

MANDATORY SERVICE BULLETIN

MSB 42NG-010

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes affected

Type: DA 42 NG, DA 42 M-NG
Serial numbers: 42.339, 42.379, 42.N001 through 42.N011, 42.N018
42.MN001 through 42.MN005
Aircraft converted to DA 42 NG via OSB 42-068
with Material Kit WI-OSB 42-068 App. A Rev. 3 or lower

I.3 Date of effectivity

06-May-2010

I.4 Time of Compliance

Within 100 flight hours, but not later than 31-Oct-2010.

I.5 Subject

Installation of a protective mesh on coolant and charged air radiator.

ATA-Code: 75-20 and 81-20

I.6 Reason

Diamond Aircraft has developed a protective mesh to prevent damage from heavy rain or hail to the coolant and charged air radiators. This Service Bulletin describes the installation of the protective mesh on aircraft already in operation.

Note:

After the time of compliance damaged radiators due to heavy rain or hail are no longer subject to warranty regardless of the warranty status of the aircraft.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-406, 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-MSB 42NG-010, latest effective issue.

I.10 Mass (Weight) and CG

Negligible.

II PLANNING INFORMATION**II.1 Material and Availability**

See WI-MSB 42NG-010, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 3 hours.

II.4 Credit

Material as listed in WI-MSB 42NG-010 and 3 hours of labour.

II.5 Reference Documents

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

III 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) If material and/or labor hours are subject to be credited through Diamond Aircraft Industries, the Service Bulletin must be carried out by an authorized Diamond Service Center and the Warranty Application incl. Work Report must be sent not later than 30 days after the end of time of compliance.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO
SERVICE BULLETIN
MSB 42NG-010**

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

WORK INSTRUCTION

WI-MSB 42NG-010

„Radiator Protection“

I GENERAL INFORMATION

I.1 Subject

Installation of a protective mesh on coolant and charged air radiator.

I.2 Reference Documents

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) 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 Number	Description
2	D64-7526-50-00	Water Cooler Guard Assy
2	D64-8126-50-00	Intercooler Guard Assy
12	LN 9037 – 04 012	Bolt, Hex Head, Reduced Shaft
24	LN 9025 – 0405K	Washer
12	LN 9338 - 04	Hexagon Nut, self locking
10	LN 9037 – 06 018	Bolt, Hex Head, Reduced Shaft
10	LN 9025 – 0610 K	Washer
1	DC 732-90	Silastic 732 RTV transparent (90ml)

Material is available from Diamond Aircraft Industries.

III INSTRUCTIONS

1.	Ensure AMM-TR-MÄM-42-406 has been incorporated into the AMM.
2.	Remove Cowlings (AMM Section 71-10).
3.	Install the Water Cooler Guard D64-7526-50-00 (AMM Section 75-00). Use bolts LN 9037 – 04 012, washers LN 9025 – 0405K and nuts LN 9338 – 04. Note: Ensure the Water Cooler Guard is mounted in flight direction as indicated with felt tip pen.
4.	Remove Air Intake from Intercooler (AMM Section 81-00).
5.	Bond Intercooler Air Intake to intercooler guard with Silastic 732 RTV transparent.
6.	Install Air intake with Intercooler Guard on Intercooler (AMM Section 81-00). Use bolts LN 9037 – 06 018 and washers LN 9025 – 0610 K.
7.	Clean working area and check for foreign objects.
8.	Perform items 1 through 10 on second engine.
9.	Install Cowlings (AMM Section 71-10).
10.	Perform functional check of altered, repaired and new parts.
11.	Test all systems in working area for function.
12.	Make all necessary entries in the airplane logs.