

MANDATORY SERVICE BULLETIN**NUMBER:** SB12-07**REVISION:** 00**DATE:** September 26, 2012**SUBJECT:** EXTERNAL CARGO COMPARTMENT JACK POINT REMOVAL**EFFECTIVITY:**

KODIAK 100 Series Aircraft Serial Numbers: 100-0001 thru 100-0072 with External Cargo Compartments.

SUMMARY:

The attached Field Service Instruction provides guidance for the removal of the external cargo compartment jack points installed on aircraft with external cargo compartments prior to August 2012, and instructions for the use of new jack points.

COMPLIANCE:

This Mandatory Service Bulletin must be complied with on or before the next 100 Hour Inspection or Annual Inspection whichever comes first.

ATTACHED DOCUMENTS:

Document #:	Revision:	Document Title:
FSI-047	00	EXTERNAL CARGO COMPARTMENT JACK POINT REMOVAL

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 reimburse for the cost of this modification up to \$255.00. For reimbursement send Quest Aircraft Company a copy of the maintenance record, completed KODIAK 100 Warranty Claim Form, and an invoice that does not exceed the amount listed above.

Quest Customer Service**Service Bulletin: SB12-07****Phone: (208)263-1111 Toll Free: 1(866)263-1112****Email: Customercare@questaircraft.com****SPECIAL INSTRUCTIONS:**

N/A

MANDATORY SERVICE BULLETIN***MANDATORY SERVICE BULLETIN***



FIELD SERVICE INSTRUCTION

TITLE: External Cargo Compartment Jack Point Removal
SERIAL RANGE: 100-0001 thru 100-0072

JASC CODE: 1400

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REPORT NO.: FSI-047
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SUBJECT

This Field Service Instruction provides guidance for the removal of the external cargo compartment jack points installed on aircraft with external cargo compartments prior to August 2012, and instructions for the use of new jack points.

AFFECTED MANUALS AND PUBLICATIONS

AM902.0 *KODIAK 100 Aircraft Maintenance Manual*

INDUSTRY REFERENCES

None

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: 3 hours

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 aircraft 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



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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	100-420-1123	2	Jack Point	N/A	N/A
2-1-2	MS24665-285	4	Cotter Pins	N/A	N/A
2-1-3	100-910-0114	2	Placard ¹	N/A	N/A

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

Table 2-2: Consumables Included in the Service Kit

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

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	3	Standard Aircraft Jacks	N/A	N/A

3. General

This field service instruction provides the procedures for the removal of the installed jack points (P/N 100-420-1120) that are secured to the main landing gear trunion, as well as the instructions for the use of the new external cargo compartment jack points (P/N 100-420-1123).

4. Preparation

Remove the main landing gear fairings on both sides of the aircraft in accordance with the *KODIAK 100 Maintenance Manual*, Chapter 32.

5. Instructions

Sections 5.1 through Section 5.3 should be completed on both sides of the aircraft.

5.1 Modification of the External Cargo Compartment Jack Point Opening

▲ NOTE ▲

It is permissible to remove a small amount of material around the jack point opening in the external cargo compartment. The steps listed in Section 5.1 should only be completed if necessary to remove the jack points.

1. In order to remove the jack points, the material around the external cargo compartment may be removed up to the limits shown in Figure 5-1.
2. If it is not necessary to remove any material around external cargo compartment jack point openings, proceed to Section 5.2.

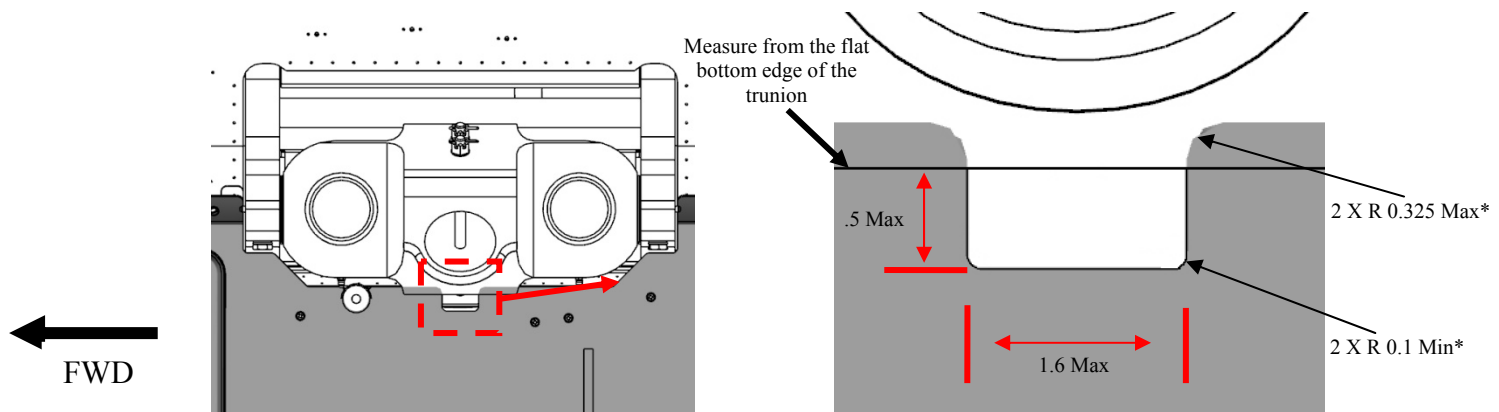


Figure 5-1: Optional External Cargo Compartment Modification

▲ NOTE ▲

The modifications shown above illustrate the maximum allowable modifications limits. Remove only the amount of material needed to obtain access to remove the jack points.

