



1/5 GIANT SCALE
CESSNA 310
TWIN ENGINE 15cc ARF 81"

Code: SEA399

ASSEMBLY MANUAL

“Graphics and specifications may change without notice”.



Specifications:

Wingspan	205.8 cm	81 inches.
Length	165.8 cm	65.3 inches.
Wing area	72.2 sq.dm	1119.4 sq.in.
Weight	9 - 9.4 kg	19.8-20.7 lbs.
Engine	15cc - 20cc.	
Radio	9 - 11 channels	12 servos.

INTRODUCTION

Thank you for choosing the **1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81"** ARTF by **SG MODELS**. The **1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81"** was designed with the intermediate/advanced sport flyer in mind. It is a semi scale airplane which is easy to fly and quick to assemble. The airframe is conventionally built using balsa, plywood to make it stronger than the average ARTF, yet the design allows the aeroplane to be kept light. You will find that most of the work has been done for you already. The motor mount has been fitted and the hinges are pre-installed. Flying the **1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81"** is simply a joy.

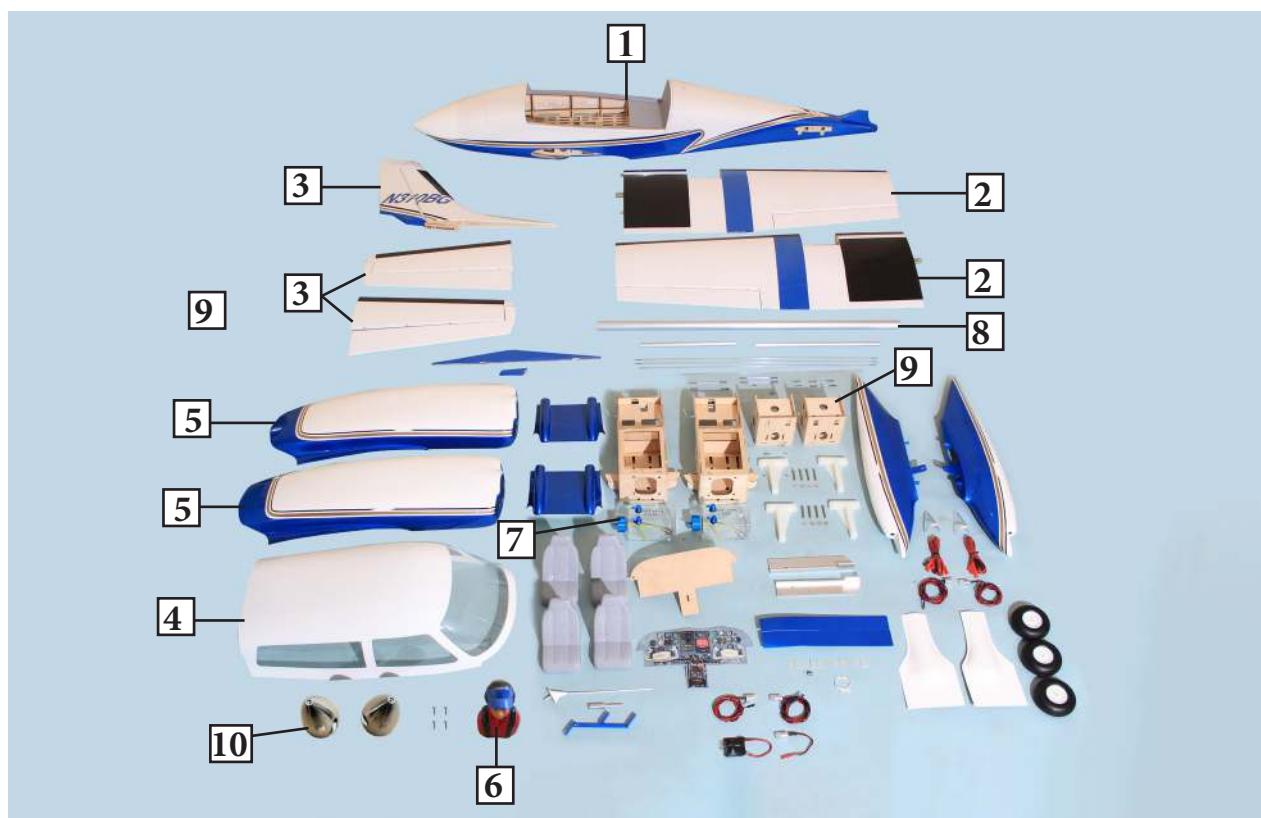
This instruction manual is designed to help you build a great flying aeroplane. Please read this manual thoroughly before starting assembly of your **1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81"** Use the parts listing below to indentify all parts.

WARNING

Please be aware that this aeroplane is not a toy and if assembled or used incorrectly it is capable of causing injury to people or property. WHEN YOU FLY THIS AEROPLANE YOU ASSUME ALL RISK & REPONSIBILITY.

If you are inexperienced with basic R/C flight we strongly recommend you contact your R/C supplier and join your local R/C model Flying Club. R/C Model Flying Clubs offer a variety of training procedures designed to help the new pilot on his way to successful R/C flight. They will also be able to advise on any insurance and safety regulations that may apply.

KIT CONTENTS



KIT CONTENTS

SEA399 1/5 Giant Scale Cessna 310 Twin

Engine 15cc ARF 81".

1. Fuselage
2. Wing set (2)
3. Tail set (2)
4. Canopy
5. Cowling (2)
6. Pilot
7. Fuel tank
8. Aluminum wing tube
9. Ep Motor box
10. Spinner

ADDITIONAL ITEMS REQUIRED

- 15-20cc gasoline engine.
- Computer radio 9-11 channel with 12 servos.
- Glow plug to suit engine.
- Propeller to suit engine.
- Protective foam rubber for radio system.

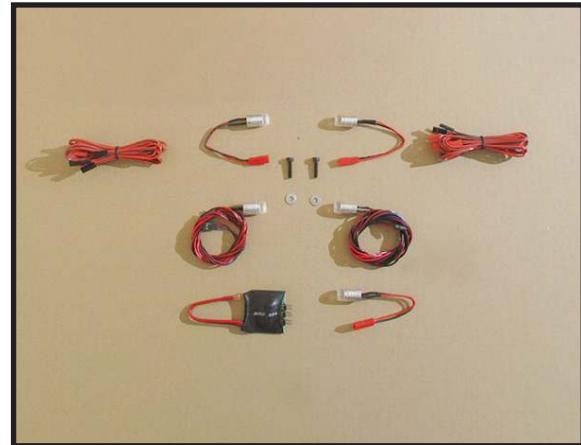
TOOLS & SUPPLIES NEEDED

- Thin cyanoacrylate glue.
- Medium cyanoacrylate glue.
- 30 minute epoxy.
- 5 minute epoxy.
- Hand or electric drill.
- Assorted drill bits.
- Modelling knife.
- Straight edge ruler.
- 2mm ball driver.
- Phillips head screwdriver.
- 220 grit sandpaper.
- 90° square or builder's triangle.
- Wire cutters.
- Masking tape & T-pins.
- Thread-lock.
- Paper towels.

WING TIP BULBS

Please see below pictures.

1.



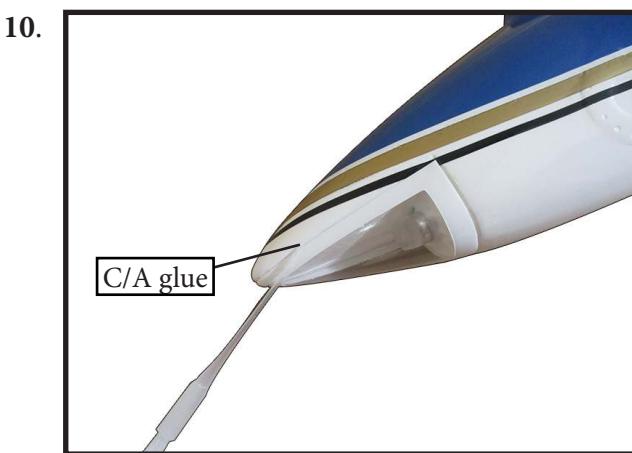
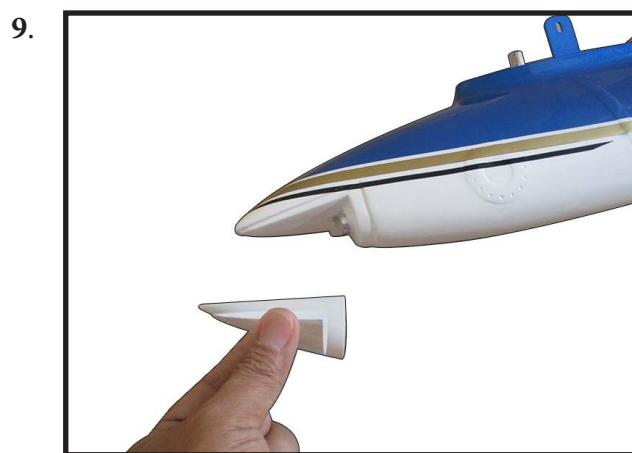
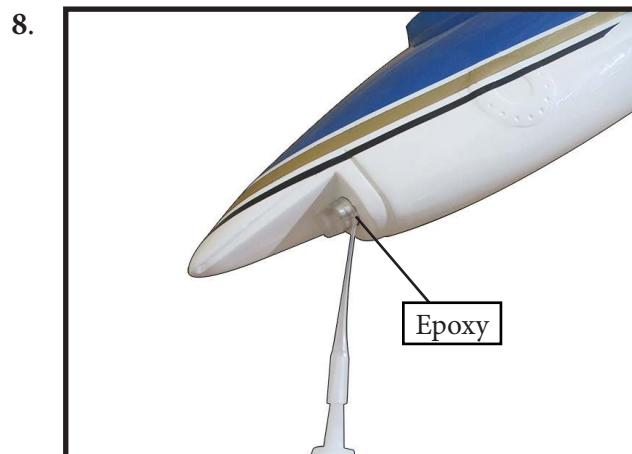
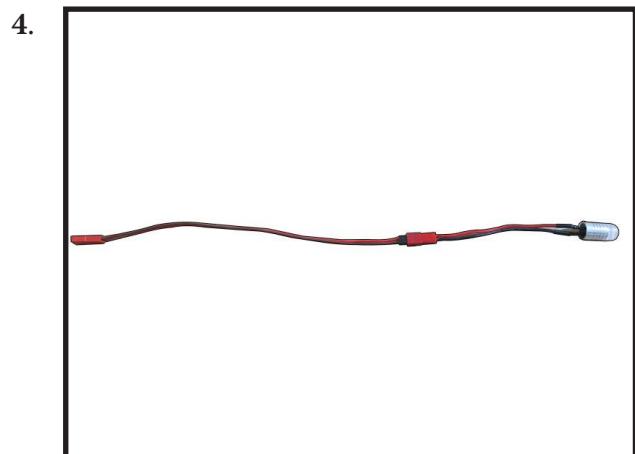
Two white lights for cowling and rudder, the green light for right wing tip, and the red light for left wing tip. They are designed to operate on voltages Lipo 3s. Connect four lights into switch circuit so that optional the different flashes mode.

