

12/07/2023 - Flap motor safety wiring SB - 4h

Category: 3.12. Systems

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Vans safety bulletin SB07-4-12 from 2007 indicates that the flapmotor pushrod has to be safetied in the bolt assembly to ensure the pushrod cannot rotate and unscrew itself.

I first installed the bolt and castle nut that hold the flap motor and installed a cotter pin.



I thightened the lock nut first.

The took some safety wire and installed it as er instructions in the safety bulletin. The safety wire is looping over the washer and then insert through a drilled hole in the pushrod. The hole was drilled already in a previous worksession so I just needed to safety wire this.



Side view

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Then I started analysing the ray allen POS sensor which will be installed shortly. I found a website saying the rod needs to be 10" in order to get the 1 inch travel on the pos sensor but found out later that I had to shorten it much more. The longer this is, the more chance of having some bending in the threaded pushrod. You get these parts from a hobby store.



To connect the bottom clevis to the adel clamp that will be installed on the flap weldment, I made the part below. The small pin is for the sensor side, the #12 hole is for an AN3 bolt holding this to the adel clamp.



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