

Far so that knob cannot be pushed in

Contact factory

VARI-PROP PROPELLER INSTALLATION HANDBOOK
PAGE SEVENTEEN

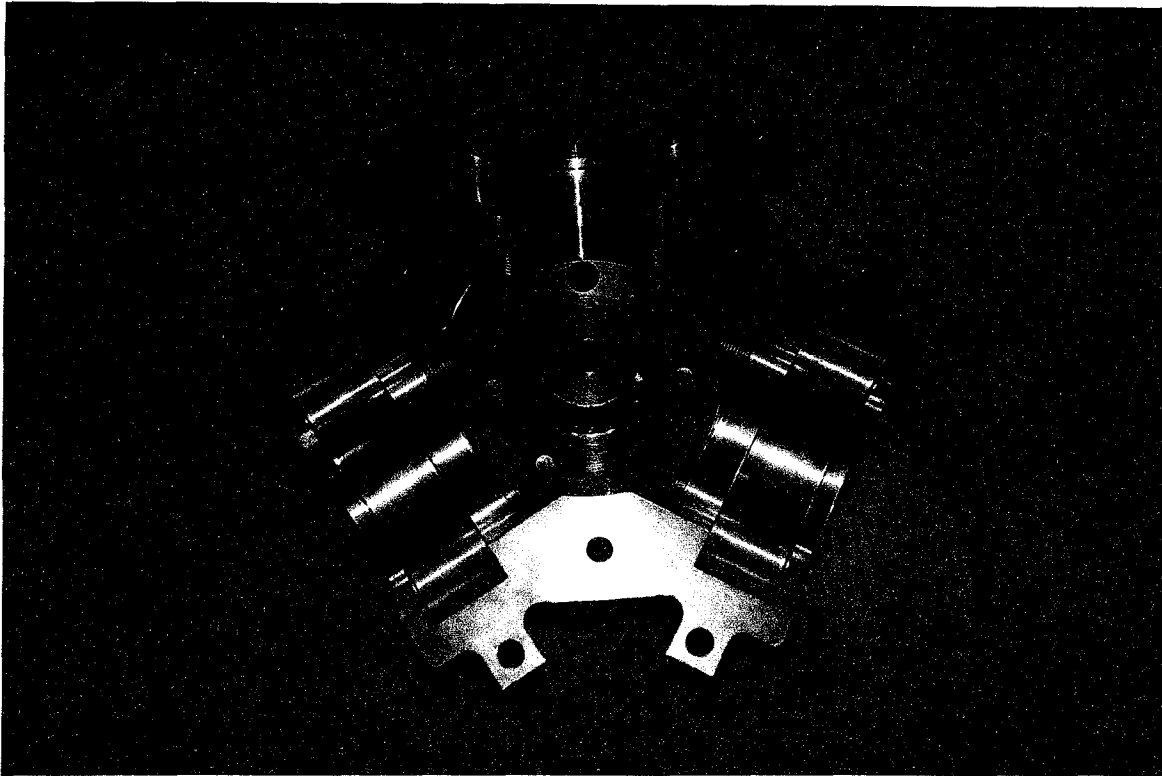
ANNEX A

PROPELLER HUB ASSEMBLY INSTRUCTIONS

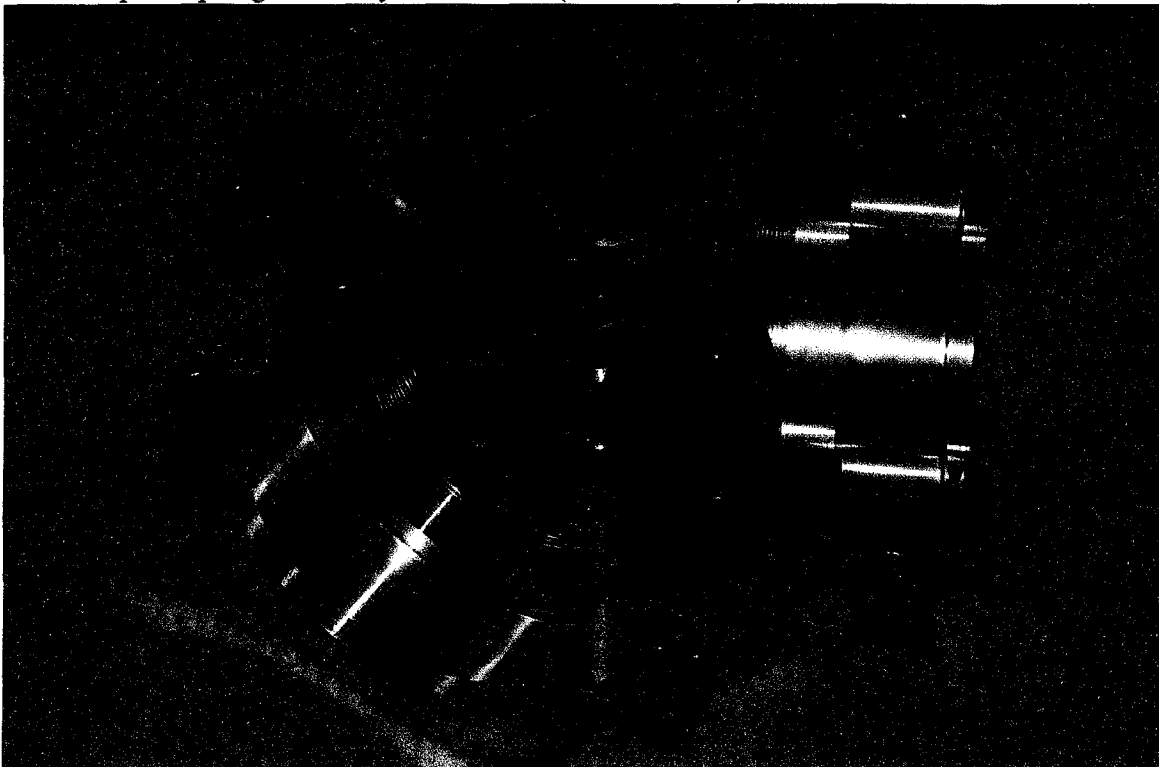
If your Vari-Prop Propeller system was shipped to you broken down, the following instructions **MUST BE CAREFULLY FOLLOWED**. Failure to follow these instructions properly can result in a serious propeller malfunction that could set up a very dangerous set of flight circumstances.

