

**Correcting Slider Adjustment Interference with Full  
Throttle Operation**

**SD-1001**

**Evolution Trikes**

**August 10, 2010**

**Status: Mandatory**

### ***Background:***

In some limited cases of adjustments to the extremes (shortest pilot legs or closest pedal position), it was noted that certain serial numbers of the Revo weight-shift-control aircraft have been fitted with a pedal slider adjuster that is too long to allow full throttle operation successfully.

### ***Scope:***

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

000551 through 000556

### ***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) 7/16" spanner wrench, socket and torque wrench with a 3 inch extension
- 2) A means of cutting stainless steel square stock and de-burring or filing it finished
- 3) An electric drill or drill press with a 3/16" bit and de-burring tool
- 4) 2 x NAS1351-4-10P or MS16998-42 socket head cap screws and 2 x AN-364-428A available from aircraft supply houses. Alternatively, an industrial steel zinc plated socket head cap screw and matching nylock nuts can be used
- 5) Allen heads and open spanner to use with items in #4

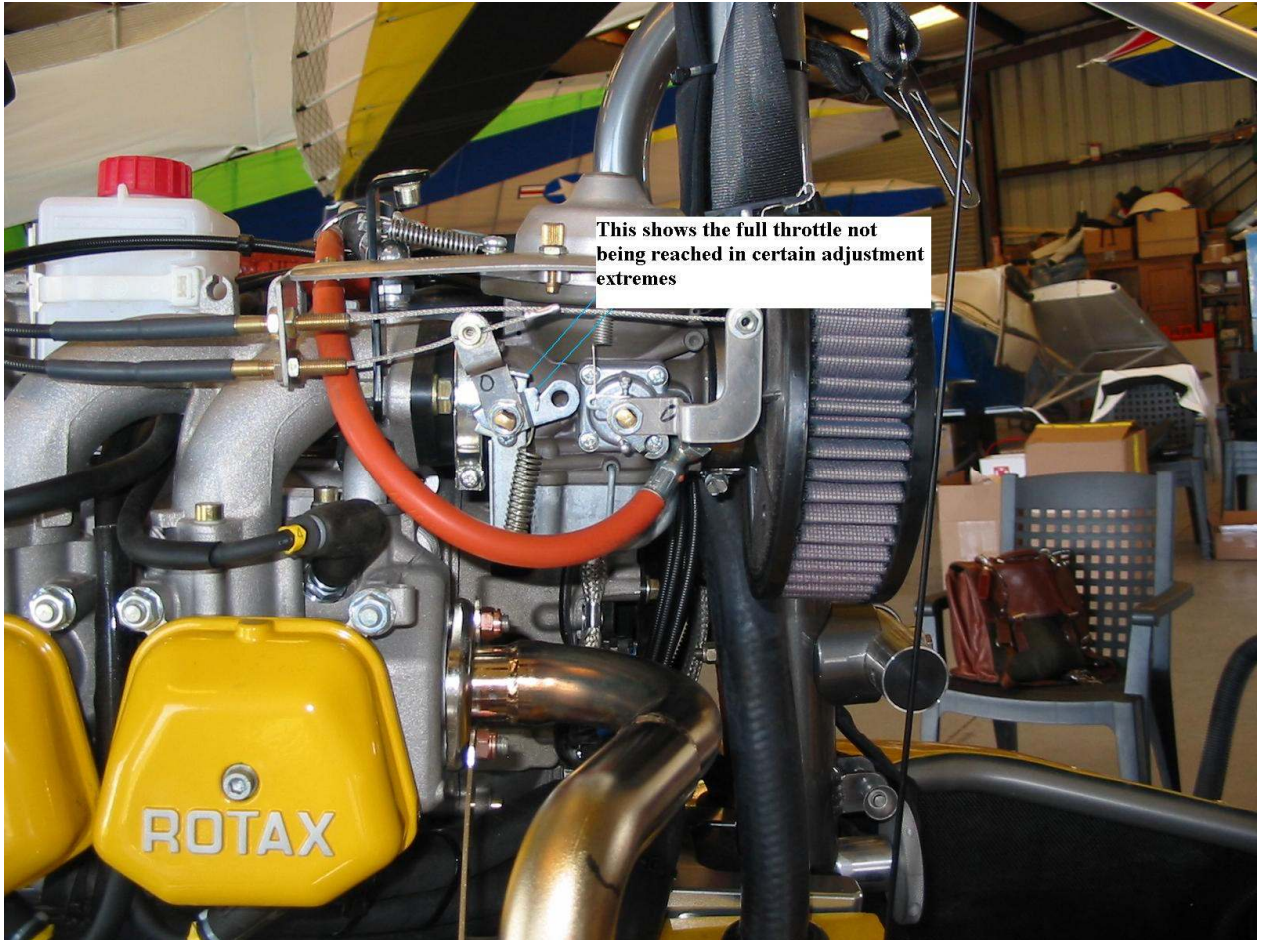
## **Compliance:**

Compliance is mandatory and has to be achieved at next 100 hour or annual inspection. Pilots and operators are instructed to not use the closest pedal slider positions which cause interference to reach full throttle till compliance has been achieved

This is how to comply with this directive.



