

**\*MANDATORY SERVICE BULLETIN\*****NUMBER:** SB12-02**REVISION:** 01**DATE:** April 24, 2013

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**SUBJECT:** COCKPIT FLOOR ACCESS PANEL INSTALLATION

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**EFFECTIVITY:**

KODIAK 100 Series Aircraft Serial Numbers: 100-001 through 100-0057

**SUMMARY:**

The accompanying Field Service Instruction provides guidance for the modification of the left hand cockpit floor panel, as well as the installation of a new floor access cover.

**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-030	01	COCKPIT FLOOR ACCESS PANEL INSTALLATION

**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 \$170.00 for aircraft still under factory warranty. 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: SB12-02****Phone: (208)263-1111 Toll Free: 1(866)263-1112****Email: [Customerservice@questaircraft.com](mailto:Customerservice@questaircraft.com)****SPECIAL INSTRUCTIONS:**

N/A

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



**FIELD SERVICE INSTRUCTION**

TITLE: Cockpit Floor Access Panel Installation  
SERIAL RANGE: 100-0001 through 100-0057  
JASC CODE: 5321

PAGE: 1 of 9  
REPORT NO.: FSI-030  
REVISION: 01

**SUBJECT**

This Field Service Instruction provides guidance for the modification of the left hand cockpit floor panel, as well as the installation of a new floor access cover.

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**AFFECTED MANUALS AND PUBLICATIONS**

None

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**INDUSTRY REFERENCES**

None

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**WEIGHT AND BALANCE**

Approximately -0.6 lb at FS 16.28.

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**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: 2 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.

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**RECORD OF COMPLETION**

Update the appropriate maintenance records.

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



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**FIELD SERVICE INSTRUCTION**

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**REVISION RECORD**

REV	PAGE	CHANGE DESCRIPTION
00	All	Initial Release
	All	Updated document to meet current style standards.
01	5	NOTE - WAS: "Aircraft serial numbers 100-0001 through 100-0045 that have not complied with Quest Mandatory Service Bulletin SB-033:" IS: "Aircraft serial numbers 100-0001 through 100-0044 that have not complied with Quest Mandatory Service Bulletin SB-033:"
	9	NOTE - WAS: "Aircraft serial numbers 100-0001 through 100-0045 that have not complied with Quest Mandatory Service Bulletin SB-033:" IS: "Aircraft serial numbers 100-0001 through 100-0044 that have not complied with Quest Mandatory Service Bulletin SB-033:"



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SERIAL RANGE: 100-0001 through 100-0057

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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	100-270-3560	1	Floor Access Cover Assembly	N/A	N/A
2-1-2	8RX1/2THBSS	1	Screw, Sheet Metal, Truss Head	N/A	N/A
2-1-3	A6162-8Z1D	1	Nut Plate	N/A	N/A
2-1-4	MS20426AD3-5	2	Countersunk Fasteners	N/A	N/A
2-1-5	NAS1097AD3-4	2	100° Flush, Sheer Head Rivet <sup>1</sup>	N/A	N/A

1: Fastener may not be required, refer to the applicable note on Page 6 for further details.

**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	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	N/A

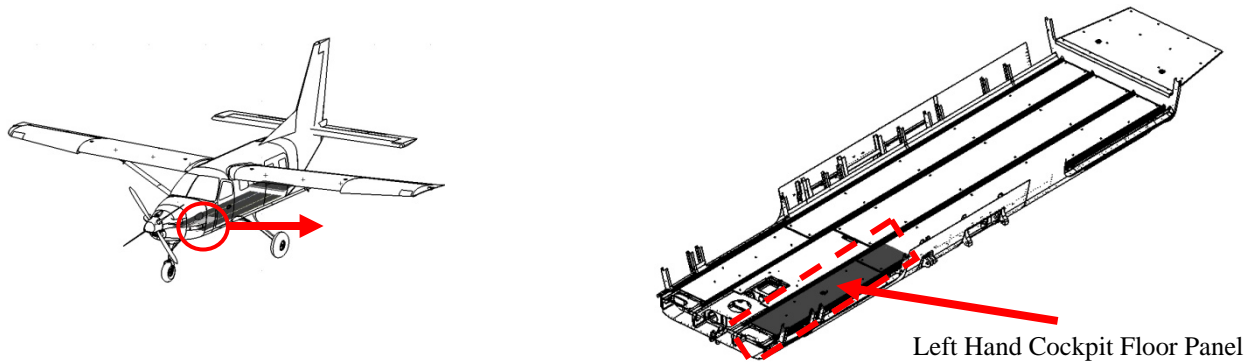
**Table 2-4: Parts and Tools NOT Included in the Service Kit**

