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More Landing Gear Shake

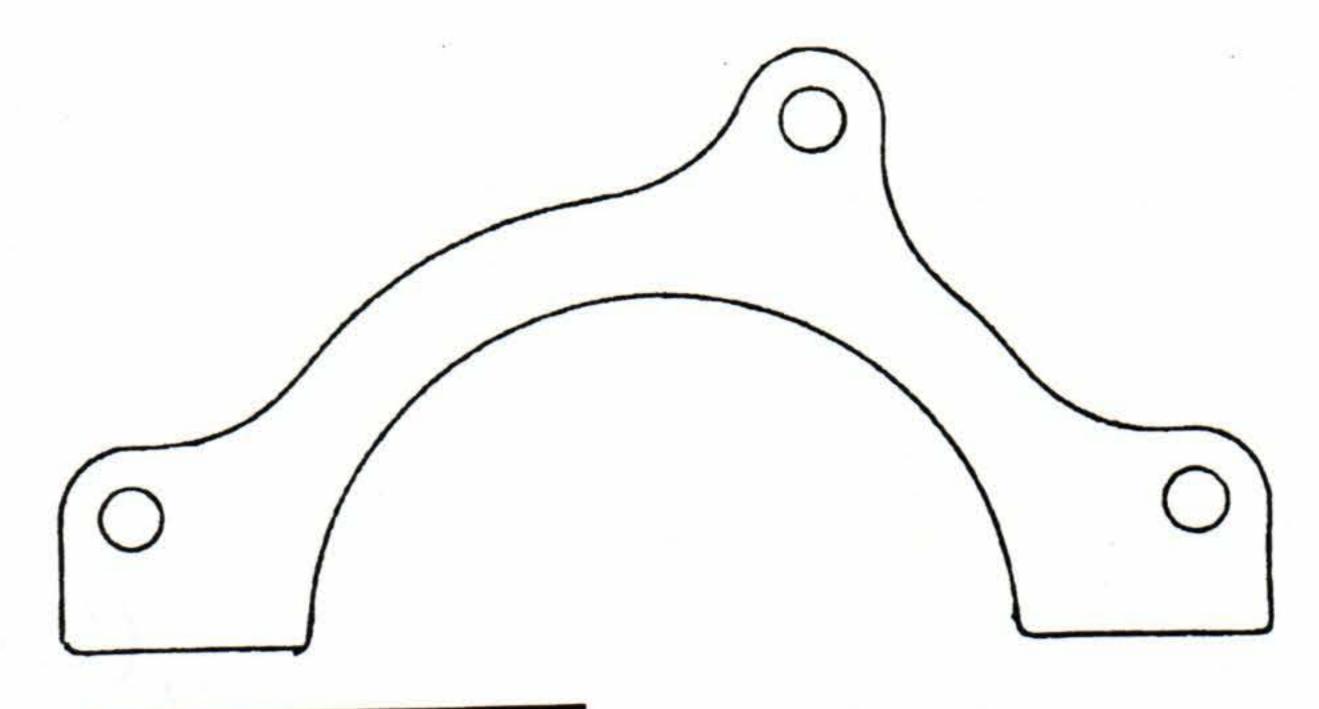
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Crankshaft Seal Retainer

John Nicholson (Ont) - Here is a drawing for a crankshaft seal retainer which I made and installed. The pattern is from a Lycoming part. Two are required for a complete extension. I made them from 1/16" cold rolled steel but aluminum would probably be OK. They were cut out with a hacksaw and filed to contour. They didn't take long to make.

To drill and tap the crankcase, first remove the prop and extension and draw the large prop bolt bushing out of the crankshaft flange using a socket and short 3/8" bolt as a puller. Through this hole you can drill and tap a hole for a 1/4"-20 x 1/2" bolt. Two people are required for this. One will drill and one will give drill alignment. With the airplane parked nose down it is almost impossible to line up the drill by yourself. Install the retainer plates with the 1/4"-20 x 1/2" bolts and lock washers.

Editor note: If you drill and tap a 1/2" deep hole you'd better use a bottom tap or you may run out of threads before you get the bolt screwed in all the way.

Reinstall the prop bushings, extension, and prop. You'll now have no more worries about losing your oil.

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The installation takes about 2 hours if you have to drill and tap the crankcase, less if your case already has the holes drilled and tapped.

