

RECOMMENDED SERVICE BULLETIN

RSB 50-007

I TECHNICAL DETAILS

I.1 Category

Recommended

I.1 Airplanes affected

Type: DA 50 C
Serial numbers: 50.C.A.A.007 through 50.C.A.A.049
50.C.A.A.052, 50.C.A.A.054, 50.C.A.A.056

I.2 Date of effectivity

27-Jun-2024

I.3 Time of Compliance

At owner's discretion.

I.4 Subject

Lubrication of flap actuator trigger rod.
ATA Code: 27-50

I.5 Reason

Diamond Aircraft has received a report about a stuck flap system. This was caused by increased friction of the flap actuator trigger rod.

Diamond Aircraft recommends lubricating the flap actuator trigger rod to reduce friction and wear. Increased friction can lead to overload of the flap actuator control mechanism and subsequently to a stuck flap system. This service bulletin describes the lubrication procedure for airplanes already in service.

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 50-400, which has been approved under the authority of the DOA ref. EASA.21J.052.

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I.8 Accomplishments / Instructions

See WI-RSB 50-007, latest effective issue.

II Mass (Weight) and CG

None.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-RSB 50-007, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 0.5 hours.

II.4 Credit

None.

II.5 Reference Documents

DA 50 Airplane Maintenance Manual, Doc. No. 9.02.01, 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, 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.

EXECUTION REPORT TO SERVICE BULLETIN RSB 50-007

AIRPLANE INFORMATION

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of operation of airplane _____

Number of landings _____

Hours of operation – engine _____

Typical operation of airplane private, club, training, other _____

Date, Name, Sign

Please send the completed form
to executionreports@diamondaircraft.com

WORK INSTRUCTION

WI-RSB 50-007

I GENERAL INFORMATION

I.1 Subject

This work instruction describes the lubrication of the flap actuator trigger rod.

I.2 Reference Documents

DA 50 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) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

None

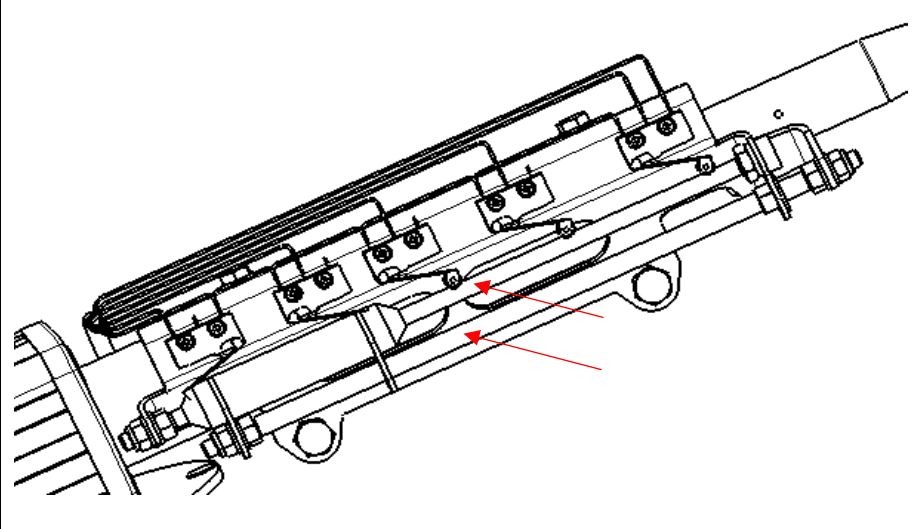
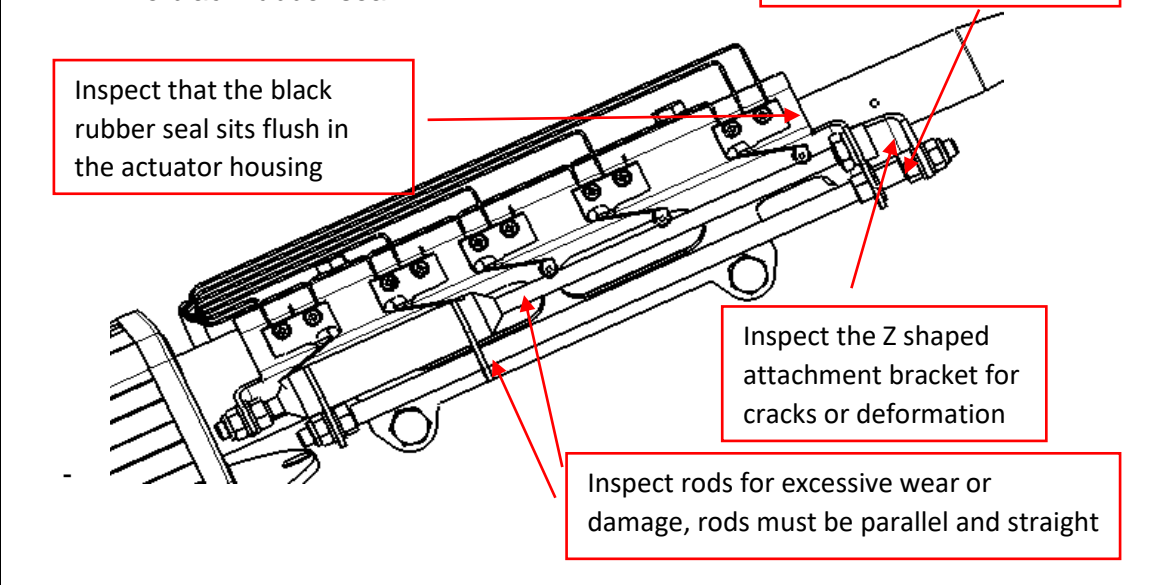
II.2 Special Tools