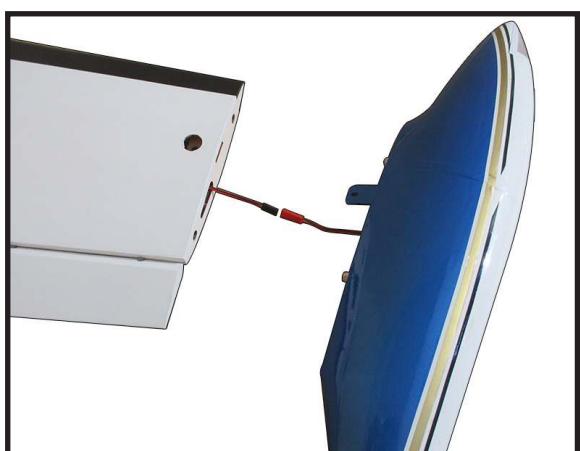
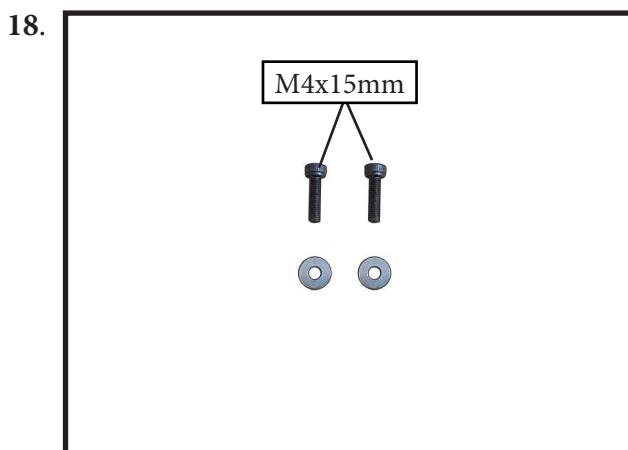
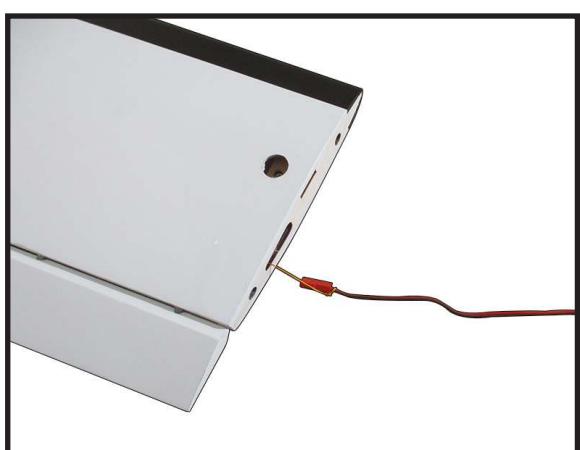
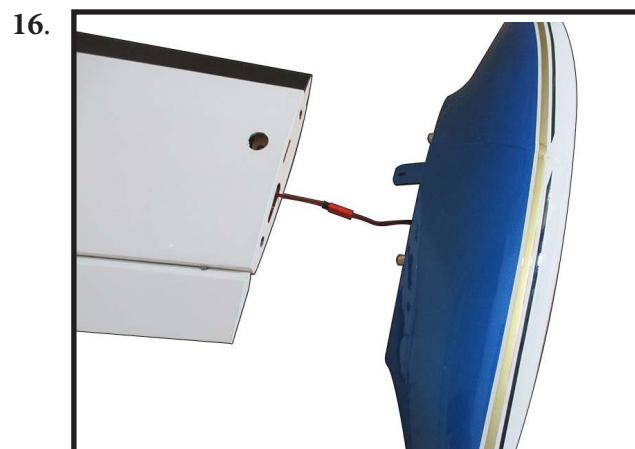
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3.

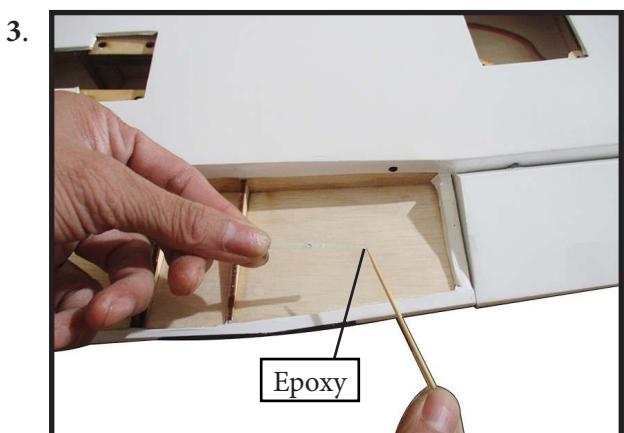
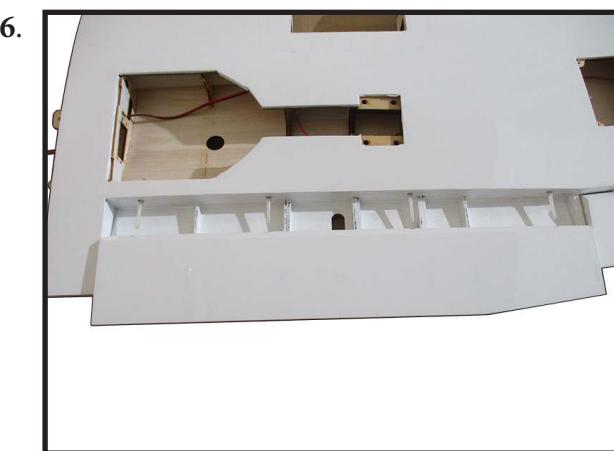
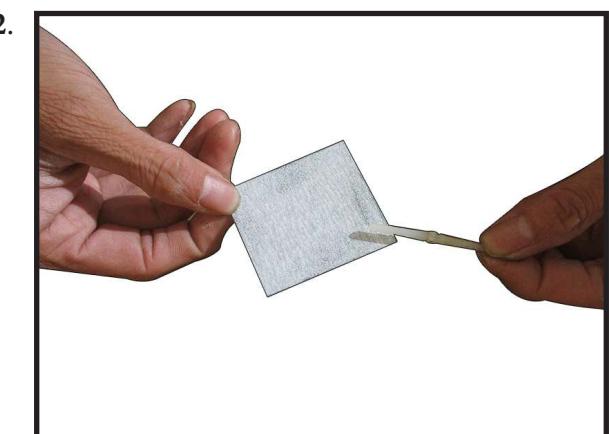
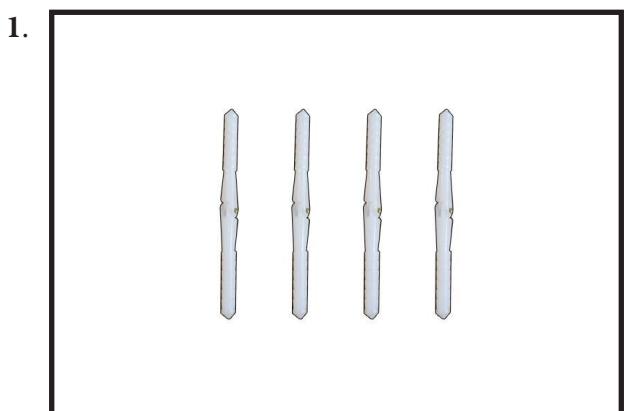








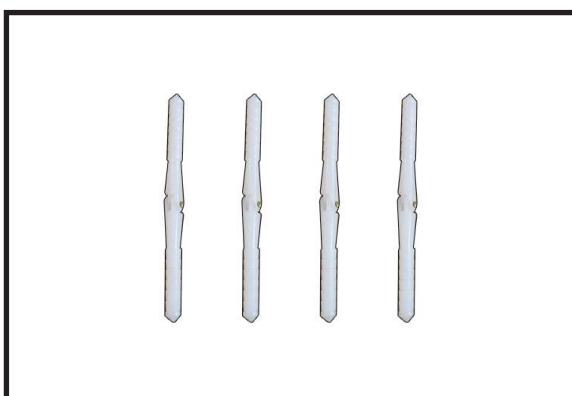
HINGING THE FLAP



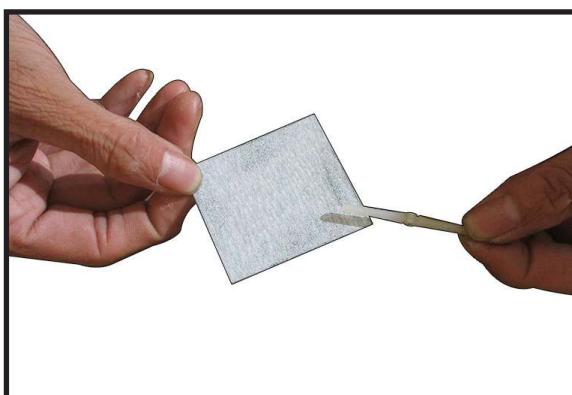
INSTALL THE AILERONS

Please see pictures below..

1.



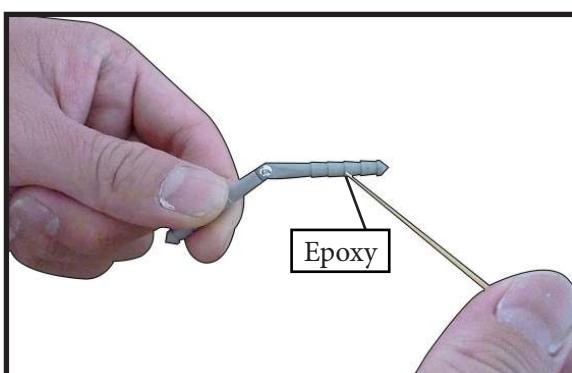
2.



Remove the ailerons from the wing and remove the hinges.

Use a small piece of rough sandpaper to scuff the hinges for better epoxy adhesion. Do this to all aileron hinges.

3.



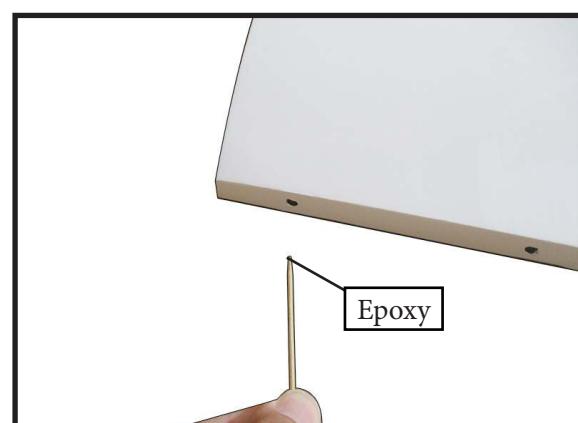
Apply epoxy to each hinge where it will be inserted into the ailerons. Tip: Apply some petroleum jelly to the metal pin hinge area to keep epoxy from interfering with smooth operation of hinge.

4.



Insert all four hinges in the ailerons at this time. Make sure hinges move up and down in right direction and not side to side !

5.

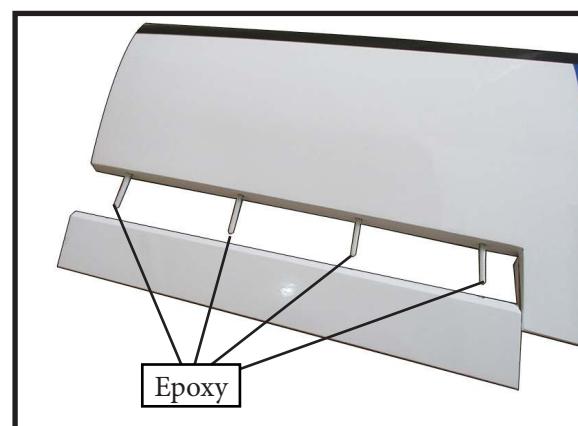


Apply epoxy into each of the holes in the ailerons using a spare piece of pushrod wire or toothpick.

