

MANDATORY SERVICE BULLETIN

MSB D4-088

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 40 D

Serial numbers: all airplanes equipped with TAE 125-02-99 engine

I.3 Date of effectivity

30-Jan-2012

I.4 Time of Compliance

Action 1: Within 20 flight hours, but not later than 01-Apr-2012, identification of turbocharger hose and replacement of NOT suitable quality before further flight.

Action 2: If MSB D4-075 (initial issue) has not been carried out yet, within 100 flight hours but not later than 31-Jul-2012, carry out MSB D4-075/1 or later issue.

I.5 Subject

Inspection of Turbocharger Hose

ATA-Code: 71-60

I.6 Reason

There are different qualities of SCEET 10 flexible ducting available, where it appears that specific qualities are not suitable for the application as a turbocharger hose on the DA 40 D. In some cases, the inner layer of the 2-layer ducting separated and caused a reduction of cross-section of the air intake of the turbocharger and a subsequent engine power loss.

This service bulletin prescribes the identification of the quality of the turbocharger hose (SCEET 10 ducting) installed and if required, replacement with a hose DAI P/N SG2M-64-920mm and standardization of the installation per MSB D4-075/1 or later issue.

I.7 Concurrent Documents

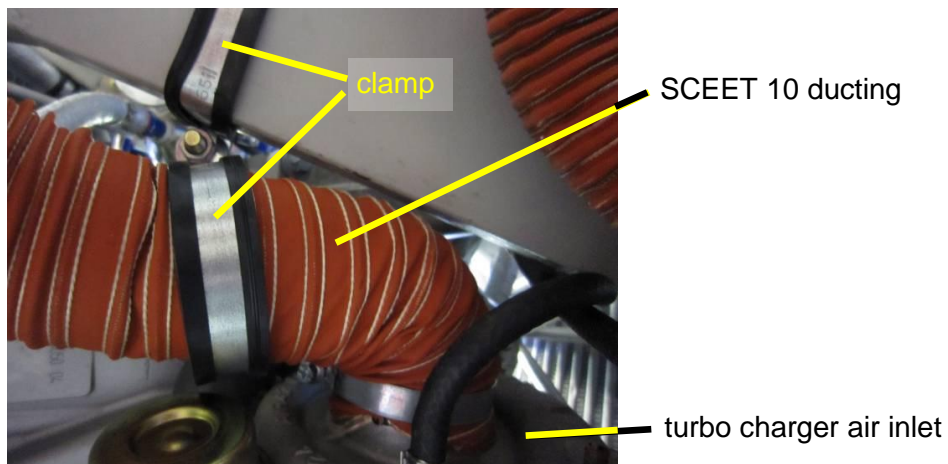
None

I.8 Approval

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

I.9 Accomplishments / Instructions

- Action 1: Identification of the turbocharger hose:
 - Remove cowling according to AMM Section 71-11.



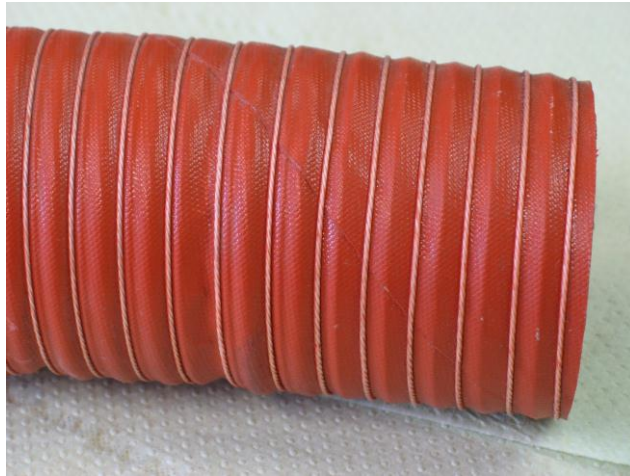
- Identify quality of turbocharger hose (SCEET 10 ducting), that connects the air alternate valve with the turbocharger air inlet.

Criteria:

- **Suitable Quality:** 2 strings (one close to each side of the wire) and a maximum of bonding area between each winding



- Other Quality available (**NOT suitable**):



- Measures:
 - If a NOT suitable quality is identified, replace turbocharger hose with DAI P/N SG2M-64-920mm according to WI-MSB D4-075 Revision 1 or later issue.
- Action 2:
 - If clamp P/N D4D-7166-00-91 has not been installed yet (see picture above), carry out MSB D4-075/1 or later issue.

I.10 Mass (Weight) and CG

No change

II PLANNING INFORMATION

II.1 Material and Availability

None

II.2 Special Tools

None

II.3 Labour Effort

Approx. 0.5 hours

II.4 Credit

None

II.5 Reference Documents

Diamond Aircraft DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, 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, particular those that are 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. If material and/or labor hours are subject to be credited through Diamond Aircraft Industries, the Service Bulletin must be carried out by an authorized Diamond Service Center and the Warranty Application incl. Work Report must be sent not later than 30 days after the end of time of compliance.
5. In case of doubt contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO
SERVICE BULLETIN
MSB D4-088**

AIRPLANE DATA

Airplane Serial Number: _____

Airplane Registration: _____

Airplane Operator: _____

Hours of operation of airplane: _____

No. of landings: _____

Hours of operation-engine _____

Typical operation of airplane: private, club, training, other _____

MSB D4-075 was carried out on date _____

SCEET ducting replacement was required yes no_____
Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to
airworthiness@diamond-air.at