

Whirl Wind Propellers
SERVICE LETTER

SL-300-3B_72-091620: 300 Series Propeller Hubs

TO: ALL OWNERS/OPERATORS OF AFFECTED PROPELLERS

SUBJECT: PISTON O-RING UN-SEATING IN HUB CAUSING OIL LEAK, LOSS OF OIL PRESSURE AND POTENTIAL LOSS OF PITCH CONTROL

DATE: 09/16/2020

MODELS AFFECTED: All Whirl Wind 300 Series propellers purchased before 09/16/2020

REASON: The 300 Series propeller hubs may allow the piston O-ring to extend beyond the cylinder at the high-pitch position resulting in immediate, heavy oil leakage and O-ring damage.

TIMELINE: As soon as practical.

ACTION REQUIRED: Add (3) supplied fiber washers to shim the high-pitch stop per the instructions below.

TIME TO COMPLETE SL WORK: 15 minutes. This service can be performed with the propeller on your aircraft; simply remove your spinner dome and follow the steps below.

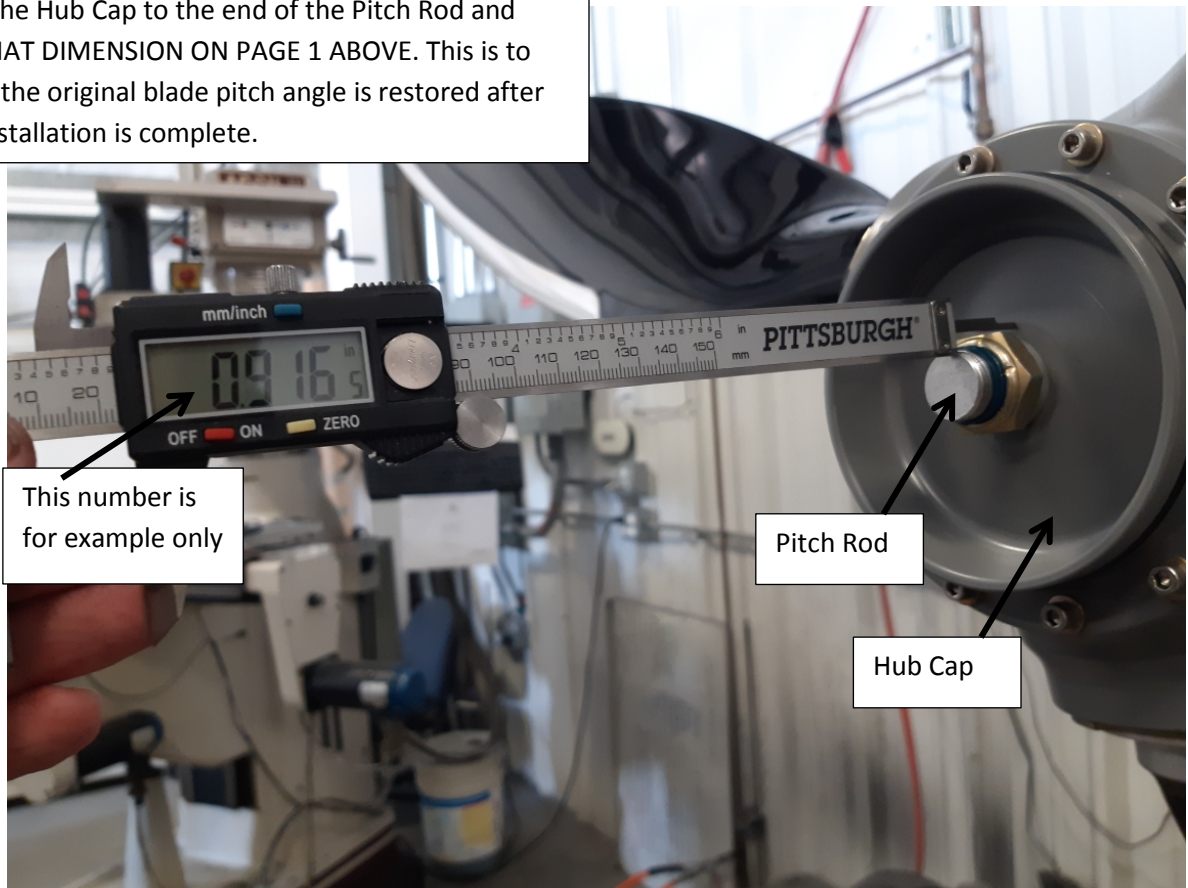
Tools:

- Digital or Dial Caliper
- 5/32" Hex Allen Wrench
- 1-1/16" Wrench/Socket

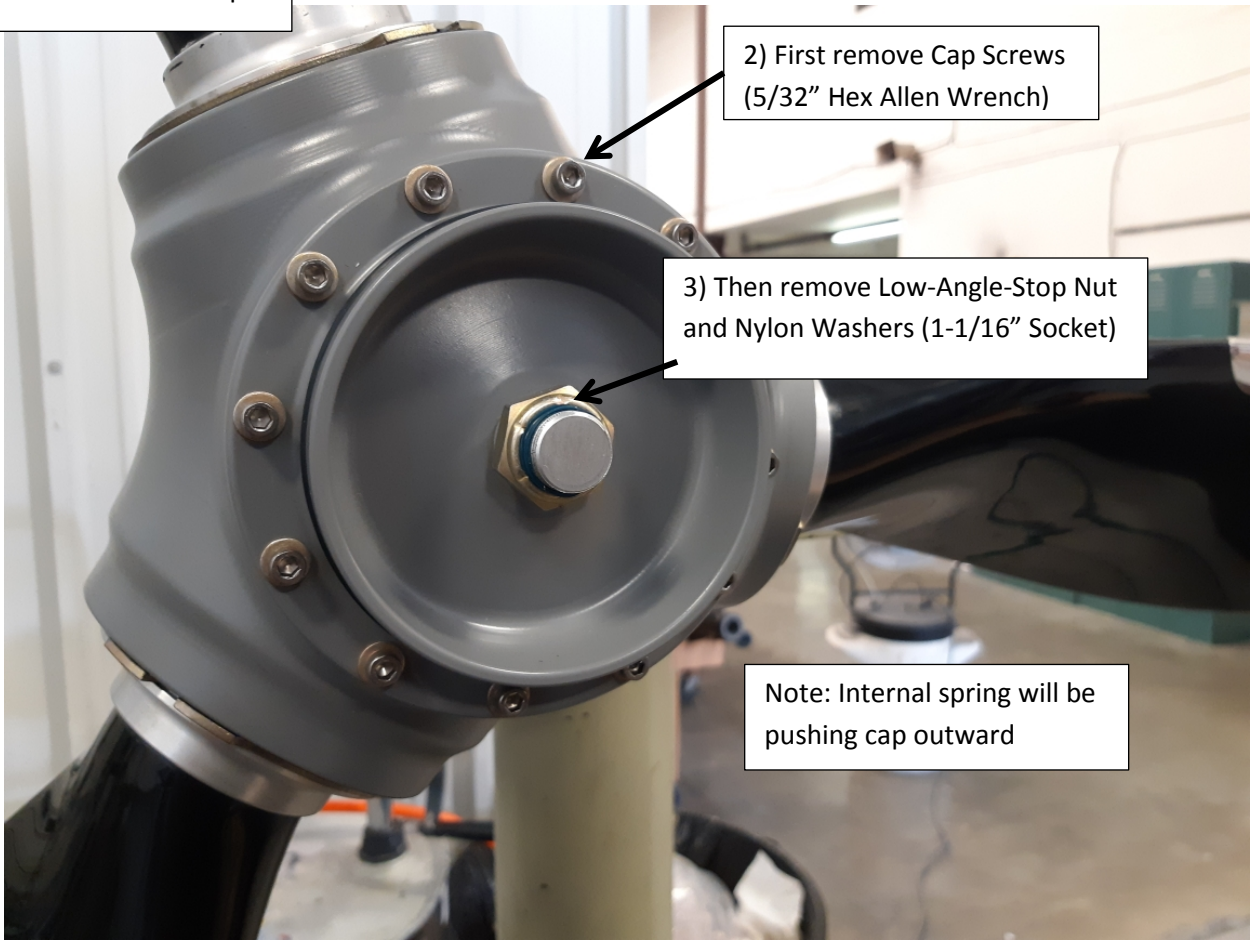
Checklist:

- Record your propeller's low pitch dimension here: _____ in.
- Remove Hub Cap
- Remove Internal Spring
- Place (3) provided fiber washers against High Angle Stop
- Install Internal Spring and ensure the High Angle Stop is not resting on screw heads
- Install Hub Cap with (1) Nylon Washer and Low-Pitch-Stop Nut (tighten only enough to contact Hub)
- Install and torque cap screws to 23 in-lb
- Remove Low-Pitch-Stop Nut and install remaining (2) Nylon Washers
- Re-set Low-Angle-Stop Nut to dimension recorded earlier
- Record in propeller logbook that SL-300-3B_72-091620 work has been completed

