

# Skywalker X8 Assembly Procedure

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## 1. Glue the Winglet Butt-Plates:

### 1.1. Material (Image 2.1):

- 2 x Winglet
- 2 x Winglet Butt Plate (unmarked)
- Super Glue/Epoxy as necessary

### 1.2. Instructions:

Spread a generous amount of glue on one side of the wooden butt plate AND the winglet bottom. Stick them together while ensuring proper alignment and let dry for 10 minutes. The use of protective gloves is recommended.



Image 1.1



Image 2.1

## 2. Glue the Winglet Butt-Plates to the Wings:

### 2.1. Material (Image 3.1):

- 2 x Wings
- 2 x Winglet Butt-Plates (marked with a 'T')

**2.2. Instructions:**

Spread a generous amount of glue on one side of the wooden butt plate AND the wing tip. Stick them together while ensuring proper alignment and let dry for 10 minutes. It is recommended to wait until arriving at the launch site before screwing the wings and winglets together in order to avoid causing damage during transport.



Image 2.1



Image 2.2

**3. Mount the Servo Module.**

**3.1. Material (Image 3.1)**

- 1 x Wooden servo base components
- Superglue

**3.2. Instructions:**

Assemble the wooden servo base as shown in Image 3.2. Use of glue for holding the base together is optional, but not necessary. Apply a thin layer of

glue to the bottom of the servo, and insert in the base as shown. Wait 10 minutes until the parts dry.

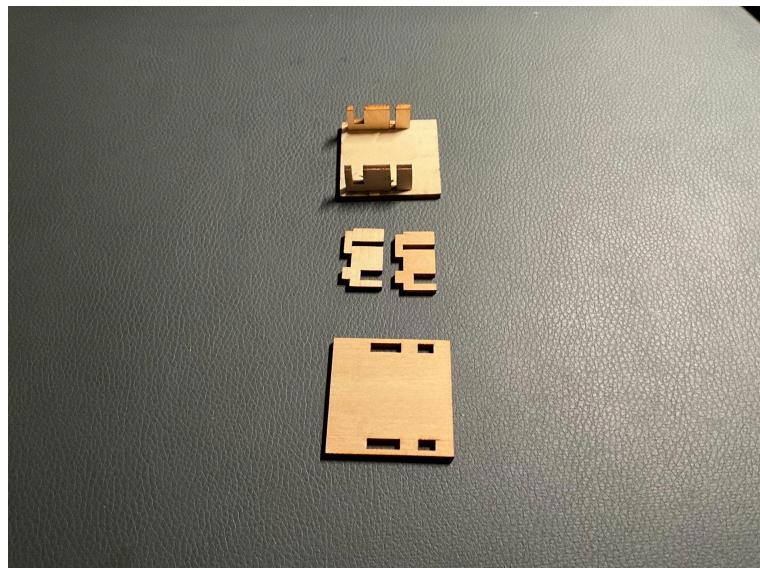


Image 3.1

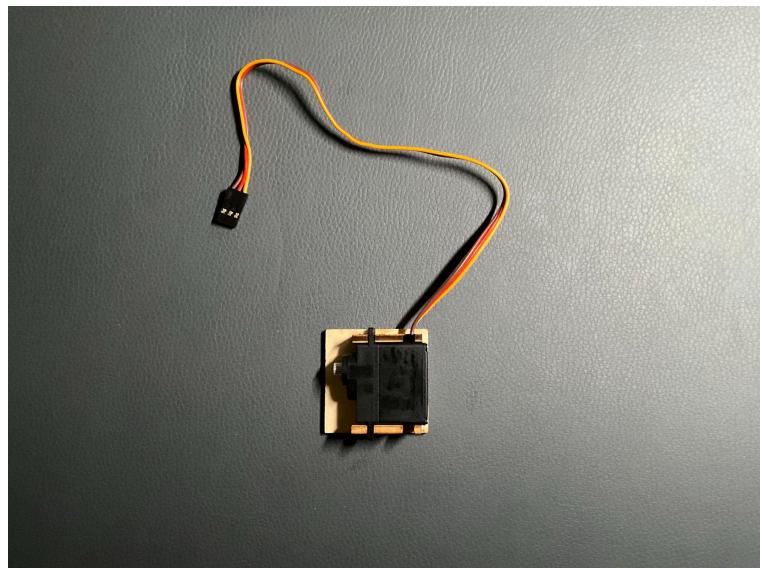


Image 3.2

#### 4. Insert the Servo Unit into the Wing

##### 4.1. Material (Image 4.1)

- Servo unit
- Servo Arm
- Servo Arm Screw
- Superglue

4.2. Instructions: Start by calibrating the servo in its neutral position: attach the servo arm to the servo. Then, connect the servo to the receiver. Power the circuit and ensure the servo arm is in its desired 'neutral' position (this will likely be perpendicular to the wing). Once the servo is calibrated, it can be tightened with the screw. Next, liberally apply glue on the backside of the

servo module as well as at the bottom of the servo module cavity on the wing, and insert the servo module. Wait 10 minutes until the parts dry.