Step-1, Fig-1, Problem description



Step-2, Fig-2, Problem description

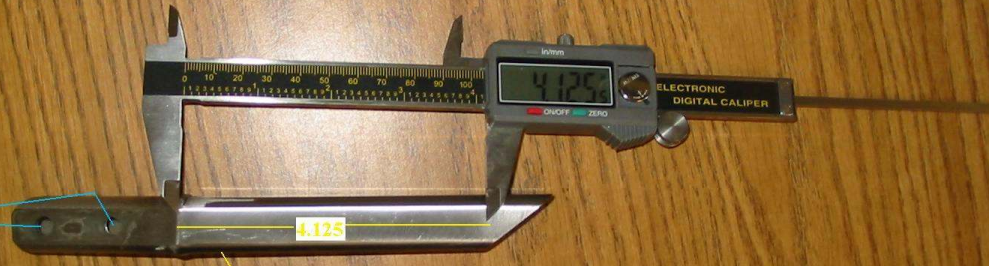




Solution Step-1, Sol-Fig-1

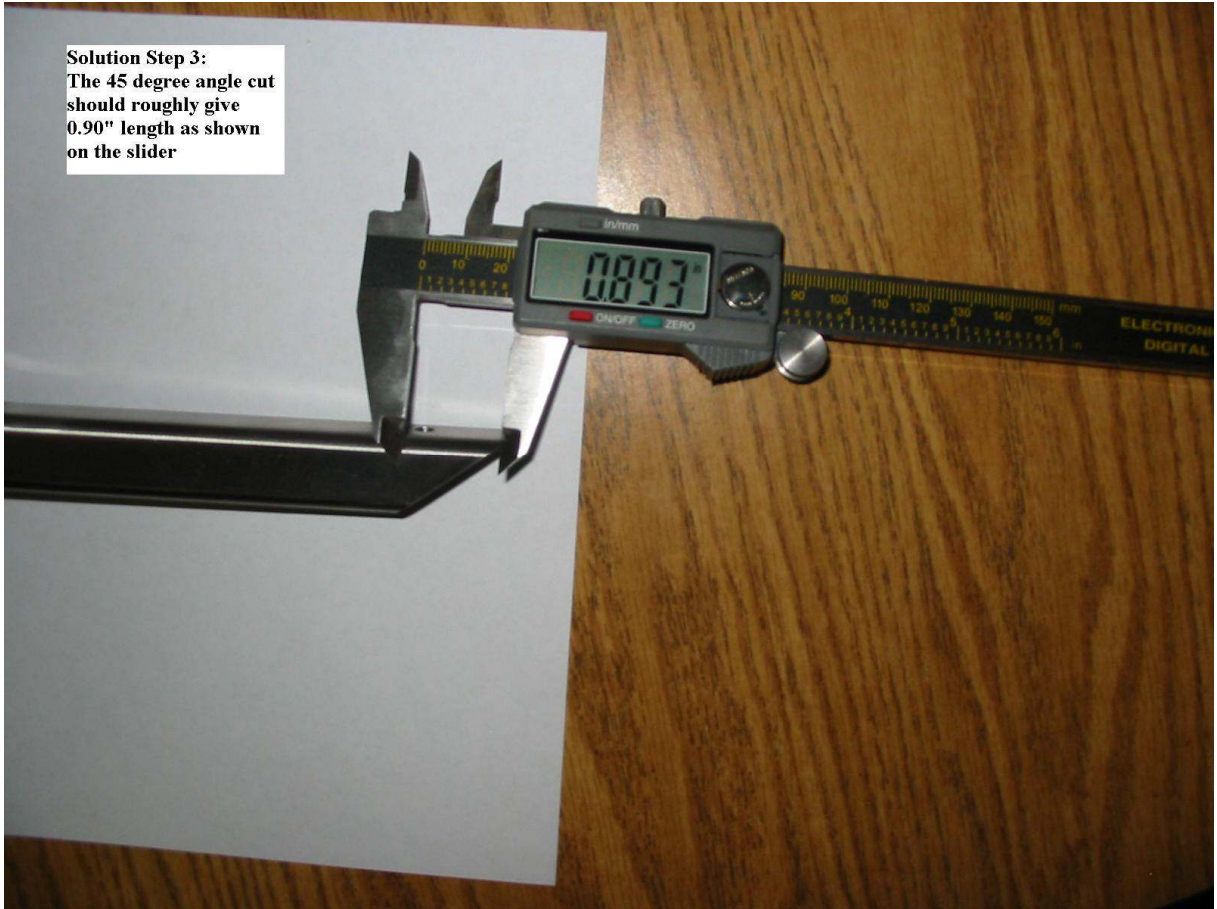
**Solution Step 2:**  
Take the foot throttle slider off by using 7/16" open span wrench sockets and loosening of the 1/4" bolts that secure the slider into the bottom triple tree. Slider then needs to be cut (midered) at a 45 degree angle starting at 4.125" as shown