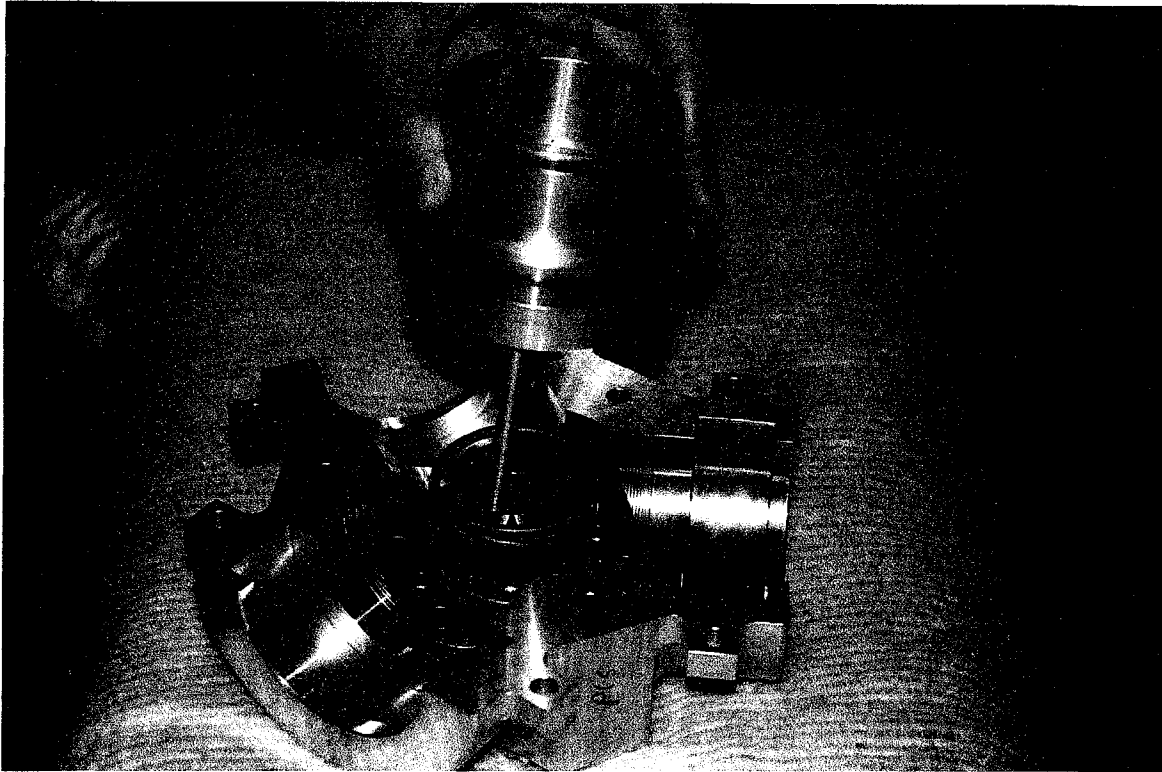
The prop hub is shipped with all of the bolts in place, but finger tight. The blades have been shipped separately.

1. Disassemble the aluminum hub from the steel propeller shaft by removing the central 7/16" bolt.
2. Remove the hub assembly and separate the two halves by removing all of the 3/8" Bolts.
3. **DO NOT** disassemble the hub shaft from the front half of the propeller hub. These are the two parts that are bolted together and safety wired.
4. Find a large flat surface and set the front half of the hub (The part with the steel Hub shaft bolted and safety wired to it) on the surface with the bolts down. (See photo #1).

