



**Technify  
Motors**

Technify Motors GmbH  
Platanenstrasse 14  
09356 Sankt Egidien, Germany

Tel: +49 37204 696 0  
Fax: +49 37204 696 2912  
www.continentaldiesel.com  
info@continentaldiesel.com

SB TMG 691-1004 P1

# SERVICE BULLETIN

## PRIORITY 1 - SAFETY

**Service Bulletin No. / Date:** SB TMG 691-1004 P1, Initial Issue / March 02, 2017

**Subject:** Water separator


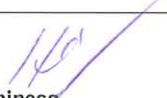
**Type affected:** All Diamond DA40 D

**Models affected:** DA40 D with TAE 125-02-114 Installation i.a.w. STC no. 10036328

**Classification:** Category P1 – SAFETY

**Time of Compliance:** At the next maintenance action

**Reason:** To prevent a possible damage to the FADEC integrated MAP-sensors by condensed water

Checked  S. Reckziegel, CVE	Approved  M. Heinrich, Office of Airworthiness
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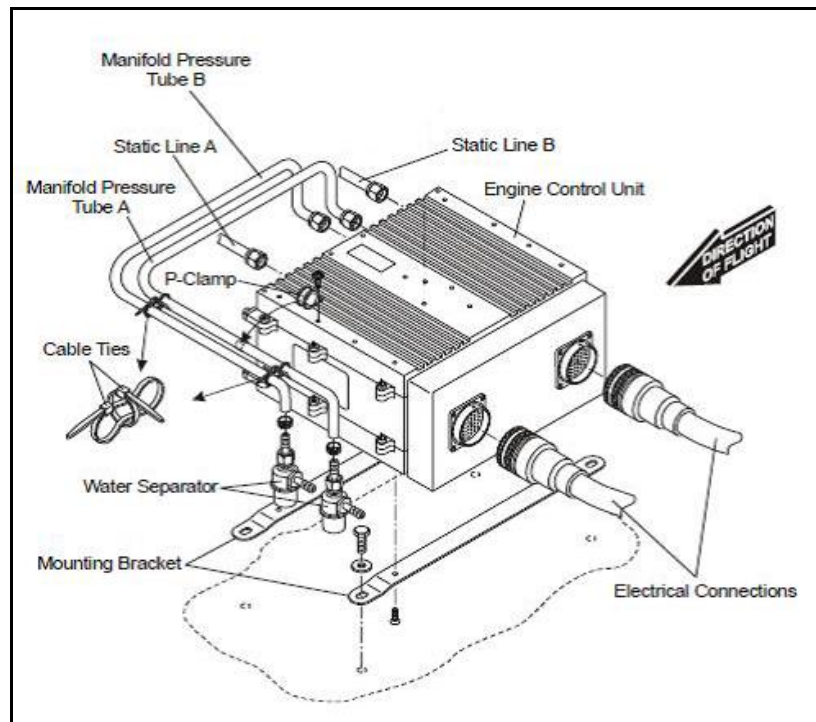
**Correction:**

**1. Logbook Inspection**

- Check the logbook entries if one of the following service bulletins has been carried out.
  - **SB TMG 691-1003 P2 ; latest issue**  
(published by Technify Motors GmbH)
  - **MSB D4-104/1 or later issue**  
(published by Diamond Aircraft Industries GmbH)
  - **RSB D4-083/1 or later issue**  
(published by Diamond Aircraft Industries GmbH)
- If one of the above listed service bulletins has been carried out compliance with SB TMG 691-1004 P1 is fulfilled.
- If none of the above listed service bulletins has been carried out continue with section 2 "Aircraft inspection".

**2. Aircraft Inspection**

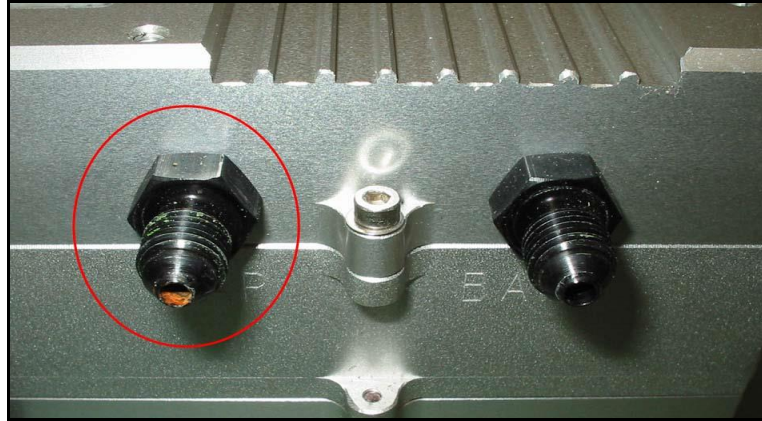
- Remove the pilot seat i.a.w. the original A/C AMM.
- Check if an original water separator system is installed.  
See figure below.





- Remove both MAP lines to check the FADEC fittings.
- Inspect the FADEC fittings for water, water residues, corrosion, sediments etc. Refer to the picture below.

**If such damages are detected, the FADEC needs to be replaced.**



- Check the Map lines for water entry.

**If water remains are detected, the lines need to be dried with appropriate means.**

- Refasten both MAP lines.

### 3. Preparation

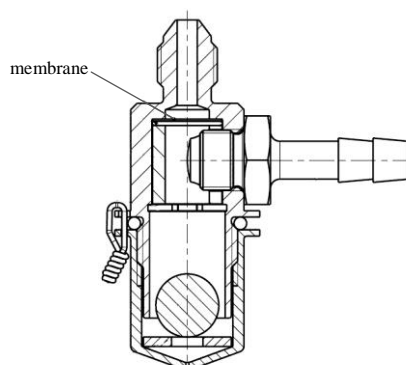
- If no original water separator system is installed carry out Diamond Service Bulletin RSB D4-104/1 or later issue.
  - If an original water separator system i.a.w. RSB D4-083 is installed carry out Diamond Service Bulletin RSB D4-083/1 or MSB D4-104/1 (*resp. later issues of both*).  
Alternatively, install the water separators P/N 50-3940-E0020 03 (DAI P/N: D60-9076-14-01) according to section 4 "Water Separator Installation".
- ◆ Note: If the FADEC D48 has been replaced by a FADEC D4 please also take into account Diamond Service Bulletin OSB D4-098/1.

#### 4. Water Separator Installation

Parts:

Item	Part Number	Description 1	Description 2	Qty.
1	50-3940-E0020 03	water separator assembly	with membrane	2

- Disconnect the manifold pressure hose from both water separators.
- Remove both water separators from the manifold pressure tubes.
- Attach both new water separators to the manifold pressure tubes.
- Connect the manifold pressure hoses to the water separators.



P/N 50-3940-E0020 03

#### 5. Test run

- Perform an engine test run in accordance with OM-02-02.
- Check the system for leakage.

**Remarks:**

Compliance with one of the following service bulletins automatically constitutes compliance with this SB TMG 691-1004 P1:

- **SB TMG 691-1003 P2 (latest issue)**
- **MSB D4-104/1 (or later issue)**
- **RSB D4-083/1 (or later issue)**

**Approval:**

The technical information contained in this document has been approved under the authority of EASA Design Organisation Approval No. EASA.21J.010.