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-4-1	Commercially Available	1	3/32 Countersunk Dimple Set	N/A	N/A
2-4-2	Commercially Available	1	#40 Drill Bit	N/A	N/A
2-4-3	Commercially Available	1	Deburring Tool	N/A	N/A
2-4-4	Commercially Available	1	Screw Driver Set	N/A	N/A
2-4-5	Commercially Available	1	100° Countersink Bit <sup>1</sup>	N/A	N/A

1: Tool may not be required, refer to the applicable note on Page 6 for further details.

### 3. General

This Field Service Instruction provides information for the modification of the left hand cockpit floor panel, and the installation of a new floor access cover.



**Figure 3-1: Floor Panel Identification**

### 4. Preparation

#### 4.1 Component Removal

1. Remove the aircraft seats as required to access the left hand cockpit floor panel in accordance with the *KODIAK 100 Maintenance Manual*, Chapter 25.
2. Remove the pilot's heel rest by removing the six (6) screws securing the heel rest into position.

**▲ NOTE ▲**

Aircraft serial numbers 100-0001 through 100-0044 that have not complied with Quest Mandatory Service Bulletin SB-033: In order to remove the pilot's heel rest, an additional two screws located on the inboard side of the heel rest must be removed.

3. If equipped, remove any carpet installed over the left hand cockpit floor panel shown in **Figure 3-1**.
4. Remove the left hand cockpit floor panel (P/N 100-770-1000 or 100-770-1010) shown in **Figure 3-1** by removing the rudder gust lock and hardware, as well as the eight (8) screws securing the panel into position.



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### 5. Instructions

#### 5.1 Subfloor Area Inspection

Inspect the exposed subfloor area for cleanliness. If any foreign objects are located within the subfloor area, remove the objects and inspect the components within the subfloor area for damage. If any damage is found, contact Quest Aircraft Company for further instructions.

#### 5.2 Nut Plate Removal

1. Remove the nut plate indicated in **Figure 5-1** by drilling out the rivets using a #40 drill bit.
2. Deburr the two side holes indicated in **Figure 5-1**.

#### ⚠ CAUTION ⚠

Failing to properly deburr both holes may result in damage to the subfloor.

#### 5.3 Fastener Determination and Nut Plate Installation

Using a 3/32 dimple set, verify that the intercostal is not impacted by the dimple set. If there is clearance, and the intercostal will not be damaged by dimpling, proceed to **Section 5.3.1**. However, if the dimple set interferes with the intercostal, proceed to **Section 5.3.2**

##### 5.3.1 Type Design Approach

1. Using a 3/32 dimple set, dimple the subfloor in the locations where the two (2) MS20426AD3-5 countersunk fasteners will be installed, as indicated in **Figure 5-1**.

#### ⚠ CAUTION ⚠

Use caution while dimpling the subfloor as to not damage the intercostal, which is located in close proximity to the nut plate installation location.

2. Perform a detailed visual inspection of the subfloor around the dimple locations to ensure no cracking or other damage has occurred during the modification process. If any damage is found, contact Quest Aircraft Company for further instructions.
3. Using two (2) MS20426AD3-5 countersunk fasteners, install the new countersunk nut plate (P/N A6162-8Z1D) into the same location as the nut plate removed in **Section 5.2, Step #1**. Proceed to **Section 5.4**.

