

SERVICE INFORMATION NO. SI 42-239

NOTE: SI's are used only:
1) To distribute information from DAI to our customers.
2) To distribute applicable information/documents from our suppliers to our customers with additional information.
Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

DA 42, DA 42 M

All serial numbers

1.2 Subject:

Continental Aerospace Technologies GmbH SB CG 125-1028 P1

ATA-Code: 72-00

1.3 Reason:

Continental Aerospace Technologies issued Priority 1 – Safety Service Bulletin No. SB CG 125-1028 P1 mandating the inspection of the cylinder head side cover sealing.

1.4 Information:

For detailed technical information refer to Continental Aerospace Technologies SB CG 125-1028 P1 which is applicable without any further additions or restrictions.

II. OTHERS

Continental Aerospace Technologies SB CG 125-1028 P1 is attached to this Service Information.

In case of doubt contact Continental Aerospace Technologies GmbH.



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SB CG 125-1028 P1

SERVICE BULLETIN

PRIORITY 1 – SAFETY

Service Bulletin No. / Date: SB CG 125-1028 P1, Initial Issue / September 22, 2021

Subject: Inspection / sealing of the cylinder head side cover

Type affected: TAE 125-02-99, TAE 125-02-114 and TAE 125-02-125

Models affected: The following engine S/N are affected:

TAE 125-02-99 / S / N 02-02-xxxxx:

06024	06025	06026	60027	06028	06029	06035	06040	06041	06087
06088	06090	60092	06093	06094	06095	06096	06097	06098	

TAE 125-02-114 / S/N 02-02-xxxxx:

12011	12012	12013	12014	12015	12016	12021	12022	12023	12024
12025	12026	12027	12028	12038	12045	12048	12049	12055	12060

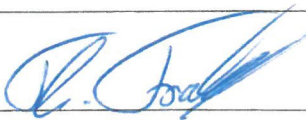
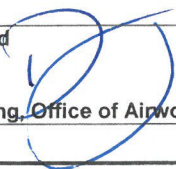
Classification: Category P1 – SAFETY

Time of Compliance: If the engine is installed:
Inspection must be performed in accordance with the following engine operating hours:

- Within 3 – 6 h after the effective date of this Service Bulletin
- 50 h and
- 100 h, afterwards no further actions are required or resealing has already been performed.

If the engine is not installed:
Resealing before installation of the engine

Reason: Possible oil leakage due to an improper sealing of the cylinder head side cover. The oil leak, if not corrected, can result in a damaged v-ribbed belt and possibly an engine shut down.

Checked T. Franke, CVE 	Approved D. Hartung, Office of Airworthiness 
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Replaces Service Bulletin No. / Date: -

Page 1 / 6

Correction:

**Inspection of the cylinder head side cover.
To be performed only if the engine is installed:**

1. Check the side cover for oil leaks at the marked points. See Figure 1 and Figure 2.

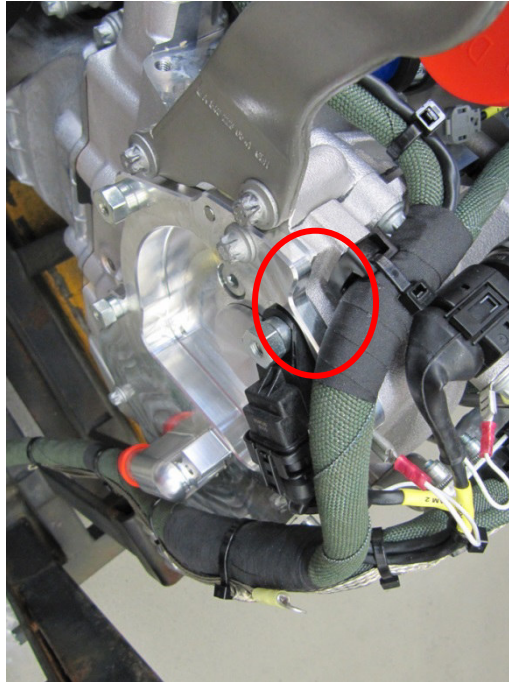


Figure 1

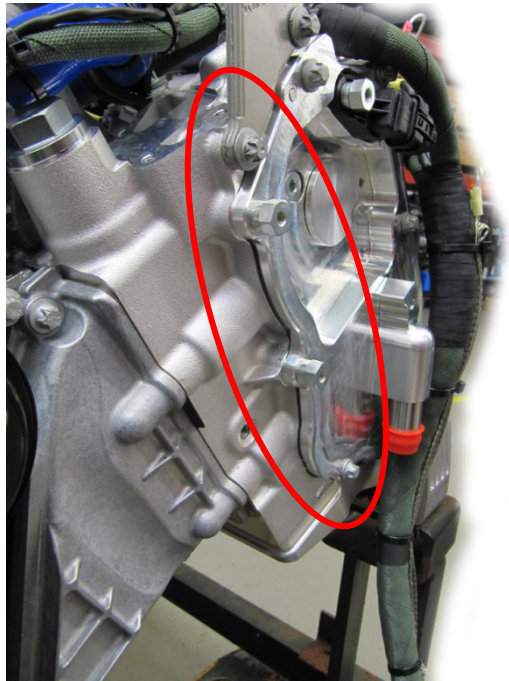


Figure 2

**Sealing of the cylinder head side cover.
To be performed only in the case of an oil leak or the engine is not
installed:**

■ **CAUTION:** Protect all openings against contamination.

1. Remove the wiring harness and camshaft sensor from the side cover in accordance with RM-02-02 section 71-50.
2. If necessary remove hoses and pipes in accordance with the appropriate AMM.
3. If installed:
Remove the vacuum pump in accordance with RM-02-02, chapter 72-30.04.
4. Loosen the screws and tapped bolts at the side cover. See figure 3.

◆ **Note:** Depending on the engine version, the camshaft sensor may have a different orientation.

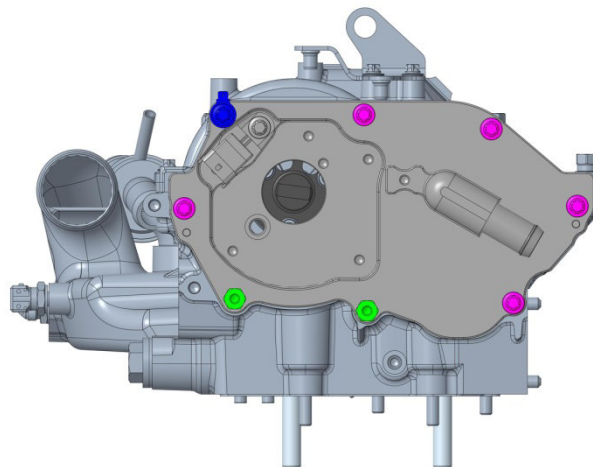
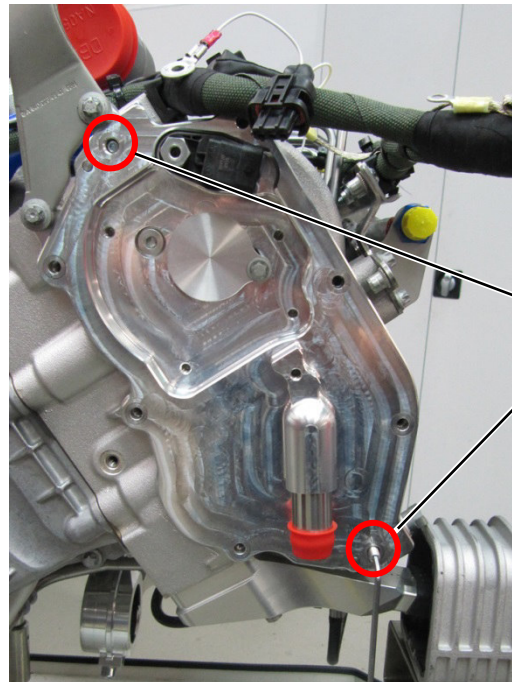


