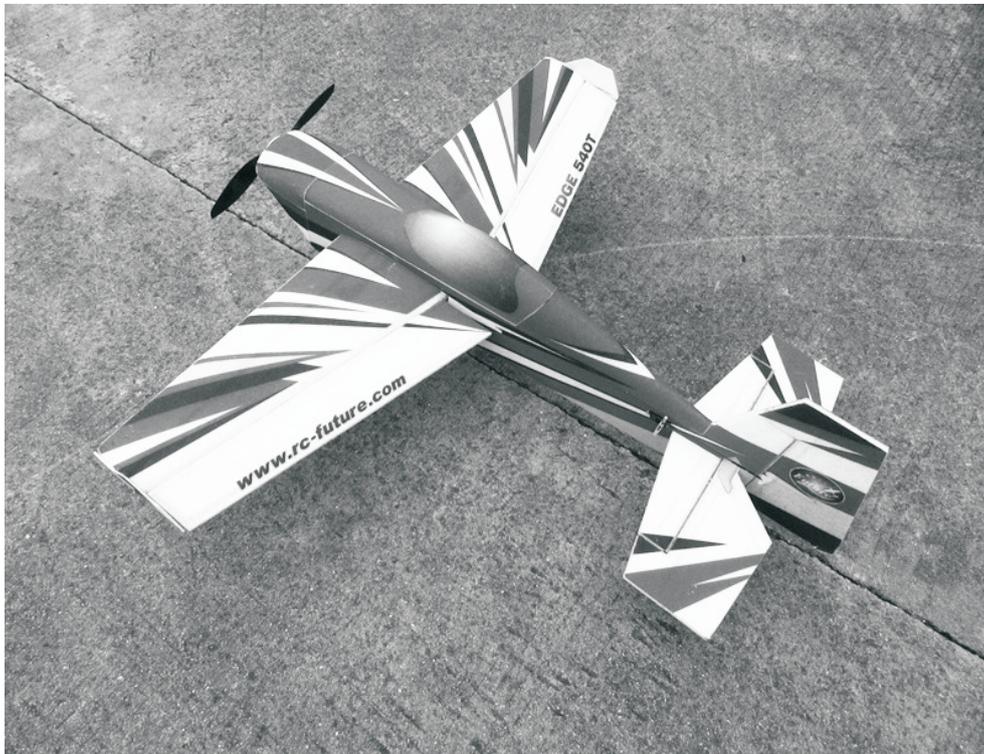




# EDGE540-38"

**Electric radio-controlled model aircraft**

## **Installation Instructions**



## **Future Models**

**Caution: Please read the manual carefully before installation. This product is not a toy. Please seek assistance from people with RC model experience for the assembly and flying.**

**Please open the package and check that it contains all required parts.  
If any parts are missing, please contact the dealer.**



**Product Specifications:**

Wingspan: 965mm  
Length: 980mm  
Wing area: 20.4 dm<sup>2</sup>  
Total weight: about 630 g (including a 3s1000 mAh 25c battery)  
Center of gravity position: 95mm from the wing leading edge

**Reference Power Configuration:**

Brushless motor: 2216 2217 2834 (KV 1200)  
ESC: 35 A  
Propeller: 10 x 4.7  
Lithium battery: 3s (1000 to 1500 mAh) 25c battery  
Servos: 9g plastic gear x 4 (Metal gear servos are recommended for aggressive flying)

**Control Surface Deflections:**

Ailerons: high rates: 40 degrees, low rates: 25 degrees  
Elevator: high rates: 45 degrees, low rates: 25 degrees  
Rudder : high rates: 45 degrees, low rates: 25 degrees

**Flight Precautions:**

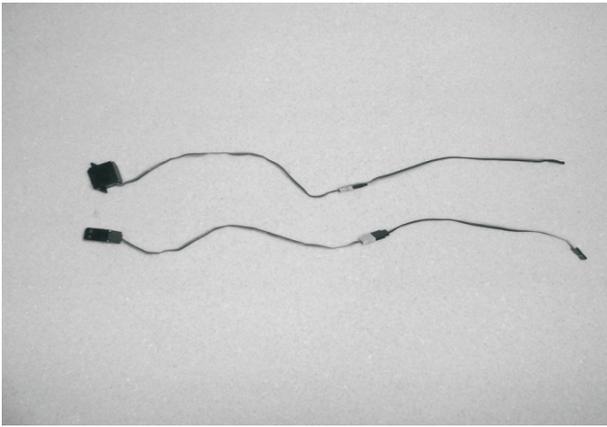
Please observe the following:

1. Do not fly in bad weather with poor visibility.
2. Do not fly near crowds, high-voltage lines or in areas with strong electromagnetic interference.
3. Do not fly near tall buildings, trees, street lights or other obstructions.
4. If you are flying for the first time, please fly under the guidance of an experienced person.
5. Remember, a model airplane is not a toy and you are solely responsible for flying safely.