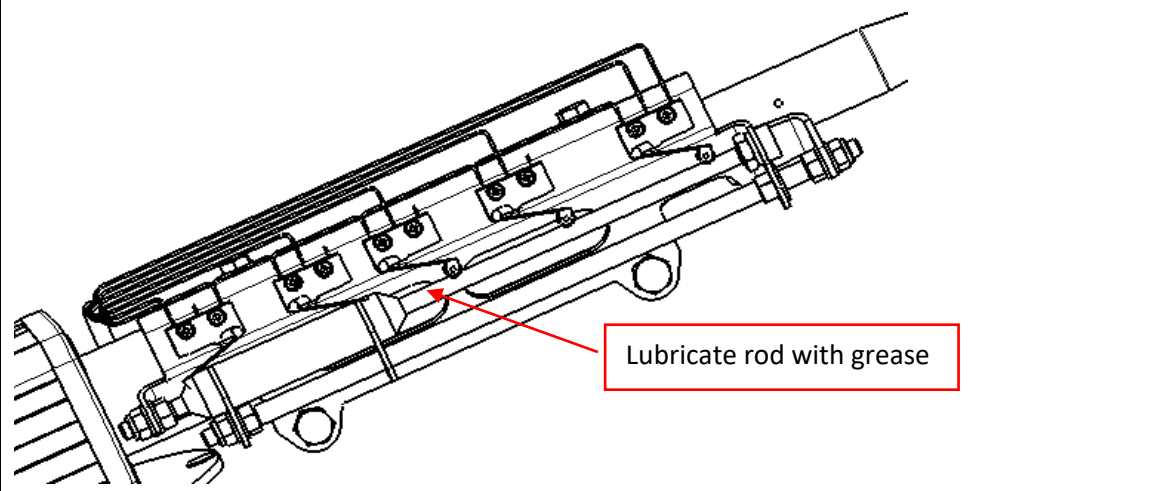
None.

II.3 Material

Material is available from Diamond Aircraft Industries.

III INSTRUCTIONS

1	Set the flaps to the UP position.
2	Pull the flap circuit breaker.
3	Remove the seat cushion from the passenger seat row.
4	Remove the maintenance cap from the LH passenger seat row.
5	<p>Clean the marked rods of the flap actuator.</p> 
6	<p>Inspect for excessive wear or damage:</p> <ul style="list-style-type: none"> - The marked rods - The z - shaped attachment bracket of the rods - The black rubber seal  <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 5px;">Inspect the threaded end for cracks or deformation</div> <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 5px;">Inspect that the black rubber seal sits flush in the actuator housing</div> <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 5px;">Inspect the Z shaped attachment bracket for cracks or deformation</div> <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 5px;">Inspect rods for excessive wear or damage, rods must be parallel and straight</div>

7	<p>Lubricate the marked rod with grease Type 7 i.a.w. AMM Section 12-20.</p> 
8	Re-set the flap circuit breaker.
9	Move the flaps from the UP to the LDG position. Lubricate the areas, where there is no grease. Wipe off any excess grease (ensure the marked rod remains lubricated).
10	Install the maintenance cap from the LH passenger seat.
11	Install the seat cushion from the passenger seat row.
12	Clean working areas, check for foreign objects.
13	Check all altered, replaced, repaired parts for proper function.
14	Test all systems in working area for function.
15	Do all necessary entries in the airplane logs.