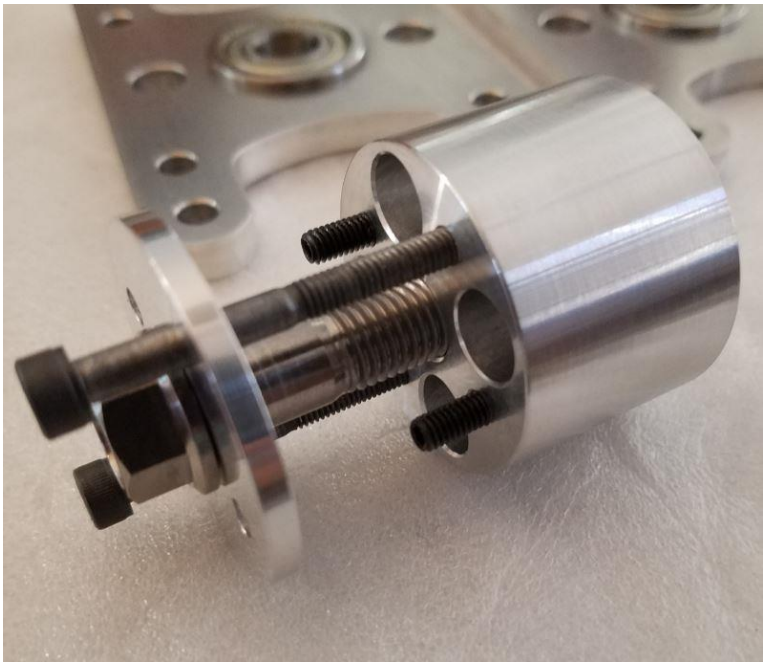
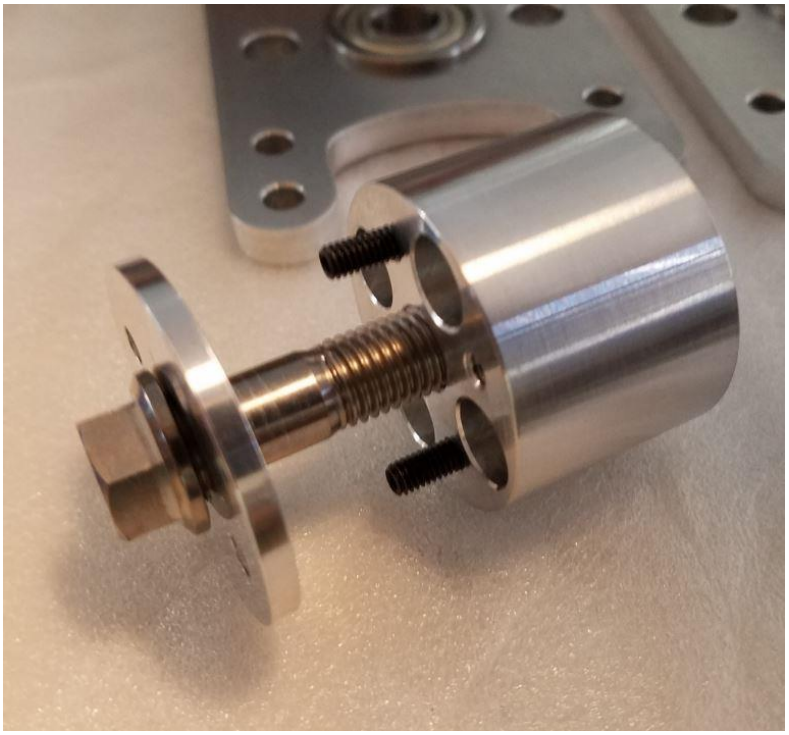
Prop Pattern Drilling & Mounting Options

There are several ways to mount props on the StinGRs. The recommended option for the StinGR 120, 150, and 170, is to use all four 4mm bolts plus the center M10 titanium bolt.

The StinGR 85 has several additional options with the center M10 titanium bolt. The first is the two 4mm bolts and two studs.



The second option is just two studs with the center bolt, or you can use 4 studs as well.



And if you want, you can use just the center bolt with 24-inch propellers.

Important – With all options, please make sure that the titanium center bolt is seated flush on the aluminum prop washer. There is a ridge under the titanium bolt head flange and the flange will not seat flush on the prop washer unless it is tightened enough to press the flange flush the first time you mount a propeller. You may need to do this with both sides of the prop washer if you do not use the same side against the flange all the time.

Bolt and Stud Pattern Drilling –

We have two places where you can order Falcon C2E (light carbon electric) propellers drilled with the StinGR mounting pattern, so please let us know if you need new props for your StinGR.

If you have propellers already but do not have a drill press, here is an easy way to drill the desired pattern with a hand drill.

