

RECOMMENDED SERVICE BULLETIN**NUMBER:** SB13-02**REVISION:** 01**DATE:** March 28, 2013**SUBJECT:** ELEVATOR DOWN-STOP BUMPER REPLACEMENT**EFFECTIVITY:**

As required for KODIAK 100 Series Aircraft Serial Numbers: 100-0001 through 100-0090.

SUMMARY:

Quest has made an adhesive change as a result of bumpers coming loose on fielded aircraft.

The attached Field Service Instruction provides guidance for replacing the plastic elevator down-stop bumper.

COMPLIANCE:

Quest Aircraft Company recommends this Service Bulletin be completed on or before the next 100 Hour Inspection or Annual Inspection whichever comes first.

ATTACHED DOCUMENTS:

Document #:	Revision:	Document Title:
FSI-058	00	ELEVATOR DOWN-STOP BUMPER REPLACEMENT

FAA APPROVAL STATUS:

The instructions attached to this Service Bulletin have demonstrated compliance with all applicable Federal Aviation Regulations and are approved by the Federal Aviation Administration.

CREDIT AND WARRANTY INFORMATION:

Quest Aircraft Company will supply Service Kit FSI-058 at no charge to customers with aircraft under factory warranty. For aircraft no longer under factory warranty, the kit is available for purchase for \$16.32 (price subject to change). Quest is not offering reimbursement for labor associated with this bulletin. To obtain Service Kit FSI-058, contact Quest Customer Service.

Quest Customer Service**Service Bulletin:** SB13-02**Phone:** (208)263-1111 Toll Free: 1(866)263-1112**Email:** Customerservice@questaircraft.com**SPECIAL INSTRUCTIONS:**

N/A

RECOMMENDED SERVICE BULLETIN***RECOMMENDED SERVICE BULLETIN***



FIELD SERVICE INSTRUCTION

TITLE:

Elevator Down-stop Bumper Replacement

SERIAL RANGE:

As Required

JASC CODE: 2730

PAGE:

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REPORT NO.:

FSI-058

REVISION:

00

SUBJECT

This Field Service Instruction provides guidance for replacing the plastic elevator down-stop bumper.

AFFECTED MANUALS AND PUBLICATIONS

None.

INDUSTRY REFERENCES

CBPS-206 Process Specification, *Adhesive Bonding of Nutplates, Studs, Standoffs, Cable Tie Mounts, Bushings, and Other Fasteners*.

WEIGHT AND BALANCE

Negligible.

MANPOWER

The estimated man-hours and minimum number of persons required to perform this Field Service Instruction are listed below. The "Minimum Persons" refers only to maintenance personnel or installers, and unless otherwise specified within this instruction does not include additional personnel that may be needed solely to comply with safety requirements (for example, safety observers that are not performing tasks within this instruction). It is the responsibility of maintenance personnel to comply with safety requirements, including having a safety observer available as needed.

Estimated Man-hours: 1 hour

Minimum Persons: 1 person

If more than the minimum personnel perform this instruction, the actual man-hours required may be reduced due to increased efficiencies. As appropriate, Quest encourages the use of additional personnel; man-hour estimates are based on the minimum personnel required.

RECORD OF COMPLETION

Update the appropriate maintenance log books.

QUEST Aircraft Company, LLC
1200 Turbine Drive
Sandpoint, ID 83864

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REVISION RECORD

REV	PAGE	CHANGE DESCRIPTION
00	All	Initial Release



FIELD SERVICE INSTRUCTION

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SERIAL RANGE: As Required

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1. Special Safety Instructions

1.1 Warnings

Failure to comply with “Warnings” contained in this instruction may result in financial loss, significant delay in the completion time, and/or serious injury to personnel.

1.2 Cautions

Failure to comply with “Cautions” contained in this instruction may result in the destruction of components, unnecessary complications, the need to reverse completed work, and/or delays in the completion time.

1.3 Notes

“Notes” are provided when additional information may lead to an increase in efficiency.

2. Parts, Tools, and Equipment

The following tables describe the parts, tools, and equipment necessary to successfully complete this instruction. Where applicable, reference to drawings provided with this instruction is provided.