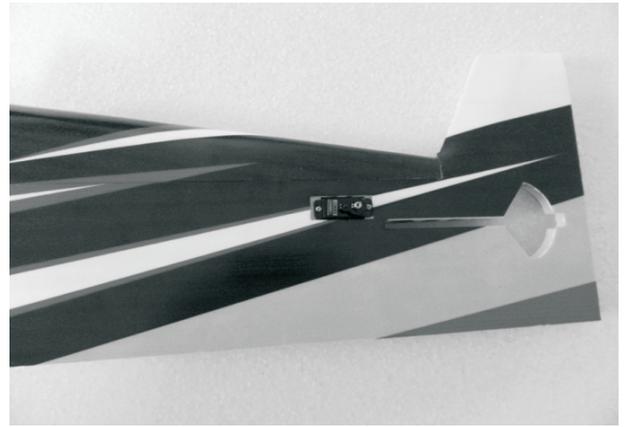
**Storage Precautions:**

1. Remove the battery before storing the model to prevent the risk of explosion or combustion.
2. Do not put objects on the model - hang it up if possible.

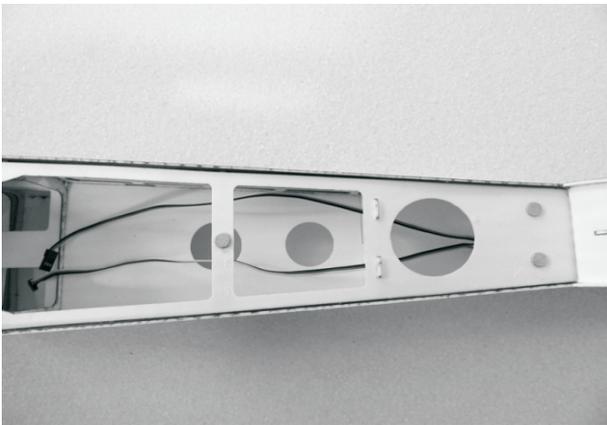
**Note: Due to continuous product updates, the manual and actual products may have small errors or differences.**



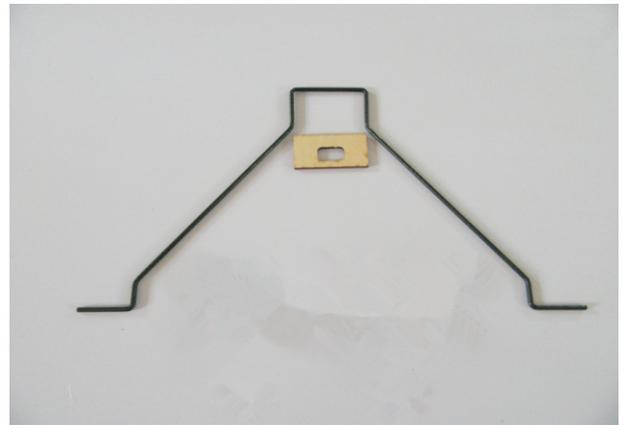
1. Connect servo extension leads to the elevator and rudder servo cables.



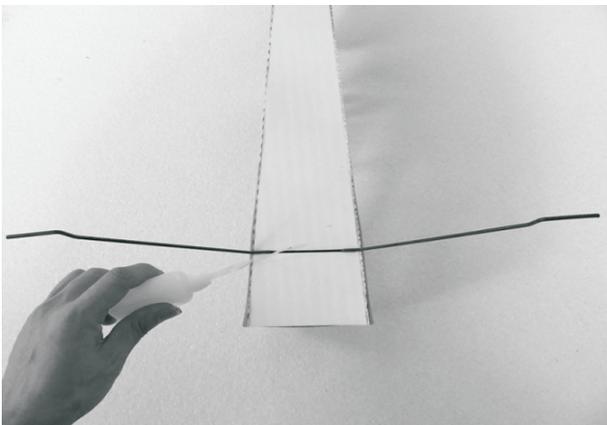
2. Install the elevator and rudder servos into the airframe.