Figure 3 (without vacuum pump)

5. Install two hexagon socket set screw P/N NM-0000-0178101.
See figure 4.

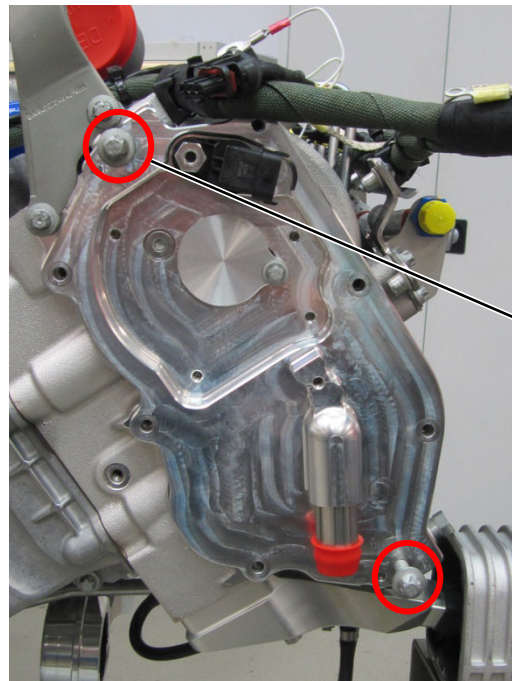
◆ **Note:** Screw in the set screw until the base.

6. Install two screws with external torx P/N NM-0000-0048501 over the set screw and turn them in alternately until the side cover loosens from the cylinder head. See figure 5.



hexagon socket set screw
P/N NM-0000-0178101

Figure 4 Loosen the side cover



screws with external torx
P/N NM-0000-0048501

Figure 5 Loosen the side cover

7. Remove the side cover.
8. Remove the hexagon socket set screw from the cylinder head and screws with external torx from the side cover.
9. Inspect the rotary shaft lip type seal, replace if necessary. See figure 6.

◆ Note: Contact Continental Aerospace Technologies GmbH if the rotary shaft lip type seal must be replaced.

10. Replace the o-ring P/N NM-0000-0142401 at the nozzle.

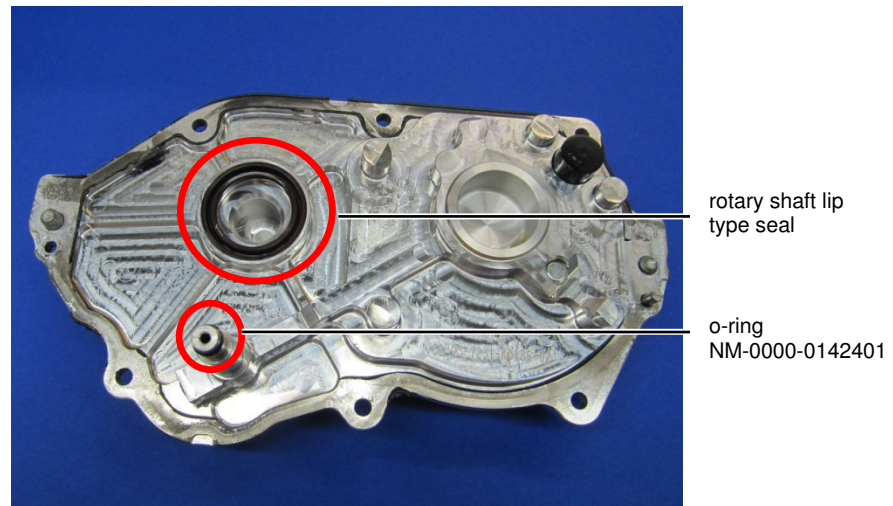


Figure 6

11. Clean and degrease the surface of the side cover and cylinder head.
12. Apply sealing compound P/N 02-7250-03144R1 / NV-0000-0222701 to the sealing surface of the side cover. See figure 7.

