

TWIN OTTER 80E FLOAT INSTALLATION INSTRUCTIONS

Required Tools:

#1 Phillips Screwdriver
1.5mm Allen Driver
15-Minute Epoxy

#2 Phillips Screwdriver
Blue Thread Lock

Note: There are two lock collar sizes included with your float set. The two sizes are different inside diameters. The collars with the larger inside diameters (5mm) are used for the front and rear main struts (8), the collars with the smaller inside diameters (4mm) are used for the spreader bars (8), all the collars used 1.5mm Allen Driver. **Always secure set screws with blue thread lock when assembling.**



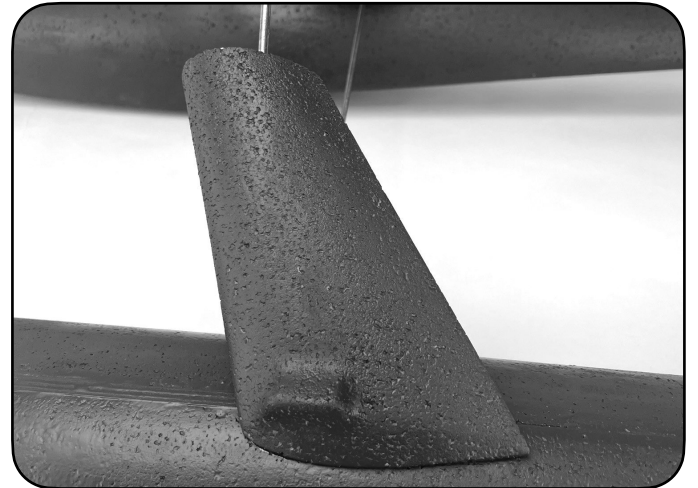
1. Secure the set screws to the flat spot closest to the middle of all of the struts and spreaders. Pay special attention to the size of the strut and inside diameter of the wheel collars. Use blue thread lock to secure the set screws in place.



2. Slide the struts through the wood mounts in each of the floats. Note that the 5mm diameter bent struts go to the forward-most hole in the front of the float and the rear-most hole in the rear of the float, and they both angle towards the center (narrower gap) as they near the fuselage. The 4mm straight spreaders should go in the holes nearest the middle of the floats.



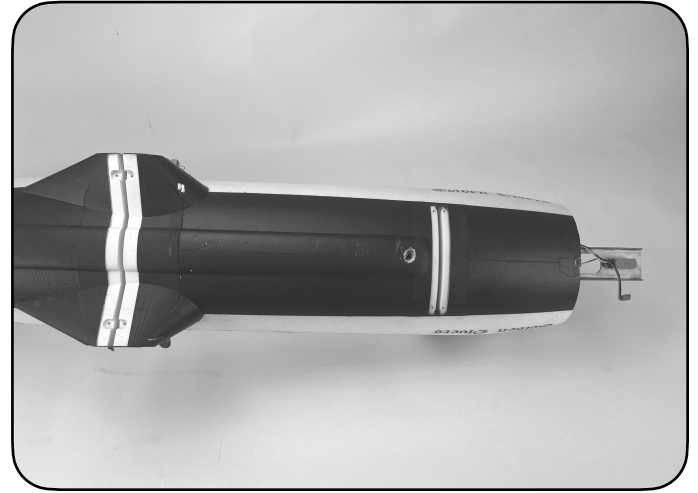
3. Secure the set screws to the struts on the outside of the plywood mounts. Pay special attention to the size of the strut and inside diameter of the wheel collars. Use blue thread lock to secure the set screws in place.



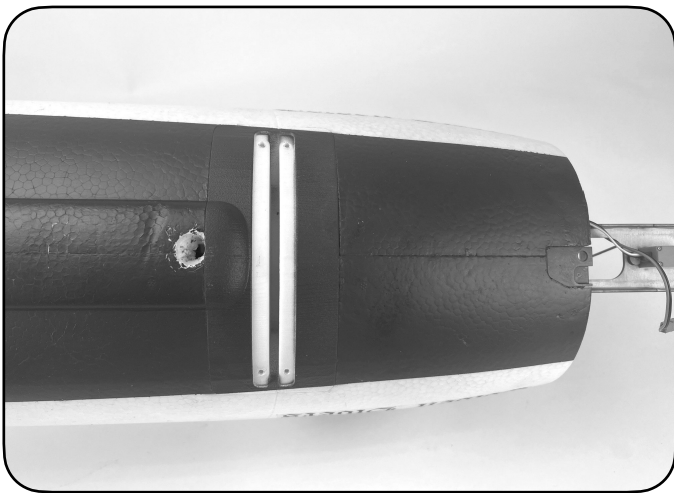
4. Glue the rear fairings onto the rear struts using 15 minute epoxy. Alternately you can leave these off for now and glue them on after you have assembled the floats to the fuselage.



