

## SERVICE INFORMATION NO. SI-40-116

**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 Alert No. 0824 Revision C  
ATA-Code: 34-00

#### 1.3 Reason:

GARMIN has identified an issue, whereby the large (outer) BARO knob and the small (inner) CRS knob may interfere with each other. The Service Alert No. 0824 Rev. C contains instructions on how to test for knob interference.

#### 1.4 Information:

For detailed technical information see GARMIN Service Alert No. 0824 Rev. C.

## **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 Alert No. 0824 Revision C is attached to this Service Information.

In case of doubt contact GARMIN.



## SERVICE ALERT

NO.: 0824 Rev C

**TO:** All G1000/G900X/G950 Owners and Operators  
**DATE:** 20 November 2009  
**SUBJECT:** GDU 104X CRS/BARO Knob Interference  
**REVISION C:** Added note regarding Service Bulletin 0823 in Affected Products section

### AFFECTED PRODUCTS

#### NOTE

The knob interference issued described in this service alert is resolved by complying with Service Bulletin 0823 Revision C, therefore units that comply with SB0823 Rev C are not affected by this alert.

All G1000/G900X/G950 installations with the following 10-inch GDU 104X displays are affected:

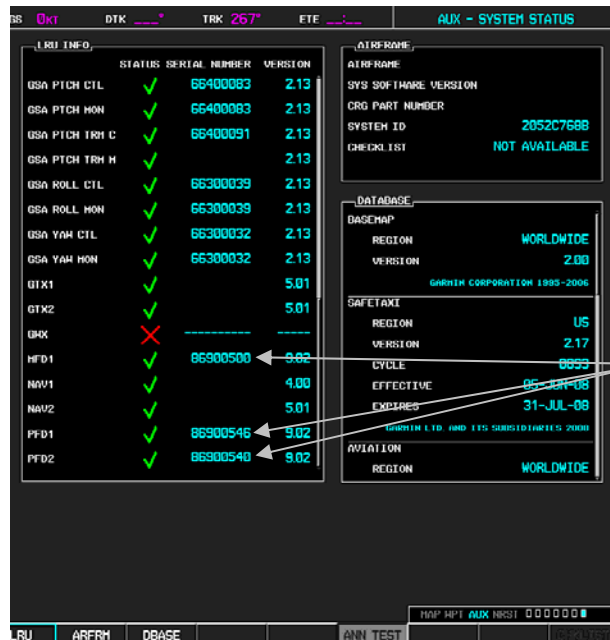
Unit	Garmin Part Number	Affected Serial Number Range
GDU 1040	011-00972-00	86500310 - 86503767
	011-00972-02	87005059 - 87005312
	011-00972-03	88900023 - 88904925 106000265 - 106001037
GDU 1042	011-01080-00	86850318 - 86851005
GDU 1043	011-01079-00	86900317 - 86900748
GDU 1044	011-01078-01	86960200 - 86960376
GDU 1044B	011-01274-00	51200156 - 51201502

#### NOTE

GDU 104X installations with GDU software version 3.02 and later can view unit serial numbers on the AUX – SYSTEM STATUS page. Refer to Figure 1 for an example.

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Example  
GDU 104X  
Serial Numbers

Figure 1

**NOTE**

If the GDU 104X serial number on the AUX – SYSTEM STATUS page displays “0” or if the GDU software version does not display the unit serial numbers, proceed to Step 1 of the IMMEDIATE ACTION REQUIRED section of this service alert.