Make sure to use enough epoxy so it securely adheres the hinge to the surfaces.

Do not use an excessive amount of epoxy when gluing the hinges so that it expels from the hinge area.

6.



Be sure to test the aileron hinges once you insert them. Ensure that the hinge pockets line up, and that the hinges move freely before the epoxy dries.

7.



8.

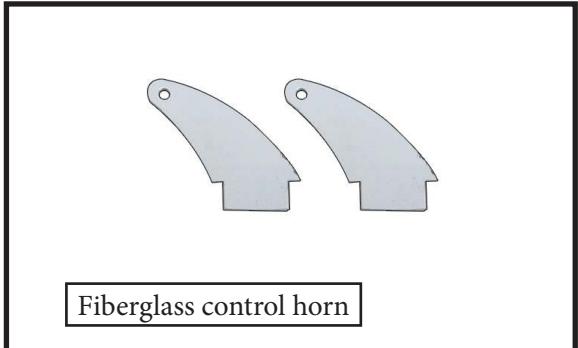


Check the fit of the aileron to the wing. The top of the ailerons will align to the top of the wing. Make sure movement is smooth and bind free.

We prefer 30-minute epoxy to allow enough working time during the hinge installation.

INSTALL THE AILERONS CONTROL HORN

1.

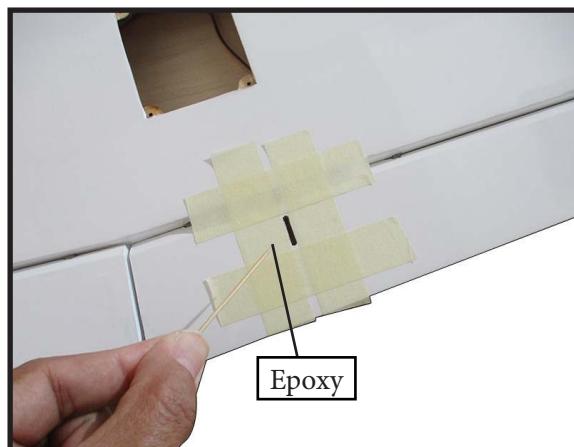


Fiberglass control horn

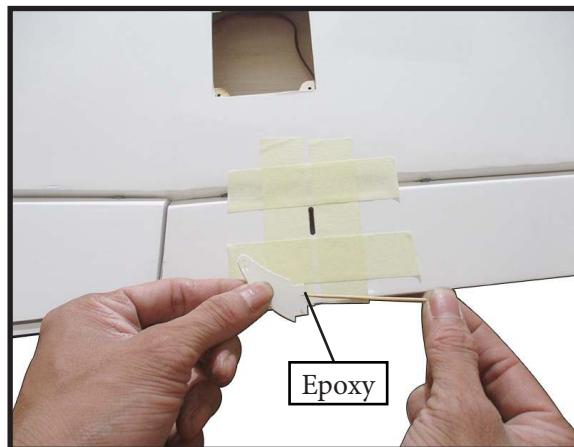
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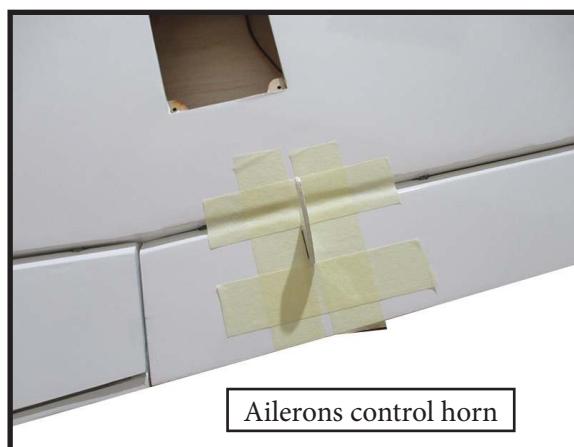
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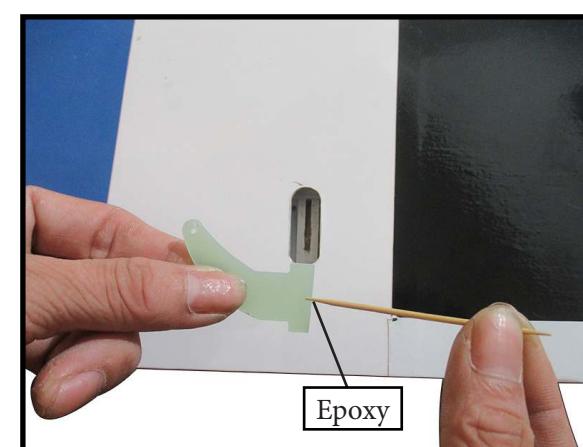
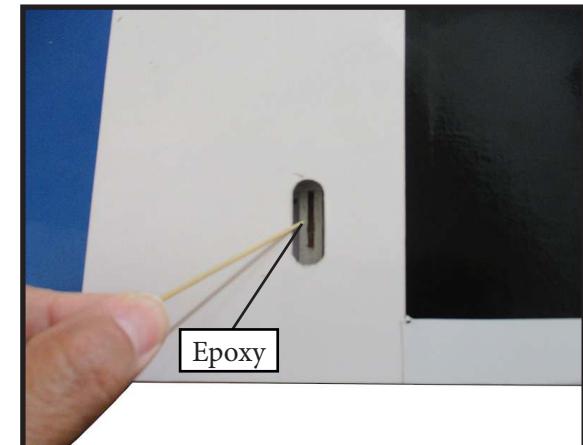
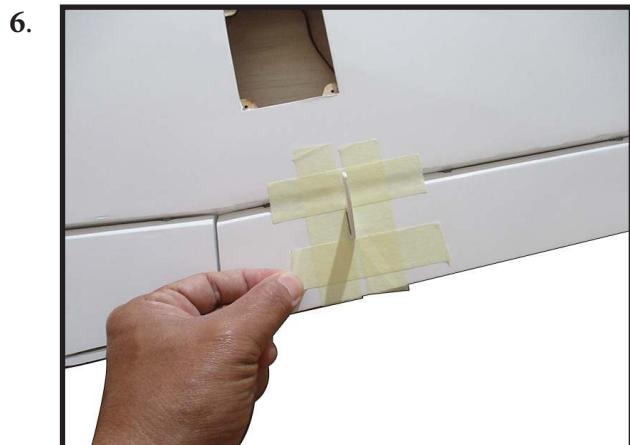


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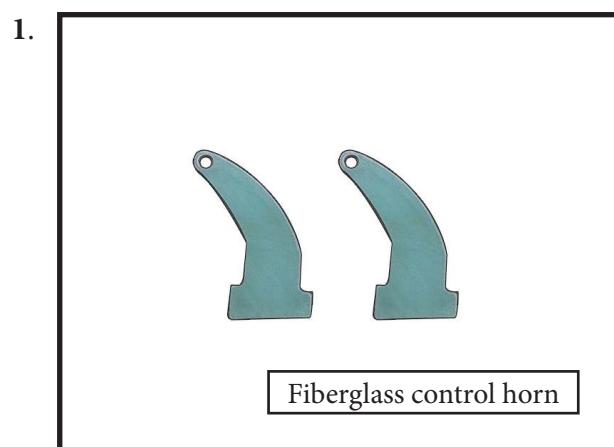
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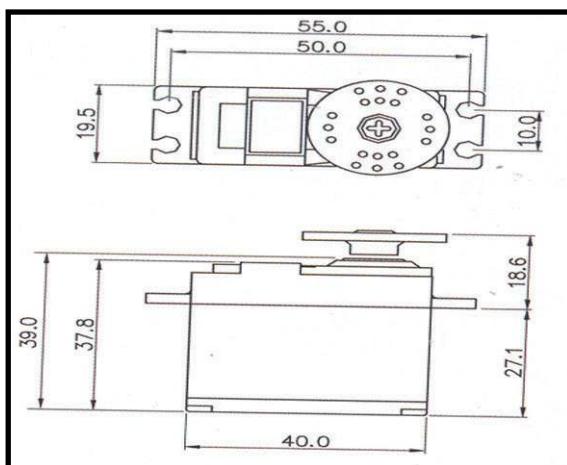
INSTALL FLAP CONTROL HORN

Install the flap control horn using the same method as same as the aileron control horns.



INSTALLING THE ALLERON SERVOS

1.



2.



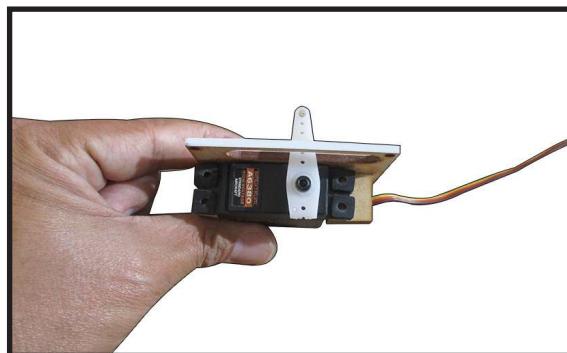
Minimum servo spec.

Torque: 126.6 oz-in (9.11 kg-cm)@ 6V,
 178 oz-in (12.82 kg-cm) @ 7.4V,
 248 oz-in (17.86 kg-cm) @ 8.4V

⚠ Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

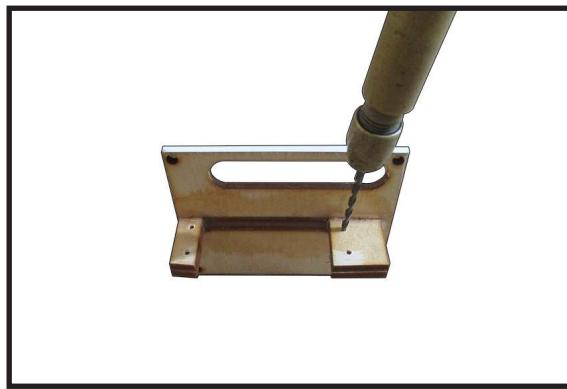
Place the servo between the mounting blocks and space it from the hatch. Use a pencil to mark the mounting hole locations on the blocks.

3.



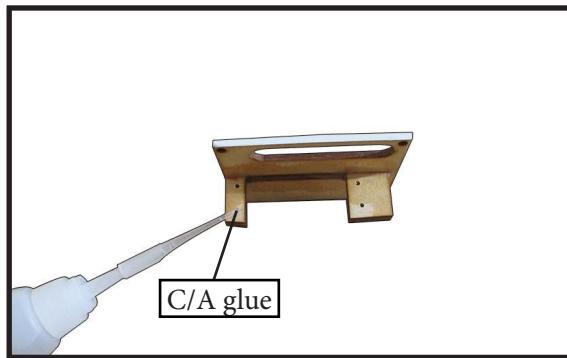
Use drill bit in a pin vise to drill the mounting holes in the blocks.

4.



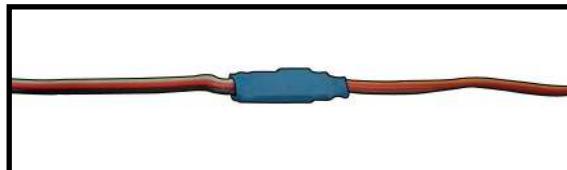
Apply 2-3 drops of thin C/A to each of the mounting holes. Allow the C/A to cure without using accelerator.

5.

