

**\*MANDATORY SERVICE BULLETIN\*****NUMBER:** SB14-01**REVISION:** 00**DATE:** February 11, 2014**SUBJECT:** EXTERNAL CARGO COMPARTMENT DRAIN HOLES**EFFECTIVITY:**

KODIAK® 100 Series Aircraft Serial Numbers: 100-0001 thru 100-00102 with External Cargo Compartments.

**SUMMARY:**

The accompanying Field Service Instruction provides instruction for inspecting the external cargo compartment (ECC) for drain holes, documenting the findings, and drilling drain holes if they are not present.

**COMPLIANCE:**

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

**ATTACHED DOCUMENTS:**

Document #:	Document Title:
FSI-092	EXTERNAL CARGO COMPARTMENT DRAIN HOLES

**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:**

For aircraft under factory warranty, Quest will reimburse labor costs up to \$42.50 for the inspection portion of this bulletin, and up to \$42.50 for the drilling portion of this bulletin, should it be required.

**Quest Customer Service****Service Bulletin: SB14-01****Phone: (208)263-1111 Toll Free: 1(866)263-1112****Email: [Customerservice@questaircraft.com](mailto:Customerservice@questaircraft.com)****SPECIAL INSTRUCTIONS:**

N/A



**FIELD SERVICE INSTRUCTION**  
TITLE: External Cargo Compartment Drain Holes  
SERIAL RANGE: Cargo Pod SN 00003 thru 00046  
JASC CODE: 2550

PAGE: 1 of 10  
REPORT NO.: FSI-092  
REVISION: 00

**SUBJECT**

This Field Service Instruction provides instruction for inspecting the external cargo compartment (ECC) for drain holes, documenting the findings, and drilling drain holes if they are not present.

**AFFECTED MANUALS AND PUBLICATIONS**

None

**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:**

**Inspection only: .5 hours**

**Inspection and drilling: 1.0 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 maintenance records
- Complete **Attachment A-1**, External Cargo Compartment (ECC) Inspection, and submit to Quest Aircraft Company
- Ensure the KODIAK® 100 Pilot’s Operating Handbook/Airplane Flight Manual is up-to-date with the current revision
- Ensure the KODIAK® 100 Airplane Maintenance Manual is up-to-date with the current revision

QUEST Aircraft Company, LLC  
1200 Turbine Drive  
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**▲ DISCLAIMER ▲**

*The instructions / procedures presented herein are based upon the systems and components of the aircraft when it was delivered from the factory, or as modified by Quest Service Bulletins. Third-party modifications that have affected any component, system, or operating characteristic discussed by this document may invalidate the instructions / procedures provided. Before performing the instructions / procedures herein, examine all Supplemental Type Certificate (STC), Supplemental Type Authority (STA), or equivalently authorized modifications to verify that the instructions/procedures presented in this document can be properly completed. If an aircraft has an STC, STA, or equivalently authorized modification that affects any component, system, or operating characteristic also affected by this document, the operator is responsible for obtaining appropriate regulatory approval before performing the instructions / procedures herein. Quest Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this document.*

*If you have any questions as to the applicability of this document to your specific aircraft, contact Quest Customer Service by telephone at (208) 263-1111, toll-free at (866) 263-1112, or via email at CustomerService@QuestAircraft.com*



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APPLICABLE TO AIRCRAFT: Cargo Pod SN 00003 thru 00046

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### REVISION RECORD

REV	PAGE	CHANGE DESCRIPTION
00	All	Initial Release



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External Cargo Compartment (ECC) INSPECTION ..... A-1



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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	N/A	–	N/A	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	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	N/A	–	Drill bit, 3/16" (.188")	N/A	N/A



