DAI OSBD4-048 Page 1 of 2 02-Feb-2006

OPTIONAL SERVICE BULLETIN NO. OSBD4-048

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 40 D

Serial Numbers: 40.080, 40.084, D4.001 and subsequent

I.3 <u>Time of Compliance</u>

At owner's discretion

I.4 Subject

Installation of additional instrument panel cooling devices.

I.5 Reason

For better cooling at severely hot climatic conditions the installation of additional instrument panel cooling devices is regulated by this service bulletin.

I.6 Concurrent Documents

None.

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 40-244, which has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

I.8 Accomplishment/Instructions

See Work Instruction WI-OSB-D4-048.

DAI OSBD4-048 Page 2 of 2 02-Feb-2006

I.9 Mass (Weight) and CG

Negligible

II PLANNING INFORMATION

II.1 Material & Availability

See WI-OSB-D4-048

II.2 Special Tools

none

II.3 Labor effort

Appr. 4 hr

II.4 Credit

n. a.

II.5 Reference Documents

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue WI-OSB-D4-048

III REMARKS

- 1. All measures must be carried out by manufacturer, a certified aircraft station or a certified aircraft mechanic
- 2. Accomplishment of the measures must be confirmed in the log book.
- 3. In case of any doubt, contact Diamond Aircraft Industries.

Revision 0 Page 1 of 2

30-Jan-2006

WI-OSB-D4-048

WORK INSTRUCTION WI-OSB-D4-048

"I-Panel cooling for severely hot climatic conditions"

I GENERAL INFORMATION

I.1 Subject:

The optional installation of ventilation plugs in the instrument panel cover and the installation of two additional cooling fans for improvement of the cooling within the instrument panel for operation under severely hot climatic conditions.

I.2 Reference Documents:

Diamond Aircraft DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

I.3 Remarks:

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic. In case of doubt, contact Diamond Aircraft.
- b) All works, particular those that are not especially described in this work instruction, have to be carried out in accordance with the referenced maintenance manual.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings:

DA4-3103-02-00x01 D4D-3110-25-00 D4D-9221-20-03

II.2 Special Tools:

None.

WI-OSB-D4-048

Revision 0 Page 2 of 2 30-Jan-2006

II.3 Material:

Qty	Description	Part Number
9	Modification, Hole Plug	D4D-2121-00-99
2	Assembly, Cooling Fan	D4D-2121-10-00
8	Screw	DIN 84-M4x25
24	Washer	DIN 125A-4.3
8	Locknut	DIN 985-M4
3 m	Wire, 22 AWG	M22579/16-22-9
2	Connector	1-480319-0
4	Pin	163305-2
10	Cable Tie	PLT1MM30
4	Ring Terminal	31890

III INSTRUCTIONS

1	Remove instrument panel cover in accordance with the Airplane Maintenanc	
	Manual, Doc. No. 6.02.01.	
2	Drill the 9 holes (22 mm) into the instrument panel cover in accordance with	
	drawing DA4-3103-02-00x01.	
3	Install the ventilation plugs and secure them with 5-min Epoxy resin.	
4	Drill the holes for the cooling fans in accordance with drawing D4D-3110-25-00.	
5	Install the two cooling fans in accordance with drawing D4D-3110-25-00.	
6	Wire the positive leads of the cooling fans to circuit breaker "FAN/OAT" in	
	accordance with drawing D4D-9221-20-03.	
7	Wire the negative leads of the cooling fans to an appropriate ground stud in	
	accordance with drawing D4D-9221-20-03.	
8	Secure the installed wires to the instrument panel harness with appropriate cable ties.	
9	Clean working area and check for foreign objects.	
10	Perform functional check of altered, repaired and new parts.	
11	Install the instrument panel cover in accordance with Airplane Maintenance	
	Manual, Doc. No. 6.02.01.	
12	Test all systems in working area for function.	
13	Make all necessary entries in the airplane's logs	
12	Install the instrument panel cover in accordance with Airplane Maintenance Manual, Doc. No. 6.02.01. Test all systems in working area for function.	