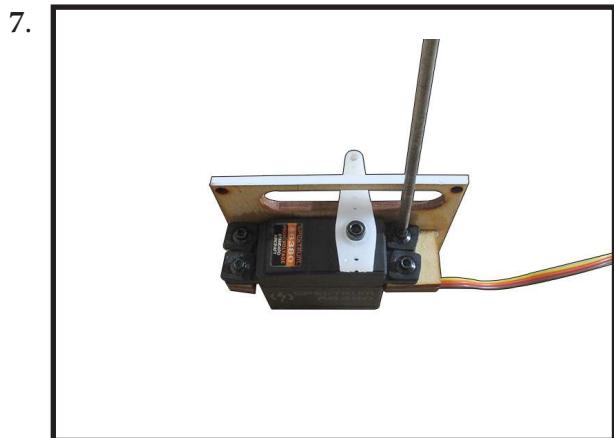


Use dental floss to secure the connection so they cannot become unplugged.

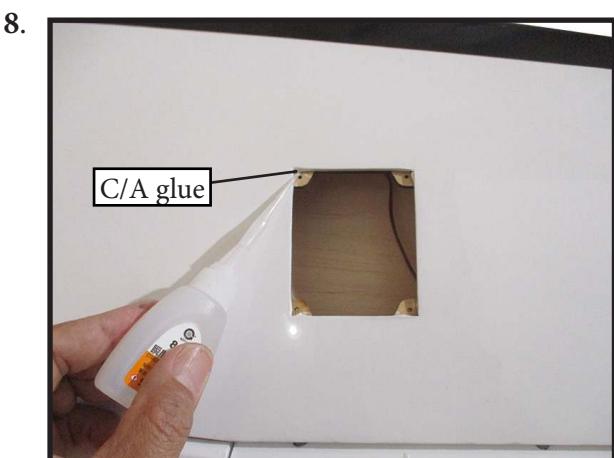
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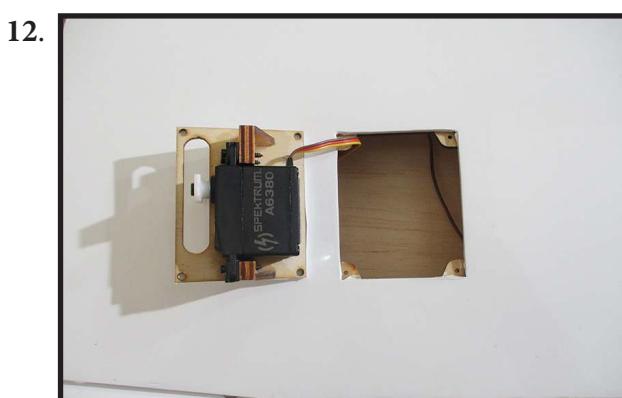
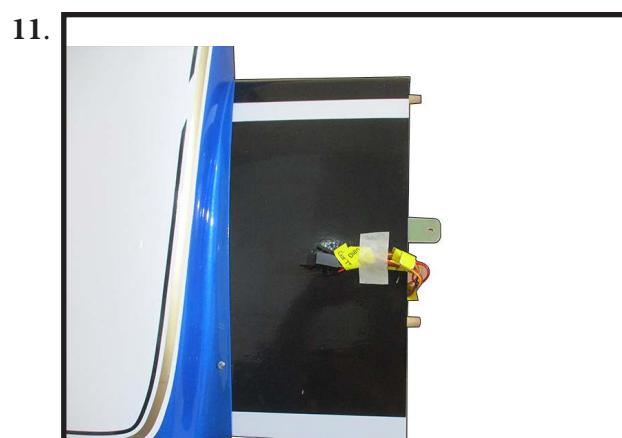
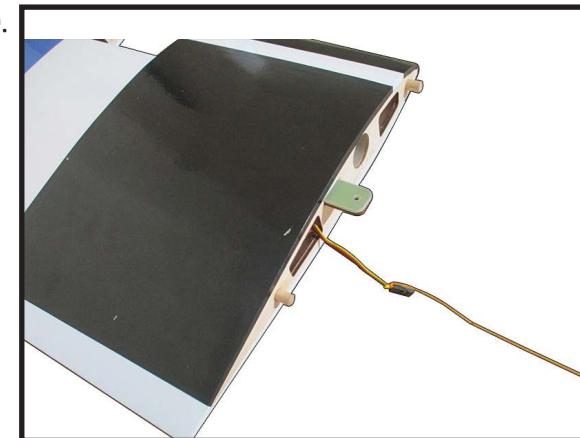
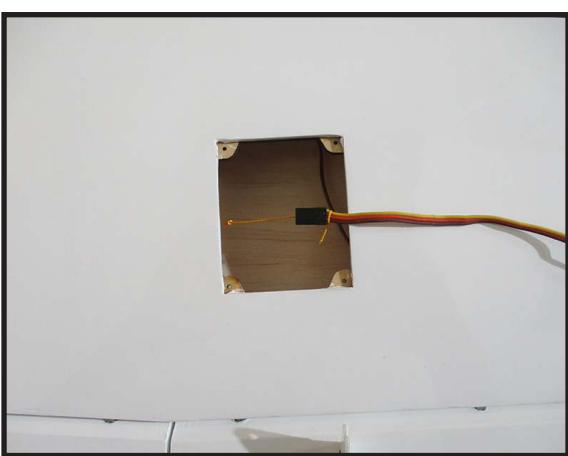
Secure the servo to the aileron hatch using Phillips screwdriver and the screws provided with the servo.



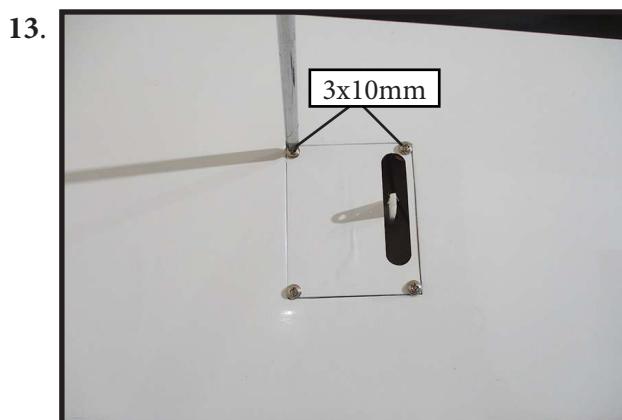
7. Apply 1-2 drops of thin C/A to each of the mounting tabs. Allow the C/A to cure without using accelerator.



8. Remove the string from the wing at the servo location and use the tape to attach it to the servo extension lead. Pull the lead through the wing and remove the string.



9. Set the aileron hatch in place and use a Phillips screw driver to install it with four wood screws.



14.



15.



3.



4.

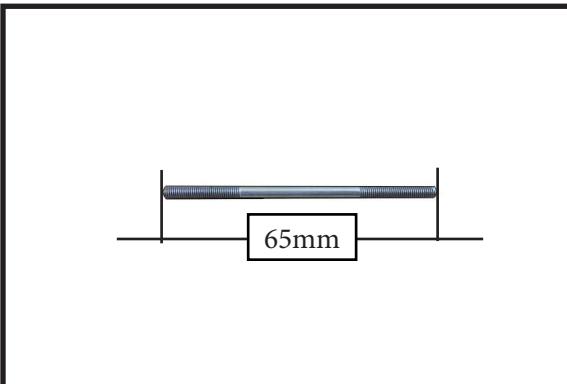


MOUNT THE PLYWOOD ENGINE NACELLES

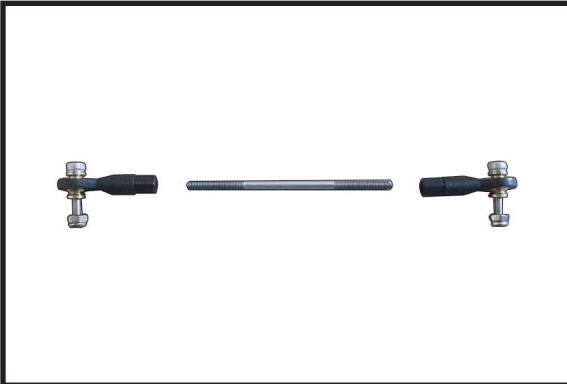
AILERON PUSHROD INSTALLATION

Please see below pictures.

1.



2.

