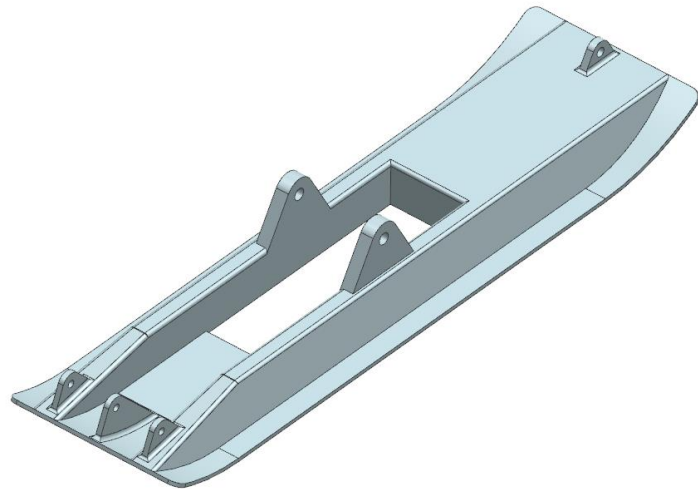


Installation Instructions
3d Printed snow skis designed by Tom Hunt
For the Avios Dh-6 1600mm Twin Otter

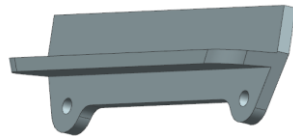


Installation Instructions
3d Printed Snow Skis For
Avios Dh-6 1600mm Twin Otter

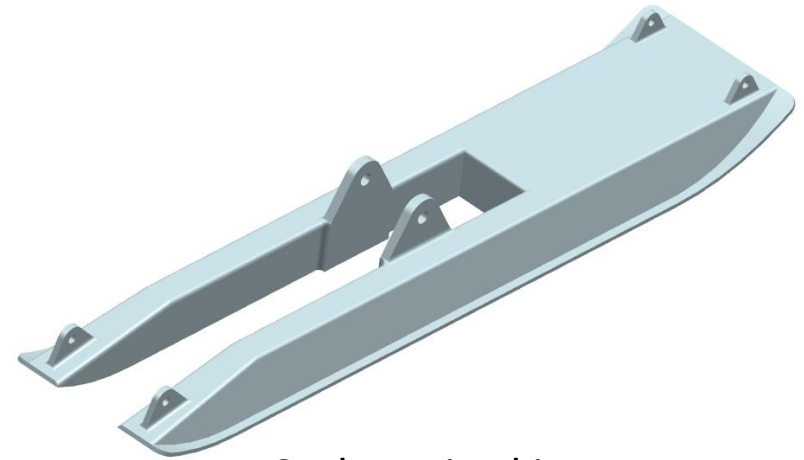
3d printed parts



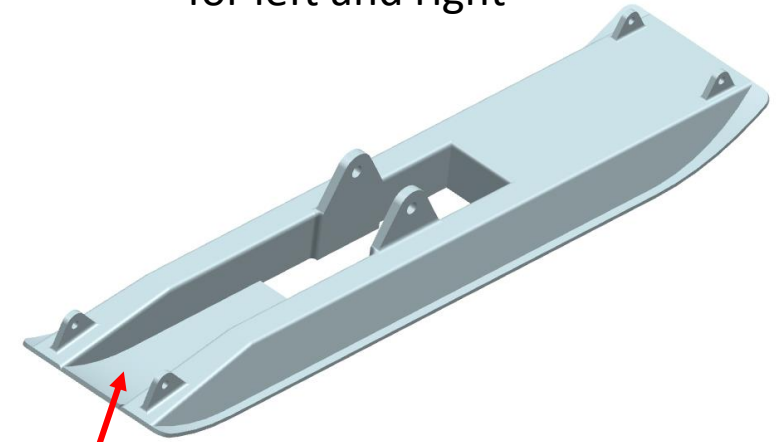
Nose ski



Wing bungee support
(left shown, STL file has both)



Scale main ski
2 required, no need
for left and right



Non-scale added lifting surface
main ski

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter

Things you will need after 3d printing the parts



Some sort of small diameter elastic chord



6 plastic clevises



And if you choose to have both wheels
and skis on at the same time:
Dave Brown Lite-flite wheels
one 2.5" diameter, two 3"
Note any other wheels $\frac{3}{4}$ " (20mm) wide
or less at the axle will do.

