

Jabiru Service Bulletin: Jabiru Aileron Control Tube			JABIRU AIRCRAFT PTY LTD P.O. Box 5792 Bundaberg West Queensland, Australia. Phone: +61 7 4155 1778 Fax: +61 7 4155 2669 Web: www.jabiru.net.au Email: info@jabiru.net.au		
JSB 042-1	Release Date: 16 th May 2019	Effective Date: 17 th May 2019	Affected Models: See Applicability	S/No. Range: See Applicability	Page 1 of 5

SERVICE BULLETIN: JSB 042-1

Issue: 1

Release Date: 16th May 2019

Effective Date: 17th May 2019

Subject: Jabiru Aileron control tube

Affected Models: All aircraft

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1 Applicability

All models of Jabiru aircraft **over 4000 hours TTIS**.

Note: For aircraft in Light Sport Aircraft categories this Bulletin is equivalent to a Manufacturer’s Safety Direction.

2 Background

- The Jabiru Aileron Control Tube is a machined aluminium tube that runs from the control stick assembly through the centre console to the aileron cable bell-crank. Refer to Figure 1 for correct terminology.

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Jabiru Aileron Control Tube**

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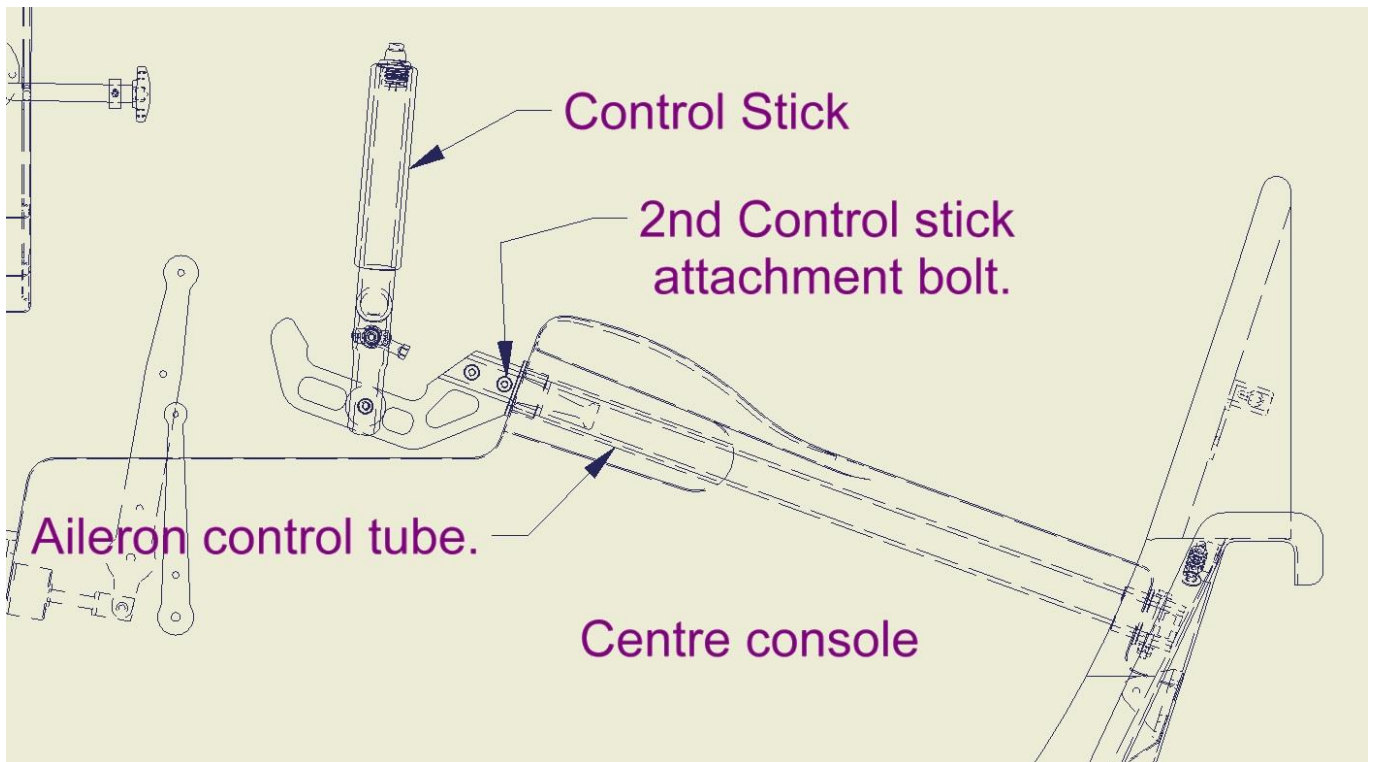