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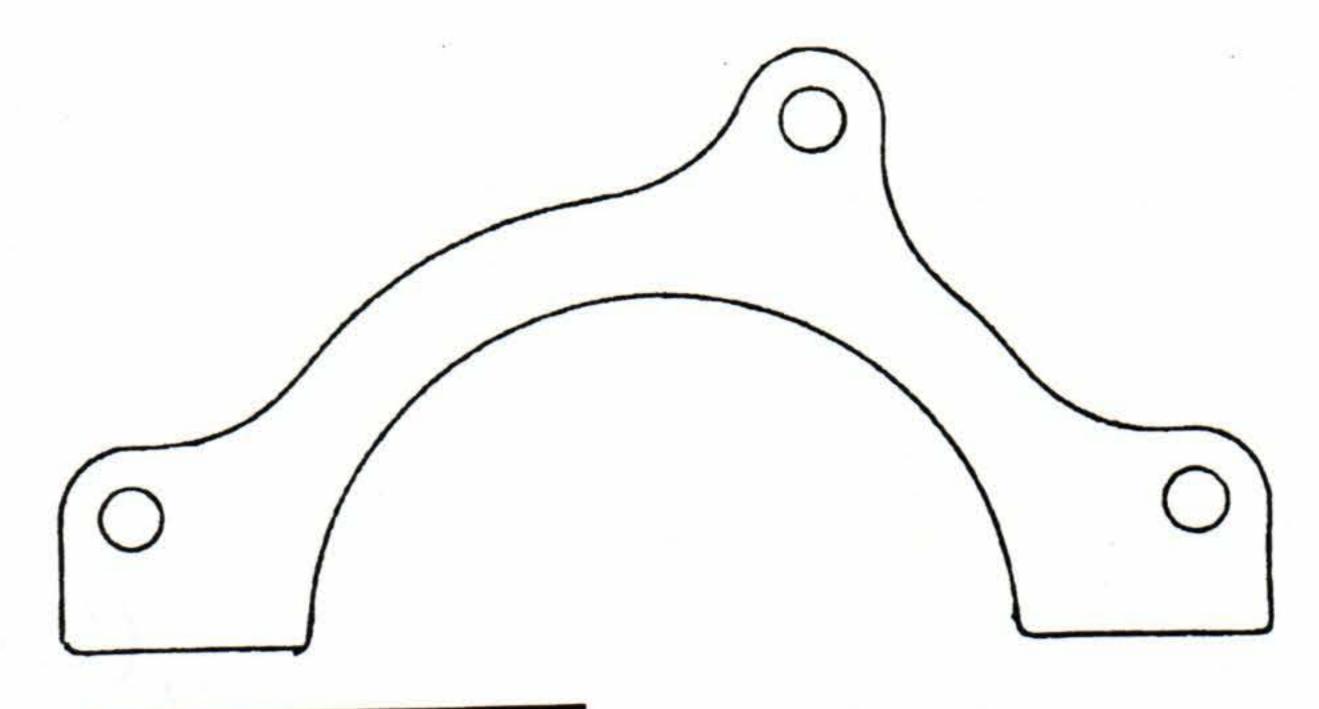
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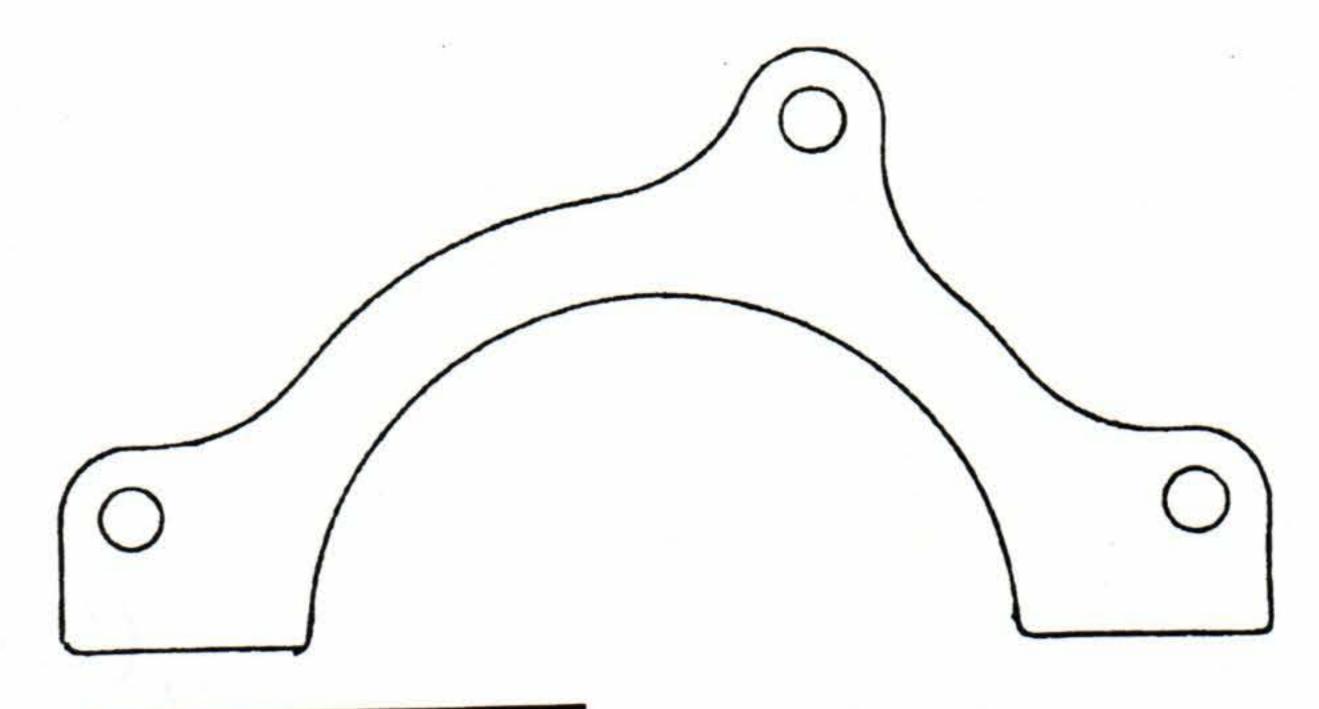
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