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# **SAFETY ALERT**

**Replacing the Lower Compression  
Strut Bracket with new AN Hardware  
for an Evolution Trikes, REVO**

**SD-1010  
Released October 17,2012  
Effective October 17,2012  
Status: Mandetory**

## **Background:**

In some limited cases after a Severely hard landing in which case there was deformation to the compression Strut, or in the case that improper torque was most likely used during a repair, the stainless steel bolts that secure the lower compression strut bracket to the body have yielded.

## **Scope:**

The following serial numbers of REVO weight Shift Control are affected by this safety directive: 007, 000550-000569, 1001-1016

## **Authorized Persons:**

An LSA-R-M or an A&P or higher is allowed to execute this safety directive in accordance with the instructions in this directive.

## **Tools and Articles Required:**

- 1) 5/32 Allen wrench
- 2) 7/16 open end wrench
- 3) Phillips #3 screw driver
- 4) ¼" drill bit

## Compliance:

Compliance is mandatory and has to be achieved at next 5 hours of flight time. Pilots and operators are instructed to inspect the two bolts securing the lower compression strut fitting to the frame. If there is any play in the bracket itself **DO NOT** tighten and **ground the plane**.

This is how to comply with this directive.



This is how to comply with this directive:

- 1) order the bracket and hardware by emailing [evolutiontrikes@yahoo.com](mailto:evolutiontrikes@yahoo.com) and give mailing address. There will be no cost to you unless you want expedited shipping.
- 2) remove compression strut from bracket by first pulling the speed pins in the compression strut joiner mid way up the compression strut.
- 3) Slide the joiner up the compression strut high enough to allow the compression strut to bend at the ball and socket joint inside the joiner.
- 4) Remove the speed pin from the lower bracket and remove the compression strut.
- 5) Hold the bolt head from turning with the allen wrench and remove the lock nuts from below the frame.
- 6) Unthread the bolts from the frame, which is tapped and threaded.
- 7) Drill the threads out of the frame with a ¼” drill bit
- 8) Install new bracket using a Phillips screw driver and threading new bolt into lock nut.
- 9) Use standard torque to secure the new AN hardware.

## **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 1010 from the manufacturer satisfied as per instructions. Compliance with ASTM standards maintained”