Table 2-1: Parts and Tools Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-1-1	100-618-0026	1	Elevator Bumper	N/A	N/A

Table 2-2: Consumables Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-2-1	CB200	1	Click Bond Acrylic Adhesive ¹	N/A	N/A

¹: Consumables may be shipped separately from the primary kit.

Table 2-3: Serial-Number-Specific Parts Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-3-1	N/A	—	N/A	N/A	N/A

Table 2-4: Parts and Tools NOT Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-4-1	Commercially Available	1	Denatured Alcohol	N/A	N/A

3. General

This Field Service Instruction provides procedures for replacement of the elevator down-stop bumper (P/N 100-618-0026).

Figure 3-1 shows the location of the elevator stop assembly on the KODIAK 100 aircraft.

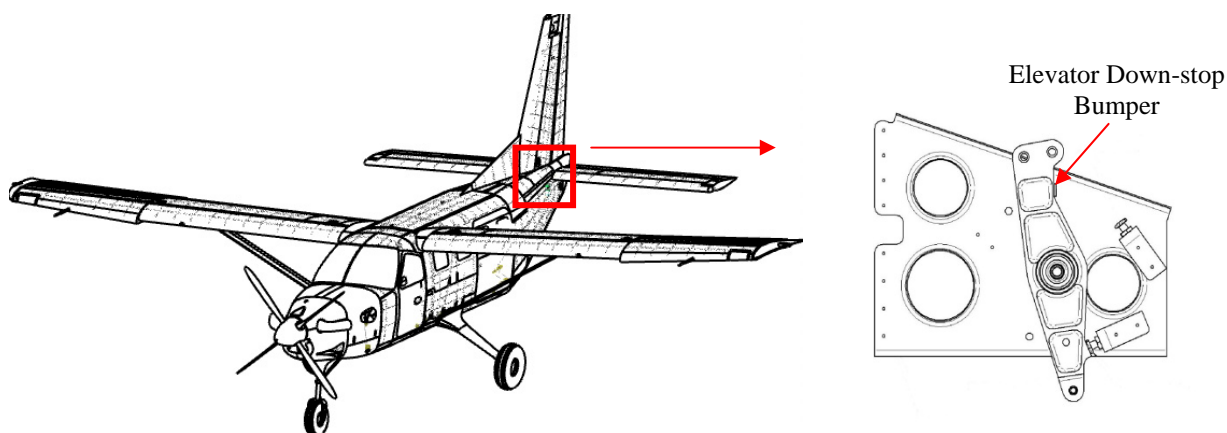


Figure 3-1: Elevator Stop Assembly Overview

4. Preparation

To gain access to the aft fuselage, remove the aft interior bulkhead by removing thirteen (13) quarter-turn fasteners.

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5. Instructions

5.1 Inspection

Inspect for damage to the bumper.

- If the down-stop bumper is found to be broken, dislodged, loose, or missing, replace it by performing the steps at Section 5.2 through Section 6.
- If the bumper is found securely attached to the elevator arm, proceed to Section 6.

5.2 Prepare the Surface

Refer to **Figure 5-1** when preparing the surface.

1. Remove any residue of previous adhesive by scrubbing the surface of the elevator bell crank with denatured alcohol and wiping away any residue.
2. Clean and prep the bonding surfaces of the replacement bumper (P/N 100-618-0026) and the elevator bell crank in accordance with the manufacturer's instructions for Click Bond adhesive (P/N CB200).

