

**\*MANDATORY SERVICE BULLETIN\***

**NUMBER:** SB-013

**DATE:** 6/12/09

**SUBJECT:** ELECTRICAL SYSTEM; GENERATOR CIRCUIT BREAKER CHECK PROCEDURE

**SUMMARY**

**RECURRENT REQUIREMENTS**

No recurrent requirements associated with this Mandatory Service Bulletin.

**BACKGROUND**

Quest is requiring a one-time check procedure of the generator circuit breaker. This procedure will determine whether or not the generator circuit breaker is functioning properly. If the generator circuit breaker is not functioning properly, a re-wire of the circuit breaker may be required.

**NOTE:** This 10 Amp breaker provides pilot resettable circuit protection for the generator system. This electrical circuit is also protected by a non-pilot resettable 15 Amp circuit breaker, located in the engine compartment. This 15 Amp breaker protects the generator circuit even if the 10 Amp generator circuit breaker is not operating correctly.

**ACTION**

Perform the procedure of checking the generator circuit breaker according to the attached work instructions. The check procedure will determine whether or not re-wiring of the generator circuit breaker may be required.



**Figure 1:** Generator Circuit Breaker

**EFFECTIVITY**

KODIAK 100 Series Aircraft, Serial Numbers 100-0001 through 100-0012

**AFFECTED PARTS**

KODIAK PART AFFECTED:

- *MS3320-10*

REPLACEMENT PART FOR AIRCRAFT RECORDS:

- *N/A*

**COMPLIANCE**

This Mandatory Service Bulletin must be completed at earliest convenience or no later than the next 10 flight hours, whichever comes first.

**INDUSTRY SUPPORT INFORMATION**

None

**MANPOWER**

The instructions contained in this Service Bulletin will take approximately .25 hours to complete the inspection. If re-wire is required, an additional 1.5 hours required.

**COMPLETION**

Update the KODIAK Maintenance Log Books.

**WARRANTY INFORMATION**

This modification is warranty reimbursable for the manpower listed above after Quest Aircraft has been notified of your completion.

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Generator Circuit Breaker Check Procedure

## **PROCEDURE INSTRUCTIONS**

## 1.1 Overview

This document provides instructions of how to check the generator circuit breaker, and how to re-wire if wired incorrectly.

**Estimated Time to Complete:** .25 hours to complete the inspection. If re-wire is necessary, an additional 1.5 hours are required.


## 1.2 Parts Included in the Service Kit:

Part Number	Description	Quantity
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## 1.3 Tools Required:

Tool Name	Tool Duty
Phillips Screw Driver	For removing the circuit breaker panel and removing and re-installing the wire terminals. (If needed)

## Generator Circuit Breaker Check Procedure

Task	Instruction	Visual
1	<p>Start the engine using the procedures defined in the Kodiak Pilot's Operating Manual.</p> <p>With the engine running and the generator switch <b>ON</b>, pull the <b>10 Amp</b> generator circuit breaker. (Located on the upper right corner of the circuit breaker panel, labeled "GEN".)</p>	
2	<p>With the generator circuit breaker pulled, if "<b>GEN FAIL</b>" annunciation is displayed on the PFD, then the generator circuit breaker is wired correctly. Reset the generator circuit breaker and verify "<b>GEN FAIL</b>" annunciation extinguishes. No further action is required. Note compliance with this Service Bulletin in the Kodiak Log Books.</p> <p>If "<b>GEN FAIL</b>" annunciation is not displayed with the generator circuit breaker pulled, continue to <b>step 3</b>.</p>	

Remove screws located at arrows



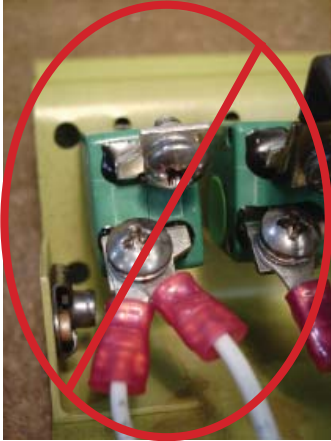
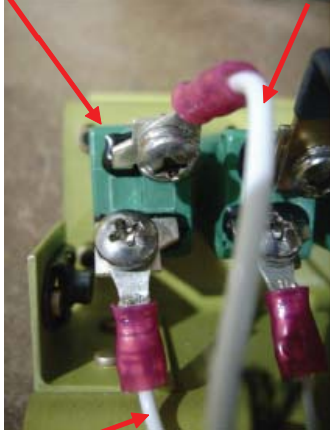
Shut down the engine and turn all electrical switches off. Disconnect both batteries.

3

Remove the circuit breaker panel by removing the forward middle floor panel and then extracting the 12 screws that secure the circuit panel in place. (3 located on the sides, 3 on the top, and 3 on the bottom.)

4

Locate the generator circuit breaker on the back of the circuit breaker panel

<p>5</p>	<p>Locate the two wires labeled <b>PG099</b> and <b>PG599</b> that are connected to the generator circuit breaker. Remove the screws that secure the wire terminals to the generator circuit breaker and reconnect as shown in <b>figure 2</b>. Ensure that the lock washers are re-installed.</p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>FIG. 1</p>  <p>Incorrect</p> </div> <div style="text-align: center;"> <p>Generator Circuit Breaker</p> <p>FIG. 2</p>  <p>PG099</p> <p>Up</p> <p>PG599</p> <p>Correct</p> </div> </div>
<p>6</p>	<p>Reinstall the circuit breaker panel and the floor panel. Reconnect the batteries.</p> <p>Test the circuit breaker again by repeating steps 1 and 2 of this procedure.</p>	
<p>7</p>	<p>Note compliance with this Service Bulletin in the Kodiak 100 Log books.</p>	