## 5. Glue the Rudder Horns

### 5.1. Material (Image 5.1)

- 1 x Rudder Horn

- Superglue
- 5.2. Instructions: Apply a very small amount of glue onto the rudder horn spikes, or directly into the pre-marked holes on control surface. Immediately insert the rudder horn into the pre-marked holes. Wait 10 minutes until the parts dry.



Image 5.1

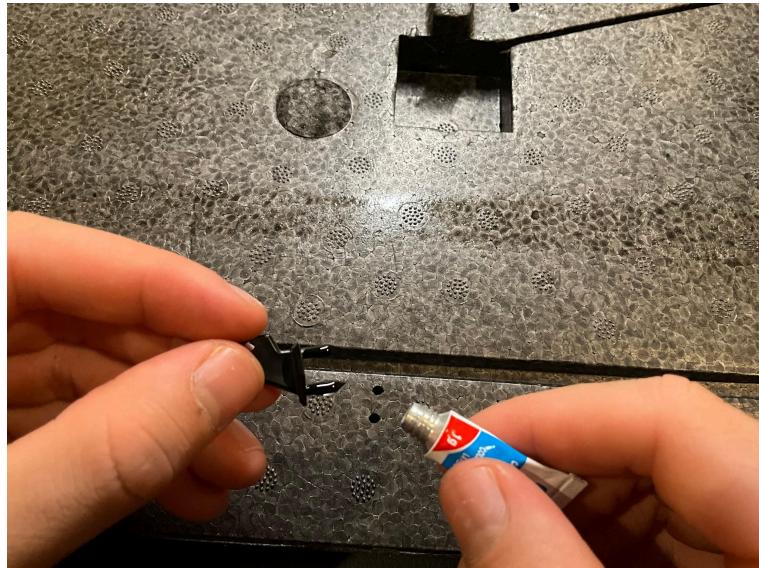


Image 5.

## 6. Cut the control surfaces and ensure correct mobility

### 6.1. Material (Image 6.1)

- Wing
- Exacta knife

6.2. Instructions: Carefully cut the sides of the control surfaces from the wing, leaving a 1-1.5 mm gap between the control surface and the wing. NOTE: It is recommended to repeatedly work the control surface across its range of motion to give it mobility. It may be necessary to apply a strip of tape across the wing/control-surface joint to prevent the surface from tearing off.



## 7. Fit the pushrod

### 7.1. Material (Image 6.1)

- Pushrod
- Pushrod Connector
- Pushrod Connector Screw

7.2. Instructions: Insert the pushrod into the uppermost hole of the servo arm. Insert the pushrod connector onto the pushrod and attach it to the rudder horn using the supplied pushrod connector screw. If necessary, cut any excess length off the pushrod.



Image X.1

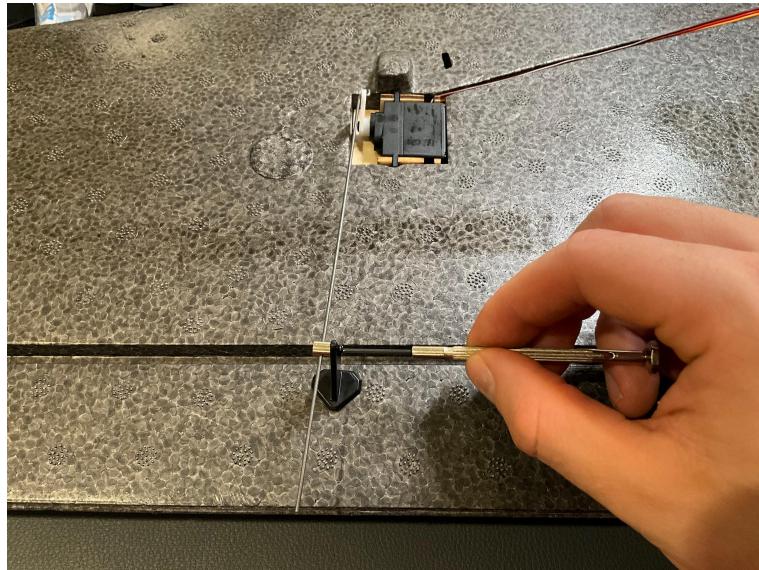


Image X.2

8. Run the servo wires through the wing and glue the wing plate.

8.1. Material (Image 6.1)

- Wing
- Wing plate
- Servo wire extension
- Epoxy/superglue
- Exacta knife (Optional)

8.2. Instructions: Run the servo's wiring through the designated slits in the wing and wing plate. It may be required to carve out a slot in the wing plate for the extension joint. It is recommended to run glue throughout the slit to ensure the wire remains properly secured. Then, apply a generous amount of epoxy to the wing plate, making sure to avoid the semi-cylindrical slots for the carbon-fibre rods. Attach the wing plate to the wing. Wait 30 minutes until the parts dry.





