



AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Registered GTX 3000 owners
DATE: December 04, 2014
SUBJECT: Service Bulletin 1436, Software Version 3.10 available for GTX 3000 units (not applicable to G5000, G3000, G2000, G1000, G1000H, G950, G900X, Cirrus Perspective®, or Embraer Prodigy™ Integrated Flight Deck installations)

COMPLIANCE

Mandatory: This Service Bulletin must be accomplished by December 05, 2015 or the next scheduled service interval; whichever occurs first.

PRODUCTS AFFECTED

This bulletin is applicable to GTX 3000 units with software version 3.01 or previous software versions not installed in a Garmin Integrated Flight Deck system (G5000, G3000, G2000, G1000, G1000H, G950, G900X, Cirrus Perspective™, and Embraer Prodigy® Integrated Flight Deck Systems). The GTX 3000 current software version can be retrieved using the GTX 3000 install tool.

This Service Bulletin authorizes this software version in the applicable LRU(s). The installer or TC/STC holder (if any) must determine applicability and provide for airworthiness at the installation level in accordance with FAA requirements.

PURPOSE

This Service Bulletin incorporates new unit Software Version 3.10 for GTX 3000 units. Software Version 3.10 incorporates the following functionality:

- Ensures Flight ID changes are properly accepted via the ARINC 429 Mode S control interface.
- Ensures continued transmission of Aircraft Status Message (ASM) squitters when certain edge conditions are encountered.
- Improved the air state determination algorithm
- Added ADSB Out and transponder status data logging capabilities
- Added the ability to disable the periodic transmission of status messages on unused serial ports
- Updated existing ARINC 429, RS 232, and Discrete I/O interfaces to allow integration with a Pro Line 4 and Pro Line 21 avionics deck
- Updated unit configuration capability to include configurable discrete I/O pin assignments.
- Updated the discrete I/O interface to include the following inputs:
 - ADSB Out disable
 - ARINC input air data selection
 - Altitude data selection
- Updated the discrete I/O interface to include the following outputs:
 - Transponder active
 - Pressure altitude valid
- Updated the ARINC Mode S Control Panel interface to report the “no pressure altitude warning” only when the transponder is in ALT reporting mode.
- Added configuration module status information to allow an installer to determine whether a configuration module is present and whether the data retrieved from the module is valid.

The following item was incorporated in GTX Software Version 2.02, and is also included in GTX Software Version 3.10.

- Ensures that the GTX 3000 will respond to a ground station request to temporarily adjust the ADS-B Out operational status message transmit rate while the ground station is also requesting the GTX 3000's ADS-B Out function to report surface rather than airborne information

DESCRIPTION

This modification consists of accessing the Dealer Resource Center portion of the Garmin website (<https://dealers.garmin.com>) and uploading new software to the unit.