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5.2 External Cargo Compartment Jack Point Removal

1. Remove the two (2) cotter pins, two (2) washers, and two (2) castle nuts securing the jack point (P/N 100-420-1120) to the trunion.
2. Remove the jack point from the aircraft and discard.

5.3 Hardware Installation

1. Reinstall the two (2) washers and two (2) castle nuts.
2. Torque the castle nuts to 270 – 300 in-lb.
3. Install two (2) new cotter pins.

5.4 Placard Installation

1. Remove the protective backing on the placard (P/N 100-910-0114) and position as shown in **Figure 5-3** on both sides of the aircraft.

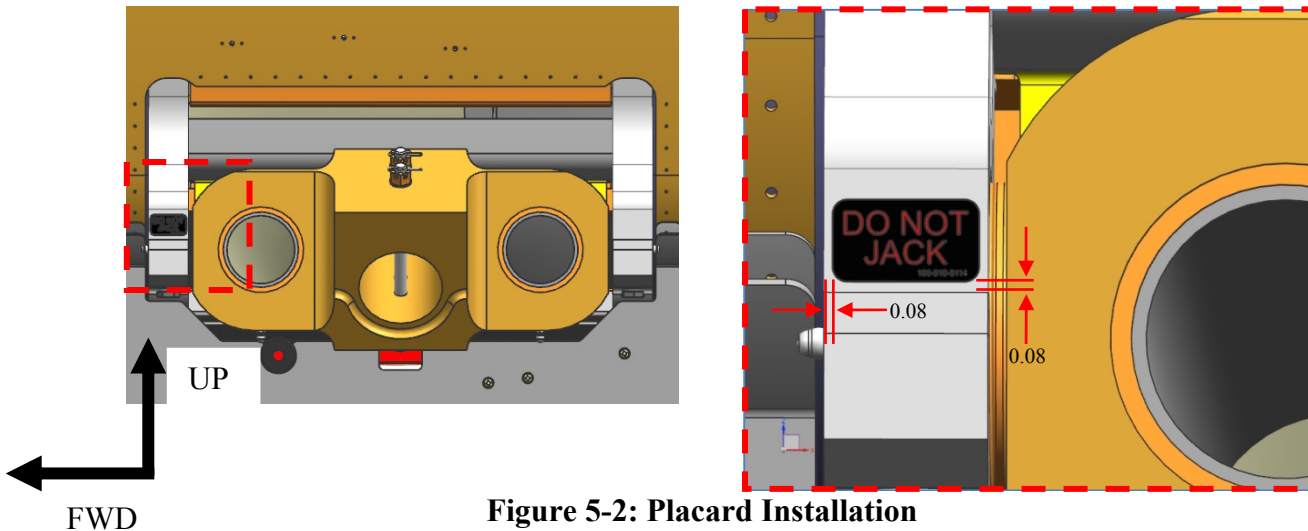


Figure 5-2: Placard Installation

5.5 Jacking Procedures (Aircraft with External Cargo Compartment)

⚠ CAUTION ⚠

The instructions listed below for the jacking of the aircraft equipped with the external cargo compartment must be followed until the information contained within this Field Service Instruction is incorporated into the *KODIAK® 100 Maintenance Manual*.

⚠ NOTE ⚠

The new external cargo compartment jack points are designed to fit a standard jack head, and must be removed prior to flight.

⚠ WARNING ⚠

The jack point mounting location is designed to be located aft of the trunion. Lifting the aircraft with the jack point (P/N 100-420-1123) in any location other than that illustrated in **Figure 5-3** may cause damage to the aircraft, or possible injuries to maintenance personnel.

5.5.1 Jacking Instructions

1. Remove the main landing gear fairings in accordance with the *KODIAK® 100 Maintenance Manual*, Chapter 32.
2. Position a jack point (P/N 100-420-1123) onto the head of a standard aircraft jack for each side of the main landing gear.

