

**Check for Cable Housing Chafing Radiator Core**

**SD-1005**

**Evolution Trikes**

**April 07, 2011**

**Status: Mandatory**

### ***Background:***

Recently it has been brought to our attention that on one Revo the Aluminum coolant radiator was damaged with slight leak created in the radiator core when one of the throttle or choke cable metal housing was found lying on the radiator core and rubbed against the radiator core over time with vibration. Since the housing is made of steel and radiator core is Aluminum, the Aluminum core was damaged causing a leak in the coolant radiator.

### ***Scope:***

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

000550U, 000551 through 000559

### ***Authorized Persons:***

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

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

An extension mirror for inspection

A good flash bright flash light

A 5/32" allen

Cable Ties 11 inches or longer and cable tie snips (needed if inspection shows that cable housing is not tied to the frame but instead is hanging down touching the radiator core or oil cooler core)

### ***Compliance:***

Compliance is mandatory and has to be achieved within next 5 flight hours

This is how to comply with this directive

- With the 5/64" allen wrench unscrew the 1/4" diameter stainless steel fasteners keeping the composite bucket seats attached to the aircraft
- Remove the seat bucket from the aircraft taking care not to scratch the finish of the paint. Lap belt loops should be able to drop through the composite bucket seat structure.
- Place your hand under the Fuel tank in the cavity between the bottom of the fuel tank and the belly scoop cover on which the oil and coolant radiators are installed. Feel for anything lying on the cover.
- Place the swivel inspection mirror if necessary just in front of the fuel tank so that you can angle it to look at the cavity in question to affirm that nothing is lying on the radiator or oil cooler
- If something like throttle or choke cable housing is found lying there instead of tied to the frame, it is necessary to tie it to the frame using cable ties. Holding such items up just in front and just behind the fuel tank securely with just a snug tight fit with a cable tie against the frame should be enough to not let them drop to the radiators and chafe

- Secure everything back following the reverse procedure

**Testing:**

- Keep an eye on this area during inspections of the aircraft and make sure that nothing is touching the radiator cores

**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 1005 from the manufacturer satisfied as per instructions. Compliance with ASTM standards is maintained"*