

OPTIONAL SERVICE BULLETIN OSB 50-011

I <u>TECHNICAL DETAILS</u>

I.1 <u>Category</u>

Optional

I.1 Airplanes affected

Type: DA 50 C

Serial numbers: 50.C.A.A.007 through 50.C.A.A.081,

50.C.Q.A.001 through 50.C.Q.A.003

I.2 Date of effectivity

16-Dec-2024

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

At owner's discretion.

I.4 Subject

Installation of Control System Sealing Foams

I.5 Reason

Openings for the push rods of the aileron and flap control system in the center wing structure allowed cold air to flow into the fuselage. Foam seals reduce this airflow and increase the comfort of passengers in the rear seats.

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 50-466, 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-OSB 50-011, latest effective issue.

I.9 Mass (Weight) and CG

Negligible.

II PLANNING INFORMATION

I.10 Material and Availability

See WI-OSB 50-011, latest effective issue.

I.11 Special Tools

See WI-OSB 50-011, latest effective issue.

I.12 Labour Effort

Approx. 2 hours

I.13 Credit

None.

I.14 Reference Documents

DA 50 C Airplane Maintenance Manual, Doc. No. 9.02.01, 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, in particular 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 50-011

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club, training, other
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Please send the completed form to executionreports@diamondaircraft.com



WORK INSTRUCTION WI-OSB 50-011

I GENERAL INFORMATION

I.1 Subject

Installation of control system sealing foams.

I.2 Reference Documents

DA 50 C Series Airplane Maintenance Manual, Doc. No. 9.02.01, 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 **Drawings**

None.

II.2 Special Tools

None.



II.3 Material

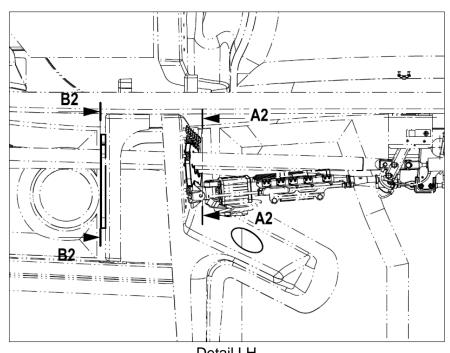
Quantity	Part Number	Description
290ml	Terostat MS-9380	Adhesive sealing
A/R	425_50mm	3M Aluminium adhesive tape 425 silver
1	D53-2704-11-00	Inner Sealing Foam LH
1	D53-2704-12-00	Inner Sealing Foam RH
1	D53-2704-13-00	Outer Sealing Foam LH
1	D53-2704-14-01	Outer Sealing Foam RH

Material is available from Diamond Aircraft Industries.

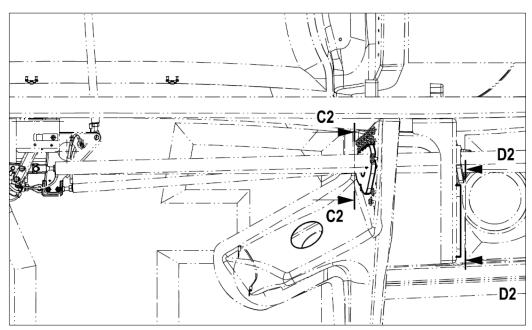
III INSTRUCTIONS

1	Remove Passenger Seat according to AMM Section 25-10.
2	Remove LH and RH Center Wing Covers according to AMM Section 52-40.
3	WARNING WEAR SAFETY GLASSES AND ENSURE PROPER VENTILATION WHEN CLEANING. Clean the composite surfaces where self-bonding sealing foams will be applied with Isopropanol and lint-free cloth (see sections A2-A2, B2-B2, C2-C2, D2-D2).
	\DETAIL LH \DETAIL RH/





Detail LH



Detail RH

Trial fit the foam into position to check clearances.

NOTE

Every foam has a peeling foil to avoid contamination of adhesive layer on the back. Do not remove the foil before the foam is in its final position.



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	Make sure when operating aileron and flap control system there is positive clearance between foams and control system pushrods.
5	WARNING KEEP SAFE DISTANCE WHILE OPERATING THE CONTROL SYSTEM.
	Remove peeling foil and apply the foams.
6	NOTE Do not apply pressure on the adhesive layer.
	Make sure when operating aileron and flap control system there is positive clearance between foams and control system pushrods.
7	WARNING KEEP SAFE DISTANCE WHILE OPERATING THE CONTROL SYSTEM.
	NOTE Do not contaminate the adhesive layer.
	If necessary, adjust the foam position by peeling off locally. Stretch or compress the foam to avoid the collision with push rods. Contact of the foam PTFE tape with pushrod during operation is allowed. Bending of the foams during control system in operation is not allowed.
	CAUTION REMOVE AND LOCALLY SHIFT THE FOAMS MAXIMUM 5 TIMES IN 10 MINUTES FROM FIRST CONTACT WITH ADHESIVE.
8	When foams are well positioned, apply pressure to the foam top surface for good adhesion to the composite structure.
	Apply adhesive Teroson Terostat MS 9380 at the edge of the foam as shown in steps 11, 12, 13 and 14.
9	CAUTION KEEP AWAY ADHESIVE (TEROSON) FROM PUSHRODS, SCREWS AND WASHERS. KEEP ALL STRUCTURAL CONNECTIONS FREE FOR VISUAL INSPECTION.
	Note Before you start any work, familiarize yourself handling with requirements of adhesive.
	(10)
	Detail of typical Teroson Terostat application.