##### 5.3.2 Alternate Method

1. Using a 100° countersink bit, countersink the subfloor in the location where the two (2) NAS1097AD3-4 fasteners will be installed to  $\varnothing$  0.166 – 0.176 in.
2. Perform a detailed visual inspection of the subfloor around the countersunk locations to ensure no cracking or other damage has occurred during the modification process. If any damage is found, contact Quest Aircraft Company for further instructions.



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- Using the two (2) NAS1097AD3-4 100° flush shear head rivets, install the new countersunk nut plate (P/N A6162-8Z1D) into the same location as the nut plate removed in **Section 5.2, Step #1**. Proceed to **Section 5.4**.

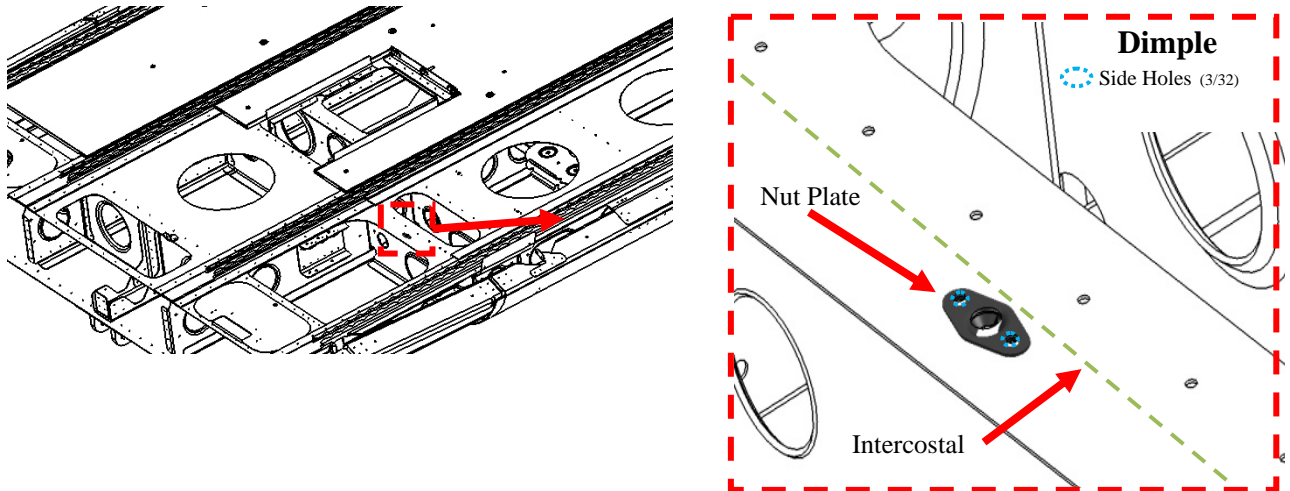


Figure 5-1: Nut Plate Removal

## 5.4 Left Hand Cockpit Floor Panel Modification

### ⚠ CAUTION ⚠

In the following steps ensure that all measurements are taken from the aft side of the floor panel, and any removed portion of the floor panel is taken from the fwd end.

The left hand cockpit floor panel must be modified in order to provide clearance for the installation of the new floor access cover.