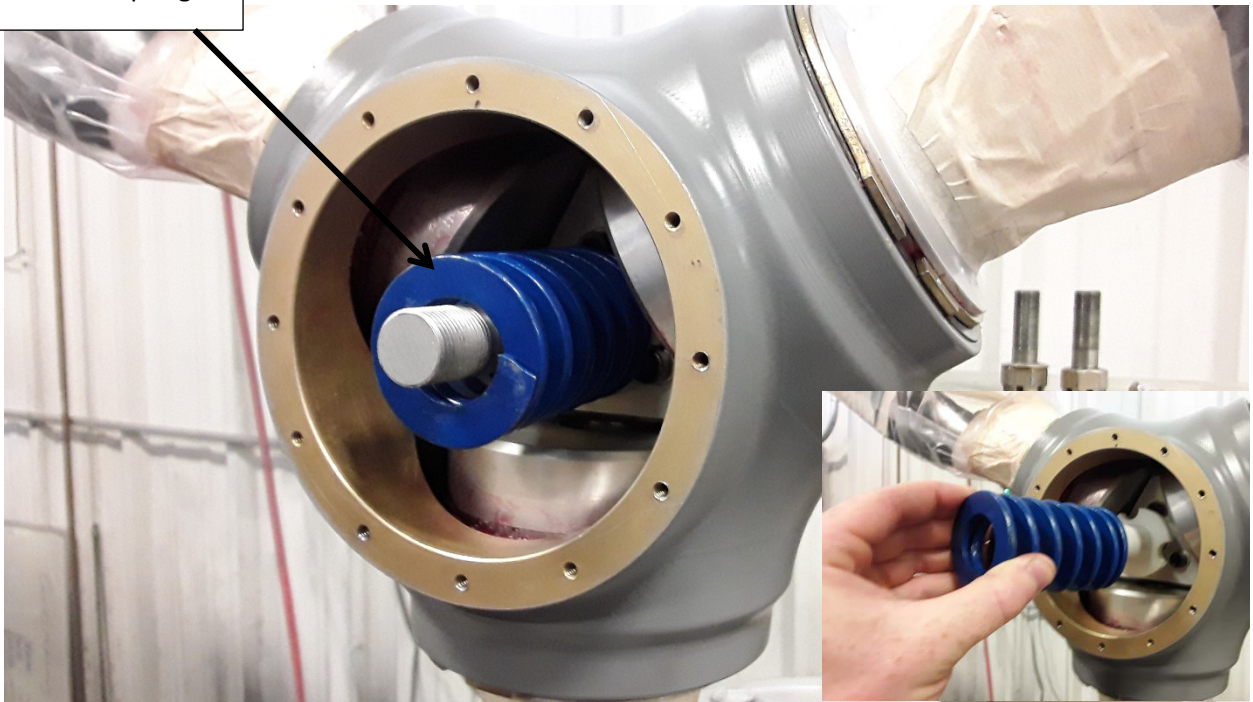
Step 1. Measure the distance ($\pm 0.01''$) from the inside surface of the Hub Cap to the end of the Pitch Rod and RECORD THAT DIMENSION ON PAGE 1 ABOVE. This is to insure that the original blade pitch angle is restored after the shim installation is complete.