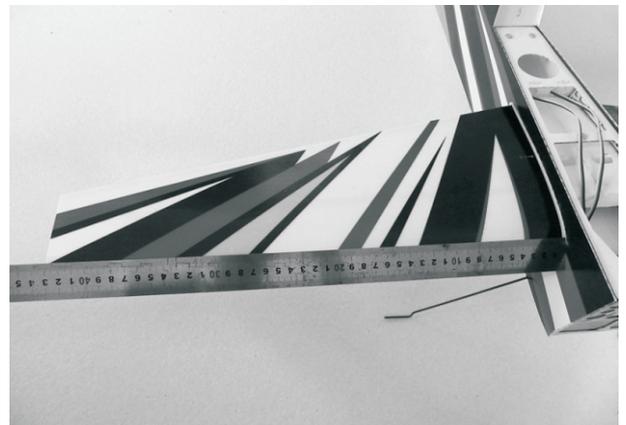
3. Feed the elevator and rudder servo cables through the inside of the fuselage.



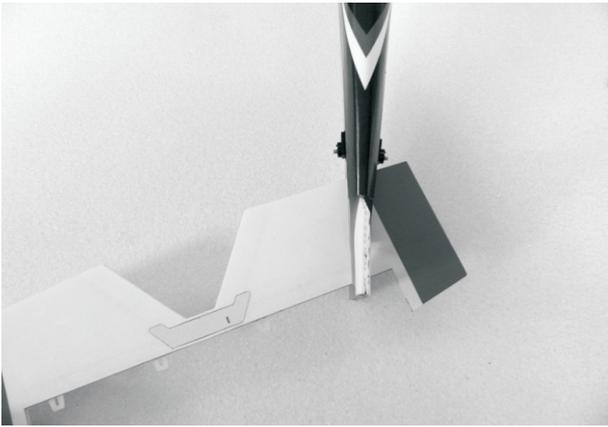
4. Locate the landing gear and landing gear plate.



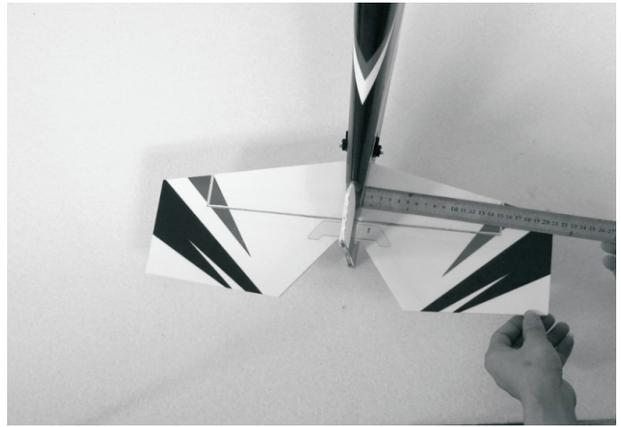
5. Insert the landing gear and landing gear plate into the landing gear slot in the fuselage and use thin CA glue to secure.



6. Carefully insert the wing into the fuselage. Measure to ensure that both the front and the rear of the wing are evenly spaced on both sides of the fuselage.



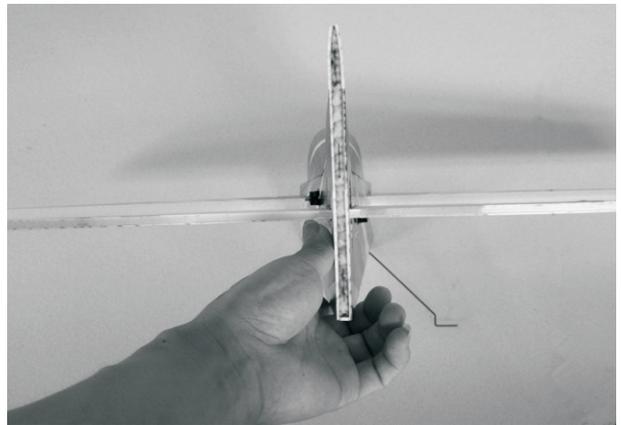
7. Carefully insert the elevator into the fuselage, noting that the elevator needs to be upside down and back-to-front when inserted. Once it is fully inserted, you can flip it over.



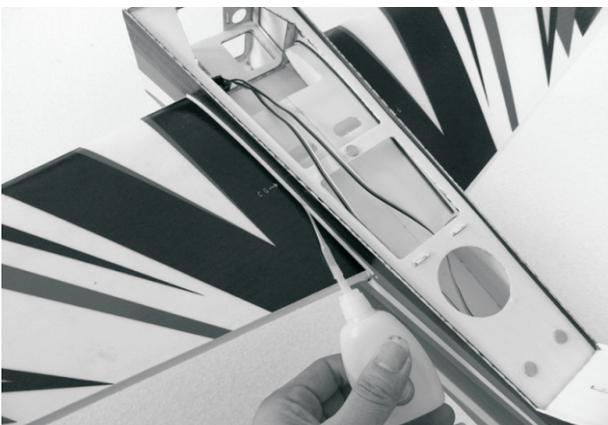
8. Carefully insert the horizontal stabiliser into the fuselage. Insert the elevator hinges into the horizontal stabiliser. Measure to ensure that the horizontal stabiliser is evenly spaced on both sides of the fuselage.



