29/12/2022 - Fitting brakes on gear legs (cntd) - 4h

Category: 4.4. Landing gear
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Work on the brake calipers continuous. I disassembled the brake system.
It was quite confusing at the start because the brake housing can actually "slide off" of the brake bracket.

This is kind of worrying. But if you see the system together, it actually makes a lot of sense.

The second halve of the brake on the left side of the picture bolts onto the outer clamp. As both parts are enclosing the brake disc, the clamp can not move off of the wheel and brake disc.
The "loose connection on the brake bracket is actually there to allow the brake caliper and discs to align themselves around the brake disc.



Here are the wheel bearings, these come clean and need to be "packed" with wheel bearing grease. I used Aeroshell grease for this.



Most builders use a grease packing tool but I'm not afraid of getting my hands dirty and packed them by hand.
The result looks like below.



Then cleaned the internal part of the wheel assembly to avoid having dust or anything inside.

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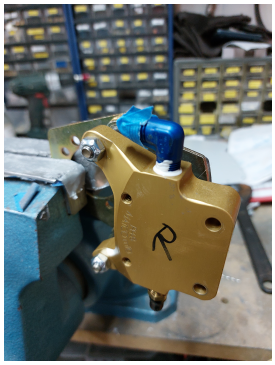
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Installed the U403 brake mount bracket with the brake attached to the landing gear leg and torqued the nut.



Also installed the AN822-4D elbow using thread sealant. It takes quite a bit of force and some help of a wrench to turn around the elbow some rotations as to get it inserted in the hole. Took it as far as I could get it without fearing breaking the elbow.



Here's my setup of the engine mount and gear legs. quite unstable but it did the job.



Other side also installed.I bought flexible brake lines while I was in Australia for work and these have special connection nuts. You see one

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of them installed here on the AN822 elbow.



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