

SERVICE INFORMATION NO. SI 40-106

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

1.2 Subject:

GARMIN Service Advisory No. 0914 Revision A
ATA-Code: 34-00

1.3 Reason:

GARMIN has identified an issue whereby a temporary loss of heading/attitude information in GARMIN Integrated Flight Deck and G600 Systems following extended power-on stall maneuvers may occur.

1.4 Information:

For detailed technical information refer to GARMIN Service Advisory No. 0914 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's:

- 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's 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. 0914 Revision A is attached to this SI.

In case of doubt contact GARMIN.



SERVICE ADVISORY

NO.: 0914 Revision A

TO: Owner/Operators of Garmin Integrated Flight Deck and G600 Systems
DATE: 01 May 2009
SUBJECT: Possible temporary loss of heading/attitude information in Garmin Integrated Flight Deck and G600 Systems following extended power-on stall maneuvers.

AFFECTED PRODUCTS

All Garmin G600, G900X, G950, G1000, Cirrus Perspective®, and Embraer Prodigy™ systems using GRS 77 Software version 2.12 and previous versions are affected.

Perspective® is a registered trademark of Cirrus Design Corporation.

Prodigy™ is a trademark of Embraer and may not be used without the express written permission of Embraer S.A.

DESCRIPTION

Temporary loss of heading information (red-X'ed heading) can be caused by sustained (greater than 7 seconds) in-flight operation with true airspeed less than 40 knots and GPS ground speed less than 30 knots.

Additionally, it is also possible that the preceding condition can cause the GRS 77 AHRS to reset, particularly if the low speed condition persists for greater than 10 seconds. In such cases, heading and attitude will not be displayed on the PFD (red X'ed) while the GRS 77 AHRS resets and realigns (typically less than one minute).

PILOT ACTION

Pilots should be aware that operating in the conditions noted above (such as power-on stalls or slow flight) could result in a temporary loss of primary heading and/or primary attitude.

If heading becomes unavailable (heading red-X) and/or if the GRS 77 AHRS resets (attitude and heading red-X) in flight, refer to the standby attitude indicator and compass while the AHRS unit(s) reset and realign.

RESOLUTION

Garmin is investigating software changes to avoid this condition. Such changes will be made available in future software releases.

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