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DATE: 08 DEC 2021 **<Mandatory Compliance>**

SUBJECT: FUSELAGE TUBE INSPECTION

**REVISION: IR**

**AIRCRAFT MODELS AFFECTED: A-1, A-1A, A-1B, A-1C-180, & A-1C-200**

**ALL AIRCRAFT SERIAL NUMBERS ARE AFFECTED**

***(AIRCRAFT CERTIFIED IN ANY AIRWORTHINESS CATEGORY)***

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**PURPOSE**

In the interest of safety and to be proactive concerning possible tube failures, Aviat Aircraft Inc. is issuing this Mandatory Service Bulletin requiring tube inspections.

**DESCRIPTION**

Aviat Aircraft Inc. has received a report from the field of a broken tube in the empennage section of the fuselage. The broken tube was discovered during the aircraft’s annual inspection.

**COMPLIANCE**

Within the next 40 hours of operating time or at next annual inspection whichever comes first and at each subsequent annual inspection, inspect the tubes in the empennage section of the fuselage for cracks or breaks.

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**\*NOTE:**

- Only FAA certified mechanics or FAA certified repair station are to perform the instructions in this service bulletin.
- It is the responsibility of owner/operator to have only FAA certified mechanics or FAA certified repair stations perform this inspection.
- Complete and send Aviat Aircraft, Inc. the compliance letter to the provided address.

**ACCOMPLISHMENT INSTRUCTIONS**

Step 1. On the empennage section of the fuselage locate the inspection covers on the LH and RH sides located just above and below the elevator/stabilizer hinge line, see figure 1.



Figure 1, inspection covers LH side



Figure 2, elevator, and stabilizer removed for clarity

Step 2. Remove the hole covers, remove two screws in each hole cover then move the hole cover forward to release the spring steel tab behind the fabric. With the hole covers removed, see figure 2, you will have access to the tubular structure of the fuselage.

Step 3. Locate tubes, part numbers 35001-071, 35001-072, 35001-033, & 35001-034. See figure 3. The use of the applicable illustrated parts catalog (IPC) can be helpful to locate the applicable tubes. In the IPC, see section 6, Fuselage Structure, items no. 61 & 63.

Step 4. With the tubes located, the inspection of the tubes can begin. Using a light and a mirror, or other suitable methods, inspect the tubes from top to the bottom for any cracks or breaks. Pay particular attention around welds at the tops and bottoms of the tubes.



Figure 3, no fabric for clarity. Tubes 35001-071 & -072 / 35001-033 & -034

Step 5. After inspection is complete, and if no cracks or breaks are found, make a logbook entry with compliance to this service bulletin and send in the compliance letter.

If cracks or breaks are found during the inspection, contact Aviat Aircraft Inc. engineering department for further instructions.



**COMPLIANCE LETTER**

This is to certify that I have complied with Service Bulletin 36 on airplane:

Model: \_\_\_\_\_

Serial No: \_\_\_\_\_

Registration Number: \_\_\_\_\_

Aircraft Hours: \_\_\_\_\_

Answer questions with a (yes), (no).

Was an inspection of the tubes called out performed? \_\_\_\_\_

Were any cracks or breaks found during the inspection? \_\_\_\_\_

FAA Certified Repairman: \_\_\_\_\_

License No.: \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

Return completed compliance letter to:

Aviat Aircraft, Inc.  
Engineering Department  
P.O. Box 1240  
Afton, WY 83110  
Fax: 307-885-9674  
Email: [engineering@aviataircraft.com](mailto:engineering@aviataircraft.com)

(Attach any comments on a separate sheet)