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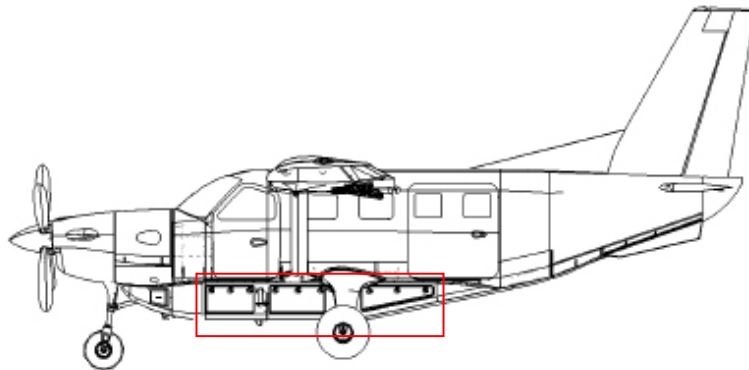
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### 3. General

This Field Service Instruction begins with an inspection of the external cargo compartment (ECC) to determine if it has the required drain holes. Documentation, signed by the Airframe and Powerplant Mechanic (A&P) or certified aviation technician who performs the inspection, is required.

The complete instructions for inspecting, documenting, and drilling holes if necessary begin at **Section 4.0**.



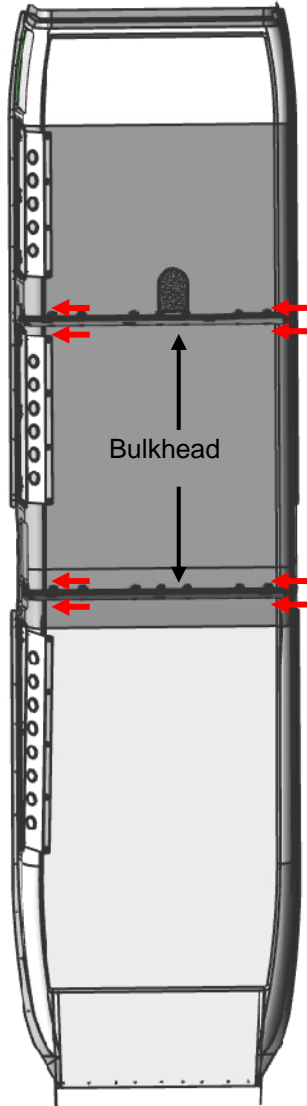
**Figure 3-1: External Cargo Compartment**

### 4. Preparation

Inspect the external cargo compartment (ECC) to determine if it has eight drain holes in the positions shown in **Figure 4-1**.

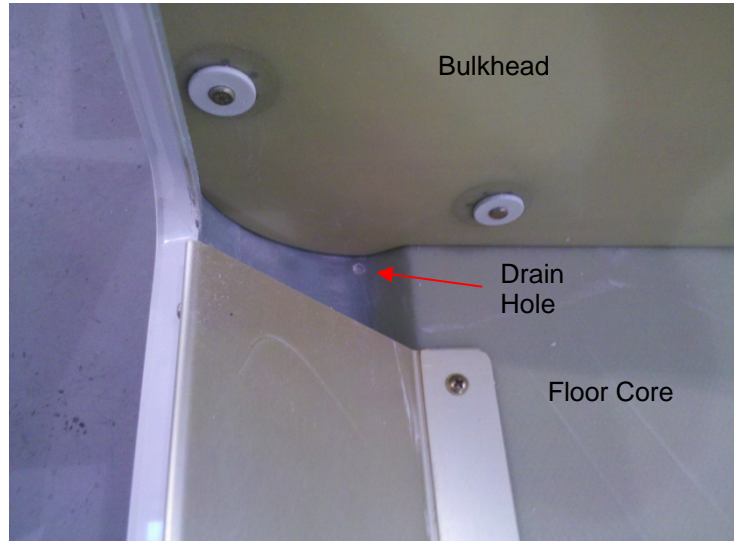
#### ▲ NOTE ▲

**Figure 4-1** shows an uninstalled ECC. The procedures may be performed with the ECC either installed on the airplane or uninstalled.



