

OPTIONAL SERVICE BULLETIN OSB 42-144

I <u>TECHNICAL DETAILS</u>

I.1 Category

Optional.

I.1 Airplanes affected

Type: DA 42, DA 42 M,

Serial numbers: All airplanes with TAE 125-02-99 installed.

I.2 Date of effectivity

03-Feb-2022

I.3 <u>Time of Compliance</u>

At owner's discretion.

I.4 Subject

Modification of the breather line installation.

I.5 Reason

The engine manufacturer has changed the location of the breather line connection to the centrifugal oil separator. All new TAE 125-02-99 engines (engine serial number 02-02-04889 and subsequent) are produced with this modification.

This Service Bulletin describes the modification of the airframe breather line necessary for these engines on airplane already in service.

I.6 Concurrent Documents

None



I.7 Approval

The technical information or instruction contained in this document relate to the Design Change Advisory No. MÄM 42-1133, which has been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA 21J.052.

I.8 Accomplishments / Instructions

See WI-OSB 42-144, latest effective issue.

Make all necessary entries in the airplane logs.

II Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-OSB 42-144, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 1 hour.

II.4 Credit

None.

II.5 Reference Documents

DA 42 Series, Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue.



III REMARKS

- 1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- 2. All work, in particular that which is not especially described in this Service Bulletin, must be done in accordance with the referenced Maintenance Manual.
- 3. Completion of all work must be recorded in the log book.
- 4. In case of doubt contact Diamond Aircraft Industries GmbH.



EXECUTION REPORT TO SERVICE BILLETIN OSB 42-144

AIRPLANE INFORMATION			
Airplane Serial Number			
Airplane Registration			
Airplane Operator			
Hours of operation of airplane			
Number of landings			
Hours of operation – engine	LH		
	RH		
Typical operation of airplane	private,	club, training, other	

Please send the completed form to executionreports@diamondaircraft.com



WORK INSTRUCTION WI-OSB 42-144

I GENERAL INFORMATION

I.1 Subject

Modification of the breather line installation.

I.2 Reference Documents

DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

I.3 Remarks

- a) All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All work, in particular that, which is not described in this work instruction, must be done in accordance with the referenced maintenance manual.
- c) In case of doubt, contact Diamond Aircraft Industries GmbH.

II <u>DRAWINGS, SPECIAL TOOLS & MATERIALS</u>

II.1 **Drawings**

D60-7906-00-00_02

II.2 Special Tools

None.



II.3 Material

The material is included with the engine kit from Continental Aerospace.

Quantity	TAE Part Number	DAI Part Number	Description
	TAL FAIT NUMBER	DAIT att Number	'
2 (2x320mm)	NM-0000-0210701	D60-9079-06-20X20	Drain Hose I TAE 125- 02-114
2 (2x400mm)	NM-0000-0210701	D60-9079-06-21X20	Drain Hose II TAE 125- 02-114
2	NM-0000-0147001	D60-9079-06-22X20	Fitting Breather Line Bypass TAE125-02-114
2	NM-0000-0016201	RSGU1-30/20-W1	Clamp
2	NM-0000-0041001	RSGU1-15/15-W1	Clamp
2	NM-0000-0019801	DIN 933 – M6X25-8.8-gv	Screw
2	NM-0000-0018101	DIN 985 – M6-A2	Nut
4	NM-0000-0003801	DIN 125A-6,3-A2	Washer
4	NM-0000-0016901	ABA 19-28x12-W1	Hose Clamp
2	NM-0000-0077901	SHL 16 _70mm	Silicon Hose 70mm



III INSTRUCTIONS

1. Install the breather line on LH and RH engine installation:

Install the breather line in pre-assembled breather assy clamps in according to drawing D60-7906-00-00 02 View A and Detail B, tighten clamps and install drain line.

Use tie wraps to attach the drain line on the engine mount.

Install the chafing protector on the engine mount (SHL 16_70mm).



Chafing Protector





Note: On the LH side the alternate Air Bowden Cable must be in front of the breather line.

Diamond Aircraft Industries GmbH Nikolaus-August-Otto-Straße 5 2700 Wiener Neustadt, Austria

WI-OSB 42-144 Revision 1 Page 4 of 4 07-Mar-2022

2.	Clean working areas, check for foreign objects.
3.	Check all altered, replaced, repaired parts for proper function.
4.	Test all systems in working area for function.
5.	Install engine cowlings according to AMM section 71-10.
6.	Do all necessary entries in the airplane log. Record MÄM 42-1133 as installed in the modification status.