9. Measure to ensure that the distance on both sides between the main wing and the horizontal stabiliser is the same. Ensure that the horizontal stabiliser remains evenly spaced on both sides of the fuselage.



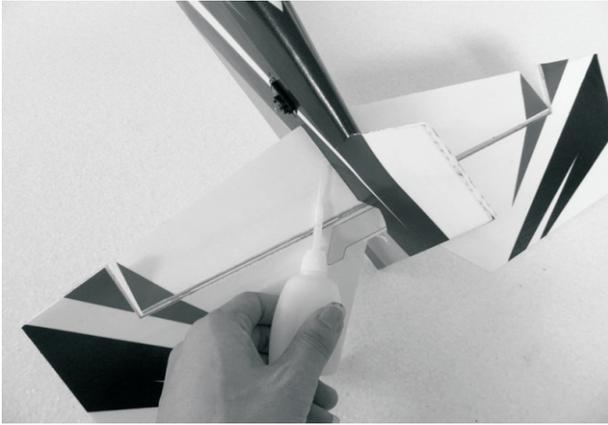
10. Ensure that the horizontal stabiliser and the main wing are parallel to each other and are at right angles (90 degrees) to the fuselage. Use wedges if required.



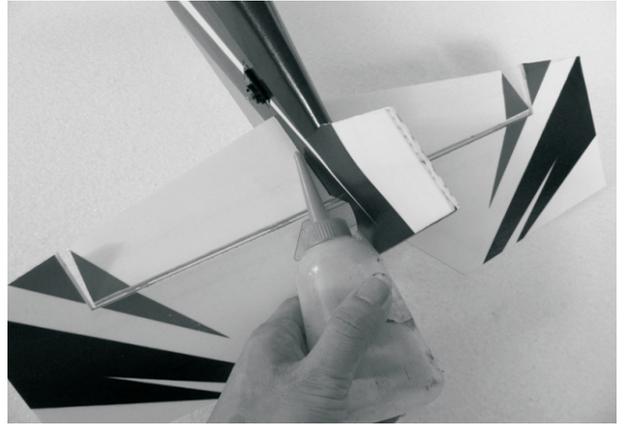
11. Ensure that the main wing is correctly located and use thin CA glue to attach the wing to the fuselage.  
Note: Do not use too much thin CA glue, as it might eat the polystyrene wing core.



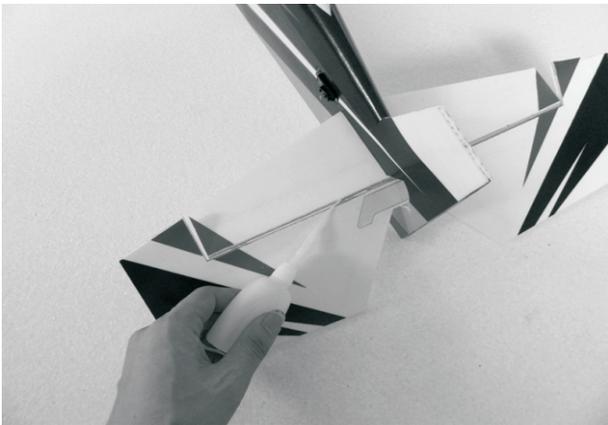
12. Use a suitable foam glue to reinforce the wing to fuselage joint on both sides top and bottom.



13. Use a small amount of thin CA glue to attach the horizontal stabiliser to the fuselage. Note: Do not use too much thin CA glue, as it might eat the Depron foam core.



14. Use a suitable foam glue to reinforce the horizontal stabiliser to fuselage join on both sides top and bottom.



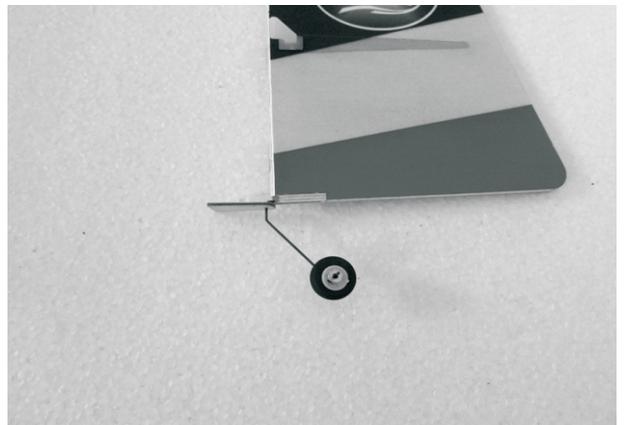
15. Adjust the elevator so there is a hinge gap of about 1mm and it is evenly spaced on both sides of the fuselage. Use thin CA glue to attach the elevator hinges to the horizontal stabiliser hinge slots.



