

MANDATORY SERVICE BULLETIN

NO. MSB-42-016/2

SUPERSEDES MSB-42-016/1

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 42

Serial Numbers: all DA 42 airplanes equipped with TAE125-01 engines and MÄM 42-176 not incorporated

I.3 Date of Effectivity

02-May-2006

I.4 Time of Compliance

With the next 100 hours of operation from the date effectivity,
but not later than 30-Sep-2006

I.5 Subject

Installation Improved Breather Line

ATA-Code: 71-00

I.6 Reason

Design improvement

I.7 Concurrent Documents

None

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-176, which has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

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

I.9 Accomplishment/Instructions

Comply with Work Instruction WI-MSB-42-016
Make all necessary entries in the airplane logs.

I.10 Mass (Weight) and CG

Change to mass and balance is negligible.

II PLANNING INFORMATION

II.1 Material & Availability

See WI-MSB-40-016.

II.2 Special Tools

None

II.3 Labor effort

Appr. 1 h

II.4 Credit

Material according to WI-MSB-42-016
1 man hour of work

II.5 Reference Documents

WI-MSB-42-016, latest effective issue.
DA 42 Airplane Maintenance Manual Doc. No. 7.01.01-E

III REMARKS

- 1) All measures must be carried out by a certified aircraft station or a certified aircraft mechanic.
- 2) Warranty applications must be sent via the local Diamond Aircraft general distributor or Diamond Aircraft service center.
- 3) In case of doubt, contact Diamond Aircraft.

WORK INSTRUCTION

WI-MSB-42-016

„Improved Breather Line Installation“

I GENERAL INFORMATION

I.1 Subject:

Mandatory installation of improved breather line design in the DA42.

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, particular 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:

◇ D60-7906-00-00 Oil System Installation

II.2 Special Tools:

none

II.3 Material:

Pos	Quant. LH	Quant. RH	Number	Description
1	1	1	D60-7906-00-02	Breather Hose Fitting
2	1	1	E921106	90° Block Fitting
3	1	1	E915106	Adapter
4	1	1	193-10	Stratoflex hose l=1500 mm
5	1	1	2650-16	firesleeve AE102 l=1500 mm
6	1	1	ABA	Hose clamp

III INSTRUCTIONS

The following instructions are made for one engine. They have to be performed for the second engine too.

1	Remove engine cowling	according to DA42 AMM
2	Remove whole breather line from the oil separator outlet to the engine drain	
3	Remove 90° Fitting at oil separator	
4	Install 90° Block Fitting at Oil separator	
5	Attach breather hose fitting to 90° block fitting using adaptor	
6	Drill holes into breather hose according to drawing D60-7906-00-00	
7	Wrap fire sleeve around breather hose	
8	Install breather hose from oil separator to engine drain pipe according to drawing D60-7906-00-00	Routing according to picture 1 and 2 make sure not to install the hose with a deepest point (danger of moisture accumulation)
9	Fix fire sleeve downstream of the holes with lock wire	Take care not to close the holes in the breather hose
10	Clean working area and check for foreign objects.	
11	Install engine cowling	according to DA42 AMM

picture 1



picuture 2



Attach overflow line from
coolant tank to breather line
with tie rip