

**Evolution Aircraft 39440 South Av**

**Zephyrhills, Fl 33542**

**(813) 810-9262**

# **SAFETY ALERT**

## **Replacing headers on a REVO**

**SD---1014 Released August 18<sup>th</sup> 2013**

**Effective August 18<sup>th</sup> 2013**

**Status: mandatory**

## **Background:**

Exhaust supplier recently changed suppliers of material used to make the headers on a REVO. There have been multiple failures within just hours of use. The small fractures consistently come from the EGT weld and are difficult to see. This SD only effects 4 REVOS (see serial numbers below)

## **Scope:**

The following serial numbers of REVO weight Shift Control are affected by this safety directive: 000590--000594,

## **Authorized Persons:**

An owner/operator is allowed to execute this safety directive in accordance with the instructions in this directive.

## **Tools and Articles Required:**

- 1) 12 mm wrench
- 2) 13 mm wrench
- 3) Small zip tie
- 4) Anti seize compound

## Compliance:

Compliance is up to the owner of the aircraft, Headers on effected aircraft must be replaced if a crack appears. Evolution Aircraft recommends replacing these headers regardless if a crack is evident, however allows operation of the trike with inspection of the headers each flight. New headers will be shipped to owners at no charge.

This is how to comply with this directive.



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- . 1) Order new headers from Evolution at evolutiontrikes@yahoo.com
- . 2) Use a small zip tie to lift each spring off of its hook.
- . 3) Remove the 2 nuts holding the headers on each cylinder with a 12mm wrench
- . 4) Hold the EGT probe with a 13mm wrench and spin the header counter clockwise being careful not to twist the EGT wire.
- . 5) Use anti seize compound on the ball joints.
- . 6) reverse steps to reinstall new headers.
- . . .

## **Logbook Entry:**

Aircraft logbook should be marked with the following entry and dated and signed with mechanic's or pilot owner/operator's license number (if applicable):\_\_“Safety directive 1013 from the manufacturer satisfied as per instructions. Compliance with ASTM standards maintained