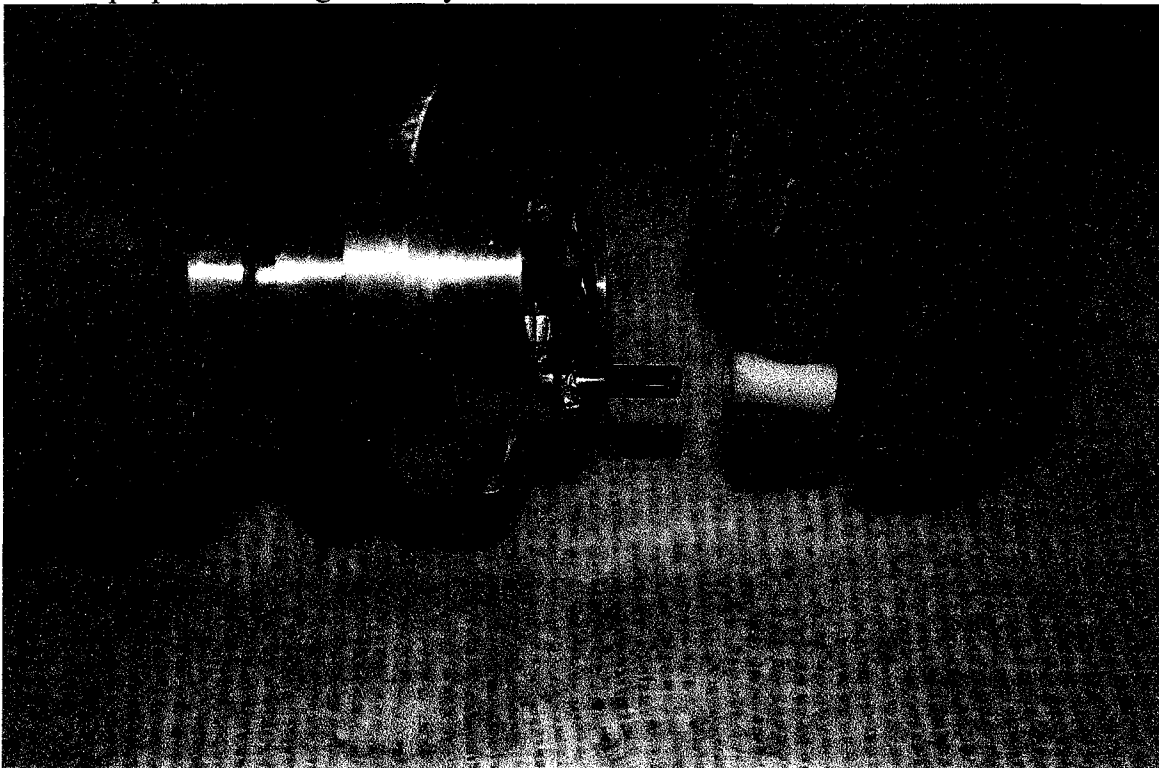


5. Place the spring over the splined hub shaft and the adjusting spool over the spring with the spring in the slot provided in the adjusting spool. (See Photo #2) Center Spool/spring assembly in the hub. (See Photo #3)