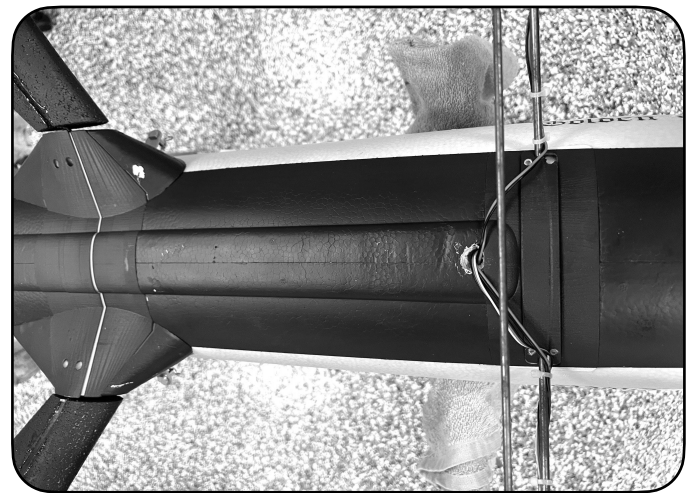
- Secure the LED power wires and the water rudder servo lead to the front struts using clear tape or small tie straps. Once this is complete the floats should look like the picture above and are ready to install on the fuselage.



- If they are already mounted, remove the main gear and the nose gear. Using a #2 Phillips screw driver remove the front and rear strut mounting plate from the fuselage, this will remove the main gear. To remove the nose gear, use a #1 Phillips screw driver to remove the nose cone and a 1.5mm hex driver to loosen the set screws from the nose gear strut collet and the steering arm, slide the nose gear down and out of the nose gear mount to remove it. Remove the collet and the steering arm by disconnecting the z-bend from the servo arm. Temporarily attach them to the removed nose gear so that they don't get lost.



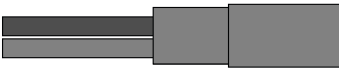
- Using 1/4" or 6mm drill make a hole in the fuselage behind the front mounting plate as shown in the picture above. Alternately you can use a soldering iron or heat a piece of tubing to melt a hole through the foam. This hole will be used to run the LED and water rudder servo leads.



- Mount the floats to the fuselage using the retaining plates and screws that you removed in step 6. Once you have the floats mounted run the wires into the fuselage through the hole you drilled in step 7. Note: Do not use tape to retain the wires anywhere that there is paint as the paint will come off the model when you remove the tape.

9. Once you have routed the wires from the float into the fuselage you will need to connect them. The water rudder needs to be connected to the Aura 8. In order to connect the water rudder you will first need to disconnect the nose wheel steering servo from the rudder Y-Harness coming out of Aura port S6. Connect the water rudder servo lead to the port in the Y-Harness where you disconnected the nose gear steering servo from.

Water Rudder Servo

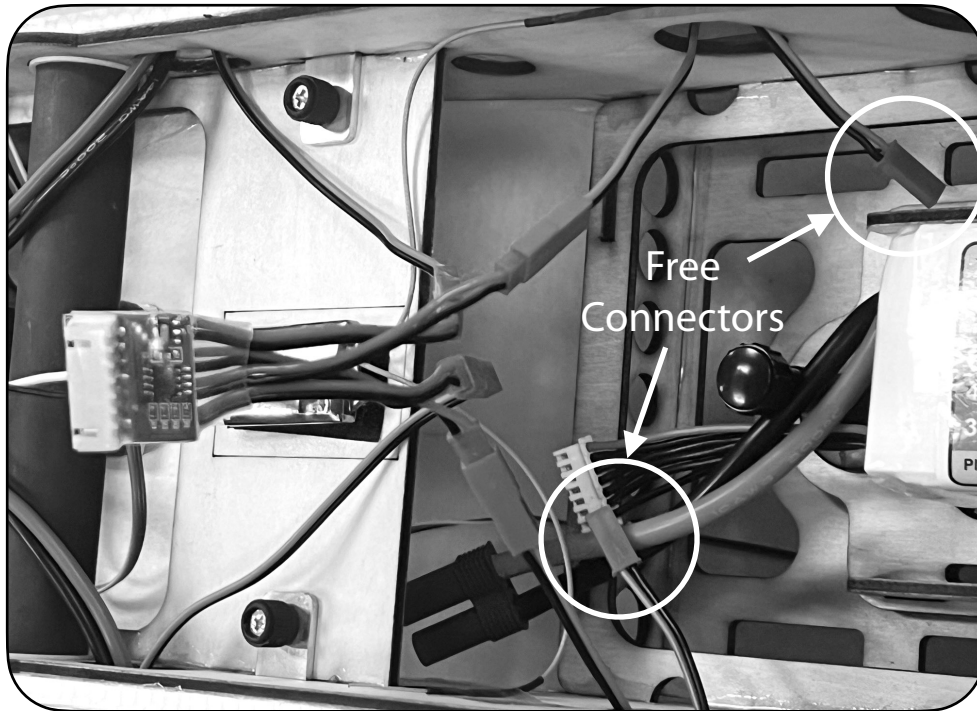


From each Float

Rudder Y-Harness From Aura S6



Free Connector in Fuselage



10. Connect the LED power leads from the floats to the two LED power leads that are free in the fuselage, these connectors are shown in the image above and do not come out of the LED controller. If you do not have a Night Version, simply secure the LED wires somewhere in the fuselage.
11. Note that the Twin Otter with floats has a large amount of LEDs installed in it. For this reason Flex Innovations recommends that you fly the Twin Otter night version using a 2200mAh 3S battery to power the LED lights.

**Thank you for purchasing your Flex Innovatlons Float Set for your
Twin Otter 80E!**

We hope you enjoy your new float set!



Note: the colors shown in this manual may not represent the colors of the final product. If there are color differences, these are intentional.

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