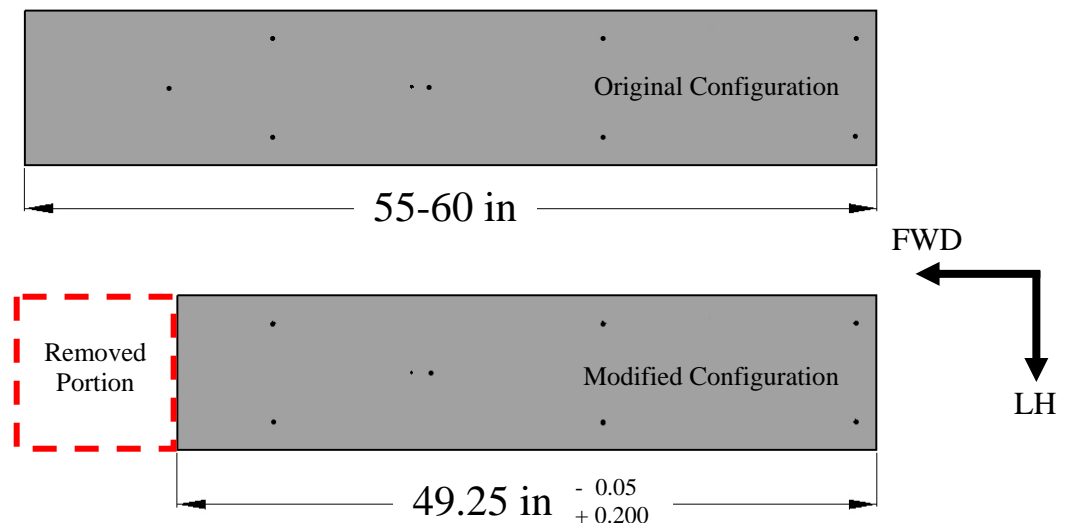


Figure 5-2: Floor Panel Modification

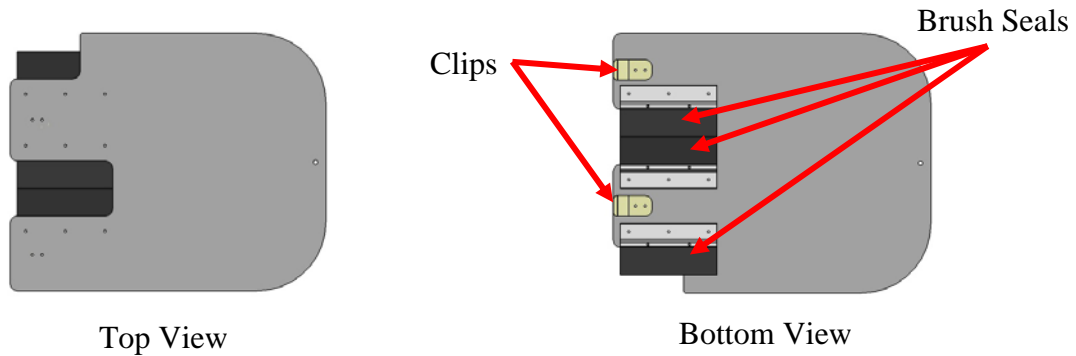
- From the aft end of the floor panel, measure and mark the left hand cockpit floor panel as shown in **Figure 5-2**.



2. Cut the indicated area of the left hand cockpit floor panel, off of the fwd end of the cockpit floor panel, at the mark created in **Step #1** above.
3. Remove all burrs, and sand all sharp edges from the modified area of the floor panel.