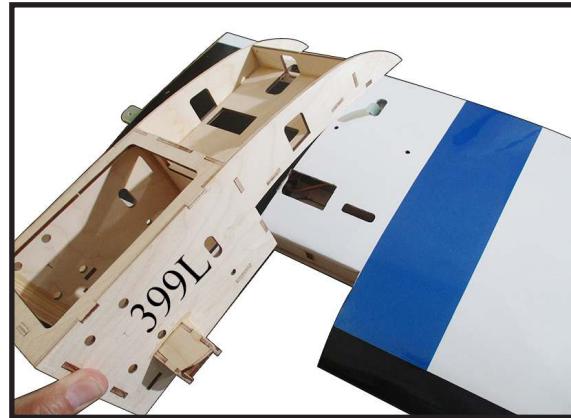


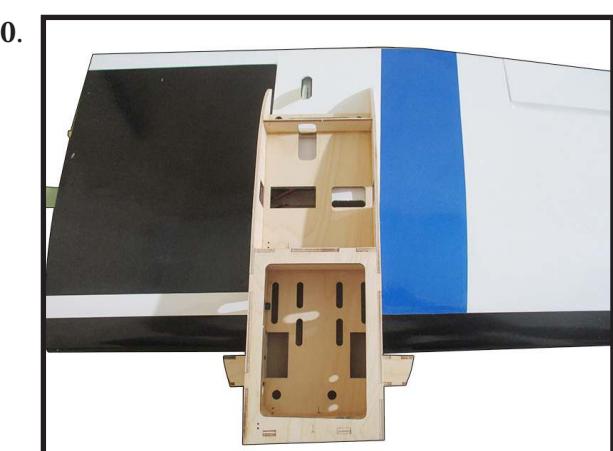
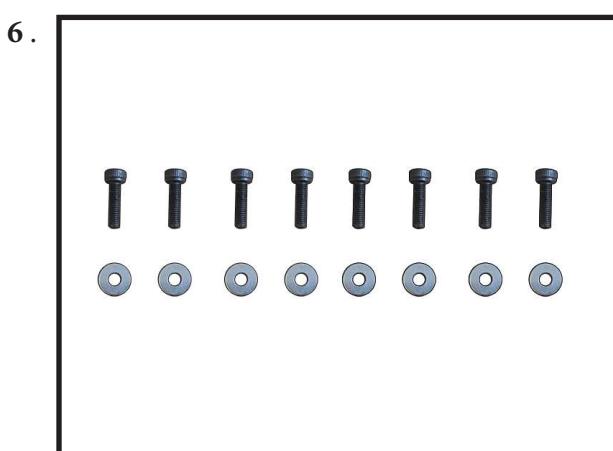
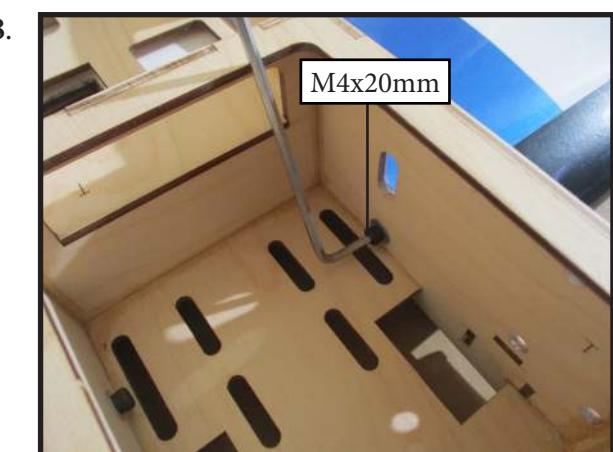
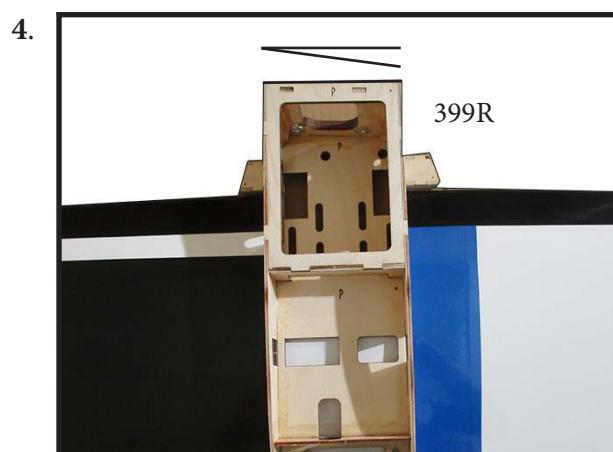
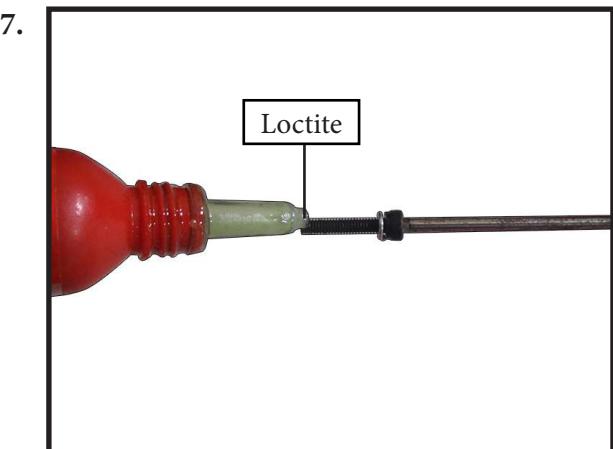
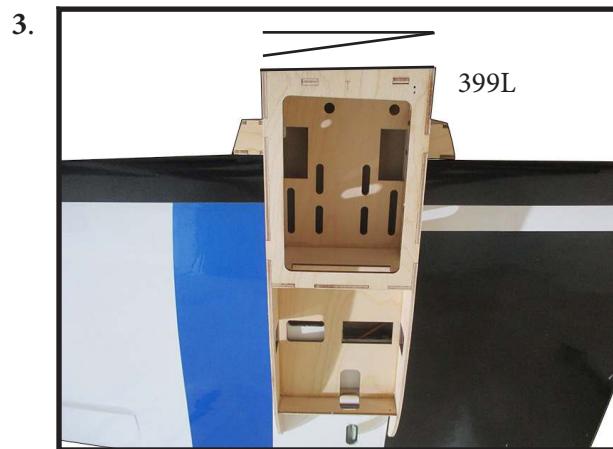
1.



You install the side motor mount box with the lettering 399L on the left wing and 399R on the right wing.

2.

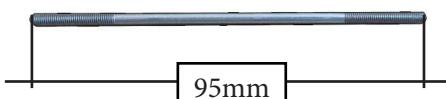




INSTALLING THE FLAP PUSHROD

Repeat the procedure for the aileron pushrod.

1.



2.



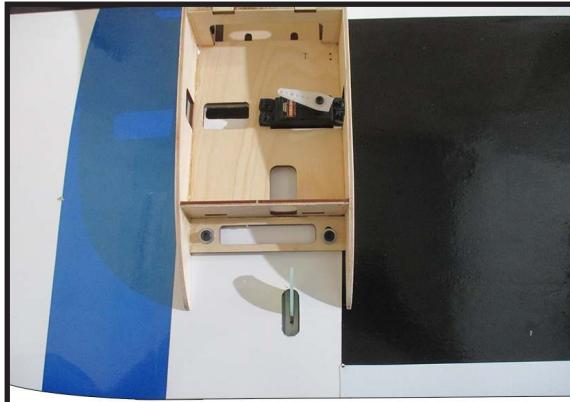
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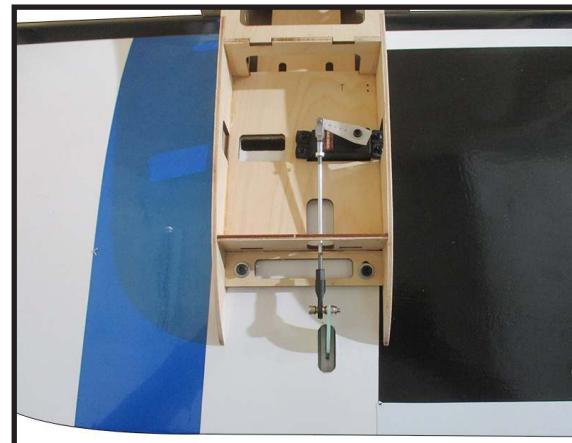
INSTALLING THE FLAP SERVO

Repeat the procedure for the flap servo.

1.



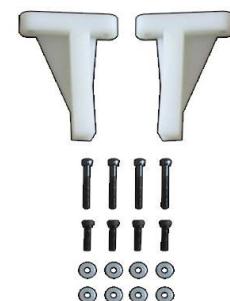
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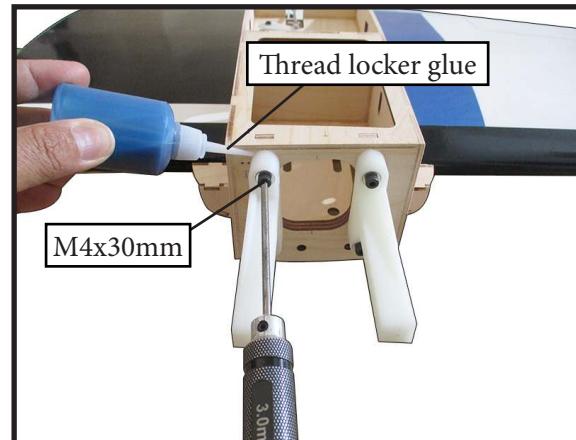
ENGINE MOUNT INSTALLATION

Locate the items necessary to install the engine mount included with your model.

1.

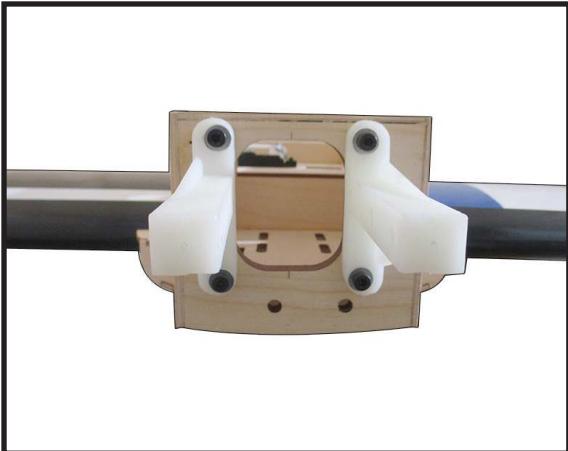


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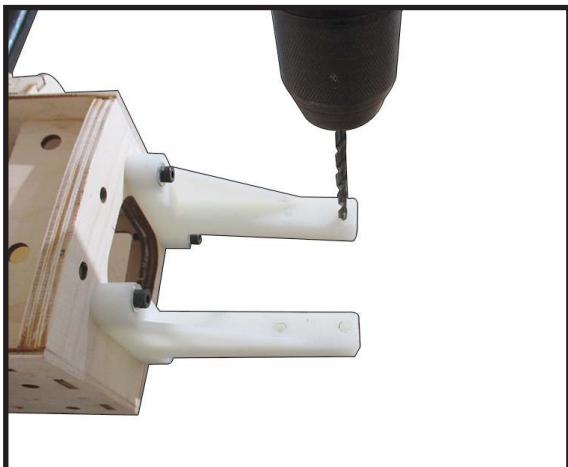
Use four 4x30mm head bolts and four 4mm washers to attach the engine mount rails to the firewall. Tighten the screws. Make sure to use threadlock on the screws to help prevent them from vibrating loose.

3.

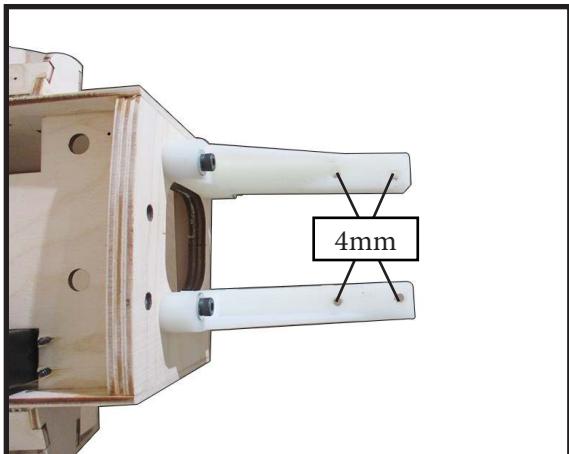


Use a drill to drill the four holes in the engine mount rails.

4.

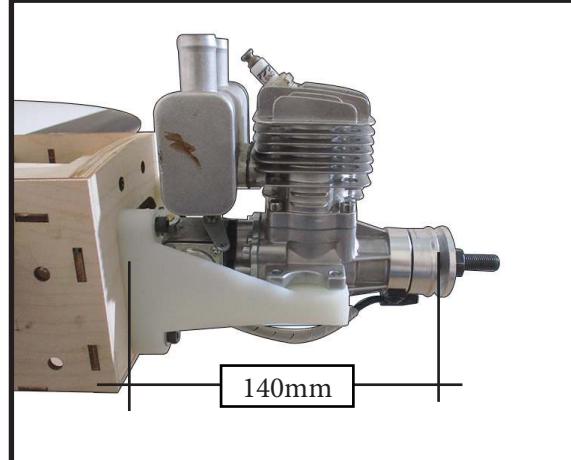


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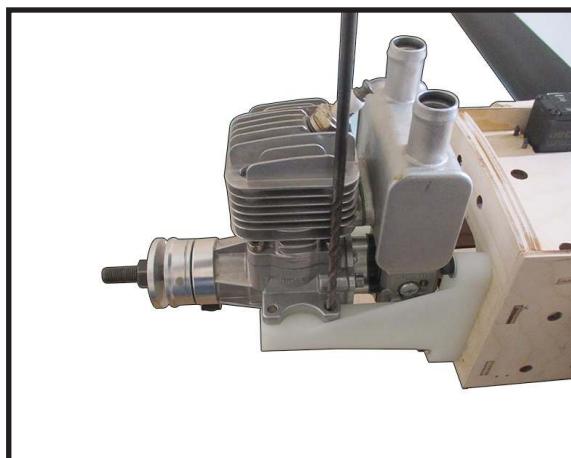


Position the engine with the drive washe (140mm) forward of the firewall as shown.