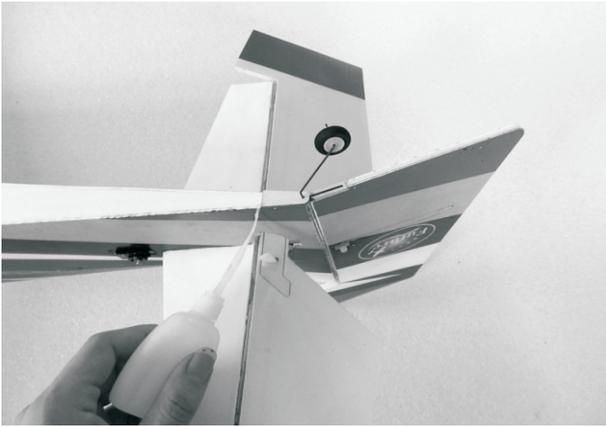
16. Use thin CA glue to attach the aileron and rudder control horns. Install the control horn plate on the other side of the rudder.



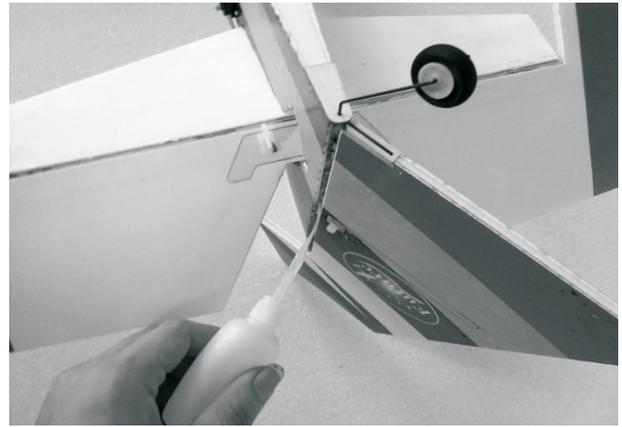
17. Use thin CA glue to attach the elevator control horn. Install the control horn plate on the other side of the elevator.



18. Install the tail wheel as shown, ensuring that the tail wheel wood bracket can rotate on the wire.



19. Insert the rudder hinges into the tail, leaving a hinge gap of about 1mm. Adjust the height of the rudder so that the tail wheel can rotate freely. Use thin CA glue to attach the tail wheel wood bracket.



20. Ensure that there is a rudder hinge gap of about 1mm to allow it to move freely. Use thin CA glue to attach the rudder hinges to the horizontal stabiliser hinge slots.



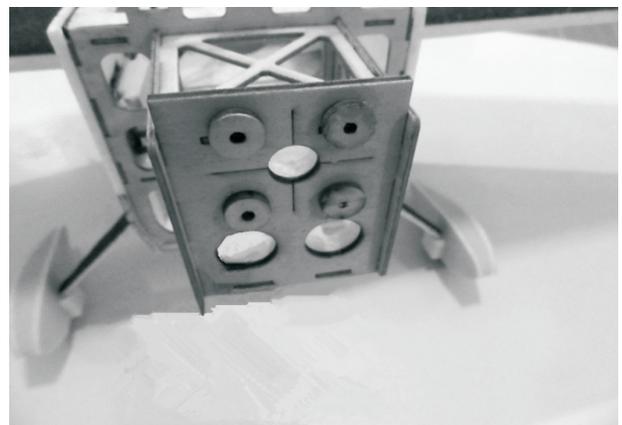
21. Insert the aileron hinges into the main wing, leaving a hinge gap of about 1mm. Use thin CA glue to attach the aileron hinges to the main wing. Repeat for the other aileron.



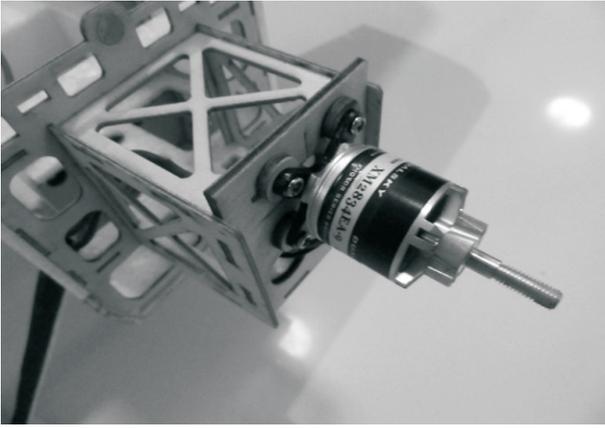
22. Install the aileron servos and feed each servo cable end through the wing hole into the fuselage.



