

MANDATORY SERVICE BULLETIN

NUMBER: SB-034
REVISION: 00
DATE: 12/09/2010

SUBJECT: FATIGUE; AFT FUSELAGE CANTED FRAME SHEAR CLIP INSTALLATION

EFFECTIVITY:

KODIAK 100 Series Aircraft Serial Numbers:

- **100-0001 through 100-0005**

Prior to reaching 5,000 flight hours contact Quest Aircraft to schedule the following:

1. Replace part 100-240-2011 with part 100-240-2015
2. Install Doubler per Service Bulletin (**SB-028 Fatigue; Aft Fuselage Rivet Inspection**)
3. Install shear clip per Field Service Instruction (**FSI-019 AFT Fuselage ; Canted Frame Shear Clip Installation**). **SB-028** must be complied with prior to or completed concurrently with **FSI-019**.

- **100-0006 through 100-0036**

Prior to reaching 1,000 flight hours accomplish the following:

1. Install doubler per Service Bulletin (**SB-028 Fatigue; Aft Fuselage Rivet Inspection**)

Prior to reaching 1,250 flight hours accomplish the following:

2. Install shear clip per Field Service Instruction (**FSI-019 AFT Fuselage; Canted Frame Shear Clip Installation**). **SB-028** must be complied with prior to or completed concurrently with **FSI-019**.

- **100-0037 through 100-0046**

Prior to reaching 1,250 flight hours accomplish the following:

1. Install shear clip per Field Service Instructions (**FSI-019 AFT Fuselage; Canted Frame Shear Clip Installation**).

SUMMARY:

During recent KODIAK fatigue testing, a shear clip has been shown necessary to improve the fatigue characteristics of the canted bulkhead and associated structure. This Service Bulletin outlines a structural modification to be completed in accordance with the compliance time frame listed below. A Field Service Kit (**FSI-019, AFT FUSELAGE Canted Frame Shear Clip Installation**) will be supplied at no charge from Quest Aircraft. Contact Quest Aircraft Customer Service for kit availability.

ACTION:

Quest Aircraft Company LLC mandates the installation of a canted frame shear clip in the AFT fuselage in accordance with **FSI-019 (AFT FUSELAGE Canted Frame Shear Clip Installation)**.

FAA APPROVED:

The resultant alteration to the AFT fuselage described in Field Service Instructions (**FSI-019 AFT Fuselage; Canted Frame Shear Clip Installation**) has shown compliance with the applicable Federal Aviation Regulations and is FAA Approved.

COMPLIANCE:

This Service Bulletin may be complied with as convenient for the owner/operator but must be completed prior to exceeding the airframe hours listed in this Service Bulletin. Service Bulletin (**SB-028 FATIGUE; AFT Fuselage Rivet Inspection**) must be complied with prior to, or be completed in concurrence with this Service Bulletin.

INDUSTRY SUPPORT INFORMATION:

N/A

WEIGHT AND BALANCE:

Negligible

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CREDIT and WARRANTY INFORMATION:

Quest Aircraft Company LLC will reimburse for the cost of this modification up to \$150.00 for aircraft still under Factory Warranty. For reimbursement, send Quest Aircraft Company LLC a copy of the maintenance records recording the completion of the work performed along with the N-number or foreign registration number and total time of the aircraft on which the modification was accomplished. Send the information to the attention of:

Quest Customer Service
Service Notification Compliance Feedback
1200 Turbine Dr.
Sandpoint ID, 83864

COMPLETION:

Update the Airframe Log Book with compliance to SB-034 by the installation of canted frame shear clip and doubler (as required) in accordance with the instructions in Field Service Instruction (**FSI-009 AFT FUSELAGE DOUBLER INSTALLATION**).

ACCOMPLISHMENT INSTRUCTIONS:

Refer to FSI-019 (*Canted Frame Shear Clip Installation*).

MANPOWER:

The instructions contained in Field Service Instruction (**FSI-019 AFT FUSELAGE; CANTED FRAME SHEAR CLIP INSTALLATION**) will take approximately:

- 2 hours (for canted frame shear clip installation)

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