

Advisory

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Subject: Recommended Modification
CX4 & CX5 Nose Gear Travel Stop

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A recent event with the nose gear on CX5 001 prompted this modification that Thatcher Aircraft recommends be done on all CX4 & CX5 Tri-gear Aircraft.

A minor engine oil leak was discovered, with oil traveling down the front strut that ultimately impregnated the Belleville washer stack under the fork. This oil relieved the preload on the washer stack, and allowed a severe shimmy to occur on the front fork during taxi. The fork rotated 360° during the shimmy, and entered the prop arc. The prop and wheel pant were damaged.

To prevent this extreme rotation, a wheel stop was designed (ref photo below and attached drawing) to limit the front fork/wheel rotation to 45° left and 45° right of center.

The fork stops are 1/8" angles cut as shown. The gear leg pin is a 1/4" AN4 bolt held in place with a 1/16" cotter pin.



