

OPTIONAL SERVICE BULLETIN

OSB 42-085/1

OSB 42NG-015/1

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42, DA 42 M, DA 42 NG, DA 42 M-NG
Serial numbers: 42.004 through 42.427,
42.AC001 through 42.AC152,
42.M001 through 42.M026,
42.N001 through 42.N059,
42.N100 through 42.N115,
42.NC001, 42.NC002,
42.MN001 through 42.N026
if OÄM 42-197 has not been installed during production

I.3 Date of effectivity

14-Oct-2010

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Installation of vibration and cabin noise reduction measures in the floor panel.

ATA-Code: 18-00

I.6 Reason

In order to further reduce vibration and cabin noise generated under certain flight conditions stiffeners can be installed in the floor panel.

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 42-197/c, 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

Comply with WI-OSB 42-085 / WI-OSB 42NG-015, 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**

See WI-OSB 42-085 / WI-OSB 42NG-015, latest effective issue.

II.2 Special Tools

See WI-OSB 42-085 / WI-OSB 42NG-015, latest effective issue.

II.3 Labour Effort

Approx. 3 hours.

II.4 Credit

None.

II.5 Reference Documents

DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

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.



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EXECUTION REPORT TO SERVICE BULLETIN OSB 42-085 OSB 42NG-015

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

WORK INSTRUCTION

WI-OSB 42-085

WI-OSB 42NG-015

Installation of floor panel vibration damper

I GENERAL INFORMATION

I.1 Subject

Installation of vibration and cabin noise reduction measures.

I.2 Reference Documents

Diamond Aircraft DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

Diamond Aircraft DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

I.3 Remarks

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) The work must be performed in workshop conditions acc. to Airplane Maintenance Manual Section 51-00.
- d) It is recommended to print this Work Instruction in color.
- e) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

D60-1800-00-00

II.2 Special Tools

Ring saw 102mm (4.02 in.)

Ring saw 64mm (2.52 in.)

Countersink 125°

Drill 2.5mm, 5.5mm

Angle drill

Air duct stick bar clamp D60-1820-41-00-SV

II.3 Material

Quantity	Part No.	Description
1	D60-1800-10-00	Air duct stick cover
1	D60-1811-41-00	Floor panel vibration damper LH
1	D60-1812-41-00	Floor panel vibration damper RH
1	D60-1820-21-00	Air duct stick
1	D60-1820-41-00	Stick plate III
6	ISO 7380-M5x12-A2	Screw
6	DIN 125-AM-5-PA	Washer Polyamide
6	LN 29985-A05	Anchor nut JSF
12	DIN 7337-B2.4x8.5	Rivet TABKBS 36
2m	N 000063	Velcro
2m	N 000065	Frieze band

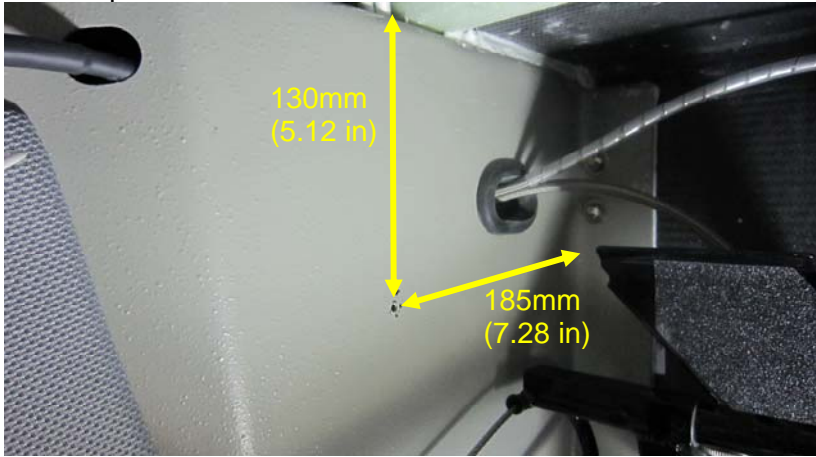
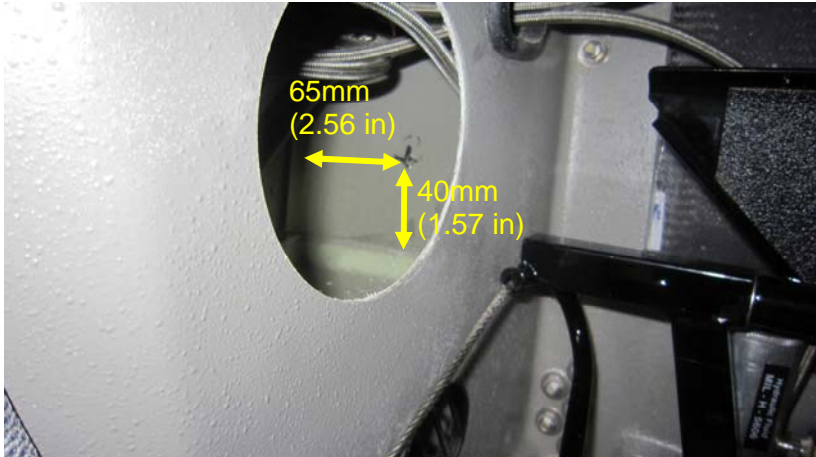
Materials including special tools are available from Diamond Aircraft Industries.

