

SERVICE INFORMATION NO. SI 42-046

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 aircraft

1.2 Subject:

Garmin G1000: Possible loss of attitude and heading information
ATA-Code: 34-00

1.3 Reason:

Garmin has issued a new Service Advisory which draws the attention to the fact that Garmin has identified an internal component that may cause failure of the GRS 77 resulting in the loss of attitude and heading information displayed on the G1000 and advises that pilots should become familiar with this potential condition and exercise appropriate caution.

1.4 Information:

For detailed technical information see Garmin Service Advisory 070816-00 which is applicable without any further additions or restrictions.

II. OTHERS

The Service Advisory 070816-00 from Garmin is attached to this SI.

In case of doubt contact Diamond Aircraft Industries.



****SERVICE ADVISORY****

AVIATION PRODUCT ADVISORY

Service Advisory: 070816-00

AFFECTED PRODUCTS:

GRS 77 Attitude Heading and Reference System (AHRS) serial numbers 42006310 through 42006821 installed after 1 May 2007.

DESCRIPTION OF ISSUE:

Garmin has identified an internal component that may cause failure of the GRS 77 resulting in the loss of attitude and heading information in G1000-equipped aircraft. This failure condition, should it occur, will be immediately recognizable by the accompanying red 'x' that is displayed in the absence of attitude and heading data.

Failure of the AHRS will disconnect the GFC 700 autopilot (on airplanes equipped with the GFC 700 autopilot) and cause loss of the stabilized magnetic heading information on the PFD. This condition does not affect the operation of the independent mechanical standby attitude indicator or compass.

IMMEDIATE ACTION REQUIRED:

Pilots should refer to the applicable airplane Pilot's Operating Handbook/Approved Airplane Flight Manual (POH/AFM) for detailed information about the AHRS system and for the necessary pilot actions related to an AHRS failure. Pilots should become familiar with this potential condition and exercise appropriate caution when flying in instrument meteorological conditions (IMC).

RESOLUTION:

Garmin will issue a service bulletin in the near future to authorized dealers and original equipment manufacturer (OEM) partners. This service bulletin will contain additional instructions that may include modification of affected GRS 77 units. Please contact your Garmin dealer or aircraft manufacturer's authorized service center for details.