1/4" bolts go through here and secure the slider into bottom triple tree



Starboard side of trike

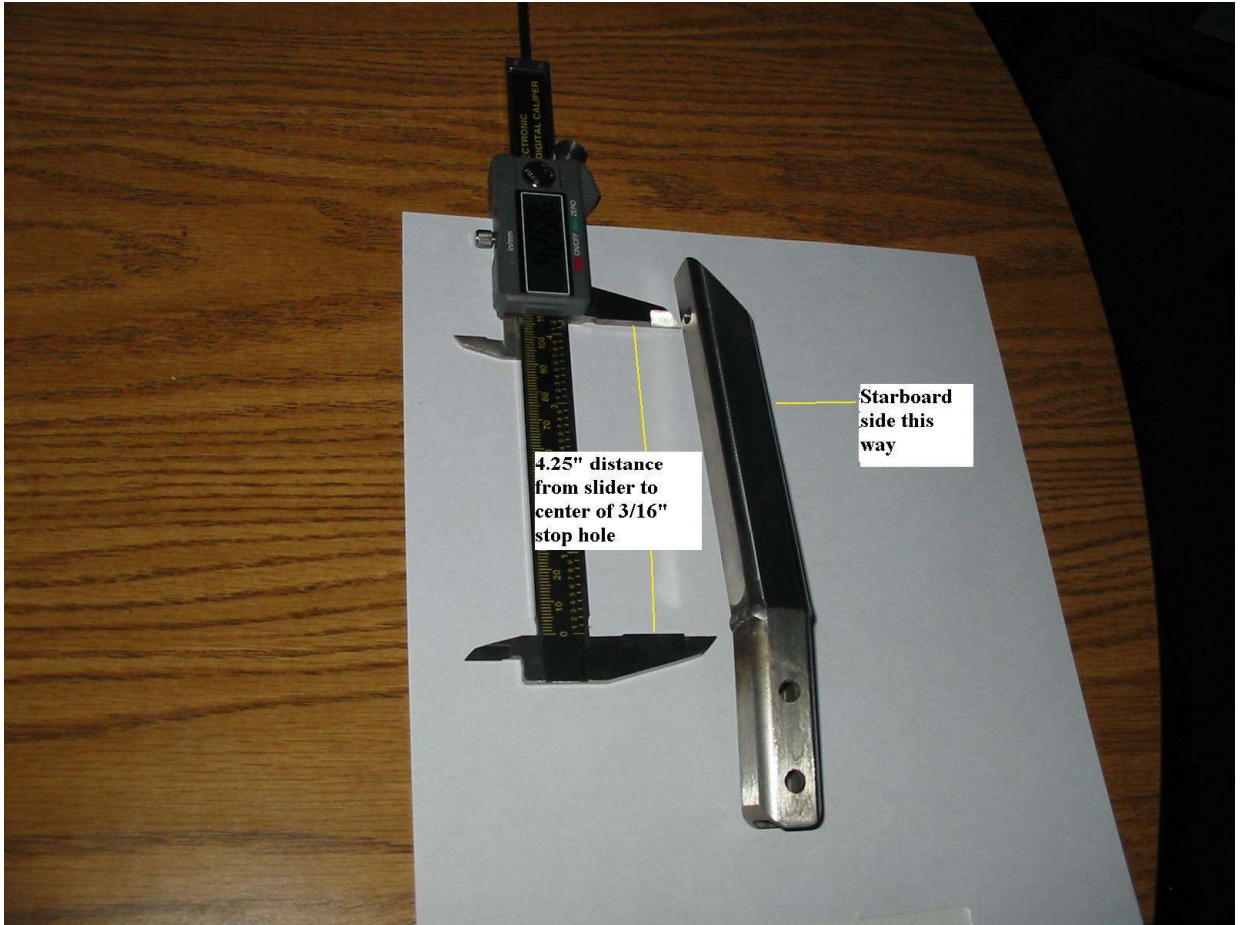
Solution Step-2, Sol-Fig-2



**Solution Step 3:**  
The 45 degree angle cut  
should roughly give  
0.90" length as shown  
on the slider

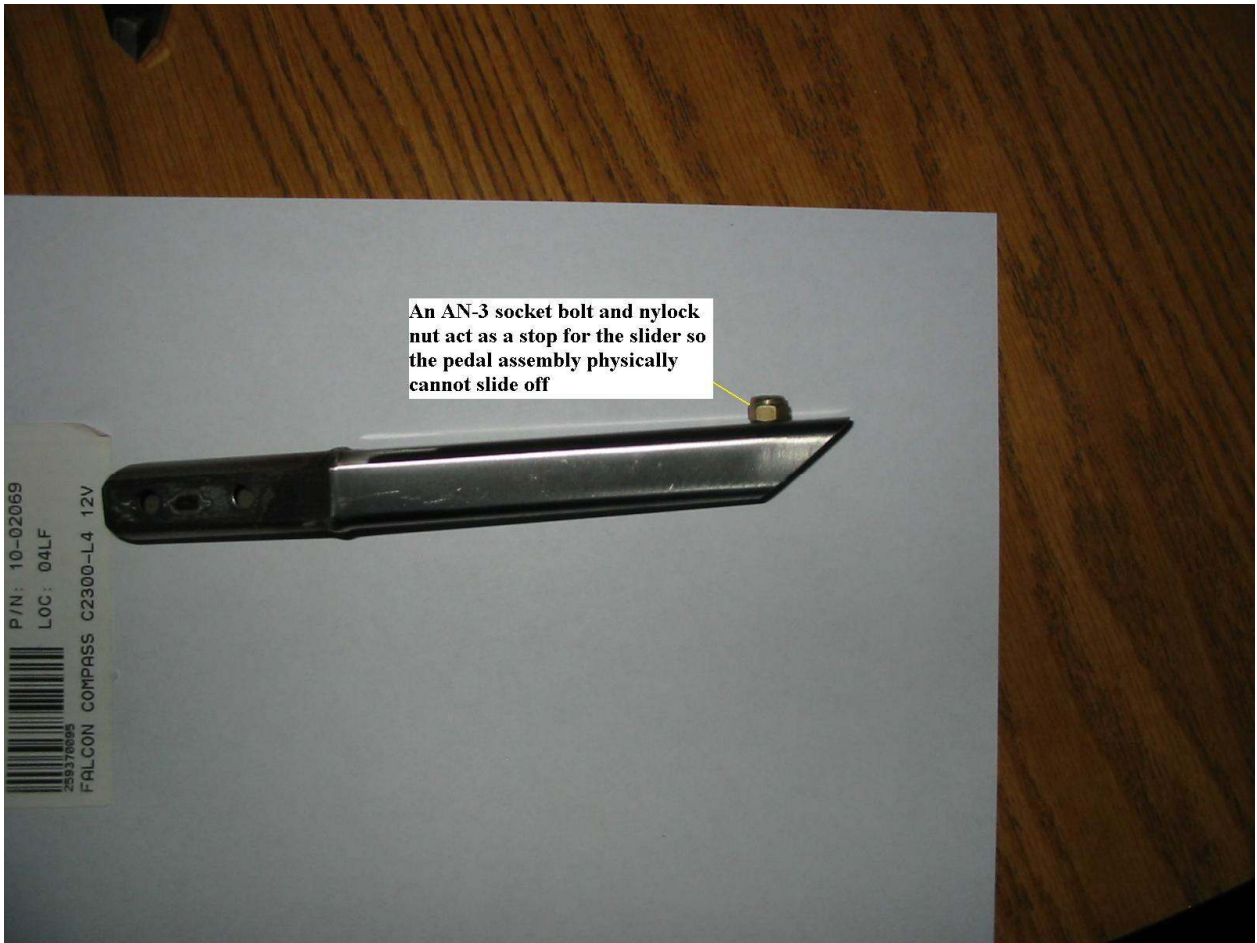
Solution Step-3a, Sol-Fig-3a





Solution Step-3b, Sol-Fig-3b

