

**Using Red Loctite on Hub Bolts that Brake Rotor  
Rides on and Using Blue Loctite on Landing Cover and  
Wheel Pant Bolts**

**SD-1008**

**Evolution Trikes**

**July 22, 2012**

**Status: Mandatory**

## ***Background:***

In some limited cases the brake disc rotor drive lugs, which are socket head cap screws, that are threaded into the wheel hub, have been backing out over time.

## ***Scope:***

The following serial numbers of the Revo weight-shift-control aircraft are affected by this safety directive:

007, 000550 – 000575; 001000 – 001016

## ***Authorized Persons:***

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

## ***Tools and Aritcles Required:***

- 1) 7/16" wrench
- 2) 5/32" allen wrench
- 3) 3/16" allen wrench
- 4) Red Loctite 271
- 5) Blue Loctite 242

## **Compliance:**

Compliance is mandatory and has to be achieved immediately prior to next flight.

### **This is how to comply with this directive.**

Step 1: Remove allen bolt that secures landing gear fairing, both left and right

Step 2: Slide gear fairing into body roughly 2"

Step 3: Remove wheel pants by removing (4) bolts (be sure to unplug lights, if applicable)

Step 4: Remove (3) socket cap screws that drive rotors from all three hubs while leaving rotors in place

Step 5: Clean the threads using brake cleaner or similar cleaner

Step 6: Apply Red Loctite 271 and reinstall socket cap screws

Step 7: Secure the wheel pants and landing gear cover using Blue Locktite 242 on all screws

Step 8: Allow the Red Loctite 271 (24) hours to cure

## **Testing:**

- Visually inspect rotor drive lugs after 10 hours and every 100 hours there after.
- Check wheel pants for play by lifting up and pushing down at the top rear of the wheel spat on every pre-flight

## **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 1008 from the manufacturer satisfied as per instructions.  
Compliance with ASTM standards is maintained"*