

AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Registered Garmin GTN 6XX/7XX Owner and Operators

DATE: October 22, 2018

SUBJECT: Approval of GTN v6.50, Flight Stream 210 v2.90, Flight Stream 510 v2.40, and GTN

COM v2.30 software for AML STC SA02019SE-D and EASA STC 10037574

REVISION B: Added EASA STC 10037574

CERTIFICATION

APPROVAL: STC SA02019SE-D and EASA STC 10037574 MDL Revision 19 (or later FAA-approved

version)

COMPLIANCE

Optional

PURPOSE

AML STC SA02019SE-D and EASA STC 10037574 Master Drawing List (MDL) (005-00533-C0, Rev.19 or later FAA-approved version) includes software updates for the GTN 6XX/7XX, Flight Stream 210, and Flight Stream 510, as specified below.

Table 1 - GTN 6XX/7XX Software Versions

| Software | Version | Version Previously Approved Under STC SA02019SE-D |
|------------------------|---------|---|
| Main Board | | |
| Software | 6.50 | 6.41 |
| Boot Code | 2.00 | 2.00 |
| FPGA | 2.2 | 2.2 |
| Touch Controller Board | | |
| Software | 2.1 | 2.1 |
| Boot Code | 2.0 | 2.0 |
| GPS/WAAS Board | | |
| Software | 5.2 | 5.2 |
| COM Board [1] | | |
| Software | 2.30 | 2.20 |
| Boot Code | 2.00 | 2.00 |
| FPGA | 2.4 | 2.4 |
| NAV Board [2] | | |
| Software | 6.03 | 6.03 |
| Boot Code | 2.01 | 2.01 |
| FPGA | 1.1 | 1.1 |

^[1] Applicable to GTN 635/650/750 only

^[2] Applicable to GTN 650/750 only

GTN 6XX/7XX software updates include the following changes:

NOTE

The following software versions are required for compatibility with GTN software version 6.50 or later.

Table 2 - Compatible Software Versions

| Model | Compatible Software Version (or later) |
|-------------------|--|
| G500/G600 | GDU 620 v7.30 |
| G500 TXi/G600 TXi | GDU 700/1060 v2.20 |
| GFC 600 | GMC 605 v2.21 |
| GFC 500 | G5 v5.50 |

- Added support for enroute vertical navigation. GTN 6XX/7XX (interfaced to a G500 TXi/G600 TXi, G500/G600 or G5) users can use VNAV profiles throughout the enroute and terminal descent phases of flight. Additionally, when the GTN 6XX/7XX is interfaced to a GFC 600 or GFC 500 autopilot, users can select the VNAV button on the mode controller to fly a fully-coupled VNAV profile.
- Added support for creating along track offsets in the flight plan.

NOTE

These offsets can optionally include an altitude constraint for VNAV.

- Changed the GDU settings on the Interfaced Equipment page from Format 1 and Format 2 to GDU 620 and GDU TXi, respectively.
- Increased the maximum search-and-rescue orbit pattern radius from 10 NM to 100 NM.
- Added support for outputting primary flight instrument data to portable devices through the Flight Stream 510.
- Added support for terrain alerting function including aural and visual alerts and callouts.

NOTE

Terrain alerting function does not require a feature enablement.

- Added support for feature enablements downloaded from flyGarmin.com.
- Added configuration of the COM carrier squelch and pilot control of the COM sidetone volume.
- Fixed issue where J1005-53 discrete input would not function.
- Updated GTX 33 configuration pages to include settings for new GTX software versions.
- Destination airport is no longer removed from the flight plan when an approach is loaded (and not activated).

NOTE

The destination airport will be removed when an arrival and approach are loaded.

- Added the ability to load the approach NAV frequency from the approach header in the flight plan. A shortcut to the airport info page has also been added to all procedure headers on the flight plan page.
- Added support for GWX 75 weather radar.
- Added support for new coordinate systems:
 - o degrees/minutes/seconds
 - o decimal degrees
 - Swiss Grid
 - Irish Grid
 - British National Grid
- Added support for logging flight data which can be exported to the SD card.
- Added support for QWERTY and ABC keyboard formats.

GTN 6XX/7XX COM Software Version 2.30 allows for adjustment of COM radio squelch settings.

GTN Main Software Version 6.50 and Flight Stream 510 Software Version 2.40 allows for wireless data logging.

Flight Stream 110/210 Software Version 2.90 includes the following changes:

- Improved Bluetooth® functionality
- Added range checking to pressure sensor values before sending data to the mobile applications

Flight Stream 510 Software Version 2.40 includes the following changes:

- Improved Bluetooth® functionality and reliability
- Improved robustness of flight data log streaming
- Fixed issue that caused the GTN to not install databases loaded to the Flight Stream 510 from a PC.
- Fixed issue that caused SXM weather to not be sent to the portable device when the Flight Stream 510 is installed with a GDL 69 SXM without an audio subscription.
- Added support for functionality enabled by future display LRU software updates.

PRODUCTS AFFECTED

GTN 6XX/7XX navigators and Flight Stream 210/510 installed using Approved Model List (AML) Supplemental Type Certificate (STC) SA02019SE-D and EASA STC 10037574 are affected.

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