ECC shown uninstalled and from above

↑  
FWD



**Figure 4-1: Drain Holes**



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If the ECC **DOES NOT** have eight drain holes as shown in **Figure 4-1**:

1. Complete **Section 5** and **Section 6** of this Field Service Instruction.
2. Complete Part A and Part B of **Attachment A-1**.
3. Submit **Attachment A-1** to Quest Aircraft as shown on the attachment.

If the ECC **DOES** have eight drain holes as shown in **Figure 4-1**:

1. Complete **Section 6.0** of this Field Service Instruction.
2. Complete Part A and Part C of **Attachment A-1**.
3. Submit **Attachment A-1** to Quest Aircraft as shown on the attachment.

### ▲ NOTE ▲

If other anomalies are found, describe them in the Notes section of **Attachment A-1**. Examples include plugged drain holes or a total drain hole count of more than or less than eight holes.

## 5. Instructions

### 5.1 Add Drain Holes

#### ▲ CAUTION ▲

Do not drill into the floor core of the ECC.

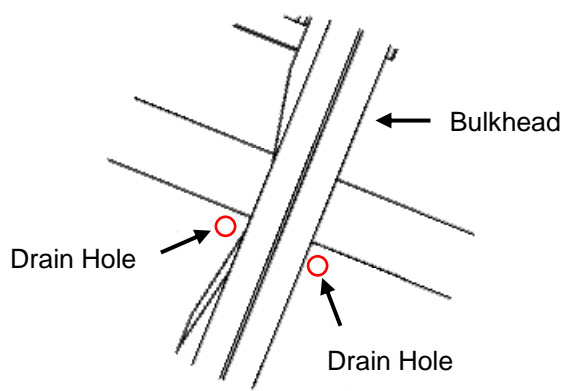
#### ▲ CAUTION ▲

Do not damage the bulkhead while drilling.

Drill eight drain holes in the positions shown in **Figure 4-1**, as follows:

- Tangent to the bulkhead base and floor core edge
  - Within 0.5 inch from the bulkhead
  - Final diameter: 0.188 inch, tolerance +.060/-.010
1. Begin each hole as an angled pilot hole drilled from the inside of the ECC (**Figure 5-1**).
  2. Finish the drilling from the outside of the ECC (**Figure 5-2**).





**Figure 5-1: Drill Pilot Hole Inside**



**Figure 5-2: Finish Drilling Outside**



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3. Using 180 □ 220 grit sandpaper, deburr the drain holes to remove any fibers or foreign object debris.

### 6. Completion

1. Record all work performed in the appropriate maintenance records.
2. Proceed to **Attachment A-1** and provide documentation to Quest Aircraft of inspection or work performed.

---END---



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**FIELD SERVICE INSTRUCTION**

TITLE: External Cargo Compartment Inspection Form  
APPLICABLE TO AIRCRAFT: Cargo Pod SN 00003 thru 00046 JASC CODE: 2550

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**External Cargo Compartment (ECC) INSPECTION**

**Part A** **Date:** \_\_\_\_\_

**Airplane Serial Number:** \_\_\_\_\_

**Airplane Total Time:** \_\_\_\_\_

**ECC Serial Number:** \_\_\_\_\_

**Part B**

I have inspected the ECC and determined that it **DOES NOT** have eight drain holes required in accordance with Quest Field Service Instruction FSI-092.

I have added eight drain holes to the ECC in accordance with Quest Field Service Instruction FSI-092.

**Name (print):** \_\_\_\_\_

**Name (sign):** \_\_\_\_\_  
*Airframe and Powerplant Mechanic or certified aviation technician*

**Part C**

I have inspected the ECC and determined that it **DOES** have eight drain holes required in accordance with Quest Field Service Instruction FSI-092.

**Name (print):** \_\_\_\_\_

**Name (sign):** \_\_\_\_\_  
*Airframe and Powerplant Mechanic or certified aviation technician*

**Notes**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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