

# 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.

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

### **I.8 Accomplishment/Instructions**

WI-MSB-42-030 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.