

Jabiru Service Letter: Rudder Cable End.		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			
JSL019	Release Date: 8 December 2015	Effective Date: 8 December 2015	Affected Models: See Applicability	S/No. Range: See Applicability	Page 1 of 3

SERVICE LETTER: JSL019

Issue: 1

Release Date: 8 December 2015

Effective Date: 8 December 2015

Subject: Rudder Cable End Inspection.

Affected Models: All Jabiru Airframes.

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1 Applicability:

- This document is an **informational letter** applicable to all Jabiru Aircraft.

2 Background:

2.1 General

- A single incident involving the precautionary landing of a Jabiru aircraft has highlighted a condition which can potentially lead to an in-flight loss of rudder control.
- On inspection, by the operator, it was found that the rudder cable had broken.
- Jabiru inspected the parts and have found that the cable end had been bent before it failed.
- This service letter has been prepared to inform operators and maintainers of Jabiru Aircraft of this condition.

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Figure 1 – Location where cable broke.



Figure 2: Rod end with broken end of cable.

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Figure 3: Cable end.

3 Rudder Cable Ends.

- All Jabiru Aircraft use a push pull type rudder cable. The end of the cable is fitted with a rod end, for attachment to rudder pedals. **The factory installation has proven to be suitably robust in service.** (1 confirmed instance for over 8,000 cables in service)
- The only likely cause of the cable being bent, in this instance, is force applied by a pilot's foot. The bend was in the horizontal plane. Investigation revealed that a large amount of force was required at an awkward angle.
- The rudder cable end is stainless steel so once bent only a small number of push pull cycles are needed to cause it to break.
- Cable end condition need to be checked during daily inspection, as with other external cable ends.

4 Reminder of current practices

- The Jabiru Airframe Technical Manual (JTM001) contains requirements for the maintenance of control cables and rod ends (always refer to the most recent revision of these documents).
- Rudder pedal linkages and cables ends are inspected every 100hrs.

5 Compliance

- This Service letter does not prescribe any special maintenance actions.
- This letter has been produced as **informative material** for operators and maintainers of Jabiru Aircraft.