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter

Things you will need after 3d printing the parts

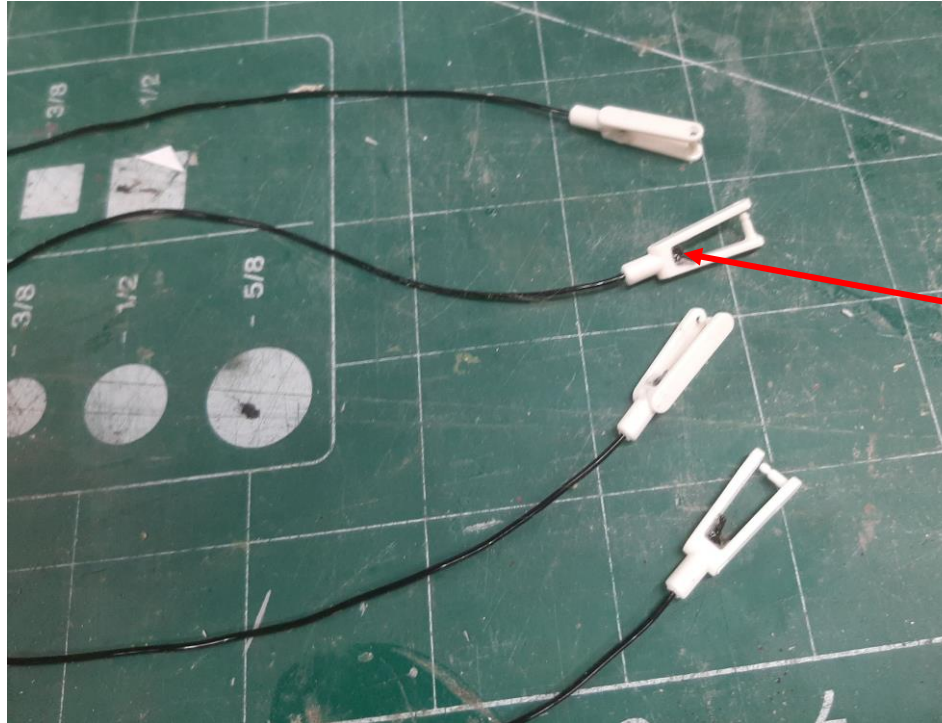


6" of 3/32 (2.5mm) thin wall alum tubing

Ca glue (medium thick is best)

And of course some basic hand tools.

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter



Tie a knot in the end of the chord, pass it thru the hole in the clevis and Ca in place

Start by making a number of chords with clevises attached at the ends.

You will need:

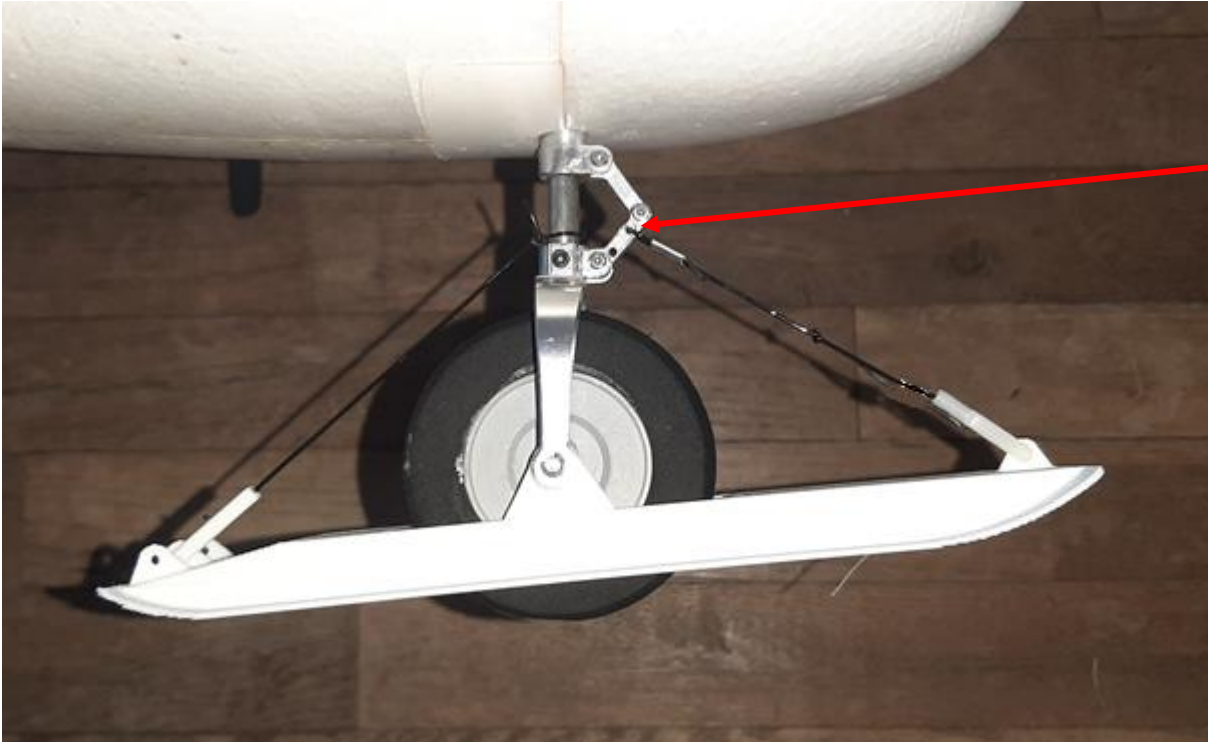
Four approx 11" long for the main gear ski, 2 left, 2 right

One approx 5" long for the front nose gear ski

One approx. 12" long for the rear nose gear ski.