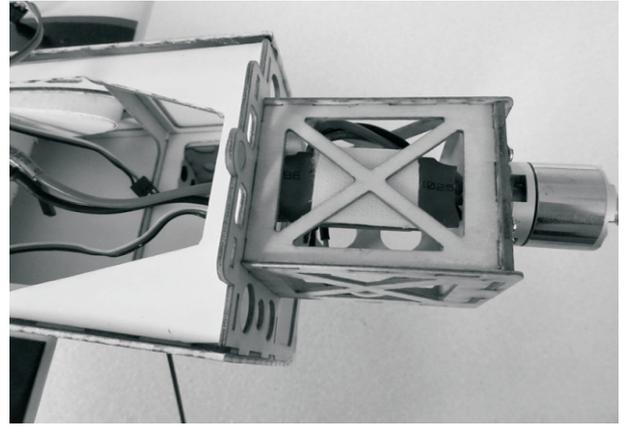
23. Optional: You can increase the strength of the motor cage and bulkhead using the provided carbon fibre strips. This is recommended for aggressive flying and/or heavy or high power setups.



24. Check the motor clearance of the cowl and use wood motor washers if your motor is too short to give proper clearance.



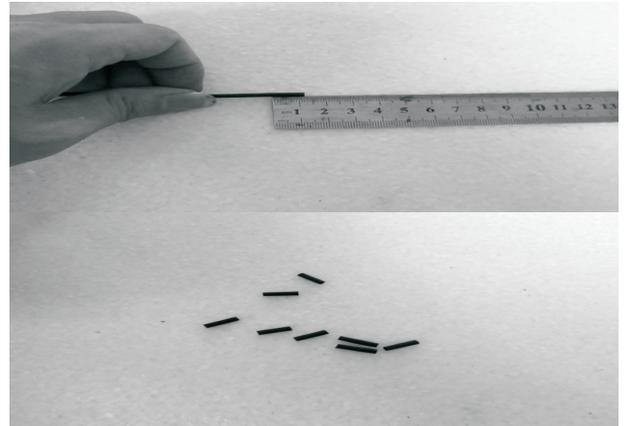
25. Install the motor using 4 wood screws. Ensure the motor rotates smoothly.



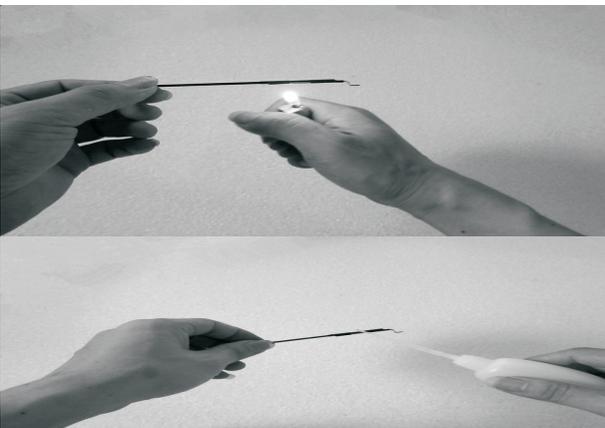
26. Install the electronic speed controller (ESC). Connect the motor to the speed controller.



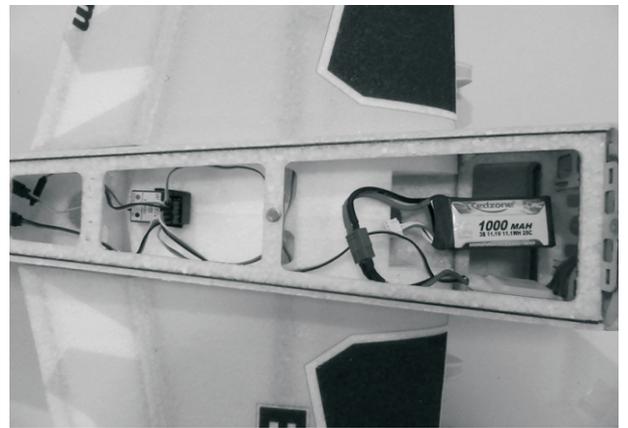
27. Install the EZ connectors on to your servo arms.