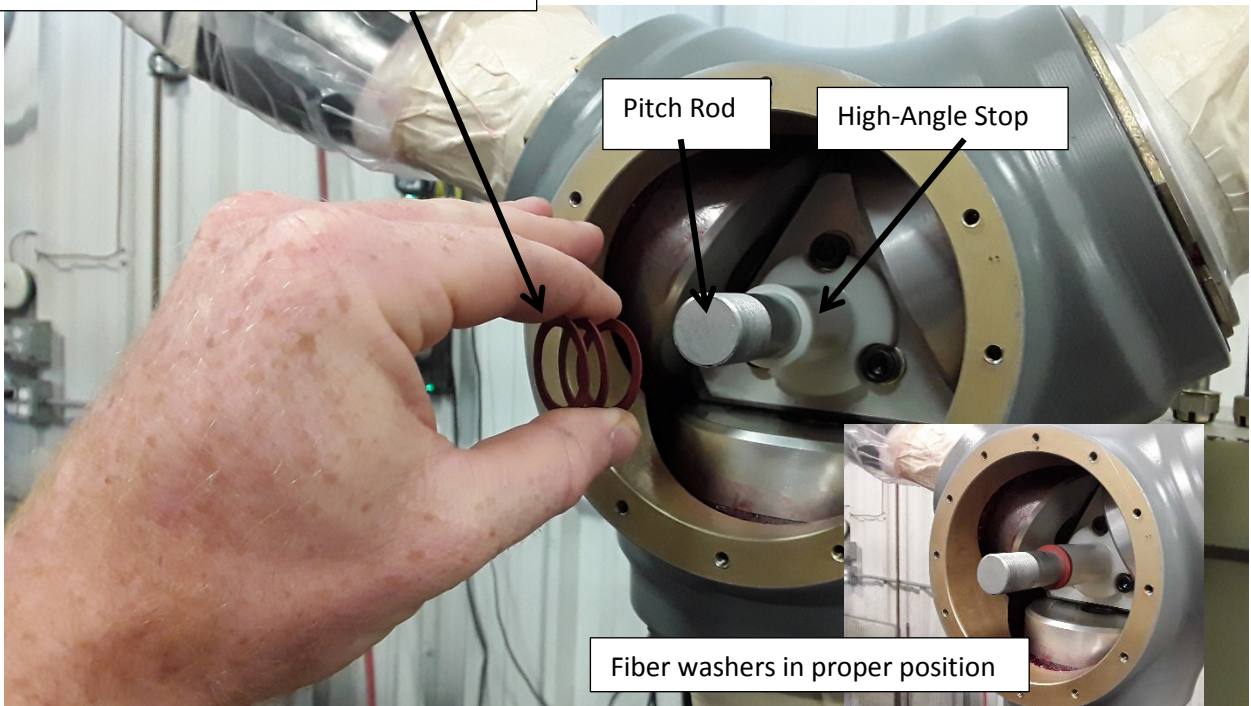
Step 2-3. Remove Hub Cap



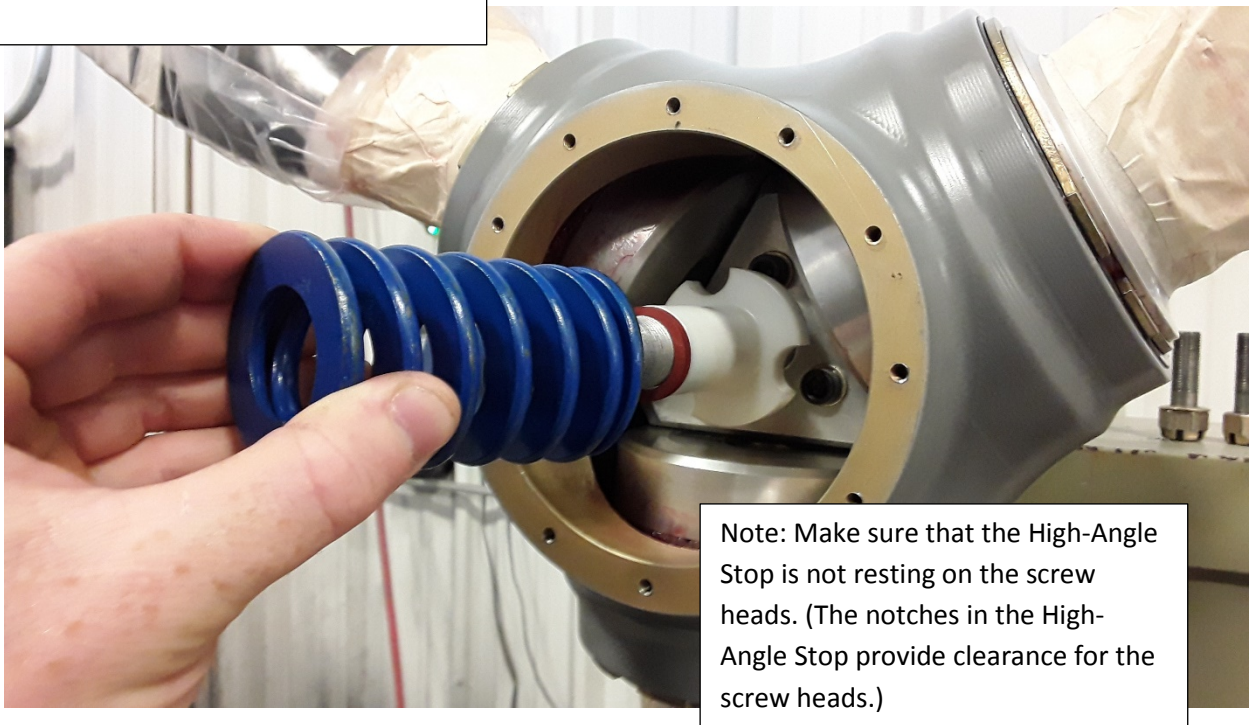
Step 4. Remove Spring



Step 5. Slide (3) Fiber Washers onto the Pitch Rod so they butt up against the High-Angle Stop



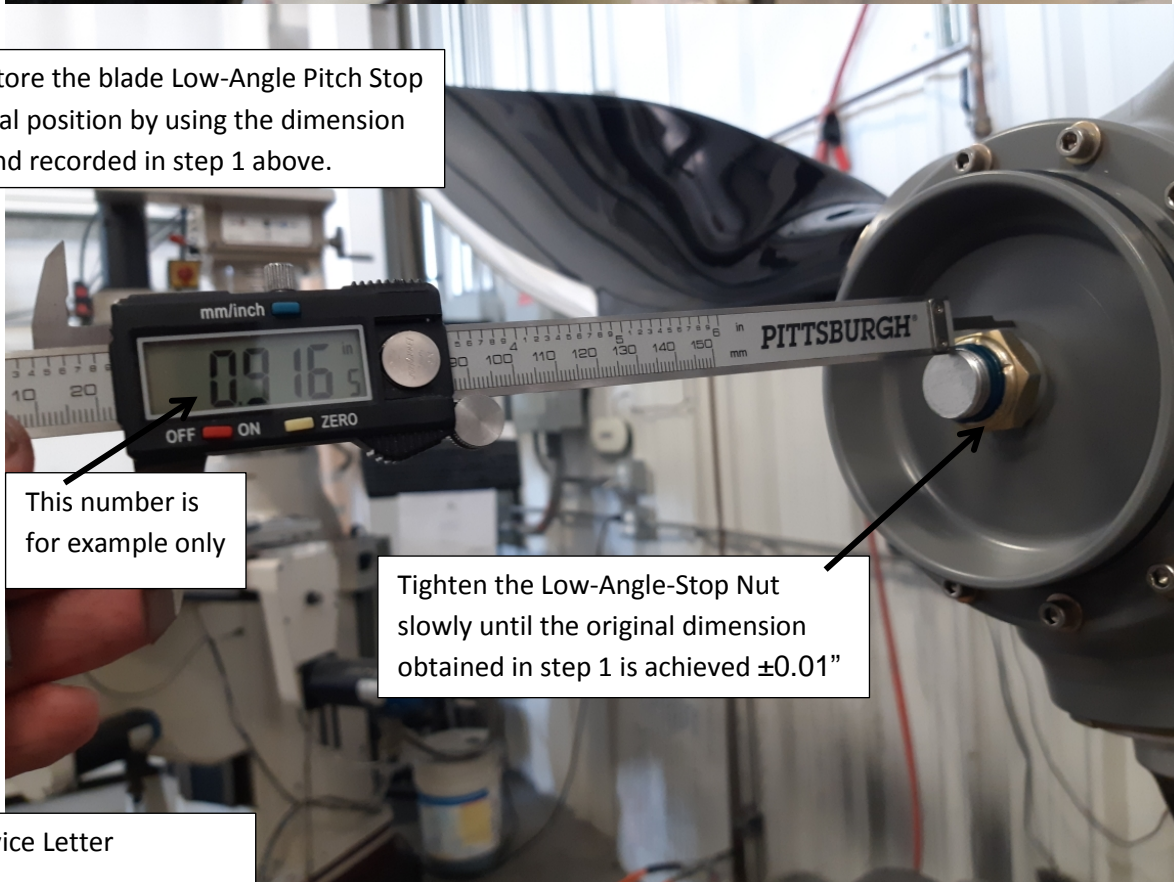
Step 6. Install the spring over High-Angle Stop



Step 7-8. Install the Hub Cap



Step 9. Restore the blade Low-Angle Pitch Stop to its original position by using the dimension obtained and recorded in step 1 above.



End of Service Letter