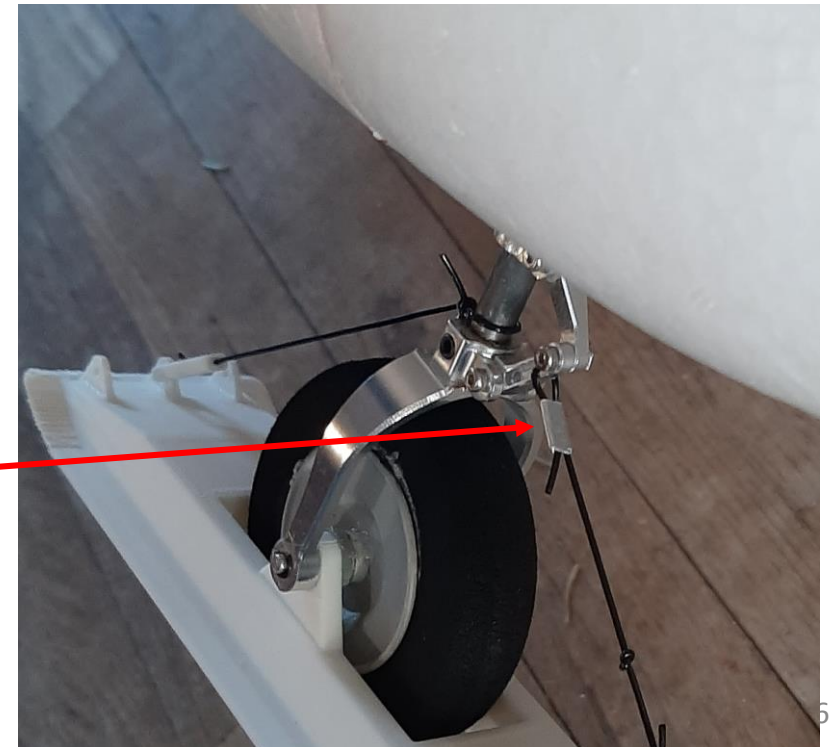
Nose ski installation

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter



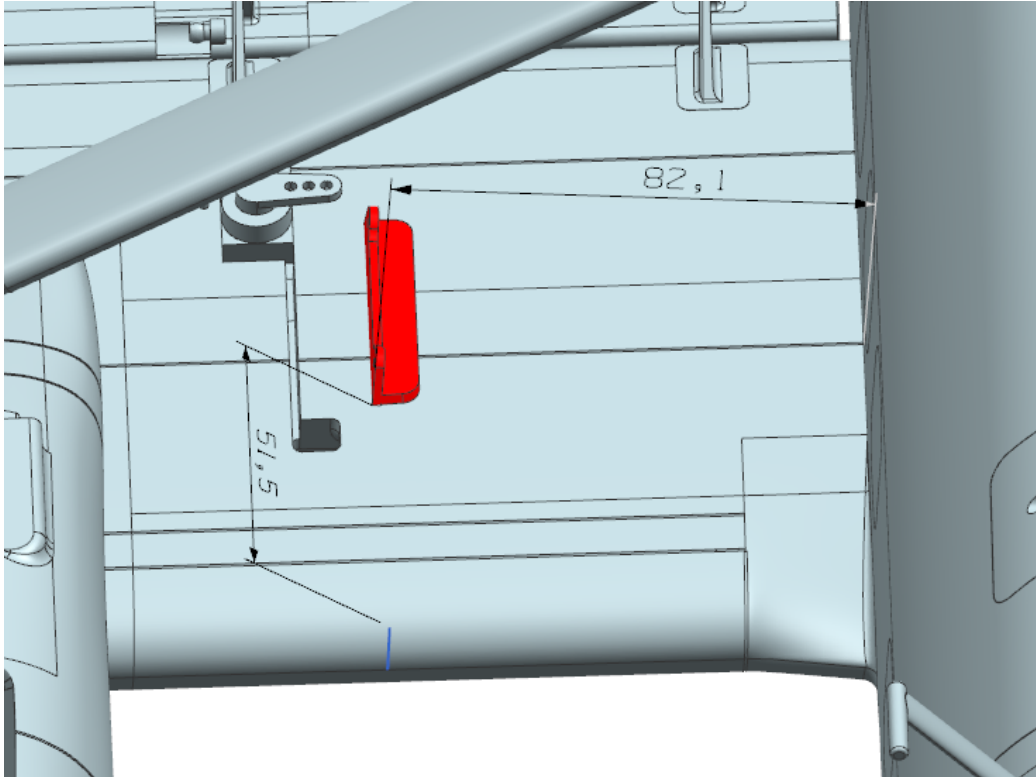
1. Remove the "C" clip from one side of the axle and remove the stock tire
2. Place the new tire in the hole in the ski and place between the fork in the nose strut.
3. Replace the axle and the "C" clip.
4. Drill a hole large enough to pass the elastic chord thru in the lower scissor of the nose gear
5. **Set the ski up with about 5° of nose up incidence (critical for soft snow flying)**
6. Attach the clevis to the back of the ski (middle lug) and pass the chord around the shaft of the oleo and tie it off. Add a drop of CA to the knot.
7. Attach the clevis to the front lug of the ski

8. Cut a ¼" long piece of alum tubing and pass the chord thru the tube, thru the hole in the scissor and back thru the tube. Squeeze the tube flat with pliers.
9. If you have too much slack in the chord, remove the clevis from the slack side and tie a knot anywhere along the length of the chord to shorten it.



Main ski installation

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter



1. Slit the bottom wing with a sharp hobby knife to accept the wing bungee support approx 82.1mm from the side of the fuselage and 51.5mm back from the LE of the wing.
2. Glue the support into the wing foam with a strong adhesive like medium thick Ca or E6000.

Main ski installation

Installation Instructions 3d Printed Snow Skis For Avios Dh-6 1600mm Twin Otter



1. Remove the wheel collar from the axle and remove the stock tire.
2. Place the new tire in the middle of the ski and place the two onto the axle.
3. Replace the wheel collar.
4. **Set the ski up with about 5° of nose up incidence (critical for soft snow flying)**
5. Attach a clevis with chord to the back of the wing support and pass the chord thru a ¼" long alum tube and through the hole in the rear inboard lug of the ski.
6. Pass the chord back thru the ¼" long alum tube and squeeze the tube with pliers.
7. Repeat for the forward side.
8. If you have too much slack in the chord, remove the clevis from the slack side and tie a knot anywhere along the length of the chord to shorten it.