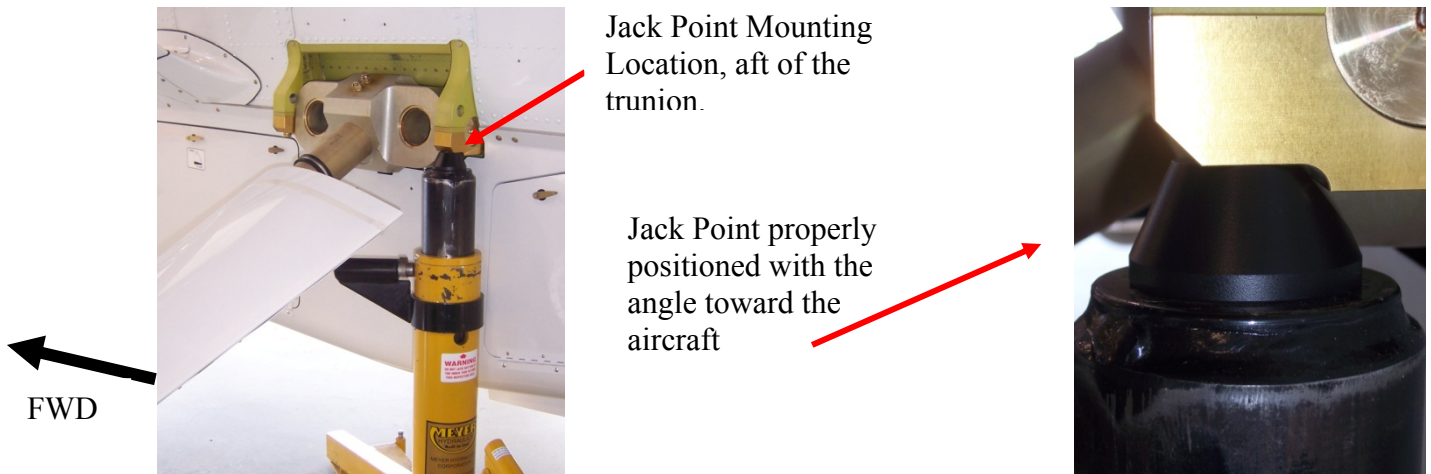


Figure 5-3: Jack Point Mounting Location

3. Position a jack under the forward pod jack point illustrated in **Figure 5-4**.

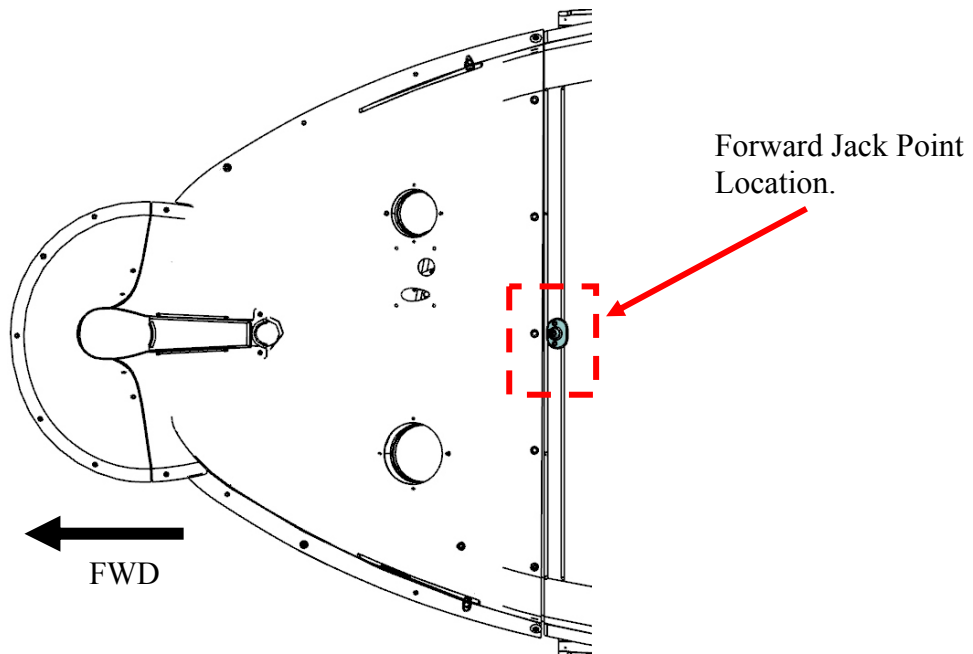


Figure 5-4: Forward Jack Point Location



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4. Raise the three (3) jacks until the jack points are correctly positioned under the jack point mounting locations shown in **Figure 5-3** and **Figure 5-4**.
5. Simultaneously raise all three (3) jacks, ensuring that the aircraft is level as the tires clear the ground.
6. Position the tail stand under the tail tie-down for additional security.

5.5.2 Lowering the Aircraft Instructions

1. Ensure that all tools, equipment, and personnel are clear of the aircraft.
2. If installed, disconnect the tail stand from the tail tie-down and remove the stand from the area.
3. Lower all three (3) jack simultaneously.
4. Remove the jacks from under the aircraft.
5. Reinstall the main landing gear fairings in accordance with the *KODIAK[®] 100 Aircraft Maintenance Manual*, Chapter 32.

6. Completion

1. If not previously installed, reinstall the main landing gear fairings on both sides of the aircraft in accordance with the *KODIAK[®] 100 Aircraft Maintenance Manual*, Chapter 32.
2. Upon completion, record all work performed in the appropriate maintenance records.

---END---