



Instruction manual for CARF SL Propeller hub (3- and 4-blade)

Scope of delivery:

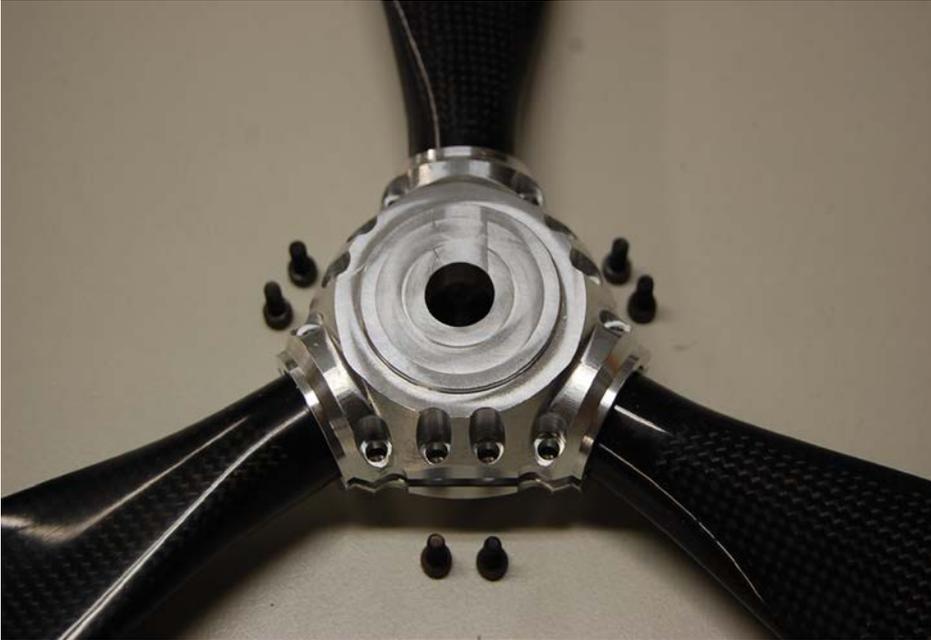
- Aluminum propeller hub with adjustable pitch
 - Adapter for Moki 215 cc / 250 cc radial engine
 - Aluminum spinner dome
 - Screws
 - 3x 32" full carbon scale blades
- Or**
- 4x 30" full carbon scale blades

General Information:

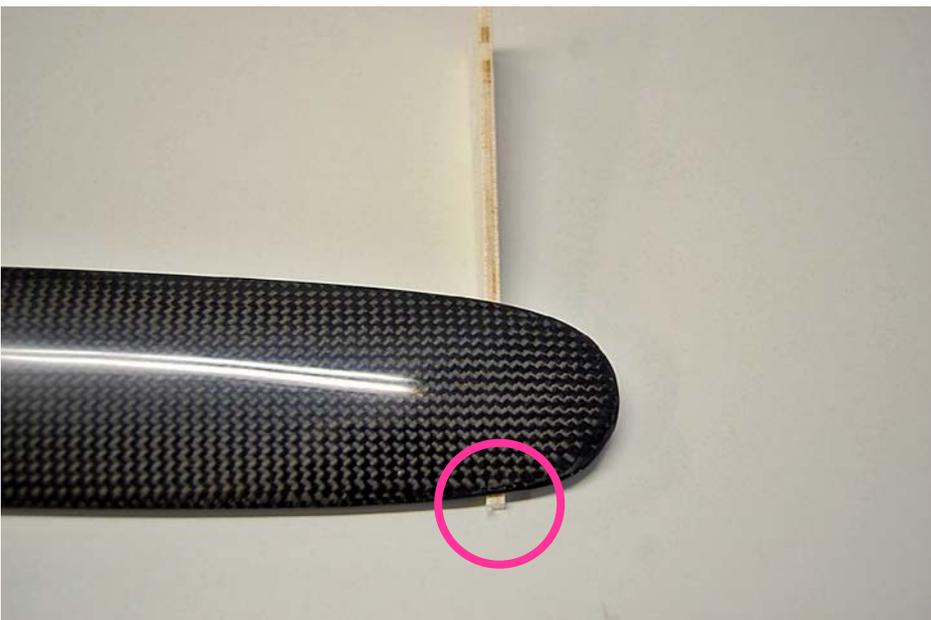
The SL Propeller hub we use for our CARF Propellers does NOT have an adjustable center piece, as you might have experienced with other manufacturers. The reason for this is that the center pieces with the pitch dial at the front hub have proven to work unreliably. They do not set the pitch of every blade symmetrically, so by using the center dial only, significant vibration due to asynchrony pitch of the individual blades had always been experienced. Thus, the pitch angle of every individual blade had to be checked and corrected manually with a jig. This being the case, we decided to omit the center dial and center piece altogether and rely on the only method to get these large and heavy propellers set precisely: A pitch Jig at every blade and manual precision.

1.
Please use a straight surface for the installation.

2.
Place the propeller blades (3 or 4 blades) in the lower bowl of the hub and screw it with the upper shell with 2 screws each. You must still be able to rotate the blades. (See picture)



3.
Cut out the jig (see page 4) and glue it on a piece of ply wood. Slide the jig under the end of the blade. (See picture)



4.

