MANDATORY SERVICE BULLETIN

NUMBER: SB11-13

REVISION: 01

DATE: Sep 14, 2011

SUBJECT: Horizontal Attach Fitting Aft Spar Inspection

EFFECTIVITY:
100-0001 through 100-0047

SUMMARY:
Fretting damage between the horizontal stabilizer aft attach fitting and the aft spar, in addition to looseness of the Hi-Lok fasteners was found on one Kodiak with approximately 700 flight hours. Through further investigation, it is believed that other aircraft in the fleet may have similar damage.

ACTION:
Perform the inspection detailed on the service bulletin attachment Horizontal Attach Fitting Aft Spar Inspection Procedures.

COMPLIANCE:
This Mandatory Service Bulletin must be completed within 10 flight hours of the receipt of this Service Bulletin.

ATTACHED DOCUMENTS:

Document #:	Date:	Document Title:
N/A	09/14/2011	Horizontal Attach Fitting Aft Spar Inspection Procedure

INDUSTRY SUPPORT INFORMATION:
N/A

CREDIT AND WARRANTY INFORMATION:
Quest Aircraft Company will reimburse for the cost of this modification up to $75.00 for aircraft still under factory warranty. For reimbursement send Quest Aircraft Company a copy of the modification record and serial number of the aircraft on which the modification was completed.
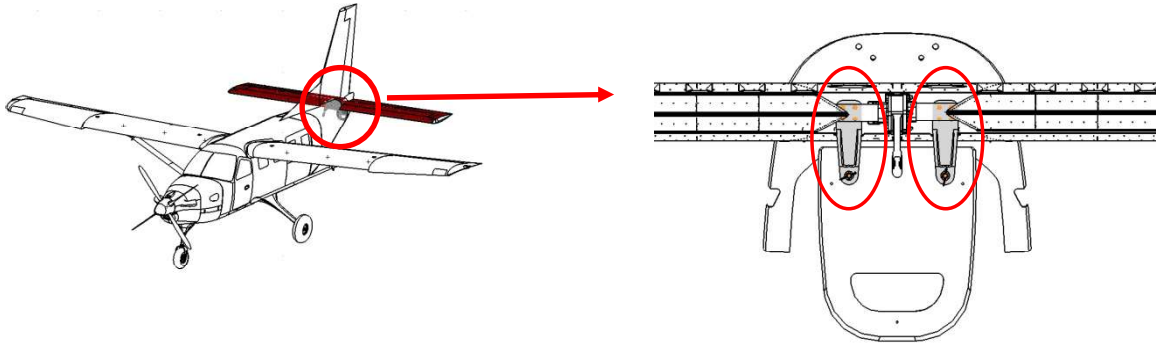
Quest Customer Service
Service Bulletin: SB11-13
Phone: (208)263-1111 Toll Free: 1(866)263-1112
Email: Customercare@questaircraft.com

SPECIAL INSTRUCTIONS:
See attached sheets

MANDATORY SERVICE BULLETIN

Inspection Area:

Estimated Manhours: 1 Hour

Inspection Instructions:

1. Remove the tailcone fairing from the aircraft to gain access to the aft spar attach fittings.
2. On the aft side of the horizontal spar perform the following:

> ⚠ **NOTE** ⚠
>
> Ensure the inspection area is properly lighted, noise levels are maintained at a minimal level, and proper tools are used to assist in the inspection process.

   2.1. Perform a preliminary visual inspection of the general area for cleanliness, presence of foreign objects, deformed or missing fasteners, security of fasteners, security of the attach brackets, corrosion, or damage.

   2.2. Inspect the fasteners for general security by attempting to rotate each fastener by hand.

   2.3. Inspect along the outside edges of the attach fittings for evidence of aluminum dust or shavings as shown in the image below.

Examples of damage found on an aircraft.
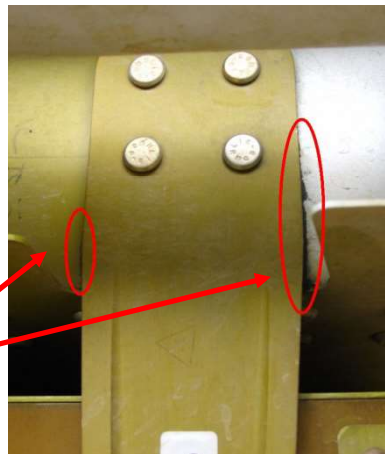
2.4. Inspect around each fastener head for evidence of aluminum dust or shavings.

Aluminum Dust

2.5. Using a feeler gauge, inspect for a gap between the Hi-Lok heads and the attach fittings.

2.5.1. A .002" feeler gauge should be placed about the entire circumference of the fastener head. The gauge may not go under the head of the fastener about the entire circumference. Local gaps up to .004 are acceptable. If the gap under the head is greater than or equal to.002" about the entire circumference or local areas have a gap greater than .004", contact Quest Aircraft Company prior to further flight.

2.5.2. If the attach fittings are painted and you are unable to measure the gap under the head of the fastener, inspect for cracked or chipped paint in the local area. If either is found, contact Quest Aircraft Company for instructions.

2.5.3. In the image shown below, the aft attach fitting has been removed from the aircraft. Note that the fastener is fully seated in the hole, yet a gap exists between the head of the fastener and aft attach fitting. This condition should be inspected for and problems reported to Quest Aircraft Company prior to further flight.

Gap between the fastener and attach fitting.

SERVICE BULLETIN ATTACHMENT

PAGE: 3 of 3

TITLE: Horizontal Attach Fitting Aft Spar Inspection Procedure

PARENT DOCUMENT: SB11-13

JASC CODE: 5514

QUEST
AIRCRAFT COMPANY

3. Inspect the forward (inside) side of the spar web for evidence of aluminum dust or shavings. See the photo below.

Aluminum Dust
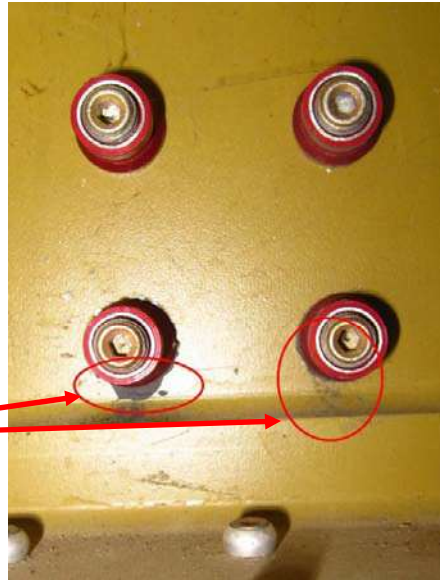
If any problems are found or clarification is needed, please contact Quest Aircraft for assistance and further instruction

---END---