

OPTIONAL SERVICE BULLETIN

NO. OSB-42-009

I TECHNICAL DETAILS

I.1 Category

Optional

I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.114 and previous, excluding 42.064 through 42.106 and 42.108

I.3 Time of Compliance

At owner's discretion.

I.4 Subject

Installation of two additional hinges to forward cargo doors of the DA42 series.

I.5 Reason

Two additional hinges provides structure with enough strength to ensure that cargo door can remain open without aid.

I.6 Concurrent Documents

None

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-085, which has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA No. EASA.21J.052.

I.8 Accomplishment/Instructions

Comply with WI-OSB-42-009, installation of additional hinge to forward cargo door.

I.9 Mass (Weight) and CG

The change in mass and CG is negligible.

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

Materials including drawings are available from Diamond Aircraft Industries

II.2 Special Tools

Standard workshop equipment.

II.3 Credit

2 man hours of work
Material according to WI-OSB-42-009

II.4 Reference Documents

WI-OSB-42-009 for DA 42
DA42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, always latest revision.

III REMARKS

1. All measures must be carried out by manufacturer, a certified aircraft station or a certified aircraft mechanic
2. Accomplishment of the measures must be confirmed in the log book.
3. In case of any doubt, contact Diamond Aircraft Industries.

WORK INSTRUCTION

WI-OSB-42-009

„INSTALLATION OF TWO ADDITIONAL HINGES TO FRONT BAGGAGE COMPARTMENT DOOR“

I GENERAL INFORMATION

I.1 Subject:

Installation of two additional hinges to the DA 42 series front baggage compartment door.

I.2 Reference Documents:

Diamond Aircraft DA 42 Airplane Maintenance Manual, Doc. No. 7.02.01, 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. In case of doubt, contact Diamond Aircraft.
- b) All works, particular those that are not especially described in this work instruction, have to be carried out in accordance with the referenced maintenance manual.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings:

None

II.2 Special Tools:

Standard workshop equipment.

II.3 Material Additional Hinge Installation:

Qty	Description	Part Number
4	Canopy hinge	H2000ML
32	Press nut	UM-4-R
32	M4 Screw	ISO 7380-M4x12-A2
32	Washer	DIN 125A-4, 3-A2

III INSTRUCTIONS

III.1 Installation of Additional Hinge:

The steps 1 to 7 must be carried out for left and right side.

1	Open Front Baggage Compartment Door
2	Position hinge centered between existing hinges and mark required holes. Ensure correct alignment of hinge lines (see also images below)
3	Carefully drill the marked holes to a depth of 8mm
4	Place press nuts into both fuselage and door and secure them with Loctite
5	Install both new hinges using M4 screws, ensure correct alignment of hinge lines
6	Check for foreign objects
7	Carry out test procedure, as stated in AMM Chapter 52
8	Make necessary entry in airplane log book