Take following measure from the hub center to place the jig right. (See picture)

3-blade: 37.50 cm to the jig to get the 32x16" propeller.

4-blade: 35.50 cm to the jig to get the 30x14" propeller.



5.

Tighten all screws firmly after adjusting the blades.

Then check the setting once again.

6.

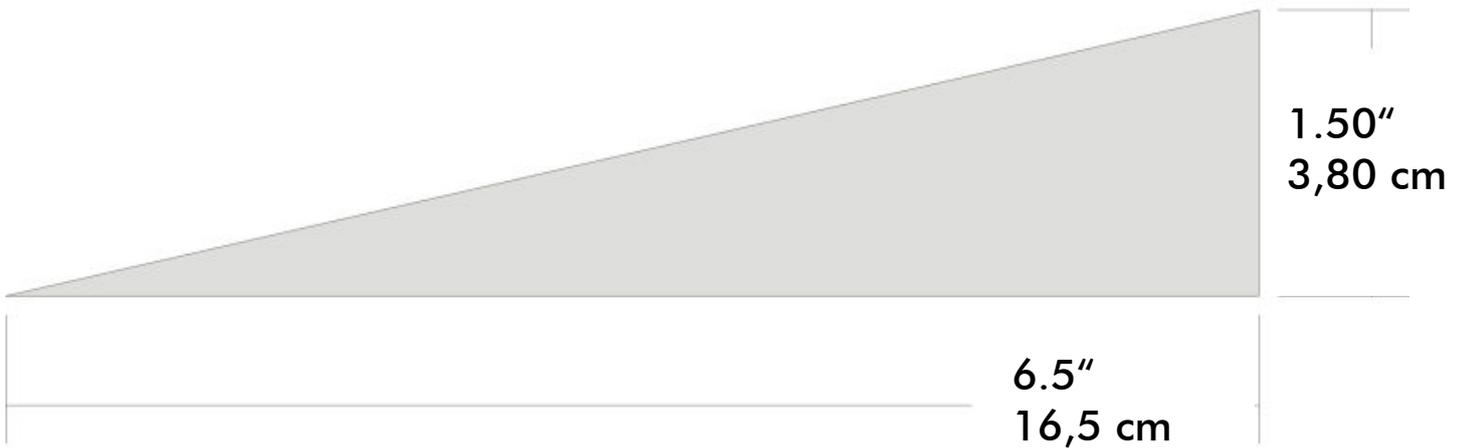
Mount the hub to the engine and tighten the center bolt. Then, while mounted on the engine, re-tighten all the M4 bolts once more.

Note:

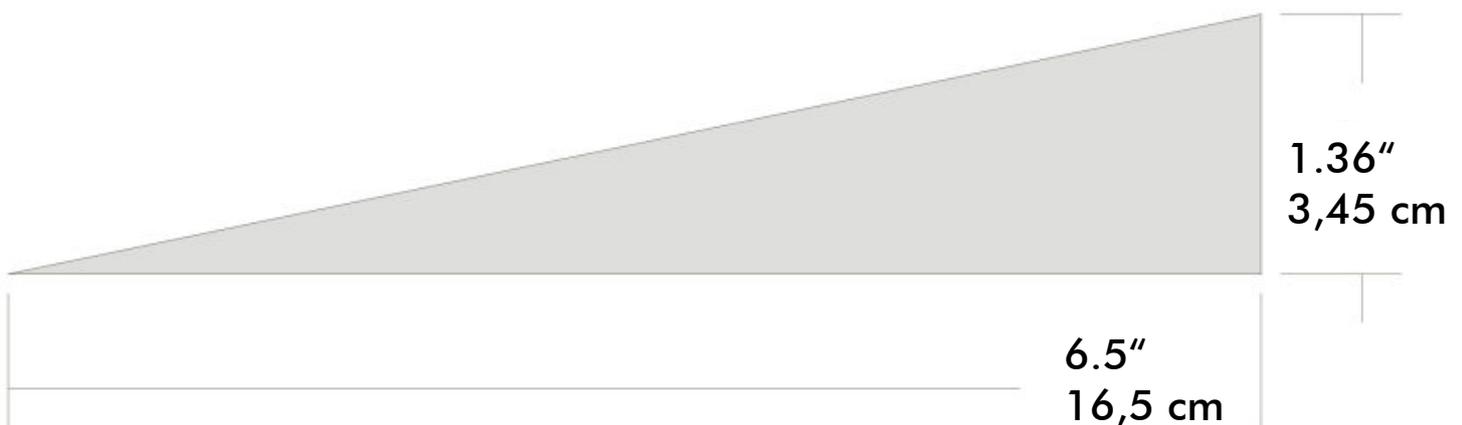
- Only use the propeller hub for model aircrafts!
- The blade-settings must be done before mounting the prop at the plane!
- Please check the weight and the balance of each individual blade first, to ensure that the blade is equal!
- Please check every screw regularly before flight operations!

Propeller Pitch Jig

P-47 Thunderbolt 30" 4-blade



F4U-1D Corsair 32" 3-blade



www.carf-models.com