

MANDATORY SERVICE BULLETIN

NO. MSB-42-038/2

SUPERSEDES RSB-42-038 & MSB-42-038/1

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.004 up to and incl. 42.231, if TAE 125-01 Engine is installed and RSB-42-038 not carried out.
42.AC001 up to and incl. 42.AC059, if TAE 125-01 Engine is installed and RSB-42-038 not carried out.

I.3 Time of Compliance

23-Mar-2008

I.4 Subject

Installation of a modified water tube bracket.

ATA-Code: 76

I.5 Reason

To improve the reliability of the water tube bracket, a redesigned bracket is available at Diamond Aircraft Ind. It is required to replace the bracket by the new design.

I.6 Concurrent Documents

None

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-231, which has been approved under the authority of DOA No. EASA.21J.052.

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

I.8 Accomplishment / Instructions

WI-MSB-42-038, 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-MSB-42-038 and appropriate necessary materials are available through DAI.

II.2 Special Tools

None

II.3 Credit

2 hours + material as specified in II.1

Credit can only be granted on sending a warranty application incl. work report at latest until 14-Apr-2008

II.4 Labor effort:

Approx. 2 hours

II.5 Reference Documents

DA 42 Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue
WI-MSB-42-038, latest effective issue.

III REMARKS

1. All measures must be carried out by 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.

EXECUTION REPORT

for MSB 42-038/2

AIRPLANE DATA

Airplane Serial Number: _____

Airplane Registration: _____

Airplane Operator: _____

Hours of operation of airplane: _____

No. of landings: _____

Hours of operation-engine LH: _____

RH: _____

Typical operation of airplane: private, club, training, other _____

Date, Name, Sign

Please fax the completed form to Fax No. **43-2622-26700-369 or e-mail to
airworthiness@diamond-air.at

WORK INSTRUCTION

WI-MSB-42-038/1

„REDESIGN WATER TUBE BRACKET “

SUPERSEDES WI-RSB-42-038

I GENERAL INFORMATION

I.1 Subject:

Installation of a modified water tube bracket.

I.2 Reference Documents:

Diamond Aircraft DA42 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 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

II.1 Drawings:

None

II.2 Special Tools:

None

II.3 Material

| Qty | Description | Part Number |
|-----|-------------------------|----------------|
| 2 | Mounting Plate Assembly | D60-7526-99-00 |
| 4 | Screw M5x14 | LN9037-05014 |
| 4 | Washer | DIN125-A5.3-A2 |
| 4 | Pipe Clamp | MS21919WDG19 |

III INSTRUCTIONS

| | |
|---|---|
| 1 | Remove upper cowling LH (refer to AMM Section 71-10). |
|---|---|

2

Remove screw from gear box, water tube mounting bracket (Part No. D60-7526-00-01) and oil line.



3

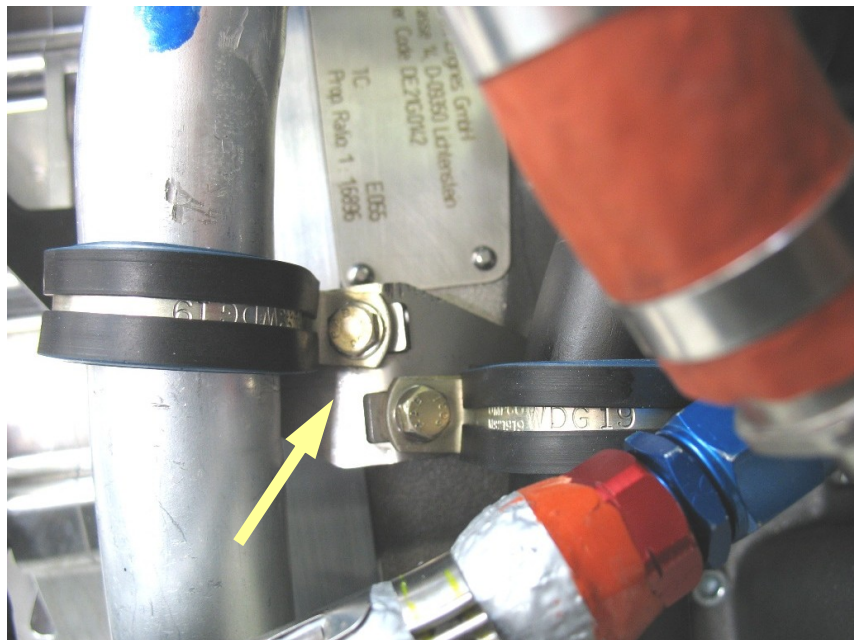
Remove screw on TAE- Engine block.




- 4 Install redesigned Mounting Plate Assembly D60-7526-99-00, pipe clamps and screws (Part Nr. MS21919WDG19 and LN9037-05014).
Torque screw on gear box with 20 Nm and secure it with Loctite 243.



- 5 Torque screws on bracket with standard torque according to AMM.



| | |
|----|--|
| 6 | <p>Install screw on engine block, torque screw with 14 Nm and secure screw with Loctite 262. Install oil line.</p>  |
| 8 | Clean working area and check for foreign objects. |
| 9 | Perform functional check of all systems in working area. |
| 10 | Install the engine cowlings (refer to AMM, Section 71-00) |
| 11 | Perform items 1 to 10 for RH side. |
| 12 | Perform engine ground test (refer to AMM, Chapter 05-20-00) |
| 13 | Make appropriate entries into aircraft log. |