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DAI SI D4-114
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24-Oct-2008
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SERVICE INFORMATION NO. SI D4-114

> **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 D aircraft equipped with GARMIN G1000 System.

1.2 Subject:

Garmin G1000 System: Transponder Flight Identification Operation
ATA-Code: 34-00

1.3 Reason:

Garmin has issued a Service Advisory which draws the attention to the fact that Garmin has identified an issue when entering or changing a G1000 Transponder Flight Identification number using the Primary Flight Display (PFD) entry method. This issue affects all G1000 installations with GDU display software version prior to 9.02.

1.4 Information:

For detailed technical information see Garmin Service Advisory No. 0806 Revision C which is applicable without any further additions or restrictions.

II. OTHERS

The GARMIN Service Advisory No. 0806 Revision C is attached to this SI.

In case of doubt contact Diamond Aircraft Industries GmbH.

SERVICE ADVISORY

NO.: 0806 Revision C

TO:　　　　All Garmin G1000 Customers

DATE:　　　 23 October 2008

SUBJECT:　 G1000 Transponder Flight Identification Operation

REVISION C: Added GDU software version number

ISSUE

Garmin has identified an issue that is infrequently encountered when entering or changing a G1000 Transponder Flight Identification (ID) number using the Primary Flight Display (PFD) entry method. This issue may cause the following to appear on the PFD:

- A red "X" (failure indication) on the Transponder Data Box
- A "XPDR Config Service" message in the Message Box

AFFECTED PRODUCTS

G1000 installations with GDU software versions prior to 9.02 configured to use the PFD entry method for the Transponder Flight ID number are affected by this notification.

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The PFD Entry configuration setting is primarily used outside the continental United States for commercial and/or training operations. Systems with PFD Entry enabled may be readily identified by the presence of a FLIGHT ID field (Figure 1) located at the bottom of the Timer/References Window on the PFD. The Flight ID differs from the 4 digit "squawk" code.
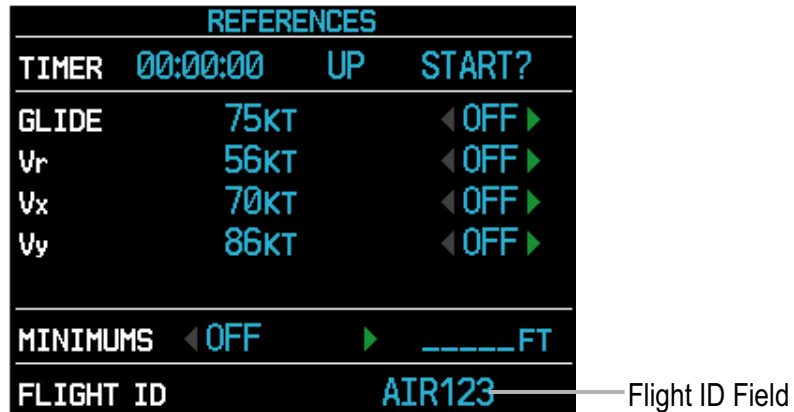
Figure 1 – PFD Timer Reference Window

RECOMMENDATIONS

Garmin recommends the following actions for transponder operation:

- Enter or change the Flight ID number only while the aircraft is on the ground.
- After changing a Flight ID number, do not press other keys, operate knobs on the displays, or attempt to change the Flight ID number on the other transponder (if equipped) for approximately 5 seconds until the Flight ID number update is complete as indicated by the disappearance of UPDATING in the Flight ID number field.

Figure 2 – Transponder Data Box

If the Transponder Data Box (Figure 2) is marked with a red "X" after entering or changing a Flight ID number, perform the following:

For dual transponder installations:

1. Pull the associated transponder circuit breaker to prevent transmitting an incorrect Flight ID number and/or transponder code
2. Select the opposite transponder using the PFD softkeys.
3. Contact your maintenance organization to service the transponder.

For single transponder installations:

- If airborne, advise Air Traffic Control of a possible transponder failure and follow ATC instructions for continued operation of the transponder.
- If on the ground, contact your maintenance organization to service the transponder.

Maintenance personal should refer to the airframe's G1000 System or Line Maintenance Manual for instructions on how to reconfigure the transponder.

RESOLUTION

System software upgrades containing GDU software version 9.02 and later will resolve this issue. Contact your airframe manufacturer for details.