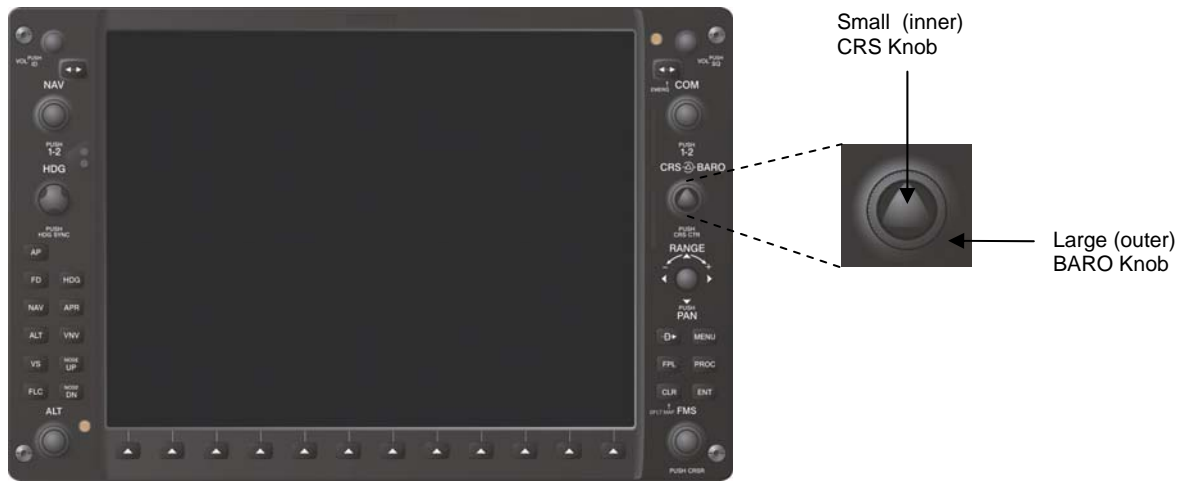
The following G1000-equipped aircraft may include one or more of the affected GDU 104X displays listed above.

- Cessna 172R/172S/182T/T182T/206H/T206H
- Cessna 350/400
- Columbia 350/400
- Diamond DA40/40F/40D/DA42
- Mooney M20M/M20R/M20TN
- Piper PA 32 Saratoga
- Quest Kodiak 100
- Hawker Beechcraft G36 Bonanza
- Hawker Beechcraft G58 Baron
- Tiger AG-5B

All G900X/G950 aircraft installations may also include one or more of the affected GDU 104X displays listed above.

## **DESCRIPTION**

Garmin has identified an issue, whereby the large (outer) BARO knob and the small (inner) CRS knob may interfere with each other.



**Figure 2**

## **IMMEDIATE ACTION REQUIRED**

PFD and MFD CRS/BARO Knob Interference Test

1. Apply power to the G1000/G900X/G950.
2. Press the CDI softkey on the Primary Flight Display(s) (PFD) to enter VOR mode on the HSI.
3. Rotate the large (outer) BARO knob (refer to Figure 2) a minimum of three complete revolutions in each direction while monitoring the Horizontal Situation Indicator/Digital Course Indicator (refer to Figure 3) on the PFD. If a change in the Horizontal Situation Indicator/Digital Course Indicator is produced while turning the BARO knob contact your local Garmin Service Center or OEM Dealer to replace the knobs.

### **NOTE**

In some installations the Digital Course Indicator does not display unless the field is actively being edited. In these instances, if the Digital Course Indicator does not appear while turning the BARO knob, no interference is present.

4. Rotate the small (inner) CRS knob (refer to Figure 2) a minimum of three complete revolutions in each direction while monitoring the Barometric Altimeter Setting (refer to Figure 3) on the PFD. If a change in the Barometric Altimeter Setting is produced while turning the CRS knob contact your local Garmin Service Center or OEM Dealer to replace the knobs.
5. Repeat Steps 3 and 4 for each affected GDU.

### **NOTE**

When testing the Multi Function Display (MFD), the indications must be monitored on the PFD.



Figure 3

### MAINTENANCE RECORDS

If no interference is observed, the pilot performing the check should make the following aircraft logbook entry:

On dd/mm/yyyy the CRS/BARO knobs on installed displays were checked for interference with none found per Garmin Service Alert 0824. Signed - (pilot name here)