

SERVICE BULLETIN

AP-SB16

Date of Issue: July 2012

Applicability: Propeller Models: AP332 models used on Jabiru engines
Serial Numbers:

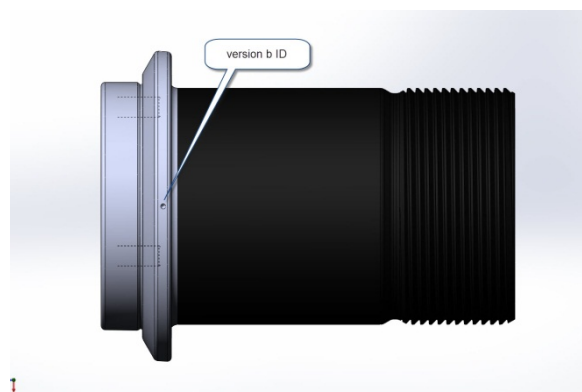
Compliance: Initial: Immediate
Subsequent: Inspection every 25hrs

SUBJECT: UPGRADE OF AP332 FERRULE COMPONENT WHEN USED ON JABIRU ENGINES

Reason

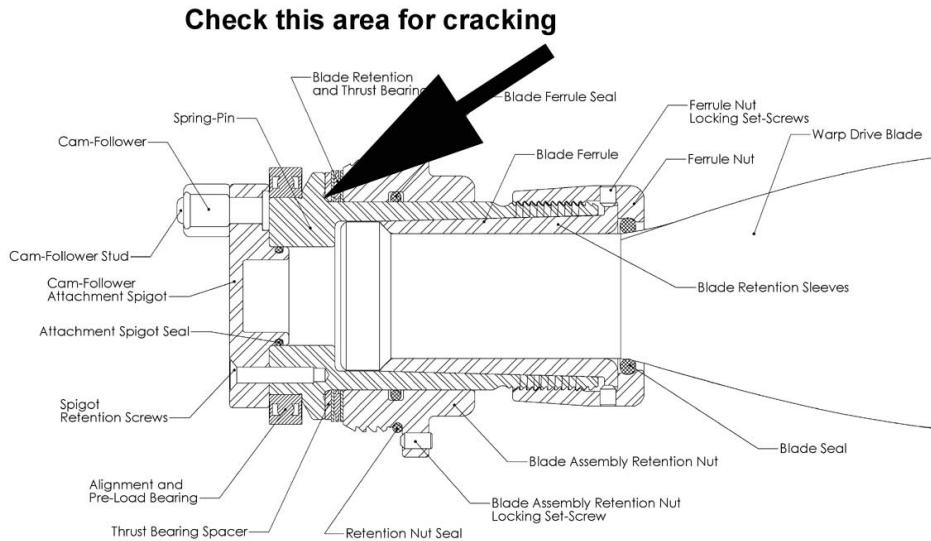
Airmaster has received reports of cracks appearing in the ferrule component of models AP332 when used on Jabiru engines. The cracks have been located at the base of the ferrule component, in the area where the ferrule body flares to the flange.

Airmaster have revised the ferrule component (AP-P0074b), and changed its material to increase its fatigue life. The revised ferrule type can be identified by a dot placed on the perimeter of the ferrule flange.



Compliance

1. An inspection of the blade ferrule should be made immediately.



- a. Inspect the blade ferrule for cracking or corrosion. Pay particular attention to the fillet area between the flange at the inner end of the ferrule and the main cylindrical section of the ferrule, as this is the principal load bearing area. Inspect this area closely under good illumination.

Note: This area of the ferrule may be seen by sliding the blade assembly retention nut, the blade retention and thrust bearing, and the aluminium spacer towards the outboard end of the ferrule. After wiping away excess grease, the fillet area to be inspected will be exposed. A matt finish will be observed on the area, where the surface has received a shot peen treatment to enhance its fatigue properties.

Note: It is normal to see some marks where the retention bearing sits against the ferrule body. This should be cosmetic only.

2. If a crack is detected (or suspected), all three blade assemblies should be returned to Airmaster for ferrule replacement. There is no charge for this service (shipping charges still apply).
3. If no cracks are found, then this information should be relayed to Airmaster propellers, along with the following,

- a. Customer contact information
- b. Hub serial number
- c. Hours in service

A form to convey this information is supplied at the end of this document.

4. Airmaster advises that even if no cracks are detected during inspection, it is still recommended to apply the ferrule upgrade at the soonest possible time.

Subsequent Actions

5. If the ferrule is replaced, inspection of the ferrule as outlined above should be carried out at intervals 25hr, 50hr, 100hrs there after.

6. If ferrule has not been replaced inspection should be every 25hrs.

Note: This service bulletin only applies to model AP332 used on Jabiru 3300 or 2200 engines. No other propeller / motor combinations are affected.



Airmaster Propellers Ltd

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RECORD

Inspection

Propeller Serial Number : _____

Current Operating Hours: _____

Inspection Performed by: _____

Signature: _____

Inspection Date: _____

Inspection Results: Crack found / Crack not found

Customer Information

Customer Name: _____

Customer Address: _____

Customer Ph: _____

Customer Email: _____

Upgrade

Ferrule component upgraded to Airmaster Propellers Ltd
AP-P0074b :

Blade Serial numbers: _____

Upgrade performed by: _____

Signature: _____

Upgrade Date: _____