

# **1/4" Anti-Rotation Bolt**

**RevX**

**SD-1002**

**Evolution Aircraft, Inc**

**September 1, 2021**

**Status: Optional**

## ***Background:***

It is possible to shear the AN-3 bolt that goes through the front axle and brake caliper during braking. This will cause brake failure. Upgrading to an AN-4 bolt will strengthen this area.

## ***Scope:***

The following serial numbers of the RevX weight-shift-control aircraft are affected by this safety directive: X001 – X0040.

## ***Authorized Persons:***

An owner/builder with a minimum of a sports pilot license is allowed to execute this safety directive in accordance with the instructions in this directive.

## ***Tools and Articles Required:***

Drill  
¼” drill bit  
(2) 7/16” wrenches  
5/32” Allen wrench

## ***Kits supplied by Evolution Aircraft, Inc Includes:***

AN-4 Bolt with hardware

## ***Compliance:***

Compliance is optional.

This is how to comply with this directive:

- Loosen clamp bolts on triple trees and remove fork tubes.
- Remove axle bolt from right fork tube.
- Slide wheel off axle.
- Remove AN-3 anti-rotation caliper bolt.
- Enlarge 3/16” hole in axle and caliper to 1/4”.
- Reassemble using supplied AN-4 bolt.



### **Testing:**

- Check the brakes in a safe, open area.

### **Logbook Entry:**

Aircraft logbook should be marked with the following entry and dated and signed with mechanic's or pilot owner/builder's license number (if applicable):

*"Safety directive SD-1002 from the manufacturer satisfied as per instructions."*