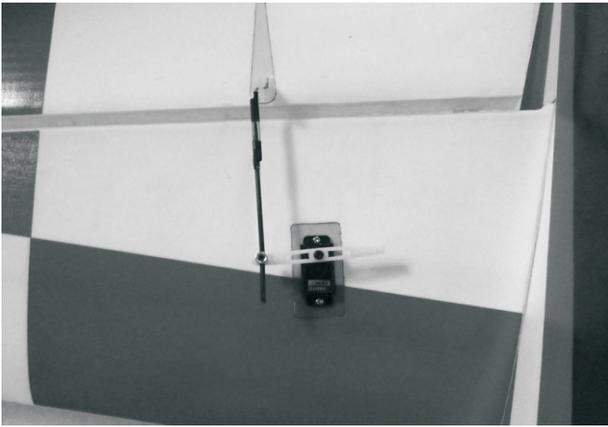
28. Cut 8 pieces of heat shrink tubing of length 12mm. 2 pieces of heat shrink are required for each pushrod to attach a wire z-bend (see step 29).



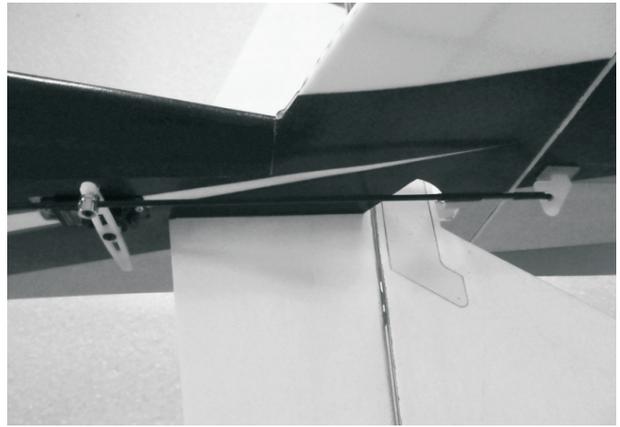
29. Place a wire z-bend under the heat shrink tubing on a carbon fibre pushrod. Heat the heat shrink until it shrinks and then use thin CA to glue the wire z-bend, heat shrink tubing and carbon fibre pushrod together.



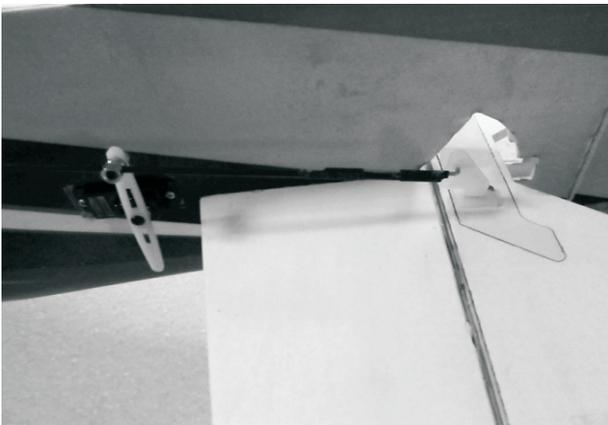
30. Install a receiver. Connect all 4 servos and the ESC to the receiver. Turn on your radio and attach a battery to the ESC.



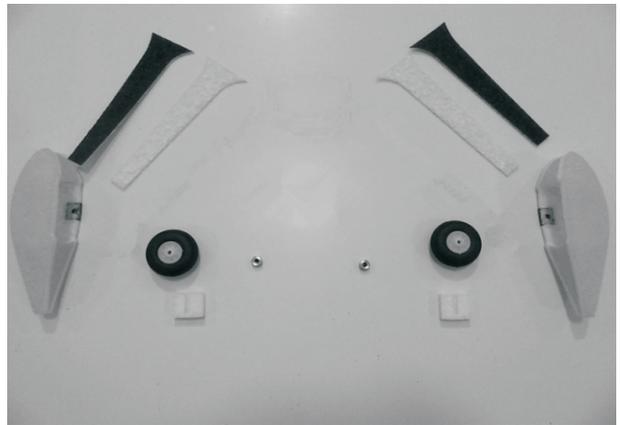
31. Configure each aileron as shown. With the control surface in the neutral position and the servo arm at 90 degrees to the pushrod, tighten the EZ Connector grub screw to lock the pushrod in place.



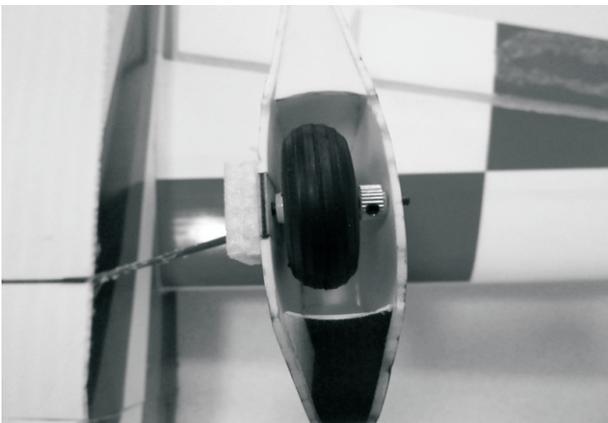
32. Configure the rudder as shown.