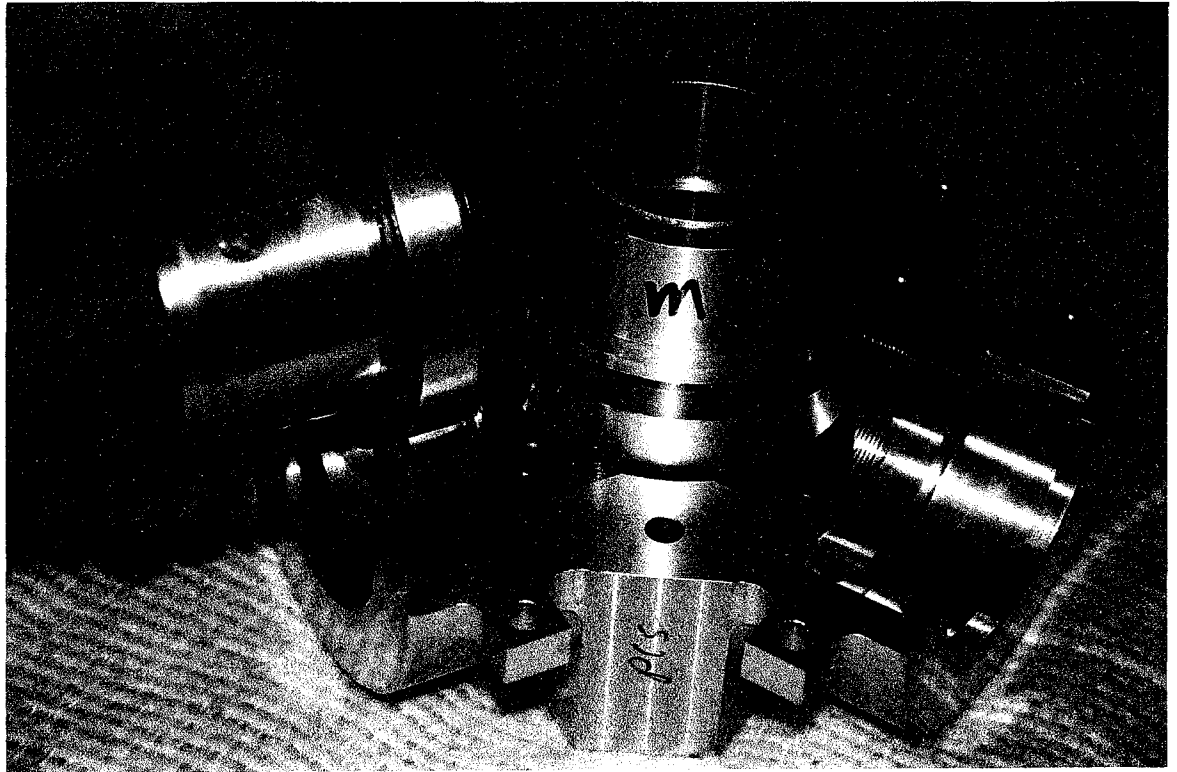




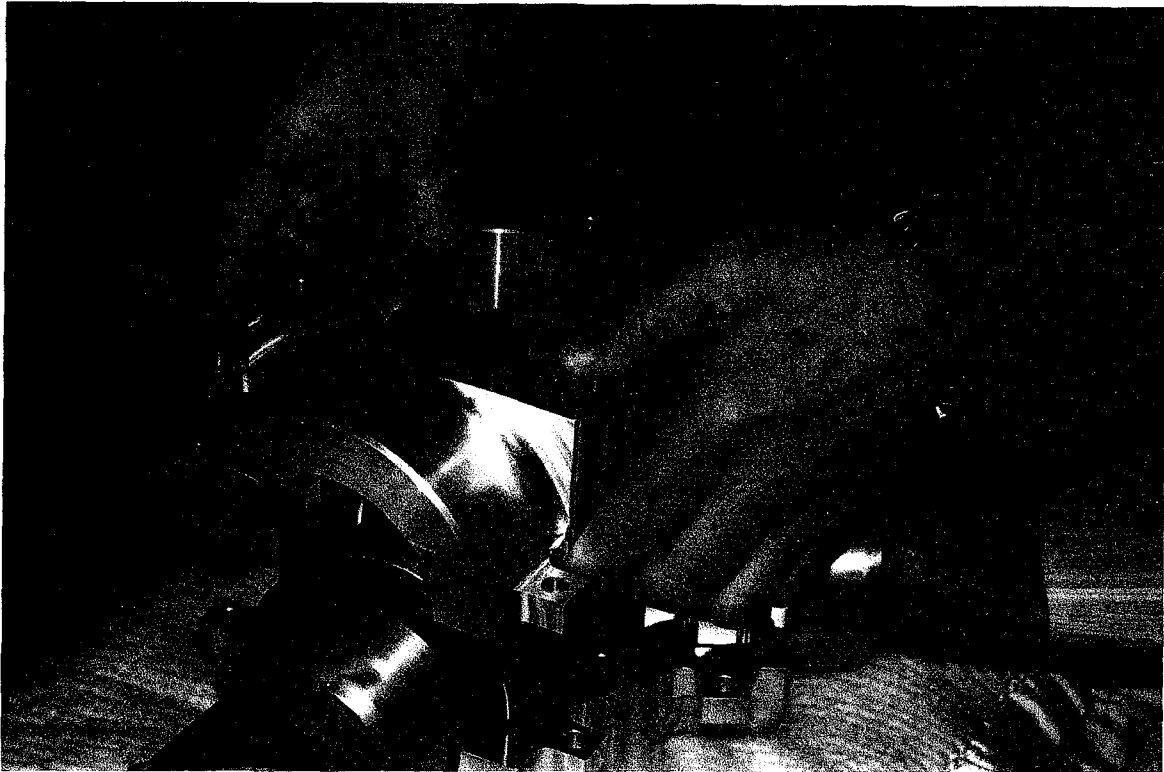
6. Pick up a numbered blade/bearing assembly (see Photo #4). Lightly grease the Bearings on the blade/bearing assembly and install a Delren plastic bearing on the drive pin sticking out of the blade ferrule at the base of the propeller/bearing assembly.



