

## **Modifying A Governor Adapter Block Off Plate to Allow Easy Conversion from Constant Speed Propeller to Fixed Pitch**

*I am interested in the modified governor drive plate solution. I have all the parts except for the actual drive plate. If I buy one of these special plates, can I avoid adding a hole to the crankshaft's rear plug? This sounds like a solution! Do you have a part number or where I can find a plate like this? Regards,  
Roberto Giusti*

Roberto,

Yes if you used one of those plates you could avoid the rear plug issue. I don't know a P/N, but I have seen them. Maybe custom modified and maybe manufactured that way, I don't know. What needs to happen is the plate needs to be machined or end milled in such a way that there is a passage cut into it, connecting the lower oil hole on the drive pad to the center drive gear hole in the pad. This will allow the oil pressure coming down the prop tube, from the nose bearing to vented and relieved, into the crankcase through the drain hole in the center god drive hole. The plate modification would in essence be connecting these two oil passages, the one connected to the prop tube and the drain hole in the drive gear area.

You can relieve it by adding a hole to the rear plug, removing the rear plug or by installing a properly configured prop governor drive plate. Most governor drive plates are not properly configured and need to be modified to provide a drain channel for the oil from the nose bore of the crankshaft, through the prop oil supply tube, to drain through the prop governor drive. Do not assume the plate you have will affect this drain, as most will not!

I just happened to see a governor drive plate modified like this today. I took a picture of it. Unfortunately there is no P/N on the plate. Good Luck,  
Mahlon Russell Mattituck Engineering



Actually the governor drive cover with a curved slot IS a factory part. My 0360-A1A came with that cover drop shipped from Lycoming and purchased thru Van's. By the way the set up only works if a governor drive is installed and the return line from the front is in place. I used that set up for over a year before installing the constant speed prop.  
Martin Sutter building and flying RV's since 1988

Thanks for the clarification Martin. I dove into the Lycoming catalog, and the part you have is a 72378 "Cover, governor drive" and does have the slot. Some O-360's come with a 69106 "Cover, drive adapter pad" that does not have the slot. The previous pictures could be used to create the slot needed in this part - that is all my sketch shows..  
Gil Alexander



Photo of #72378 Governor Adapter Pad Cover which comes with the slot.

Below is a drawing of how to modify the #69106 plate [or a home made plate] so that it will work.

