

**Checking the main landing gear semi-axes**

**on**

**Aeros-2 and Cross Country trikes**

**Safety Directive – 023**

**Status: Mandatory**

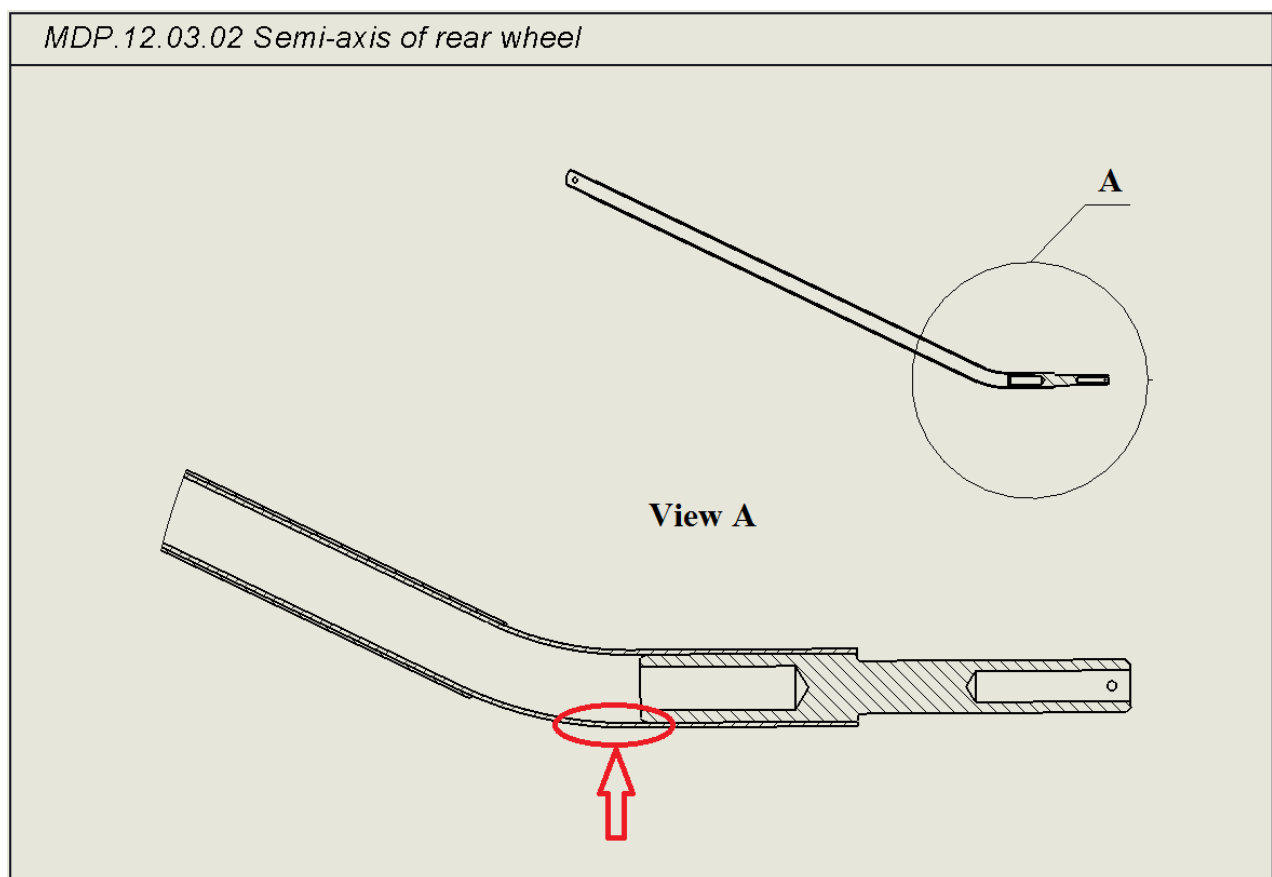
**Aeros Ltd.**

**December 26, 2019**

## Background:

We have received information about failure of the main landing gear semi-axes on our 2-seater trikes with flight time more than 600 hours. In total, we know of three flight accidents during the landing, which resulted in a broken semi-axle or complete separation of the wheel from the trike. Fortunately, no one has been injured.

In order to prevent such accidents in the future we insist that fatigue cracks must be checked in the area marked with a red arrow on the picture below. If total flight time of your trike exceeds 500 hours (or 3000 landings), whichever comes first, both semi-axes must be replaced immediately (see serial numbers of the trikes effected below). This information must be included in the trike maintenance manual. If even micro-cracks are found on at least one semi-axle, the trike must be grounded until both semi-axes are replaced. In case of any kind of semi-axle crack is detected please inform your local Aeros distributor or Aeros directly by e-mail [info@aeros.com.ua](mailto:info@aeros.com.ua), stating the serial number of the trike, date of production, total flight time and number of landings.



## Scope:

Aeros-2 and Cross Country trikes up to serial number 02.12.207 with a total flight time of 250 to 500 hours (1500 to 3000 landings): the need for immediate inspection with further checks every 50 hours (300 landings) and replacement of semi-axes as needed.

Aeros 2 and Cross Country trikes up to serial number 02.12.207 with a total flight time of 500 hours (3000 landings) and more: the need to immediately replace both semi-axes. Once semi-axes have been replaced with new parts, no further obligatory replacement after 500 hours (3000 landings) is required.

All Aeros-2 and Cross Country trikes: the need to made inspection of semi-axles every 50 hours (300 landings).

### **Tools and Equipment Required :**

Magnifying glass.

### **Compliance:**

Compliance is mandatory and must be achieved before the next flight!

### **How to comply with this directive:**

Thoroughly inspect the area marked on the sketch with the magnifying glass.

Please inform your authorized Aeros distributor or Aeros directly about the inspection results, replacements or in case of any questions.

Compliance with the Aeros 2 / Cross Country Maintenance Manual is mandatory!

### **Reminder:**

Do not forget or disregard regular periodic maintenance and pre-flight inspections. Refer to the maintenance manual of your trike for information:

[http://aeros.com.ua/manuals/Aeros-2\\_and\\_CCT.pdf](http://aeros.com.ua/manuals/Aeros-2_and_CCT.pdf)