OPTIONAL SERVICE BULLETIN
OSB 42NG-051

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42 NG

Serial numbers: 42.N100 and subsequent

I.3 Date of effectivity

18-Feb-2015

I.4 Time of Compliance

At owner´s discretion.

I.5 Subject

Installation of power plant cooling improvement.

ATA-Code: 71-10

I.6 Reason

Diamond has developed a cowling that improves the power plant cooling in hot weather conditions.
This Service Bulletin describes the modification of the cowling for aircrafts 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 42-276, 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

See WI-OSB 42NG-051, latest effective issue.

I.10 Mass (Weight) and CG

No Change.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-OSB 42NG-051, 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 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, 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 BULLETIN OSB 42NG-051

AIRPLANE INFORMATION

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

WORK INSTRUCTION

WI-OSB 42NG-051

I GENERAL INFORMATION

I.1 Subject

Installation of power plant cooling improvement.

I.2 Reference Documents

DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, 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 especially 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 DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

None

II.2 Special Tools

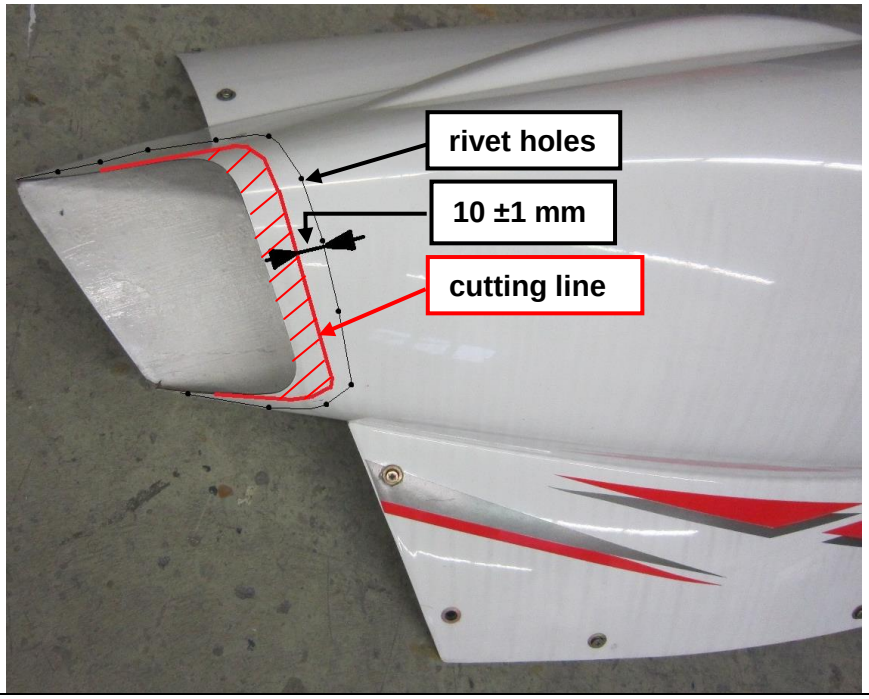
None.

II.3 Material

Quantity	Part No.	Description
24	ISO 15983 – 3,2x9,5 - A2	blind rivets, protruding head
2	D64-7116-55-00	enlarged air outlets
a.r.	Rotabond2000_weiss	high temperature resistant MS-Polymer

Material is available from Diamond Aircraft Industries.

III INSTRUCTIONS

1	Remove the top RH cowlings i.a.w. AMM Section 71-10.
2	Pre fit the enlarged air outlet on the top RH cowlings.
3	Drill the holes for blind rivets on the top RH cowlings through the holes in the pre fitted enlarged air outlet, refer to step above.
4	Mark a cutting line on the cowling air outlet 10 ±1 mm away from rivet holes i.a.w. picture below. Trim along the cutting line and break sharp edges. 
5	Mount the enlarged air outlets with blind rivets on the top RH cowlings.
6	Seal the gaps around the enlarged air outlets with Rotabond2000_weiss
7	Install the top RH cowlings i.a.w. AMM Section 71-10.
8	Clean working area, check for foreign objects
9	Check all altered, replaced, repaired parts for proper function.

10	Test all systems in working area for function.
11	Make all necessary entries in the airplane logs.