

OPTIONAL SERVICE BULLETIN

OSB 42NG-027/1

supersedes OSB 42NG-027

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42 NG, DA 42 M-NG
Serial numbers: 42.N001 through 42.N099
42.NC001 and subsequent
42.MN001 and subsequent
Airplanes converted to DA 42 NG via OSB 42-068
Airplanes converted to DA 42 M-NG via OSB 42-081

I.3 Date of effectivity

23-Feb-2012

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Heating inlet using ram air.
ATA-Code: 21-40

I.6 Reason

Diamond Aircraft has further developed an improved heating system for operation in colder climatic areas by using ram air in the lower engine cowling. This service bulletin makes this improvement available to airplanes already in service.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 42-225/a, 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.9 Accomplishments / Instructions

- Remove lower cowlings, refer to AMM Chapter 71-10.
- Trim heat exchanger box per template attached.



- Install lower Cowlings with new P/N as applicable to the aircraft modification status, refer to AMM Chapter 71-10.

NOTE Alternatively the lower cowlings can be reworked to the new design per WI-OSB 42NG-027, latest effective issue.

I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

Identify the part numbers of the installed cowling.

Refer to table below for part number of new cowling.

P/N of installed cowling	P/N of replacement cowling	Description
D64-7116-13-00 or D64-7116-13-00_1 or D64-7116-13-00_2	D64-7116-13-00X30	Cowling Assy C LH Platinum
D64-7116-13-00x01 or D64-7116-13-00x02 or D64-7116-13-00x03	D64-7116-13-00X31	Cowling Assy C LH Standard
D64-7116-23-00 or D64-7116-23-00_1 or D64-7116-23-00_2	D64-7116-23-00X30	Cowling Assy C RH Platinum
D64-7116-23-00x01 or D64-7116-23-00x02 or D64-7116-23-00x03	D64-7116-23-00X31	Cowling Assy C RH Standard
D65-7116-13-00x11	D65-7116-13-00X41	Cowling Assy C LH platinum on top exhaust grey
D65-7116-13-00x12	D65-7116-13-00X42	Cowling Assy C LH platinum grey
D65-7116-23-00x11	D65-7116-23-00X41	Cowling Assy C RH platinum on top exhaust grey

P/N of installed cowling	P/N of replacement cowling	Description
D65-7116-23-00x12	D65-7116-23-00X42	Cowling Assy C RH platinum grey

Material for rework, see WI-OSB 42NG-027, latest effective issue.

II.2 **Special Tools**

Special tools needed for rework only. See WI-OSB 42NG-027, latest effective issue.

II.3 **Labour Effort**

Approx. 1 hour for replacement.

II.4 **Credit**

None.

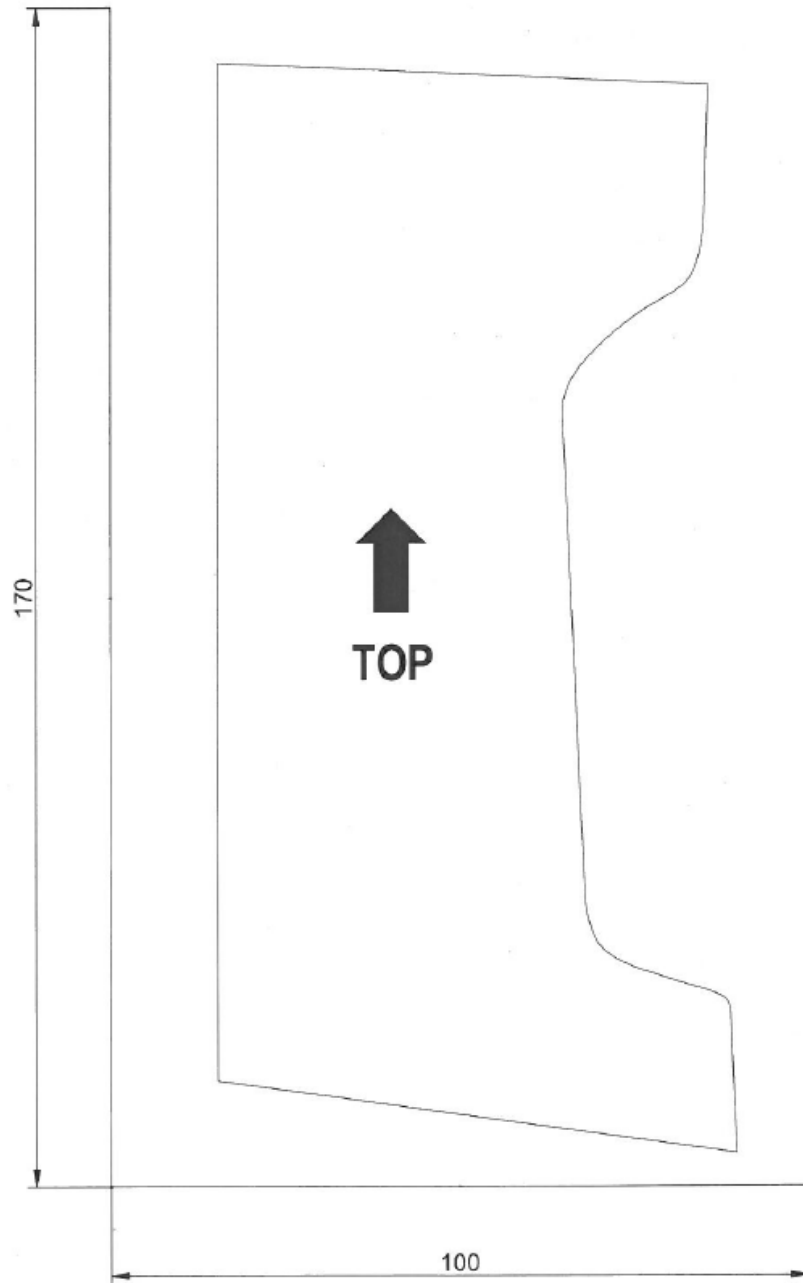
II.5 **Reference Documents**

DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, 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. In case of doubt contact Diamond Aircraft Industries GmbH.

Template





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08-Jan-2013

EXECUTION REPORT TO SERVICE BULLETIN OSB 42NG-027/1

AIRPLANE DATA

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of operation of airplane _____

No. of landings _____

Hours of operation-engine LH _____

RH _____

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

Date, Name, Sign

Please fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to
airworthiness@diamond-air.at