

RECOMMENDED SERVICE BULLETIN NO. RSB-42-041/1

SUPERSEDES RSB-42-041

I TECHNICAL DETAILS

I.1 Category

Recommended

I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.004 up to and incl. 42.231, if TAE 125-01 Engine is installed.

42.AC001 up to and incl. 42.AC064, if TAE 125-01 Engine is

installed.

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

at owners discretion.

I.4 Subject

Welding reinforcement of the cabin heat exchanger (RH-engine) and defrost heat exchanger (LH-engine), P/N D60-2140-10-00.

ATA-Code: 75

I.5 Reason

Minor leakage may occur on the pipe in- and outlet of the cabin- and defrost heat exchanger. Therefore a welding reinforcement of the pipes on the heat exchanger is recommended with this service bulletin.

I.6 Concurrent Documents

None

DAI RSB-42-041/1 Page 2 of 4 26-Jul-2007

I.7 Approval

The technical content of this document has been approved under the authority of DOA No. EASA.21J.052.

I.8 Accomplishment / Instructions

WI-RSB-42-041, latest effective issue must be complied with.

I.9 Mass (Weight) and CG

Negligible

II PLANNING INFORMATION

II.1 Material & Availability

The Work Instruction WI-RSB-42-041 and appropriate necessary materials are available through DAI.

II.2 Special Tools

None

II.3 Credit

The Labor effort of 3 hours, if airplane is in warranty and warranty application, the attached execution report and work report will be sent to Diamond Aircraft Ind. until 15-Aug-2007.

II.4 Labor effort:

Approx. 3 hours

II.5 Reference Documents

DA 42 Series Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue WI-RSB-42-041, latest effective issue.

DAI RSB-42-041/1 Page 3 of 4 26-Jul-2007

III REMARKS

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



DAI RSB-42-041/1 Page 4 of 4 26-Jul-2007

EXECUTION REPORT for RSB 42-041/1

Airplane Serial Number:			
Airplane Registration:			
Airplane Operator:			
Hours of operation of airplan	e:		
No. of landings:			
Hours of operation-engine	LH:		
	RH:		
Typical operation of airplane	: priva	ate, club, training,	other

Date, Name, Sign

WI-RSB-42-041
Revision 1

Page 1 of 3 26-Jul-2007

WORK INSTRUCTION WI-RSB-42-041

"WELDING REINFORCMENT OF THE CABIN HEAT EXCHANGER TUBE"

I GENERAL INFORMATION

I.1 Subject:

Modification of the cabin heat exchanger (RH) and defrost heat exchanger (LH), P/N D60-2140-10-00 by a welding reinforcement around the inlet and outlet tube.

I.2 Reference Documents:

Diamond Aircraft DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, 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 addition, the welding has to be carried out by certified welding staff. In case of doubt, contact Diamond Aircraft.
- b) All works, particularly 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

I.1 <u>Drawings:</u>	
----------------------	--

None

II.2 Special Tools:

None

26-Jul-2007



II.3 Material

Qty	Description	Part Number
4m (4 pcs.)	Welding filler, mat. 3.3556, SG-AlMg5, 1.6mm	N000181
alt. 4m (4 pcs.)	Welding filler, mat. E4043 1/16"	E4043-1-16

III INSTRUCTIONS

1	Remove the cabin heat exchanger (RH-engine) and defrost heat exchanger (LH-
	engine), P/N D60-2140-10-00 acc. to AMM, Section 75-00-00, item 3.

- 2 | Clean welding area around pipes thoroughly.
- 3 Make a welding reinforcement on **both** pipes according to the following pictures.

Welding Method: WIG (141), TIG Welding Filler Metal: see item II.3

Assessment Group: II Safety Class: II

Allowable variation: acc. DIN8570B

Welding specification complying with DIN 65 118, Section 1.

Note

The pictures are showing one pipe with the current design, and one pipe with a welding reinforcement. The reinforcement has to be carried out on both pipes.





Revision 1 Page 3 of 3 26-Jul-2007