◆ **Note:** The sealant should then have a diameter of approx. 2 mm and be applied as shown in Figure 7.
Further information can be found in RM-02-02, chapter 72-30.03.

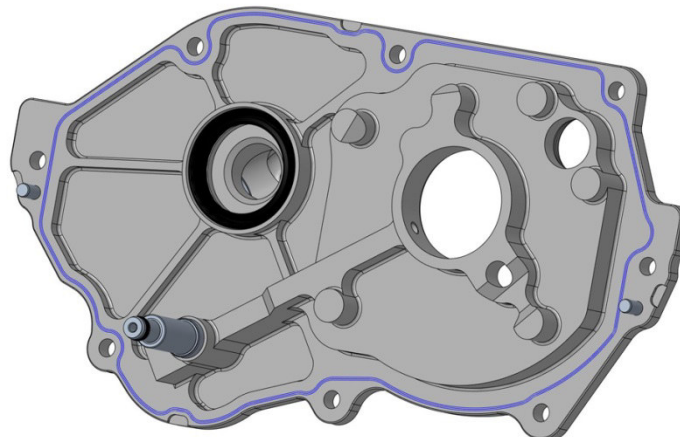
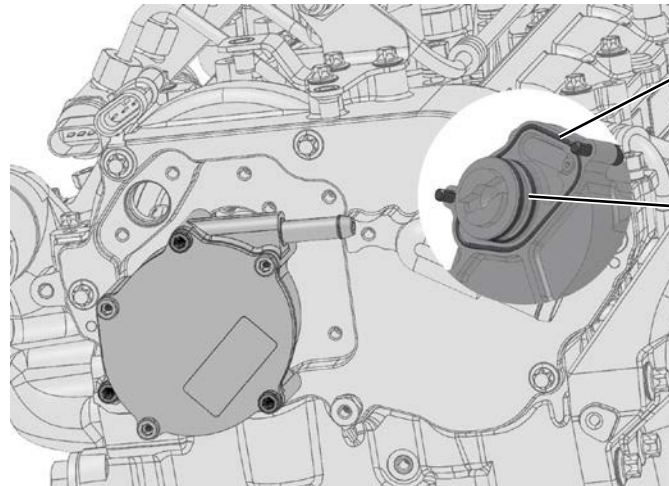


Figure 7 sealant

13. Install the side cover with the original screws and bolts.
Tightening torque:
12Nm

14. Install the vacuum pump (if it was installed) in accordance with RM-02-02, chapter 72-30.04 / 72-30.05. Replace the three o-rings P/N NM-0000-020601 / NM-0000-0215901.



o-ring
P/N NM-0000-0215901

o-rings
P/N M-0000-0206001

Figure 8 installation vacuum pump

15. Replace the v-ribbed belt P/N 05-7223-K000302 in accordance with RM-02-02, chapter 72-20.01.
16. Attach the wiring harness and camshaft sensor to the side cover in accordance with RM-02-02, section 71-50.
17. Attach the removed hoses and pipes in accordance with the appropriate AMM.

Remarks:

Labor Effort:
1.5 h plus ground run

Tools:

Item	Part Number	Description	Quantity
1	NM-0000-0178101	Hexagon socket set screw ISO 4026 - M6x20 - 45H - A2E	2
2	NM-0000-0048501	Screw with external torx DIN 34801 - B M8x25 - 8.8 - A2E	2

Parts:

Item	Part Number	Description	Quantity
1	NM-0000-0142401	O-ring DIN 3771 - 6x2 - 80FPM610	1
2	NM-0000-0206001	O-ring DIN 3771 - 35x2 - 80FKM610	2
3	NM-0000-0215901	O-ring DIN 3771-64x2-80FKM610	1
4	05-7223-k000302	V-ribbed belt	1
5	02-7250-03144R1	LOCTITE SI 5970	as req.
	NV-0000-0222701	LOCTITE SI 5900	

Approval:

The technical content of this document is approved under the authority of the
DOA ref. EASA.21J.010