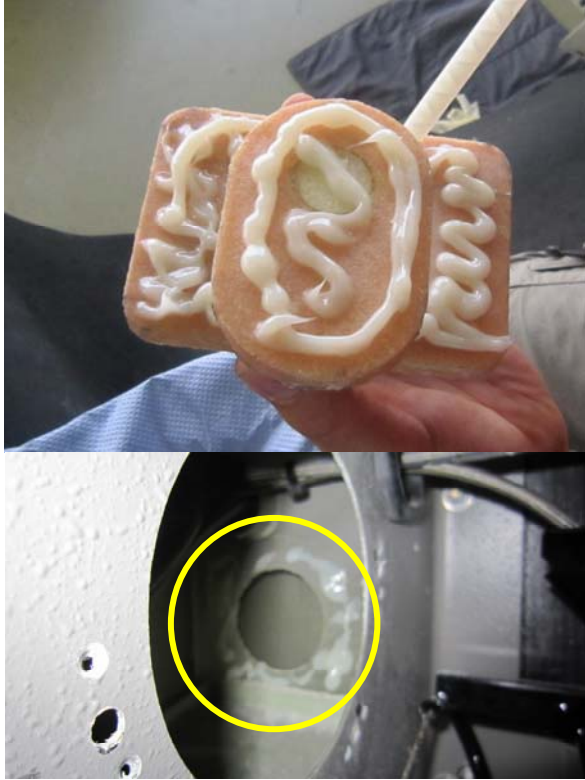


II.4 Consumables



Quantity	Part No.	Description
a. r.	N000 148	Acetone
1	101970	Plexus MA300
5	102188	Mixer

Consumables may be procured locally or from Diamond Aircraft Industries

III INSTRUCTIONS

1	Remove pilot and copilot floor panel carpet.
2	<p>Mark the position for drilling a 102 mm (4 in.) hole on copilot side of floor panel center console in acc. with picture 1.</p>  <p style="text-align: center;">Picture 1</p>
3	Drill the 102mm (4 in.) hole carefully.
4	<p>Mark the position on the air duct shell in acc. with picture 2.</p>  <p style="text-align: center;">Picture 2</p> <p>CAUTION: Do not damage the brake line.</p>
5	<p>Drill a 64 mm (2.52 in) hole in the air duct shell with an angle drill.</p> <p>CAUTION: Make sure the cut out does not fall into the air duct.</p>
6	Prepare bonding surfaces on air duct in acc. with AMM Chapter 51.
7	Remove peel ply from the air duct stick and prepare in acc. with AMM Chapter 51.

<p>8</p>	<p>Apply Plexus MA300 on the air duct and the air duct stick.</p>  <p style="text-align: center;">Picture 3</p>
<p>9</p>	<p>Bond air duct stick with Plexus MA300 in the air duct.</p>
<p>10</p>	<p>Install the fixing tool and allow curing for 1 hour.</p>  <p style="text-align: center;">Picture 4</p>
<p>11</p>	<p>Prepare bonding surfaces on air duct and the air duct stick plate III in acc. with AMM Chapter 51.</p>  <p style="text-align: center;">Picture 5</p>
<p>12</p>	<p>Bond air duct stick plate III with Plexus MA300 on the air duct and allow to cure for 1 hour.</p>

13	<p>Drill the cover attachment holes (use cover as template for holes).</p> <ul style="list-style-type: none"> • Drill holes for anchor nut installation. • Countersunk anchor nut installation holes. • Rivet anchor nuts LN 29985-A05 with rivet DIN 7337-B2.4x8.5 to the inside of the center console.  <p style="text-align: center;">Picture 6</p>
14	Clean working area and check for foreign objects.
15	Install the cover D60-1800-10-00 with screws ISO 7380-M5x12-A2.
16	<p>Install the floor panel vibration damper LH and RH with Velcro tape acc. to picture. Clean floor panel surface with acetone. Trial fit the floor panel vibration damper LH and RH, mark position. Remove the protection foil of Velcro tape; if necessary use a second layer of Velcro tape.</p>  <p style="text-align: center;">Picture7</p>
17	Install pilot and copilot floor panel carpet.
18	Check rudder pedals in all positions for free movement.
19	Perform an engine run with heating and fresh air on and canopy in ventilation position.
20	Perform functional check of altered, repaired and new parts.
21	Test all systems in working area for function.
22	Make necessary entries into aircraft logs.