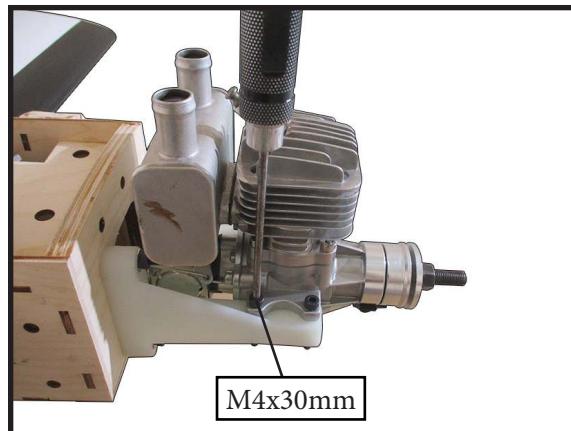
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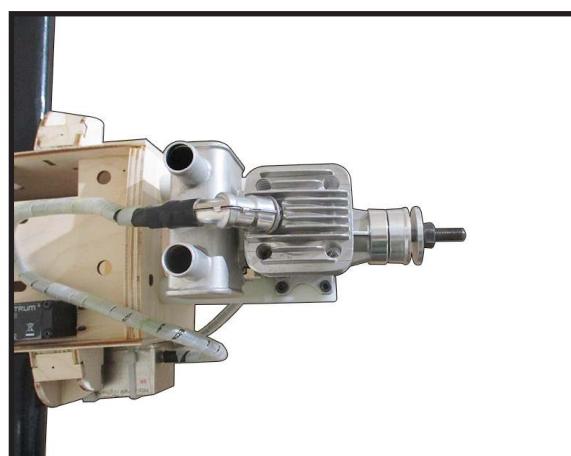
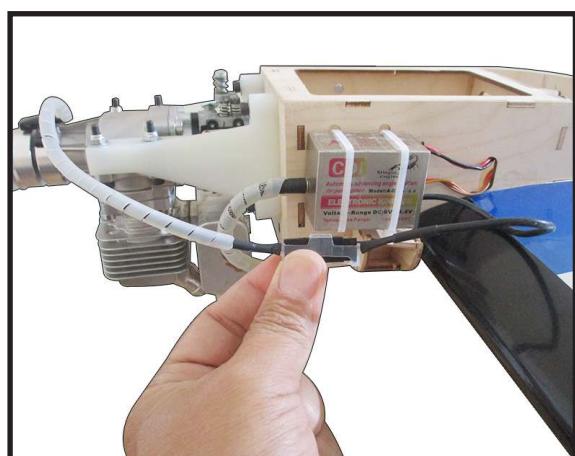
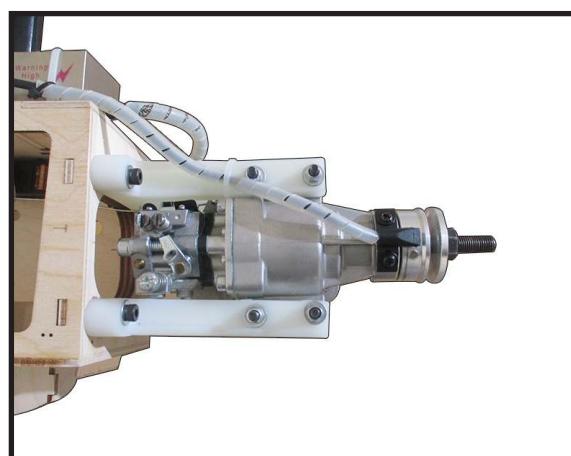
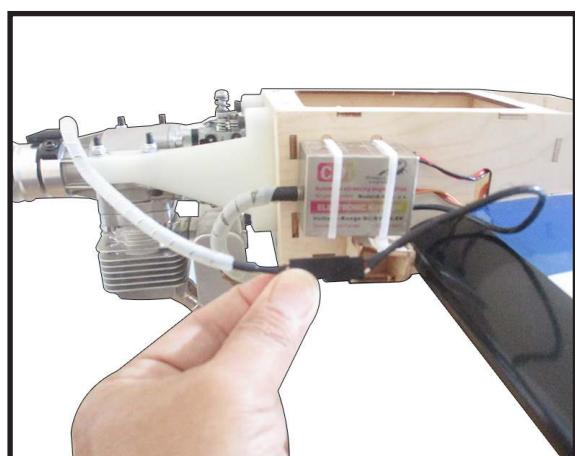
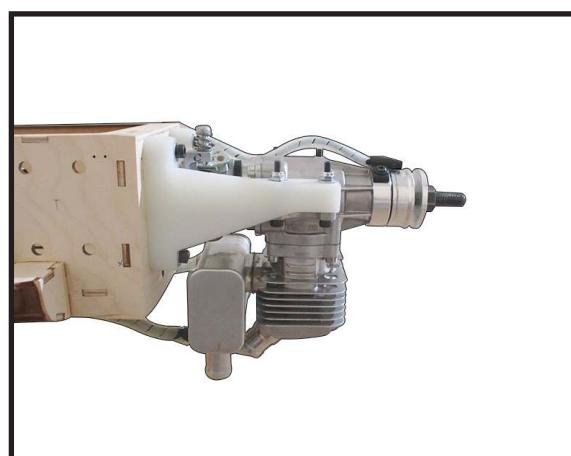
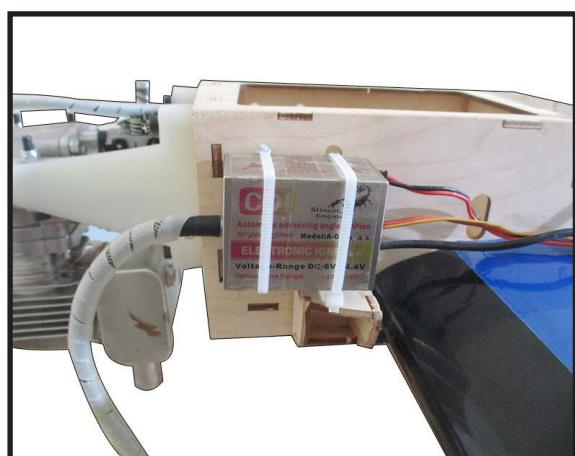
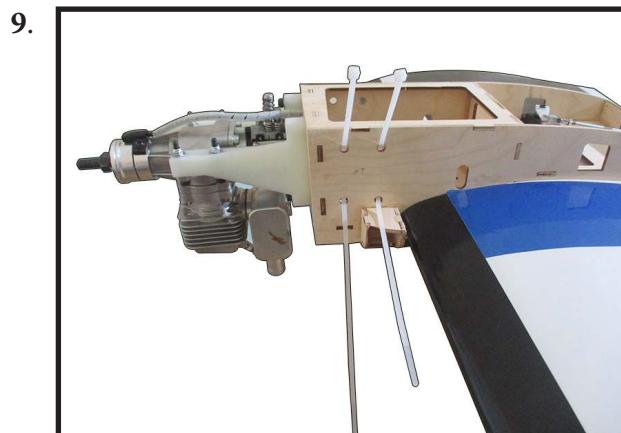


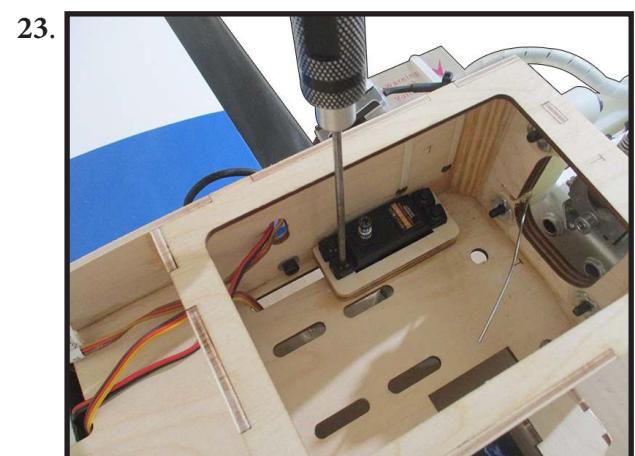
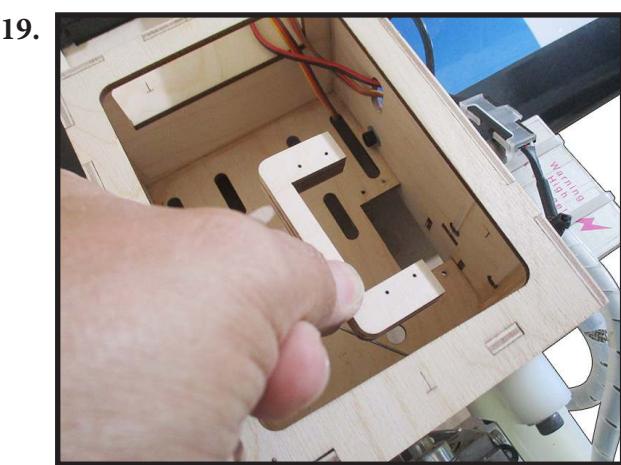
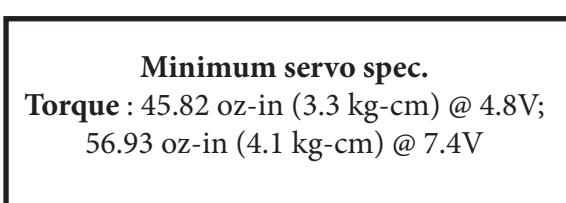
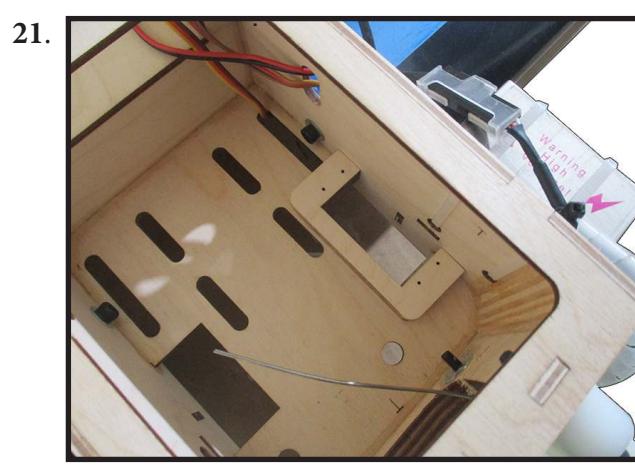
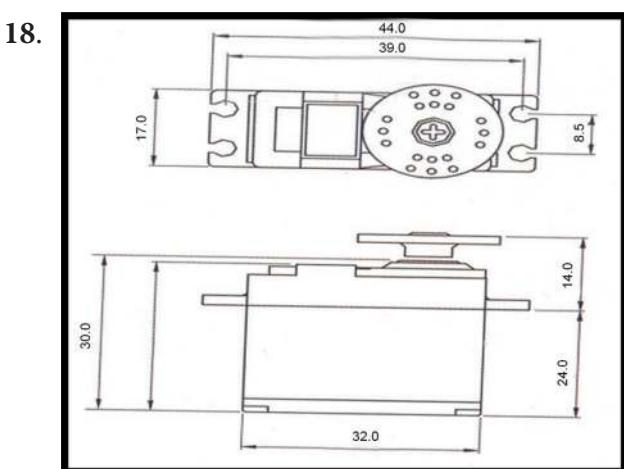
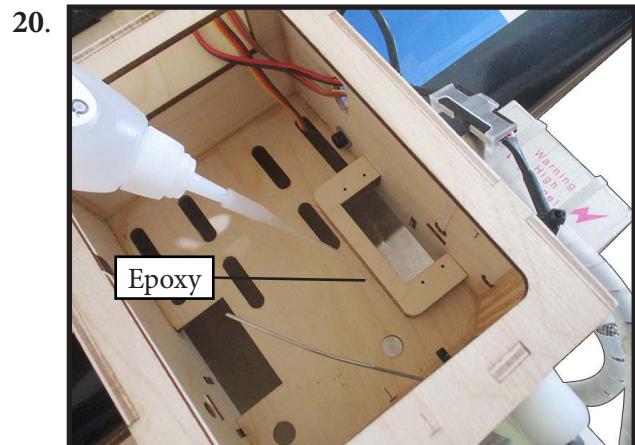
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8.