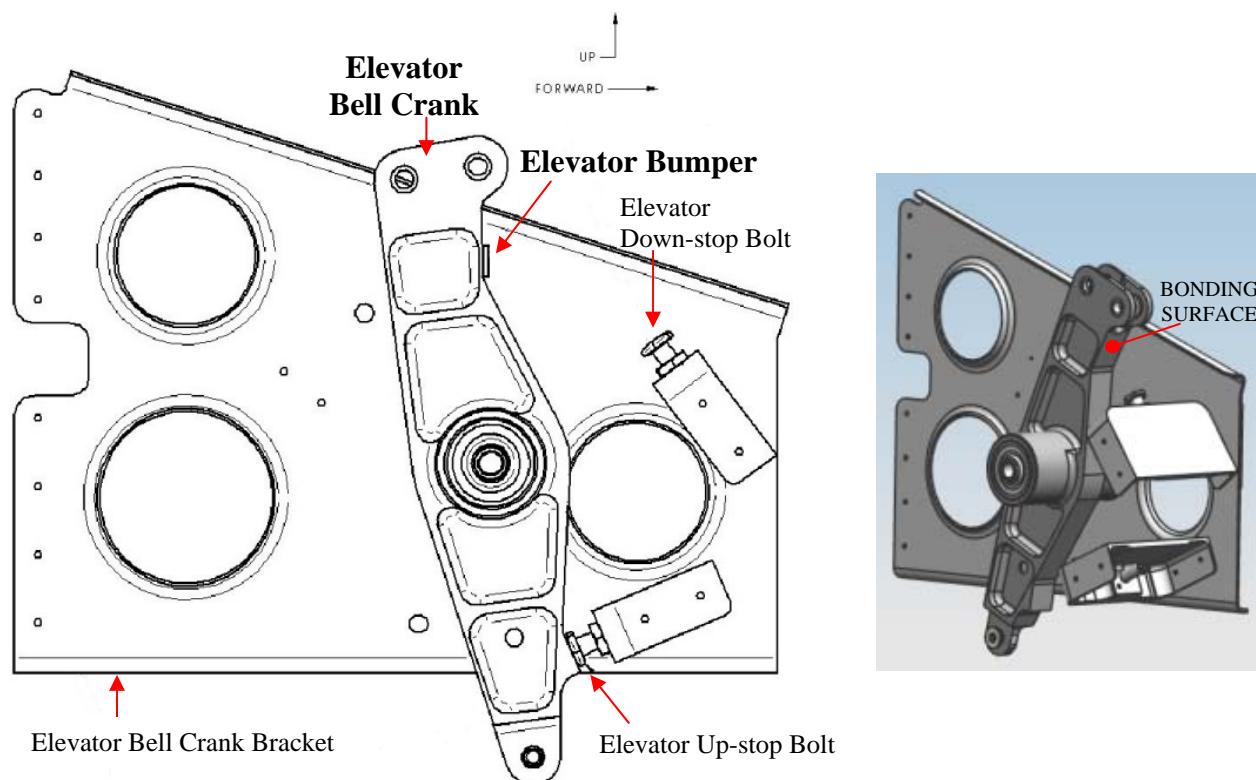


Figure 5-1: Elevator Stop Assembly

5.3 Attach the Bumper

Refer to **Figure 5-2** when attaching the bumper.

Bond the elevator down-stop bumper (P/N 100-618-0026) in place using Click Bond Acrylic Adhesive (P/N CB200) in accordance with the manufacturer's instructions.

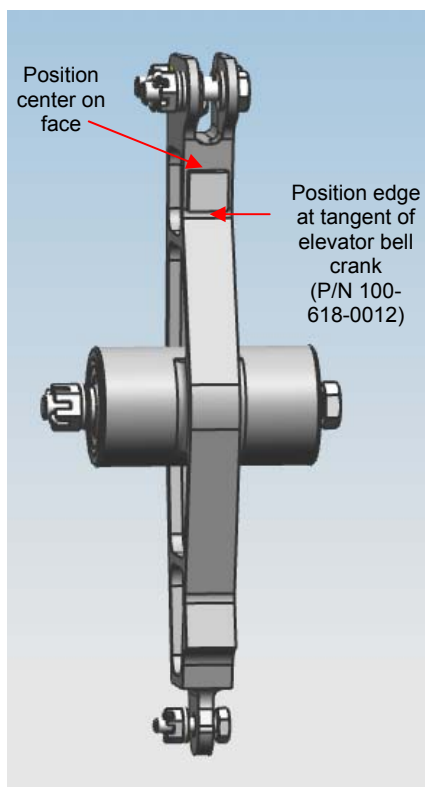


Figure 5-2: Bumper Attachment

5.4 Check the Elevator Travel Limits

Verify that the elevator travel limits are set correctly in accordance with the *KODIAK 100 Airplane Maintenance Manual*, Chapter 27.

6. Completion

1. Install the aft interior bulkhead.
2. Record all work performed in the appropriate maintenance log book.

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