

SERVICE INFORMATION NO. SI-40-114

NOTE: SI's are used only:

- 1) To distribute information from DAI to our customers.
 - 2) To distribute applicable information/documents from our suppliers to our customers with additional information.
- Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 40 aircraft equipped with GARMIN G1000, see also section 2.1.

All DA 40 F aircraft equipped with GARMIN G1000, see also section 2.1.

1.2 Subject:

GARMIN Service Advisory No. 0944 Revision A
ATA-Code: 34-00

1.3 Reason:

GARMIN has issued this Service Advisory to advise pilots that the SVT Pathways function may be affected by an approach downgrade from a GPS/WAAS approach with vertical guidance to a GPS/WAAS approach with lateral-only GPS guidance. The SVT Pathways may be displayed at a higher altitude than expected.

1.4 Information:

For detailed technical information refer to the GARMIN Service Advisory No. 0944 Revision A.

II. OTHERS

2.1 STC Information:

The GARMIN G1000 system and its associated systems, components and software are installed in the DA 40 and DA 40 F airplanes under one of the following known GARMIN STC:

- FAA STC No:
 - SA01254WI (G1000 System)
 - SA01444W-D (G1000 System and GFC 700 A/P System with optional WAAS installation)
- EASA STC No.:
 - EASA.IM.A.S.01023 (G1000 System)

Additionally to the above mentioned STC further GARMIN STC's may be approved.

The applicability of the attached GARMIN publication must be checked. For this purpose refer to the related airplane documentation, contact your responsible GARMIN Service Centre or your local authority.

2.2 Miscellaneous:

The GARMIN Service Advisory No. 0944 Revision A is attached to this SI.

In case of doubt contact GARMIN.



SERVICE ADVISORY

NO.: 0944 Revision A

TO: Owner/Operators of Garmin Integrated Flight Deck Systems with Synthetic Vision Technology (SVT)

DATE: 01 October 2009

SUBJECT: SVT Pathways may be displayed at a higher altitude than expected

AFFECTED PRODUCTS

All WAAS-equipped Garmin G900X, G950, G1000, Cirrus Perspective®, and Embraer Prodigy™ systems with GDU software versions 9.01 through 10.00 and SVT Pathways installed are affected.

DESCRIPTION

The SVT Pathways function may be affected by an approach downgrade from a GPS/WAAS approach with vertical guidance (LPV, LNAV/VNAV, or LNAV +V) to a GPS/WAAS approach with lateral-only GPS guidance (LNAV). A GPS approach with vertical guidance requires WAAS capability. A GPS approach with lateral-only guidance does not require WAAS capability. An approach will be downgraded from a WAAS approach to an LNAV approach when WAAS integrity or availability is insufficient.

If a downgrade occurs, SVT Pathways may show the level leg segment prior to the Final Approach Fix (FAF) at a higher altitude than expected. This leg will be shown at the altitude of the previous VNAV constraint in the flight plan and may not reflect the published altitude for that segment. This will only occur if the approach downgrades to an LNAV approach, and will not occur if the approach is loaded as an LNAV approach.

PILOT ACTION

Synthetic Vision and Pathway elements are not approved for navigation or navigation guidance in place of the primary flight instruments. If there is a discrepancy between the displayed Pathways and what is depicted on the approach chart, the pilot must fly the altitudes published on the approach chart.

To avoid potential confusion, the pilot may deselect Pathway elements should an approach downgrade occur during a GPS/WAAS approach with vertical guidance.

RESOLUTION

Garmin plans to correct this issue in GDU Software version 10.01 and later versions.

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