

2014 and up 7,000 (FAA)
265 CRG

TITLE

NAVIGATION - GARMIN G1000 SYSTEM SOFTWARE UPGRADE TO VERSION 0563.35 FOR AIRPLANES EQUIPPED WITH NAV III (WAAS-ENABLED INSTALLATIONS ONLY)

TO:

Cessna 172R, 172S, 182T, T182T, 206H, and, T206H Aircraft Owner

REASON

This version 0563.35 software service bulletin provides an upgrade that includes the changes that follow:

- **GPS/WAAS Updates:** GPS/WAAS software has been updated to satisfy new requirements associated with RTCA/DO-229D.
- **User Defined Holding Patterns:** This new feature is designed to allow the pilot to define his own holding patterns in the flight plan. This feature does not remove the system's capability to fly existing pre-defined holding patterns.
- **Geo-Reference Garmin Flight Charts:** This update will allow the default electronic departure chart provided by Garmin (FliteCharts) to also provide a GPS derived aircraft ownership overlay above the currently selected chart similar to Chartview. This feature only applies to Approach Charts that are to scale.
- **Localizer Performance (LP) Approach Support:** This update adds software support to display and fly Localizer Performance (LP) approaches on the G1000 system.
- **LNAV/VNAV and LNAV+V Approaches:** Previously, CDI (Course Deviation Indicator)/HSI (Horizontal Situation Indicator) scaling was incorrect on a limited number of LNAV/VNAV and LNAV+V approaches. As a result Garmin removed the capability of selecting these affected approaches starting Database cycles 1013 and 1103. Phase 14 restores these approaches that were suppressed in compliance with Service Advisory 1047.
- **ADS-B Out Support:** Supports ADS-B Out functionality when installed by service bulletin SEB-34-14.
- **Temperature Compensation:** Temperature Compensation allows the pilot to compensate the approach minimum altitude, the altitudes associated with waypoints in an approach, or both for the effects of nonstandard temperature.
- **Slip/Skid Indicator Red X:** New fail flags apply to the CDI indication and the slip/skid indication. The CDI indication will be displayed as failed when the currently selected CDI source is failed. The slip/skid indicator will be displayed as failed in the event the pitch and roll angles are both valid but the Y-axis acceleration is invalid.

COMPLIANCE

OPTIONAL. This service bulletin can be accomplished at the discretion of the owner.

WARRANTY

Not Applicable

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EFFECTIVITY

Group A Airplanes

The airplanes that follow that are equipped with the Garmin G1000 Nav III Avionics Option and the Wide Area Augmentation System (WAAS):

MODEL	SERIAL NUMBERS
172R	17281357 thru 17281622 <i>NONF</i>
172S	172S10432 thru 172S11435, 172S11577 thru 172S11758 <i>6</i>
182T	18281869, 18281876 thru 18282468
T182T	T18208354, T18208665, T18208669 thru T18209100
206H	20608279, 20608284 thru 20608353
T206H	T20608682, T20608705 thru T20609132, T20609176 thru T20609249

EFFECTIVITY

Group B Airplanes

The airplanes that follow that have incorporated SB07-34-07 (or latest revision) GARMIN G1000 GPS/WAAS Installations:

MODEL	SERIAL NUMBERS
172R	17281241 thru 17281356
172S	172S9810 thru 172S10431
182T	18281228, 18281318 thru 18281868, 18281870 thru 18281875
T182T	T18208232 thru T18208353, T18208355 thru T18208664, T18208666 thru T18208668
206H	20608216 thru 20608278, 20608280 thru 20608283
T206H	T20608450 thru T20608681, T20608683 thru T20608704

NOTE: Before installing this service bulletin, the airplane must have software 563.26 or later installed. Service Bulletin SEB-34-02 installs software 563.26.