

MANDATORY SERVICE BULLETIN MSB 42-148 MSB 42NG-094

I <u>TECHNICAL DETAILS</u>

I.1 Category

Mandatory

I.1 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.AC151 42.M001 through 42.M026 42.N001 through 42.N268 42.N270 through 42.N274 42.N300 through 42.N537

42.NC001 through 42.NC00742.MN001 through 42.MN11242.NW001 and subsequent

I.2 Date of effectivity

11-Feb-2025

I.3 <u>Time of Compliance</u>

Within 200 flight hours, but not later than 28-Feb-2026.

I.4 Subject

Replacement of the main landing gear (MLG) and nose landing gear (NLG) retaining rings.

ATA-Code: 32-00

Diamond Aircraft Industries GmbH Nikolaus-August-Otto-Straße 5 2700 Wiener Neustadt, Austria

DAI MSB 42-148 DAI MSB 42NG-094 Page 2 von 4 11-Feb-2025

I.5 Reason

It was discovered that the main and nose landing gear braces of some aircraft had retaining rings with insufficient level of corrosion resistance being installed. This may cause the retaining rings to corrode, sustain damage, or fail (crack). If not corrected, this may lead to failure of the landing gear. This Service Bulletin describes the replacement of those retaining rings.

I.6 Concurrent Documents

None.

I.7 Approval

The technical information or instruction contained in this document relate to the Design Change Advisory No. MÄM 42-1285/b, which has been approved under the authority of the DOA ref. EASA.21J.052.

The technical content of this document has been approved under the authority of the DOA ref. EASA.21J.052.

I.8 Accomplishments / Instructions

See WI-MSB 42-148 / WI-MSB 42NG-094 latest effective issue.

II Mass (Weight) and CG

Mass and Center of Gravity are not affected.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-MSB 42-148 / WI-MSB 42NG -094, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 1 hour.

DAI MSB 42-148 DAI MSB 42NG-094 Page 3 von 4 11-Feb-2025

II.4 Credit

Material according to WI-MSB 42-148 / WI-MSB 42NG-094, latest effective issue.

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 <u>REMARKS</u>

- 1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- 2. All work, 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. If material is subject to be credited through Diamond Aircraft Industries, the Service Bulletin must be done by an authorized Diamond Service Center within the time of compliance and the Warranty Application incl. Work Report must be sent not later than 30 days after completion of work.
- 5. In case of doubt contact Diamond Aircraft Industries GmbH.

Date, Name, Sign

Diamond Aircraft Industries GmbH Nikolaus-August-Otto-Straße 5 2700 Wiener Neustadt, Austria

DAI MSB 42-148 DAI MSB 42NG-094 Page 4 von 4 11-Feb-2025

EXECUTION REPORT TO SERVICE BULLETIN MSB 42-148 MSB 42NG-094

AIRPLANE INFORMATION			
Airplane Serial Number			
Airplane Registration			
Airplane Operator			
Hours of operation of airplane			
Number of landings			
Hours of operation – engine	LH		
	RH		
Typical operation of airplane		club, training, other	
Typical operation of airplane			
Typical operation of airplane			
Typical operation of airplane			
Typical operation of airplane			
Typical operation of airplane			
Typical operation of airplane			

Please send the completed form to executionreports@diamondaircraft.com



WORK INSTRUCTION WI-MSB 42-148 WI-MSB 42NG-094

I GENERAL INFORMATION

I.1 Subject

Replacement of the main landing gear (MLG) and nose landing gear (NLG) retaining rings.

I.2 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.

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 if not described in this work instruction, must be done in accordance with the referenced maintenance manual.
- c) For conversion factors between SI units and US/Imperial units refer to AMM, Chapter 02.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 <u>Drawings</u>

None.

II.2 Special Tools

None.



II.3 Material

Quantity	Part Number	Description
4	DIN471-10-MZP	DIN 471-10x1.0-MZP, Retaining ring (MLG Brace Assy LH and RH)
4	DIN471-20-MZP	DIN 471-20x1.2-MZP, Retaining ring (MLG Brace Assy LH and RH)
2	DIN471-18-MZP	DIN 471-18x1.2-MZP, Retaining ring (NLG Brace Assy)
2	DIN471-10-MZP	DIN 471-10x1.0-MZP, Retaining ring (NLG Brace Assy)

Material is available from Diamond Aircraft Industries.

III <u>INSTRUCTIONS</u>