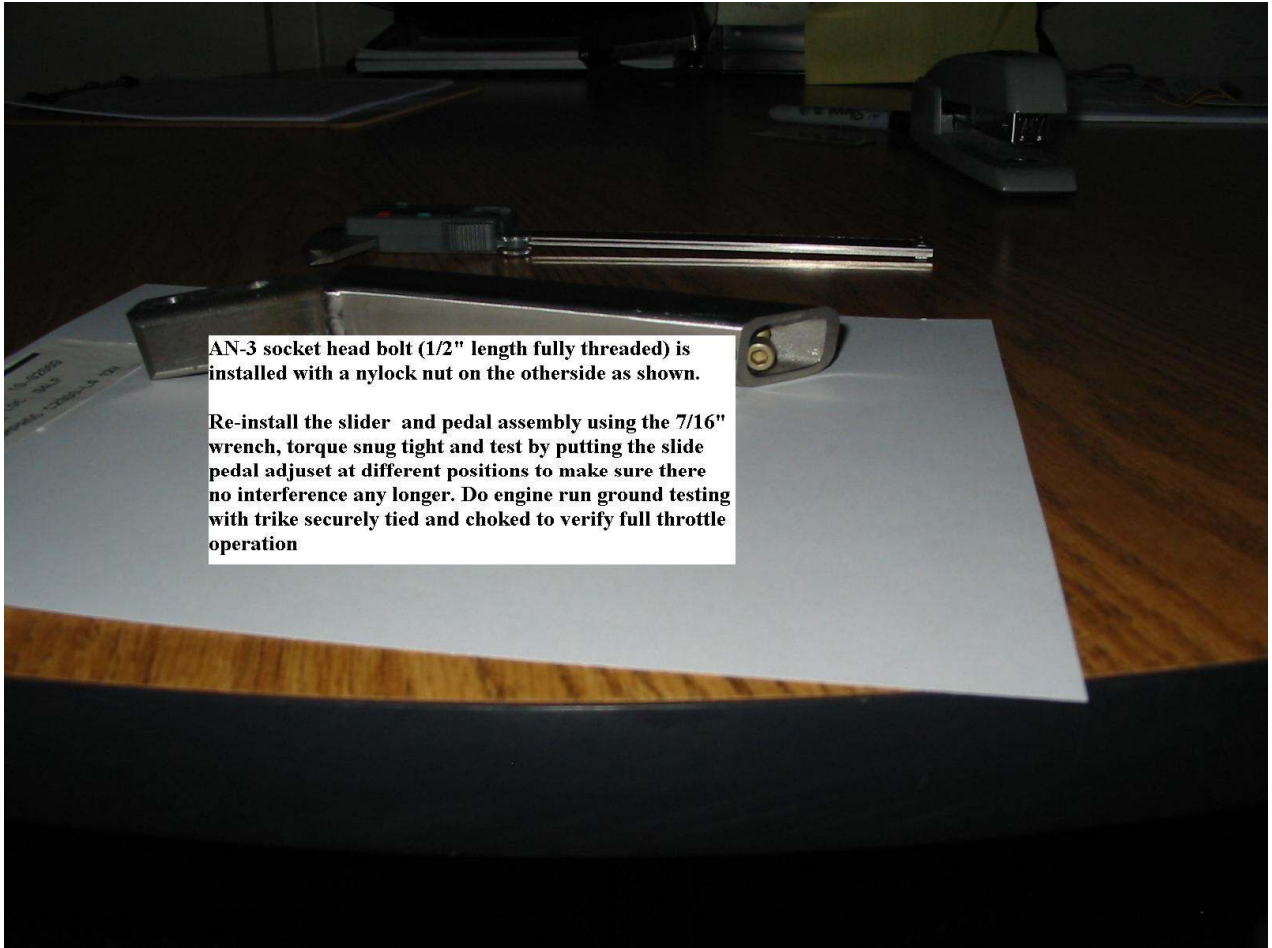




An AN-3 socket bolt and nylock nut act as a stop for the slider so the pedal assembly physically cannot slide off

P/N: 10-02069  
LOC: 04LF  
239378095  
FALCON COMPASS C2300-L4 12V

Solution Step-4a, Sol-Fig-4a



Solution Step-4b, Sol-Fig-4b

Notes: Use Loctite 242 on the two bolts retaining slider square SS stock into the bottom triple tree.

**Testing:**

- Adjust the pedal to the closest location on the slider (closest to the pilot)
- Adjust the pedal angle adjuster in the farthest hole
- Apply full throttle throw without actually running the engine and confirm that full throw on the carb is achieved

**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 1001 from the manufacturer satisfied as per instructions. Compliance with ASTM standards is maintained"*