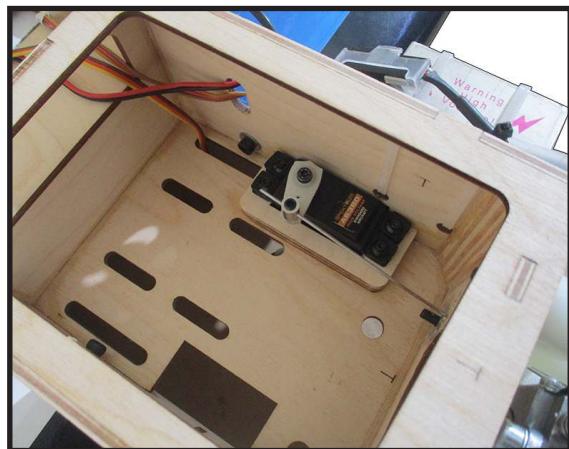


24.



Reinstall the servo horn by sliding the connector over the pushrod wire. Center the throttle stick and trim and install the servo horn perpendicular to the servo center line.

25.



Move the throttle stick to the closed position and move the carburetor to closed. Use a 2.5mm hex wrench to tighten the screw that secures the throttle pushrod wire. Make sure to use threadlock on the screw so it does not vibrate loose.

26.

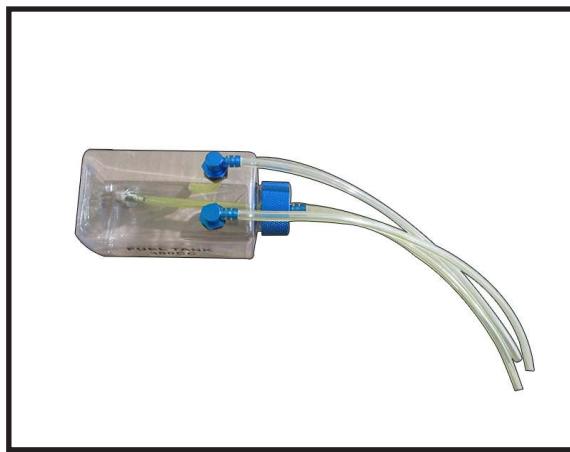


FUEL TANK INSTALLATION

1.



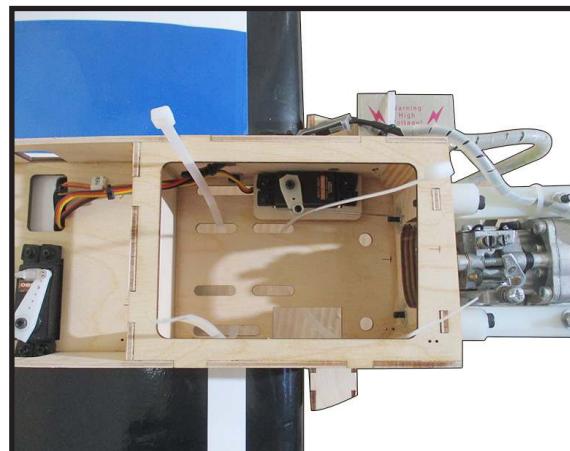
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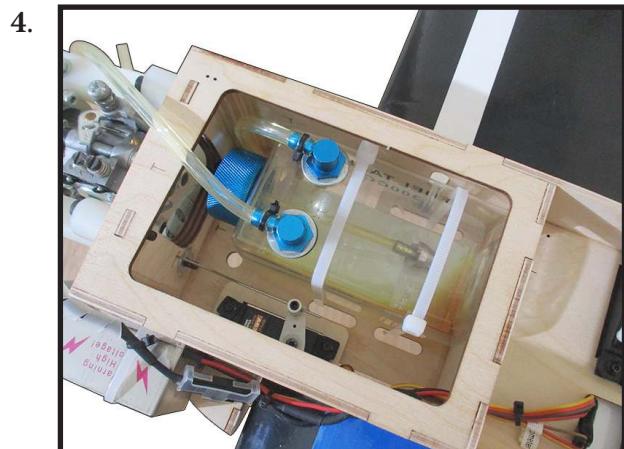


 You should mark which tube is the vent and which is the fuel pickup when you attach fuel tubing to the tubes in the stopper. Once the tank is installed inside the fuselage, it may be difficult to determine which is which.

Slide the fuel tank into the fuselage. Guide the lines from the tank through the hole in the firewall.

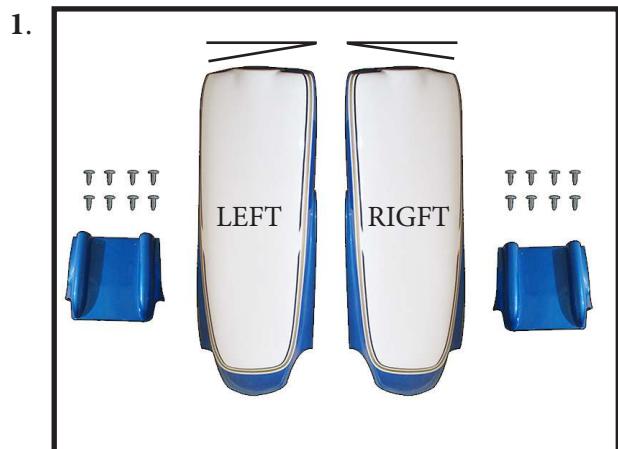
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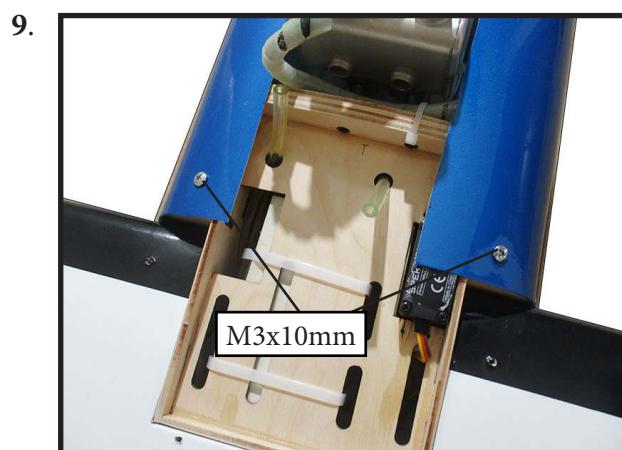
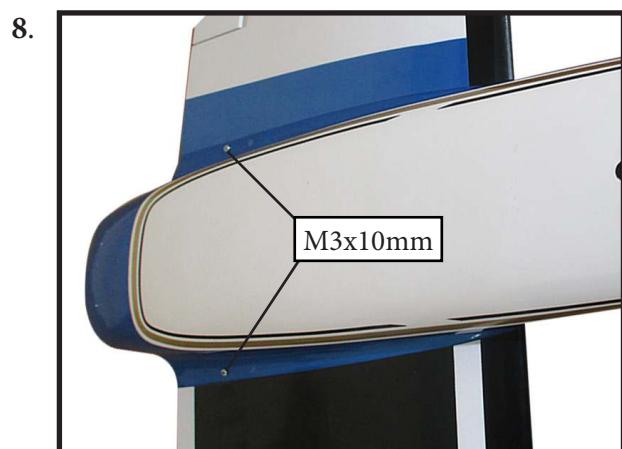
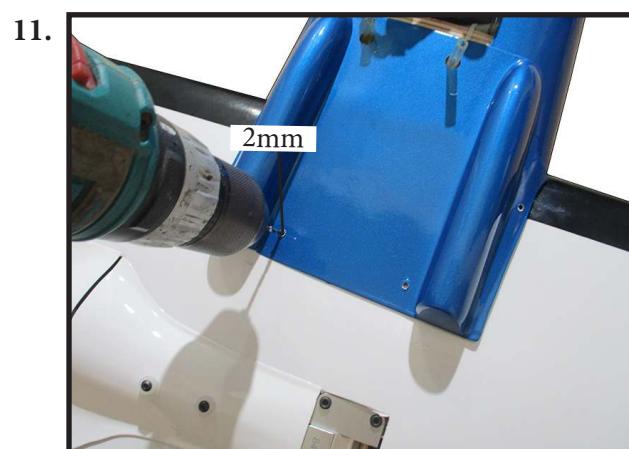
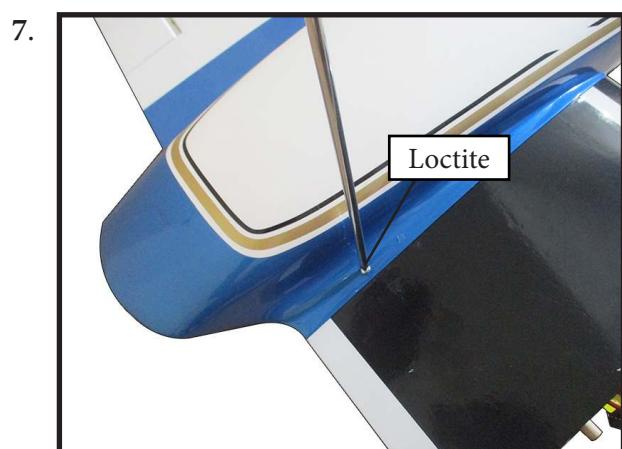
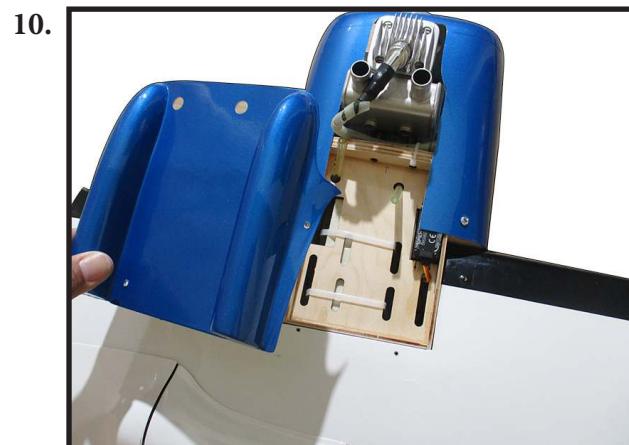
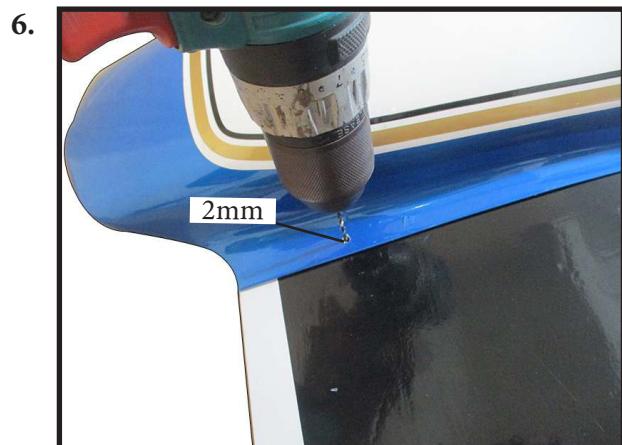
COWLING

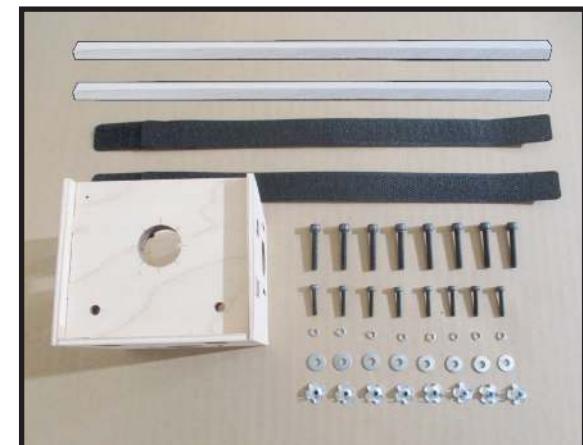
Please study images below.



