



## SOFTWARE SERVICE BULLETIN

NO.: 0740 Rev A

**TO:** All Garmin Aviation Service Centers  
**DATE:** November 29, 2007  
**SUBJECT:** 400W / 500W Series Unit's software upgrade to Main Software version 3.00 & GPS Software version 3.0

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### PURPOSE

This Service Bulletin announces the availability of new 400W / 500W Series Unit's software version 3.00 and GPSIWAAS software version 3.0.

The 400W / 500W Series Main Software version 3.00 contains a number of new capabilities and features, including:

- Added the ability to load an arrival or departure without first removing existing arrival or departure, addressing the issue described in Service Alert 070227-00
- Reduced TAWS nuisance alerts for circling approaches
- Corrected compatibility issue with WX500 Stormscope identified in Installation Bulletin 0711
- Added ability to store and remotely tune up to 15 radio channels
- Added XM weather products: Lightning, Cell Movement, and Winds Aloft
- Added compatibility with Avidyne product's: EXP5000 PFD, EX5000 MFD and EX500 MFD
- Added capability to display vertical GPS approach guidance on Honeywell EFS 40/50
- Added capability to display traffic from Honeywell KMH 980 (KMH 920) and KTA 970 (KTA 910)
- Improved prompting for course reversals at IAF transitions on approach
- Improved Auto-Zoom functionality
- Improved VNAV functionality during holds
- Corrected the operation of the E6B winds aloft calculation on Winds page
- Unit now retains user settings on NAV1 page over a power cycle (400W series units)
- Unit now starts up in last mode used (GPS or VLOC) instead of reverting to GPS mode at startup
- Corrected issue of intermittent screen flashing

The 400W / 500W Series GPS Software version 3.0 allows for the removal of the IFR GPS operational limitation with TSO-C146a when using a compliant antenna.

### DESCRIPTION

This software service bulletin describes the process for upgrading the 400W / 500W Series Unit's Main Software to version 3.00 and upgrading the GPS Software to version 3.0.

### APPROVAL

The 400W / 500W Series Main Software version 3.00 and the GPS Software version 3.0 comply with applicable Federal Aviation Regulations and are FAA approved under TSOA for design approval. Both Main Software version 3.00 and GPS Software version 3.0 have airworthiness approval when installed in accordance with STC SA01933LA. The software changes are both minor TSO software changes.

## **AFMS AND PILOT'S GUIDE CONSIDERATIONS**

For 400W Series Units installed in accordance with STC SA01933LA:

- For installations that use a compatible GPS antenna without IFR GPS operational limitations (refer to 400W Series Installation Manual 190-00356-02, section 1.4.8.1); the existing 400W Series Unit AFMS (P/N 190-00356-63) must be removed and replaced with the 400W Series Unit AFMS 190-00356-03.
- For installations that do not use a GPS antenna without IFR GPS operational limitations, no change to the AFMS is allowed.

For 500W Series Units installed in accordance with STC SA01933LA:

- For installations that use a compatible GPS antenna without IFR GPS operational limitations (refer to 500W Series Installation Manual 190-00357-02, section 1.4.8.1); the existing 500W Series Unit AFMS P/N 190-00357-63 must be removed and replaced with the 500W Series Unit AFMS 190-00357-03.
- For installations that do not use a GPS antenna without IFR GPS operational limitations, no change to the AFMS is allowed.

For 400W or 500W Series units that were not installed in accordance with STC SA01933LA, the AFMS must be revised appropriately to reflect the addition or removal of any limitations.

## **PRODUCTS AFFECTED**

The information provided herein applies to the following models:

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

## **COMPLIANCE**

### **Mandatory**

## **REFERENCES**

400W Series Installation Manual (Garmin P/N 190-00356-02) Rev D  
500W Series Installation Manual (Garmin P/N 190-00357-02) Rev D  
AFMS / Supplemental AFM for 400W Series GPS-WAAS Navigation System (Garmin P/N 190-00356-03)  
AFMS / Supplemental AFM for 500W Series GPS-WAAS Navigation System (Garmin P/N 190-00357-03)  
GNS 400W Series Pilot Guide (Garmin P/N 190-00356-00) Rev B  
GNS 400W Series Quick Reference Guide (Garmin P/N 190-00356-01)Rev B  
GNS 400W/500W Series Garmin Optional Display Addendum (Garmin P/N 190-00356-30) Rev B  
GNS 400W/500W Series Display Interface Addendum (Garmin P/N 190-00356-31) Rev B  
GNS 500W Series Pilot Guide (Garmin P/N 190-00357-00) Rev B  
GNS 500W Series Quick Reference Guide (Garmin P/N 190-00357-01) Rev B