

FLOOR STIFFENERS FOR USE WITH WING TANKS

If you choose to use wing tanks as I did on N276JF and do not install a fuselage tank you will find that the gear will not retract properly, due to the fact that the tension on the vertical pushrod on the front side of the spar pulls the rear bellcrank & seat rails upward during the retract cycle. This effectively shortens the stroke of the rod. A fuselage tank stiffens the floor and prevents this, but without it, extra support must be added.

To accomplish this I used 2 pieces of 1/8" x 1" aluminum angle (same as seat rails), one end bolted to the rear end of the seat rails, and the other bolted to a block glued & gusseted to the bottom of the spar.

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