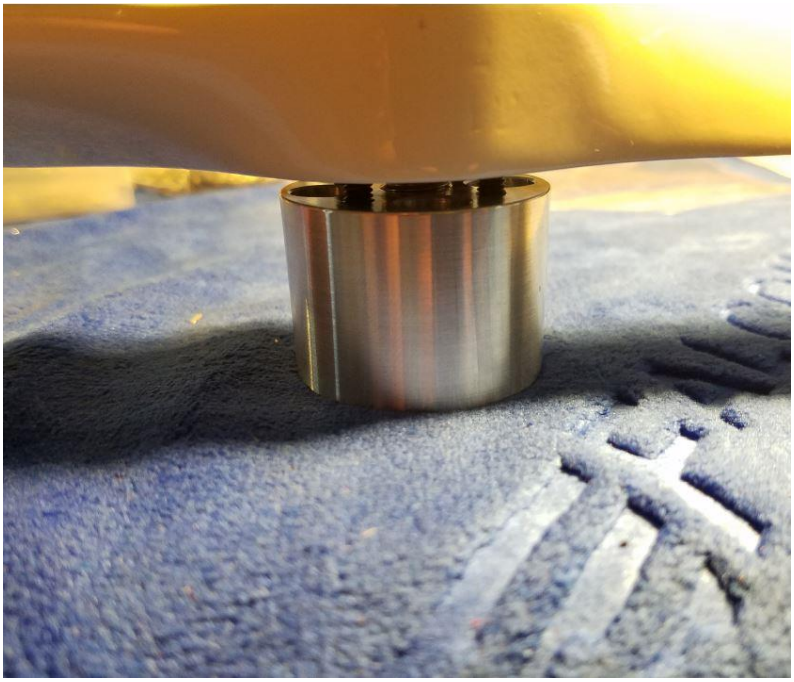
Your aluminum prop spacer is already attached to the 60T main gear, but the images below show the unattached spacer for convenience.

Mount the included studs to the threaded holes on the aluminum prop spacer.

Slide the titanium center bolt through the 3mm aluminum prop washer and through the propeller’s shaft bore hole.

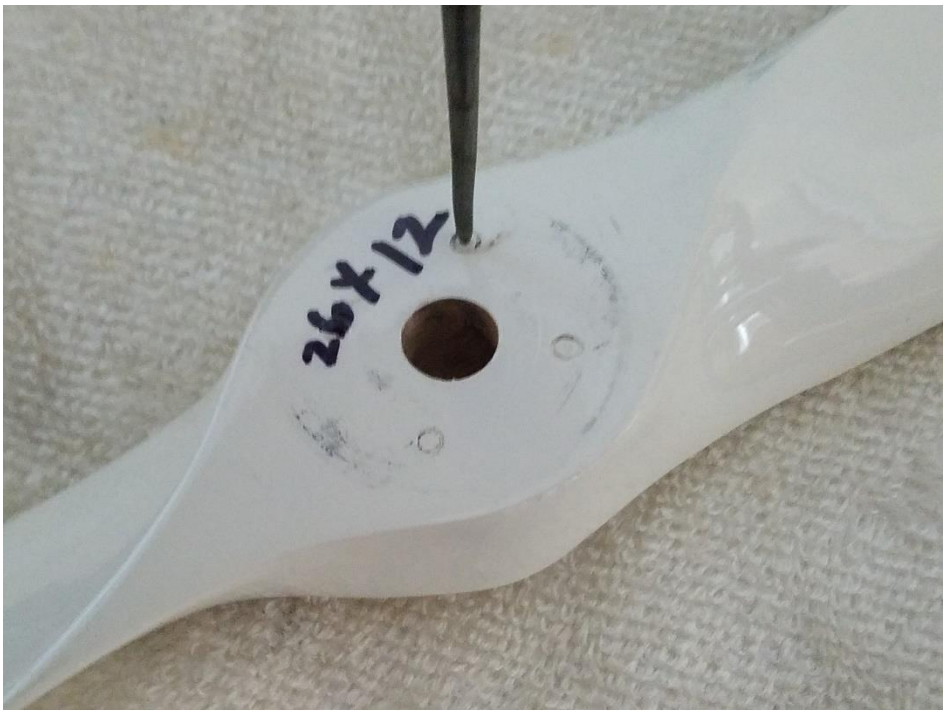
Thread the M10 titanium bolt onto the spacer.

Press the prop hub onto the studs by tightening the M10 titanium bolt onto the hub and the hub onto he studs.



The studs will leave marks on the hub.

Use an awl or the point of a nail to make a shallow drill bit guide in the center of the stud marks.



Mount the prop onto the spacer with the titanium bolt.

Making sure the bolt holes are aligned as needed to fit the spinner prop blade openings, mark the spacer, prop hub, and prop washer.

Drill one hole at a time halfway through the hub.

Place one of the 4mm bolts into the partially drilled hole to keep the prop washer from moving, and continue to drill the rest of the hole, using the bolts in each hole as you go along.

Then flip the prop over so the back of the hub is up, and repeat the process making sure that the washer, hub, and spacer are correctly aligned.

Drill the shallow holes from both sides until they meet in the middle of the hub. As each hole is drilled all the way through, thread one 4mm screw at a time to assure proper alignment.

If there are any issues, use a 5mm drill bit to open the holes a little more.

If you have any questions about this process, please feel free to call or email me.

Jim
(727) 742-8506
jim@ithikon.com