



AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Registered Garmin GNS 400W/500W Series Owner/Operators
DATE: February 6, 2014

SUBJECT: GNS 400W/500W Series Software Upgrade to Main Software Version 5.10

CERTIFICATION

APPROVAL: TSO Authorization

COMPLIANCE

Recommended.

PURPOSE

This ASDN announces the availability of new GNS 400W/500W Series Units Main Software version 5.10.

GNS 400W/500W Series Main Software version 5.10 includes the following changes:

- Added support for advisory vertical guidance for LP approaches (LP+V).
- Added support for displaying ADS-B traffic on the Navigation Map page when no heading source is installed or valid.
- Increased the maximum range on the Traffic page to 24 NM to support the GTS 800.
- Resolved an issue with the lateral CDI scaling as described in Service Advisory 1344, "LPV and LNAV/VNAV Approach Full Scale Deflection."
- Resolved an issue with approaches with a glide slope of zero as described in Service Advisory 1372 "Unavailable RNAV (GPS) approaches due to lack of VDA."
- Resolved an issue where the CDI could indicate cross-track error on the opposite side of the course when a turn was active and the cross-track was very large. This corrects the issue described in Service Advisory 1352, "Incorrect Course During Turn Transition."
- Resolved an issue where under some circumstances locked waypoints within stored flight plans did not remain locked as intended. This corrects the issue described in Service Advisory 1363 "User-modified terminal procedure stored in Flight Plan may cause error condition."
- Resolved an issue where changing one map setting on the Map Setup page could change other map settings.
- For units connected to GDL 88 units:
 - Suppressed the "Traffic device has failed" alert message during the time when the GDL 88 reports that its GPS is initializing.
 - Modified the text of the "Pressure altitude input fault and TAS/TCAS input fault" messages to describe the specific problem, rather than "GDL 88 service required."
 - Suppressed the "ADS-B transmit fail" message when the GDL 88 is not configured to transmit ADS-B data.
 - Removed the GDL88 traffic test pattern from the Navigation Map page (leaving it on the Traffic page).
- Resolved an issue where traffic targets could be selected when panning across the NAV map even though the traffic overlay was not being displayed on the NAV map

PRODUCTS AFFECTED

| Model | Appliance P/N |
|----------------|----------------------|
| GPS 400W | 011-01057-() |
| GNC 420W | 011-01058-() |
| GNC 420AW | 011-01059-() |
| GNS 430W | 011-01060-() |
| GNS 430AW | 011-01061-() |
| GPS 500W | 011-01062-() |
| GPS 500W TAWS | 011-01063-() |
| GNS 530W | 011-01064-() |
| GNS 530W TAWS | 011-01065-() |
| GNS 530AW | 011-01066-() |
| GNS 530AW TAWS | 011-01067-() |

DESCRIPTION

Software service bulletin 1403 describes the process for upgrading GNS 400W/500W Series Units Main Software to version 5.10.

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