Figure 1 – Elevator cable layout example

- A failure of the aileron control tube over 8500 hours TTIS was brought to the attention of Jabiru Aircraft whereby the aileron control tube failed in fatigue at the second control stick attachment bolt. With no connection, aileron and elevator control could have been lost. Figure 2 shows the failed aileron control tube, showing where the failure occurred.



Figure 2: Failed tube.

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- This service bulletin acts as a precautionary service message to inform maintainers and operators of this potential condition and prescribes an inspection to check that the Aileron control tube where it connects to the control stick pivot plate is in serviceable condition.

3 Compliance – Implementation Schedule

- The inspection detailed in section 4 of this service bulletin must be conducted before the next flight and at regular service intervals (50 hourly, 100 hourly or Annual Inspection) until otherwise instructed by revision to this service bulletin (JSB041).
- The Time-In-Service for which service intervals are determined is the accumulated time the engine has been run, not Airswitch time. Jabiru Service letter JSL010 provides details on service time interval requirements.

4 Inspection procedure

The inspection detailed in this section is to be carried out **before the next flight for applicable aircraft** and at the service intervals prescribed in section 3.



Figure 3 – Location of tube to inspect

- 1) Clean the surface of the tube around the second control stick attachment bolt. Use a cloth moistened with water or a hydrocarbon based cleaner. Don't use anything that might be corrosive to aluminium.

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Figure 4 – Top side of control tube.



- 2) Inspect the four quadrants, with a bright light, for signs of cracking. For the lower quadrant, the control stick will need to be turned to its aileron limit in each direction, to enable proper visibility. Analysis of the failed part showed that one quadrant had been cracked through for some time before complete failure occurred.
- 3) Lightly apply a force on the control stick away from the quadrant being inspected.
- 4) Repeat steps 2 and 3 until all 4 quadrants have been inspected.

5 Corrective action

If any sign of cracking is found confirmation and corrective action must be taken before any further flight. Contact Jabiru Aircraft if this situation is encountered and complete a Continued

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Operating Safety Reporting Form that can be found at the following web address:
http://jabiru.net.au/images/Owner_Operator_Responsibilities.pdf

6 Airworthiness Note

- All work called for by this Service Bulletin must be carried out by authorised personnel. For the aircraft detailed herein this may mean the owner, an RA-Aus Level 2 holder, a Licensed Aircraft Maintenance Engineer (LAME) or equivalent – as appropriate to the aircraft's registration.
- On completion of the work prescribed, the authorised person must note the completion of the actions required by this bulletin in the aircraft's maintenance logbook. This note should include the date of the work, the service bulletin number (i.e. JSB042-1) and the identity (including license number where appropriate) of the person carrying out the work.

LSA Service Bulletin: **LSA JSB 042-1**
Issue: **1**
Release Date: **16th May 2019**
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Subject: **Jabiru Aileron Control Tube**
Affected Models: **All aircraft**

Applicability:

- The content of this directive is applicable to all Jabiru aircraft.

Requirement:

- Operators of aircraft within Light Sport Aircraft categories must comply with the requirements of Jabiru Service Bulletin JSB 042-1

Compliance:

- The compliance details given in JSB 042-1 must be met.

Background:

- This Safety Directive has been prepared to make mandatory the requirements of JSB 042-1 for aircraft operating within Light Sport Aircraft Categories.