

SERVICE INFORMATION NO. SI 42-048

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 aircraft equipped with GRS 77 AHRS units

1.2 Subject:

Garmin – Service Bulletin No. 0735
ATA-Code: 34-00

1.3 Reason:

Garmin has issued a service bulletin which mandates a hardware change to the GRS 77.

1.4 Information:

For detailed technical information confer Garmin – Service Bulletin No. 0735 which is applicable without any further additions or restrictions.

II. OTHERS

The GARMIN Service Bulletin No. 0735 is attached to this SI.

In case of doubt contact Diamond Aircraft Industries GmbH.



**** MANDATORY ****
SERVICE BULLETIN
NO.: 0735

TO: All Garmin Aviation Service Centers
DATE: 7 September 2007
SUBJECT: GRS 77 AHRS (Attitude and Heading Reference System) Mod 1

PURPOSE

This modification improves the reliability of certain GRS 77 LRUs.

DESCRIPTION

This modification consist of a hardware change to the GRS 77.

APPROVAL

TSO-C3d, ETSO-C3d
TSO-C4c, ETSO-C4c
TSO-C6d, ETSO-C6d

The change described in this service bulletin is minor and does not alter the previous approval basis for the GRS 77.

AFMS AND PILOT'S GUIDE CONSIDERATIONS

There are no recommended AFMS changes.

PRODUCT AFFECTED

GRS 77 AHRS Garmin part number 011-00868-10; serial number range 42006310 through 42006821 that do not already have Mod 1 completed.

NOTE

Serial numbers can be verified on the AUX – System Status page.

GRS 77 AHRS Garmin part number 011-00868-00 are not affected.

COMPLIANCE

Mandatory. This service bulletin must be complied with within 6 months or 100 flight hours, whichever occurs first.

REFERENCES

Refer to the applicable airframe specific maintenance manual for removal, replacement, and testing instructions.

MANPOWER

This service bulletin requires a maximum of four (4) hours labor for single GRS 77 installations and six (6) hours labor for dual GRS 77 installations, including inspection, replacement, configuration and testing.

WARRANTY INFORMATION

This modification is warranty reimbursable for manpower required.

MODIFICATION INSTRUCTIONS

This is a factory only modification. Affected units must be returned to Garmin. Contact Garmin for an RMA number before returning the unit to Garmin.

Upon completion of the factory modification, Mod Status 1 will be marked on the unit's serial tag to indicate compliance with this service bulletin.

TESTING PROCEDURE

Garmin requires the following calibrations and tests to be performed when a Mod 1 GRS 77 is installed:

- Magnetometer Calibration
- Engine Run-Up Vibration Test
- Magnetometer Interference Test

Refer to the applicable airframe specific maintenance manual for instructions on how to perform these calibrations/tests.

NOTE

When performing the Magnetometer Interference Test it is permissible to only test the devices that are in close proximity to the magnetometer.

MATERIAL INFORMATION

N/A