

# **SERVICE INFORMATION**

## **No. SI 42-184**

## **No. SI 42NG-048**

**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 42 /M /NG /M-NG airplanes

### **1.2 Subject:**

GARMIN Service Advisory No. 1309 Rev. B

ATA-Code: 34-20

### **1.3 Reason:**

GARMIN has revised its Service Advisory No. 1309 mandating verification of displayed heading is not noticeable drifting prior Take-Off. Revision B contains updated information regarding the causes and additional pilot action.

### **1.4 Information:**

For detailed technical information refer to GARMIN Service Advisory No. 1309 Rev. B which is applicable without any further additions or restrictions.

## **II. OTHERS**

GARMIN Service Advisory No. 1309 Rev. B is attached to this Service Information.

In case of doubt contact GARMIN.



## SERVICE ADVISORY

NO.: 1309 Rev. B

**TO:** Owners/operators of Garmin G1000, G1000H, G950, G900X, G500, G500H, G600, Cirrus Perspective™, and Embraer Prodigy® Integrated Flight Deck Systems, and Garmin Dealers/Installers

**DATE:** April 04, 2013

**SUBJECT:** Verify displayed heading is not noticeably drifting prior to takeoff

**REVISION B:** Adds updated information regarding the causes for heading drift and additional pilot action.

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### AFFECTED PRODUCTS

Garmin G1000, G1000H, G950, G900X, G500, G500H, G600, Cirrus Perspective™, and Embraer Prodigy® Integrated Flight Deck Systems equipped with GRS 77/77H AHRS (Attitude Heading Reference System).

### DESCRIPTION

Garmin has received a very limited number of reports of a temporary loss of heading and attitude (provided by the AHRS) displayed in the products noted above. There are two possible causes.

- Moving the aircraft on the ground (e.g., towing operations) during the first 10 seconds after turning on power to the AHRS (when power is applied to a PFD, power is also applied to the associated AHRS)
- Magnetic interference introduced near the magnetometer(s) during AHRS initialization (i.e. during the 60 seconds following power up of the AHRS)

Either of the above conditions can cause noticeably drifting heading to be displayed on the PFD (Primary Flight Display) prior to takeoff. Noticeably drifting heading may induce a temporary loss of PFD displayed heading and/or attitude information after takeoff and during climb.

### **NOTE**

For the purpose of this alert, “noticeably drifting heading” occurs when the PFD heading is continuously turning in one direction at a rate of more than ½ degree per second when the aircraft is stationary. A constant heading offset on the PFD prior to aircraft movement is not an indication of this issue.

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## **PILOT ACTION**

Do not move the aircraft on the ground during the first 10 seconds after turning on the pilot and co-pilot (if present) PFD(s).

Do not take off if the heading displayed on the PFD is noticeably drifting.