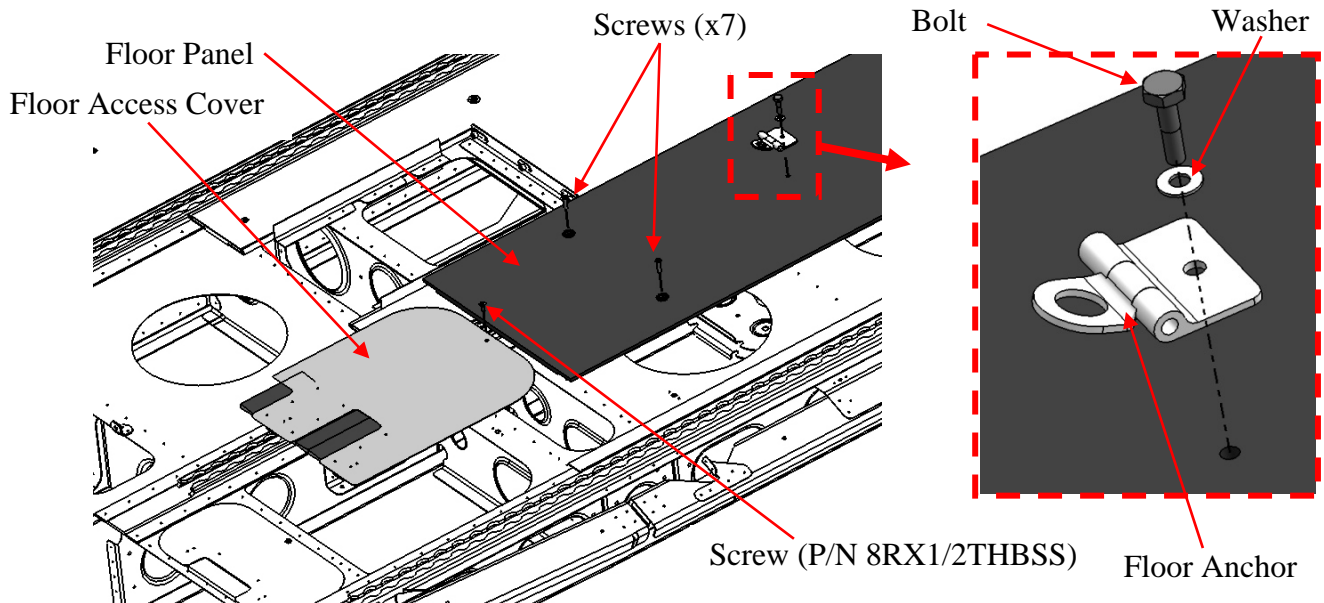
### 5.5 Floor Access Cover and Left Hand Cockpit Floor Panel Installation

The floor access cover (P/N 100-270-3560) is designed with brush seals that closely fit around the rudder pedal arms, preventing sizeable foreign objects from falling into the subfloor area. The floor access cover is secured into position through the use of clips and a screw.



**Figure 5-3: Floor Access Cover**

1. Position the floor access cover (P/N 100-270-3560) around the rudder pedal arms, ensuring that the clips on the bottom of the floor access cover are fully engaged, securing the front of the floor access cover. Using the new screw (P/N 8RX1/2THBSS), secure the aft end of the floor access cover.
2. Position and secure the left hand cockpit floor panel (P/N 100-770-1000 or 100-770-1010) using seven (7) of the screws removed in **Section 4.1 #4**, discarding the remaining screw. Position and secure the floor anchor using the bolt removed in **Section 4.1 #4**. Refer to **Figure 5-4**.



**Figure 5-4: Floor Panel Installation**

**▲ NOTE ▲**

Over-tightening the bolt securing the floor anchor into position may cause damage to the subfloor skin of the aircraft. Tighten the floor anchor bolt to snug + ½ turn.

**5.6 Operational Check**

Depress each rudder pedal to its full extent. Ensure that the metal portions of the rudder pedals and the floor access cover do not rub or chafe one another. Make adjustments as necessary to eliminate any rubbing or chafing. If sufficient adjustments to eliminate rubbing or chafing cannot be made, contact Quest Aircraft Company for further instructions.

**5.7 Reinstall Components**

1. If equipped, reinstall any carpet removed in **Section 4.1 #3**.
2. Position and secure the pilot's heel rest using the six (6) screws removed in **Section 4.1 #2**.

**▲ NOTE ▲**

Aircraft serial numbers 100-0001 through 100-0044 that have not complied with Quest Mandatory Service Bulletin SB-033: In order to install the pilot's heel rest, an additional two screws located on the inboard side of the heel rest must be installed.

3. Reinstall any aircraft seats removed in **4.1# 1**, in accordance with the *KODIAK 100 Maintenance Manual*, Chapter 25.

**6. Completion**

**▲ NOTE ▲**

The left hand crew floor board may now be removed from the aircraft without removing the pilot's heel rest.

1. Upon completion, record all work performed in the appropriate maintenance records.

---END---