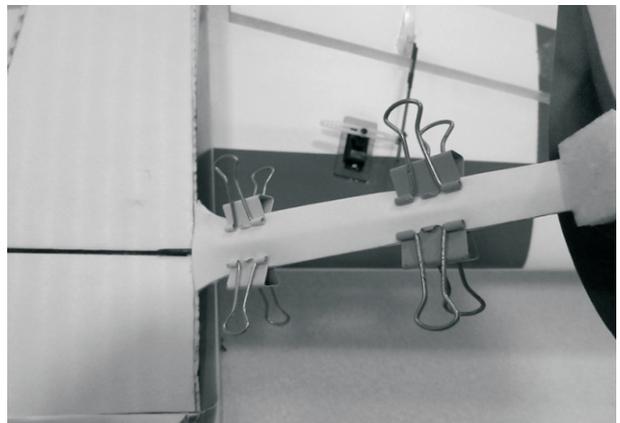
33. Configure the elevator as shown.



34. Locate the landing gear pieces as shown.



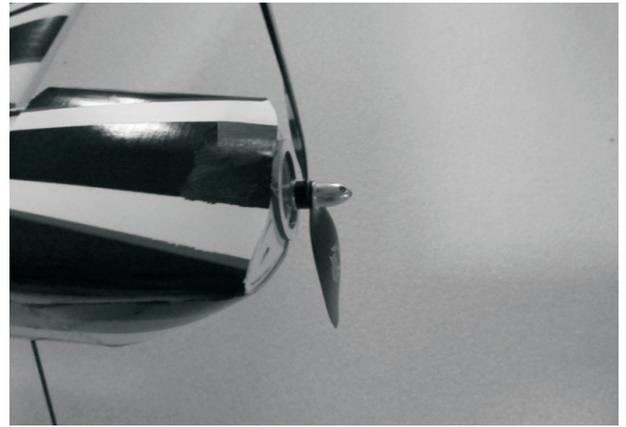
35. Install the wheel and wheel cover as shown.



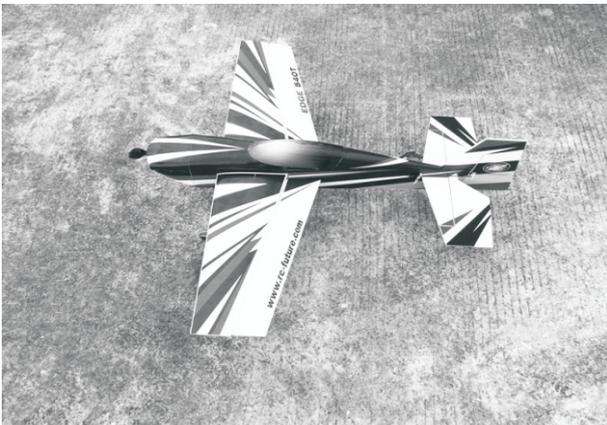
36. Install the landing gear decorative film using a suitable foam glue. Use clips to hold them in place until the glue is completely dry and then remove the clips.



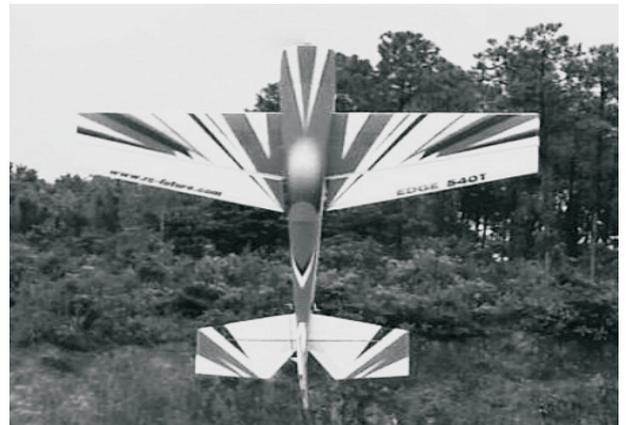
37. Install the side force generators (SFGs) as shown. Use the cutout pattern on the back of the SFGs to align it with the wing airfoil.



38. Install the engine cowl and the propeller. Ensure that the propeller rotates in the correct direction.



39. To ensure safety, please check that all equipment is securely attached, that all control surfaces are in the correct neutral position and move in the correct direction.



40. Fix any issues found before you attempt to fly this aircraft.  
We hope that you enjoy this product.

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