

MANDATORY SERVICE BULLETIN

NO. MSB-42-039

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.005 up to and incl. 42.170,
42.177
42.AC001 up to and incl. 42.AC027

I.3 Time of Compliance

At next engine change (TAE 125-01 engine)

I.4 Subject

Installation of a redesigned breather line and a new oil separator

ATA-Code: 79

I.5 Reason

A design change in the turbo charging system from Thielert Aircraft Engines requires also the replacement of the oil separator and the breather line.

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 42-176/c, which has been approved under the authority of DOA No. EASA.21J.052.

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I.8 Accomplishment / Instructions

WI-MSB-42-039, 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-42-039 and appropriate necessary materials are available through DAI.

II.2 Special Tools

None

II.3 Credit

Kit MSB-42-039-KIT
0.5 man hours of work

II.4 Labor effort:

approximately 0.5 hours additional to effort of engine change.

II.5 Reference Documents

DA 42 Series Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue
WI-MSB-42-039, 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.

WORK INSTRUCTION

WI-MSB-42-039

„REDESIGN OF BREATHER LINE AND OIL SEPARATOR “

I GENERAL INFORMATION

I.1 Subject:

Modification of the breather line and installation of a new oil separator, necessary at next engine change (TAE125-01).

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 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:

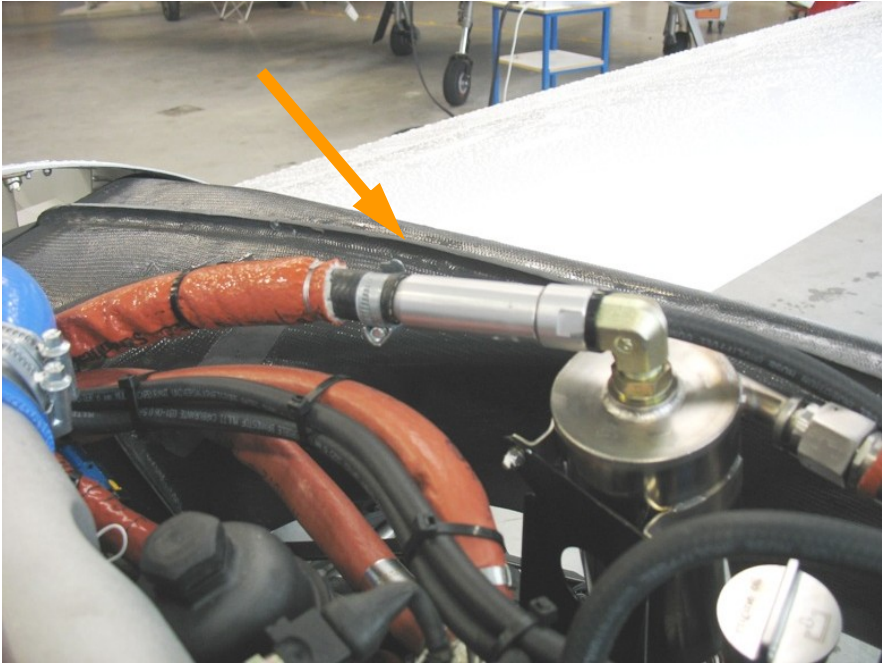
None

II.3 Material

Qty	Description	Part Number
1	Oil Separator (TAE)	02-7250-18310xx
1	Fitting	600394
1	breather inner part	D60-7906-40-30
1	breather outer part	D60-7906-40-31
2 (a.r.)	Tie wrap	PLT4SM30
a.r.	Safety wire	MS20995C025-1LB

III INSTRUCTIONS

	<p>Note:</p> <p>This Work Instructions contains additional instructions which have to be carried out at the next engine change (from / to TAE 125-01 only). It assumes that the Mandatory Service Bulletin MSB 42-016 has been carried out.</p>
1	Remove oil separator and 90° fitting.
2	Screw item D60-7906-40-30 into item D60-7906-40-31 and secure with loctite 243

3	<p>Install new oil separator and new breather line according the following picture of this WI.</p> <p>Shorten breather line and fire sleeve as required and install breather line bypass (D60-7906-40-30 / D60-7906-40-31) acc. to picture.</p> 
4	Clean working area, check for foreign objects.
5	Check new installed items and all systems in working area for proper function.
6	Make appropriate entries into aircraft log.