9. Glue the wing butt plate to the wing

9.1. Material (Image 6.1)

- Wing
- Wing butt-plate

- Superglue
- 9.2. Instructions: Generously apply superglue to the wing-butt plate, then carefully pass the servo wire through the correct hole (see image). Attach the butt-plate to the wing. Wait 10 minutes until the parts dry.



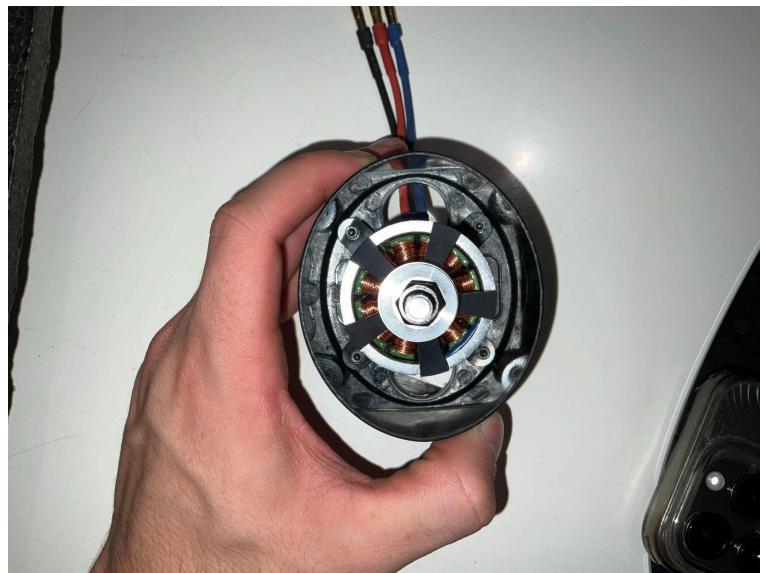
## 10. REPEAT STEPS 3-9 FOR THE SECOND WING

## 11. Assemble the motor and attach it to the fuselage

### 11.1. Material (Image 6.1)

- 1 x Metal motor fixation plate
- 1 x Plastic motor cover
- 1 x Electric motor
- 4 x provided screws for the fixation plate
- 4 x M2\*8 screws
- 4 x M2\*8 washers
- 4 x M2\*8 nuts
- Superglue

### 11.2. Instructions: Start by attaching the metallic motor fixation plate to the motor using the provided screws. Then, use the screws, washers and nuts to secure the motor inside the plastic motor cover. Finally, apply superglue directly to the **bottom-half** plastic cover and attach it to the bottom-half of the fuselage. Wait 10 minutes until the parts dry.



## 12. Glue the fuselage halves

### 12.1. Material (Image 6.1)

- Fuselage bottom-half
- Fuselage top-half
- Epoxy/superglue

12.2. Instructions: Before starting this step, ensure sufficient quantities of epoxy are at your disposal. Generously apply epoxy to both fuselage halves at points of direct contact. Be sure to avoid applying epoxy near features such as the semi-cylindrical slits used to pass the carbon-fibre rods. Carefully align both fuselage halves and press them together. The use of tape is recommended to ensure both halves remain pressed together until the epoxy dries. Wait 30 minutes until the parts dry.

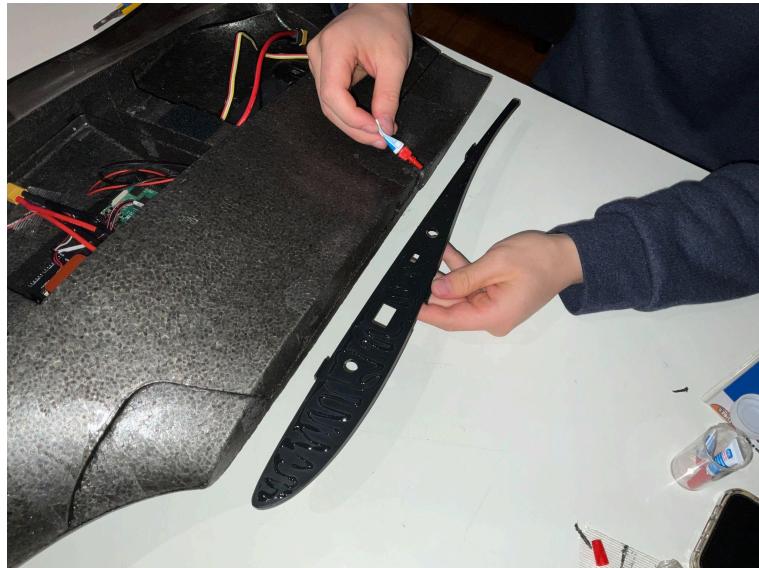


13. Attach the wing butt-plate to the fuselage

13.1. Material (Image 6.1)

- Fuselage assembly
- 2 x Wing butt-plate
- Superglue

13.2. Instructions: Apply superglue to the wing butt plate and attach it to the fuselage assembly while ensuring careful alignment.



14. Screw the winglets to the wings.

14.1. Material (Image 6.1)

- 4 x Provided winglet screws
- 2 x Winglets
- 2 x Wings

14.2. Instructions: Use the provided screws to tightly secure the winglets to the wing.