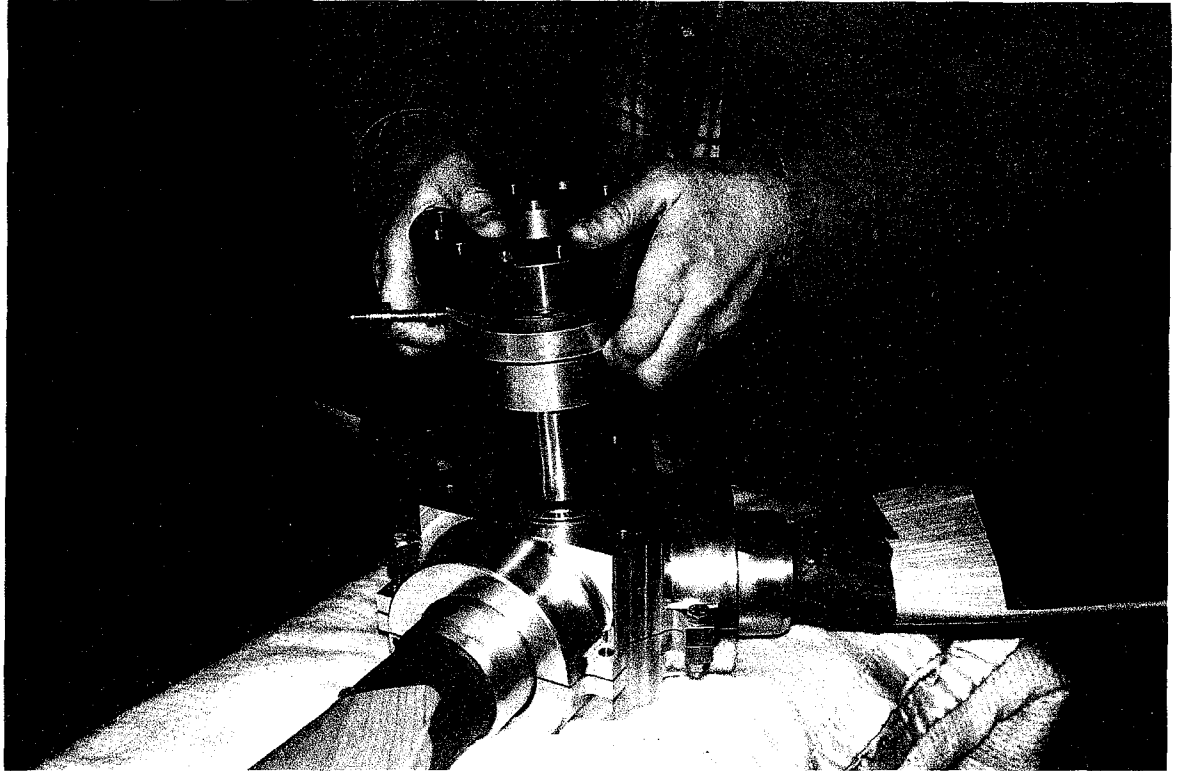
7. Locate the corresponding number on the hub that is on the blade/bearing Assembly. Slide the delren bearing into the slot (See Photo #5) and And carefully rotate the blade/bearing assembly into the corresponding numbered Pocket on the blade hub.



8. Repeat steps 6 & 7 above with the remaining blade/bearing assemblies.
9. Locate the stamped numbers on the hub halves, and carefully set the back hub half on the front hub half with the stamped numbers next to each other. Gently slide the back half over the exposed bearing assemblies on blade/ Bearing assemblies and slide down until the two hub halves are carefully mated together. (See Photo #6)



10. Bolt the two hub halves utilizing the drilled bolts and castilated nuts supplied. Torque the bolts to 160-190 inch pounds in such a way that the cotter keys can be installed in the castilated nuts.
11. LIBERALLY grease the thrust bearing that go between the adjusting spool And the piston that is located inside the cylinder.
12. Place the greased bearing assembly on the adjusting spool and gently slide the Engine hub/cylinder assembly into the center of the adjusting spool, ensuring that the adjusting spool slides into the cylinder/piston assembly. (See Photo #7) Gently rotate the engine hub/piston assembly until the internal splines are engaged.



13. Install the 7/16" bolt through the center of the hub and torque the locking nut
And bolt to 450-500 inch pounds.

**YOUR PROPELLER IS NOW FULLY ASSEMBLED AND IS
READY FOR INSTALLATION ON THE ENGINE.**