Main Software Version 3.61 installed in aircraft with only one GDU, or with an EIS Only GDU, Garmin recommends incorporation of this STC Service Bulletin as soon as practical.

For all other installations, Garmin recommends the incorporation of this STC Service Bulletin at the next scheduled service interval.

PURPOSE

This STC Service Bulletin provides notification of an update to STC SA02571SE MDL Rev 33.

Major details of the update are:

Added Textron Aviation (Cessna) Model 525A (S/N 525A0001 through 525A0299) to the AML in support of the Collins Proline 21 system removal. Changes for the Cessna 525A include:

- Group Airworthiness Approval for Reduced Vertical Separation Minimums (RVSM)
- Support for twin engine turbofan EIS
 - New EIS gauge types and layouts
 - Computed and manual target N1 indication
 - Dynamic and non-linear EIS gauge ranges
 - Automatic EIS display backup reversion
 - Engine time in-service and cycle tracing for Williams FJ44 engines

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- Low Speed Warning and Approach Speed Cue indications
- Selected Side (XFR) control and annunciation
- GFC 600 FLC mode support



NOTE

G600 TXi installation in the Cessna 525A requires concurrent installation of the GFC 600 system installed under STC SA01844WI, dual GTN 750Xi products under SA02019SE-D, and a standby GI 275 under STC SA02658SE.

G500/G600 TXi Main Software Version 3.62:

- Fixed a fuel computer issue described in Garmin Service Advisory 24048 (single GDU installations with G500/G600 TXi Main Software Version 3.61 only).
- Fixed a GPS/WAAS boot up issue
- Fixed an issue EIS gauge needles could jump between nearby values rather than moving smoothly
- Fixed an issue where TXi could display a radar fault on power up with the RDR 2100
- Fixed an issue where certain settings were not included in the configuration summary
- Fixed an issue that could cause ESP™ Corrective Technology row markers to be hidden
- Fixed an issue where VNAV guidance could override GS guidance on the VDI incorrectly
- Fixed an issue where the display could get stuck on 'waiting for SYNC' on startup when interfaced to a unit with DB SYNC disabled
- Fixed an issue where the system summary could include a blank section in the fuel quantity markings
- Fixed an issue where a GWX weather radar could not be exercised during a Mag Interference check. The GWX is now controllable during the Mag Interference check.
- Fixed an issue where an engine caution could be displayed with no engine gauge showing a caution due to uncleared background configurations
- Fixed an issue where a erroneous menu button could appear on a PFD in display backup when a FlightStream 510 is present
- Fixed an issue where the WX altitude control would not reposition itself when an MFD is resized on the GDU™ 1060 Display
- Fixed an issue where the Mach readout would declutter during extreme attitude declutter
- Fixed an issue where the TIS/TAS STBY discrete output would not function properly for KTA 870/KMH 820 or KTA 970/KMH 920 configurations
- Fixed an issue where part of the system configuration could be lost during GDU replacement
- Fixed an issue where the default airspeed reference values could not be applied when interfaced with a GI 275
- Fixed an issue where the Scaler to HDG button title could change to GPSS erroneously during autopilot interface configuration
- Fixed an issue where certain prompt pop-ups would not accept knob press input
- Fixed an issue where the ground awareness band could appear from behind terrain when flying at high altitudes
- Stabilized approach alerting
- Display of standby GI 275 ADC/AHRS data and automatic ADC/AHRS source reversion

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- Federated pop-up and alert coordination
- Support for dual ADF and DME interfaces
- Support for Inertial-Aided Airspeed Trend and Inertial-Aided Vertical Speed configurations
- Pop-up and alert coordination with connected GTNs and GI 275s
- Advanced airspeed bugs and aural callouts for V1, Vr, and V2
- Addition of an airspeed configuration for the Kollsman 586CK-0187 airspeed indicator (Cessna 190/195 only)
- Added support for a variety of new interfaces:
 - GWX™ 8000 Weather Radar
 - GMC 605 Color
 - GCU 485 (-06/-16 variants)
 - Collins RTA-800 Weather Radar
 - Collins ALT-4000 Radar Altimeter
 - L-3 WX-1000 Stormscope
 - Safeflight C-13206-1 AOA Computer
 - Numerous engine sensors

Updated GEA™ 71B Enhanced Engine Interface Module software to version 2.80 for robustness (no functional changes).

Updated GCU 485 software to version 3.12 to support changes to lighting level and configuration when connected to two GDUs and updates the GCU processing rate.



NOTE

Database sync routing is affected by this change. Systems with GTN™ Touchscreen Avionics (v6.72 or earlier) or GPS 175/GNC® 355/GNX™ 375 (v3.11 or earlier) interfaced to G500/G600 TXi (v3.50 or later) or GI 275 (v2.60 or later) no longer support database sync. Databases will need to be loaded onto each GTN and GPS 175/GNC 355/GNX 375 unit. This has been fixed in GTN software v6.73. This limitation will be fixed in future GPS 175/GNC 355/GNX 375 software versions.

G500/G600 TXi Part 23 AML STC Installation Manual Addendum, Textron Aviation Inc. (Cessna), Model 525A, S/N 525A-0001 Thru -0299 was updated to correct the Flight Director setting to Single Cue for Cessna 525A installations.

WARRANTY INFORMATION

This Service Bulletin is warranty reimbursable with a deadline of December 31, 2024.

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DOCUMENTATION CONSIDERATIONS

Applicable AFMS and ICA documents listed in Table 1, are required to be issued to the aircraft owner/operator before the aircraft is returned to service, if not already provided.

Table 1

Document Title	Part Number	Revision
G500/G600 TXi Part 23 AML STC Maintenance Manual/ICA	190-01717-B1	9
AFMS, G500/G600 TXi Part 23 AML STC	190-01717-B2	10
AFMS G600 TXi Part 23 AML STC for Textron (Cessna) Model 525A	190-01717-BC	1
AFMS RVSM, G600 TXi Part 23 AML STC, Textron Aviation Inc. (Cessna), Model 525A, S/N 525A-0001 Thru -0299	190-01717-BD	1
AFMS TBM 700/850 G600 TXi RVSM	190-01717-B4	2

At time of publication the current G500(H)/G600/G700 TXi Pilot's Guide (P/N 190-01717-10) is Rev. P.

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