

Governor - How to Repair Damaged Oil Feed Threads

I wouldn't recommend this unless the governor body meets these two conditions:

- 1.) Its a working tractor or you intend to replace this governor later on a show tractor
- 2.) The threads at the oil feed are really gone

Knowing that a new (or used for that matter) governor body can cost you close to a hundred bucks, I decided to give this a shot. Total job costs about \$17.00.

Start out by removing all the parts in the governor (see a related governor article in the How-To's section at the N Tractor Club (www.ntractorclub.com)). When removing the pin that secures the lever 9N18189 (short lever), be sure to brace the rod and fork from beneath as you drive the pin out. I used a 3/4" deep well socket for support and a fine nail set to drive out the pin. You must support the shaft and fork or there will be a chance you damage the seat and bushings that the shaft slides into as you are driving out the pin.

Secure the governor body in a vise wrapped in a towel as you drill out the damaged threads. The towel keeps from bunging up the housing. Use a 7/16" high speed bit and hold it perpendicular to the face of the body as you drill it out. I had my wife watching from one side as I kept an eye on the angle from the other. I bought a new bit for this as I had dulled my others on steel. Bit cost \$10.00



Tap the freshly drilled hole with a 1/4" x 18 NPT tap. Extreme care must be taken here to keep the tap straight and aligned with the hole, as well as keeping downward pressure. Use cutting oil. (Pot metal will shear much quicker than steel.) Tap cost \$5.29



Take the 1/4" MIP x 1/8" FIP bushing and anchor it in your vise. Saw off approximately 3/16" of the male end. This fitting will bottom out against the lever rod and fork and prohibit it from rotating properly. After you have sawed the end off, dress it on your grinding wheel and brush it clean. Wrap the threads in Teflon tape and tighten it into the governor housing. Next, wrap the original elbow 87381S in Teflon tape and tighten it into the bushing. Fitting cost about \$2.00



While I had the arms off my governor, it was a good time to repair the wobble that is so common with these governors. I cut a strip from an aluminum soda can, greased it and wrapped it inside the lever (9N18190 (9N, 2N) or 8N18190 (8N)) as a shim and re-assembled the governor.



Be sure to flatten the face of the body as the related governor article in the NTC's "How-To" section describes. Do **not** over tighten the bolts, and **make sure the short bolt goes back in the top hole.**

Good Luck!
Mark in Biloxi



*Best internet source
of information and help
for old Ford tractors.*

www.ntractorclub.com