

MANDATORY SERVICE BULLETIN

NO. MSB-42-030/2

SUPERSEDES MSB42-030/1

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.004 up to and incl. 42.196
42.AC001 up to and incl. 42.AC042

I.3 Time of Compliance

Within the next scheduled maintenance action, but not later than 28-Feb-2007.

NOTE:

Prior compliance with MSB42-030, does not preclude compliance with this MSB.

I.4 Subject

Check of return fuel line installation on Common Rail of TAE-Engine and replacement of Common Rail Banjo.

ATA-Code: 72

I.5 Reason

In some cases leakage occurred on the common rail banjo, where the return fuel line is connected to the common rail.

I.6 Concurrent Documents

Thielert Repair Manual RM-02-01, latest effective issue.

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-219, which has been approved under the authority of DOA No. EASA.21J.052.

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I.8 Accomplishment/Instructions

WI-MSB-42-030 latest effective issue must be complied with.

I.9 Mass (Weight) and CG

Negligible.

II PLANNING INFORMATION

II.1 Material & Availability

See WI-MSB-42-030, revision 2 or higher

II.2 Special Tools

None

II.3 Credit

None

II.4 Labor effort:

Approx. 4 hours

II.5 Reference Documents

DA 42 Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue
WI-MSB-42-030 latest effective issue

III REMARKS

1. All measures must be carried out by the 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 or Thielert Aircraft Engines.

WORK INSTRUCTION

WI-MSB-42-030

„CHECK OF RETURN FUEL LINE INSTALLATION, REPLACEMENT OF COMMON RAIL BANJO“

I GENERAL INFORMATION

I.1 Subject:

Replacement of aluminium banjo fitting and check of return fuel line installation.

I.2 Reference Documents:

Diamond Aircraft DA42 Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue, Thielert Repair Manual RM-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	Banjo Dash 6-M12-long (stainless steel)	NM-0000-0136801
2	Banjo bolt M12x1,5 (stainless steel)	NM-0000-0136901
4	Gasket DIN7603-A12x18x1,5-Cu	NM-0000-0034401

III INSTRUCTIONS

1	Remove upper cowling on LH engine according to AMM (refer to section 71-10)
2	Remove Common Rail according to Thielert Repair Manual RM-02-01, latest revision.
3	<p>Replace banjo, banjo bolt and gaskets on common rail according to Thielert Repair Manual RM-02-01, latest revision.</p> 
4	Install Common Rail according to Thielert Repair Manual RM-02, latest revision.

5	Install return fuel line and check for clearance between the 45° fitting downstream of the banjo and the engine housing.
6	<p>Check installation of return fuel line between connection on common rail of TAE-Engine and connection to Nacelle (fire wall):</p> <p>Return Fuel Line must not be attached with tie wrap.</p> 
7	If fuel return line is attached with tie wrap, cut and remove tie wrap.
8	Clean working area and check for foreign objects.
9	Perform items 1 to 8 for RH side.
10	Perform engine ground run and check fuel hose connections for leakages.
11	Make appropriate entries into aircraft log.