Install the muffler and muffler extension onto the engine and make the cutout in the cowl for muffler clearance. Connect the fuel and pressure lines to the carburetor, muffler and fuel filter valve. Secure the cowl to fuselage using the M3x10mm socket head screws. Putting a small length of silicon fuel tube under the head of the screw helps with vibration.







Recommend the items necessary to install the electric power conversion parts included with your model.

- **Motor: Avian 5055-550Kv Outrunner (SPMXAM 4740)**
- **Avian 100 Smart ESC (PSMXAE1100)**
- **Propeller: wood 15x8E (EFLP 71764) or APC 15x 8E (APC 15080 E)**

Attach the electric motor box to the firewall suitable with the cross lines drawn on the electric motor box and firewall. Using epoxy and balsa stick to secure the motor box to the firewall. Please see pictures below.



ELECTRIC POWER CONVERSION

Locate the items necessary to install the electric power conversion included with your model.

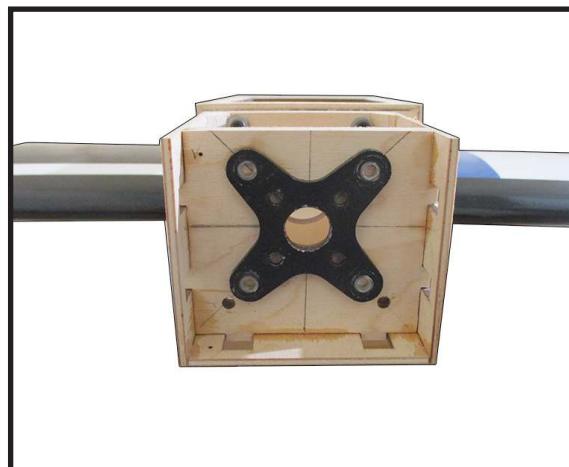
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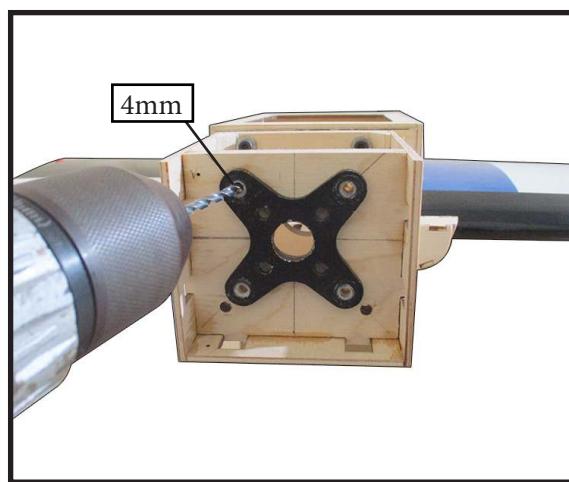
4.



6.



7.

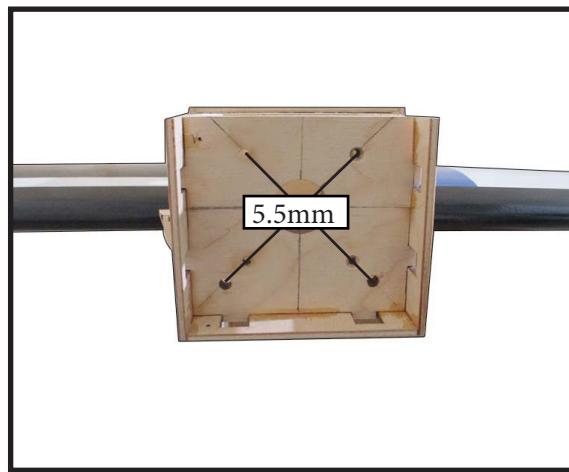


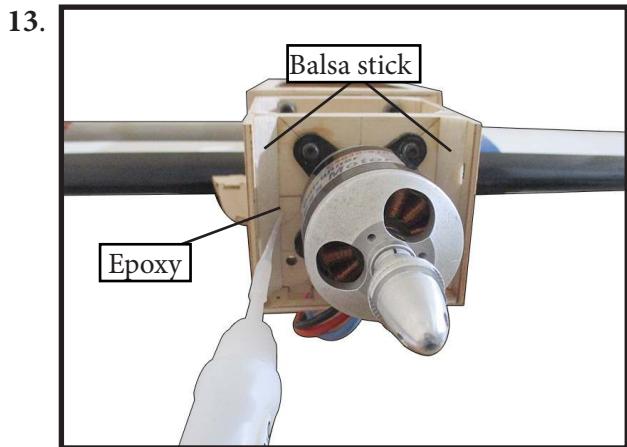
Attach the motor to the front of the electric motor box using four 4mm blind nut, four M4x25 mm hex head bolts to secure the motor. Please see picture shown.

5.

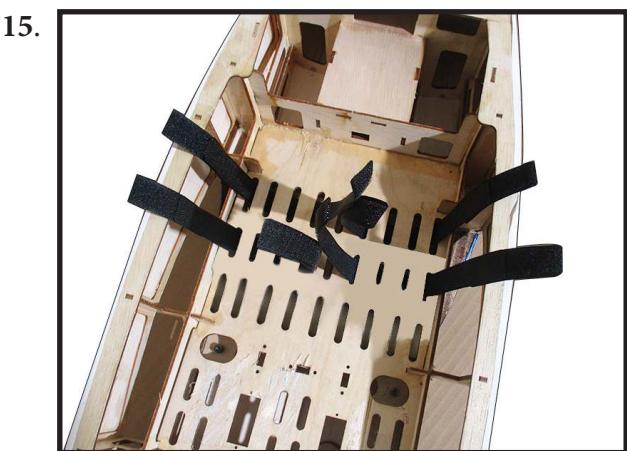
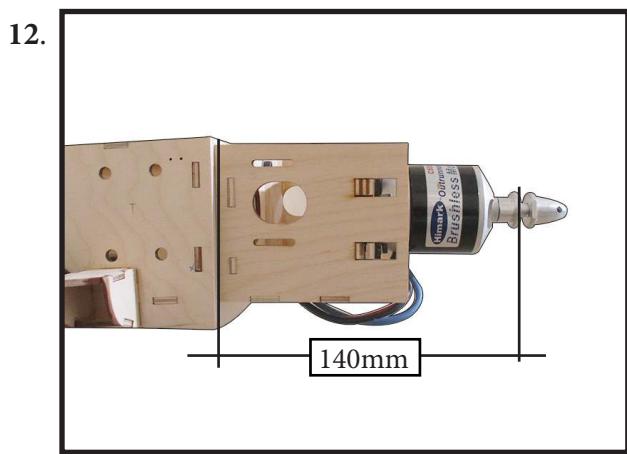
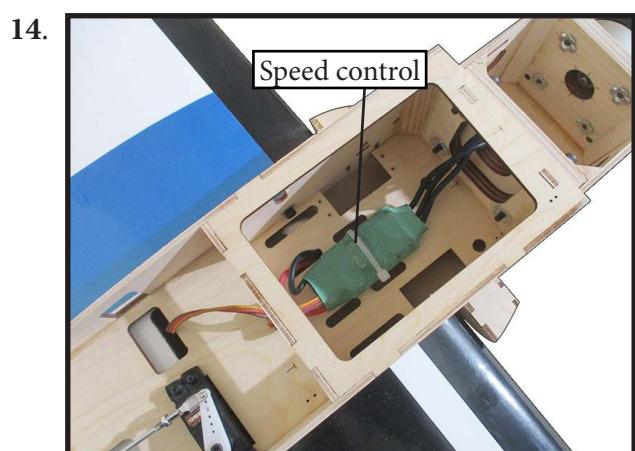
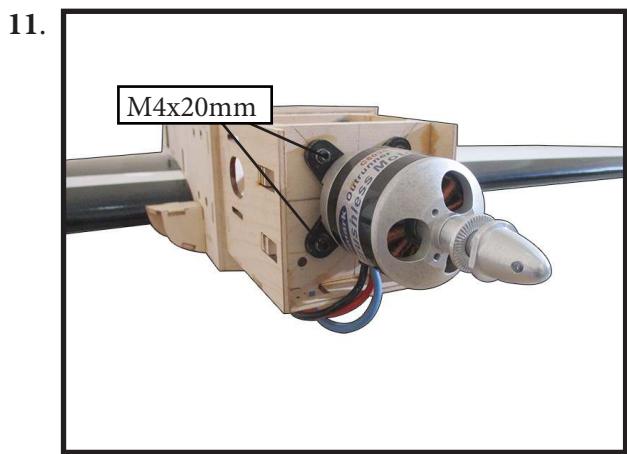


8.





Attach the speed control to the side of the motor box using two-sided tape and tie wraps. Connect the appropriate leads from the speed control to the motor. Make sure the leads will not interfere with the operation of the motor.



16.

**INSTALLING LANDING GEAR**

Locate items necessary to install Sprin Landing Gear.

17.



18.

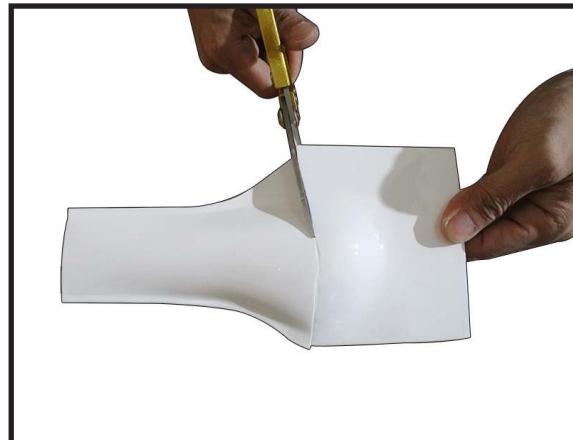


1.



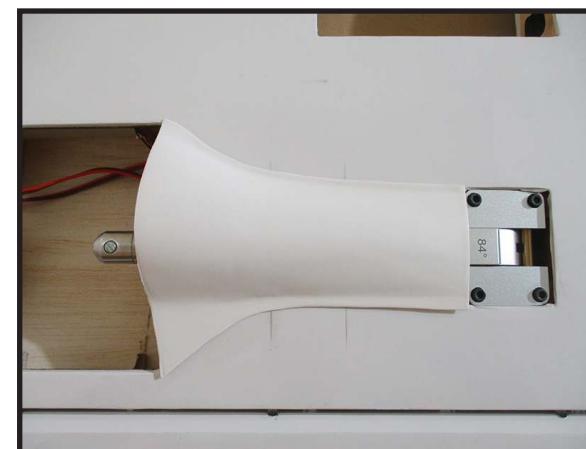
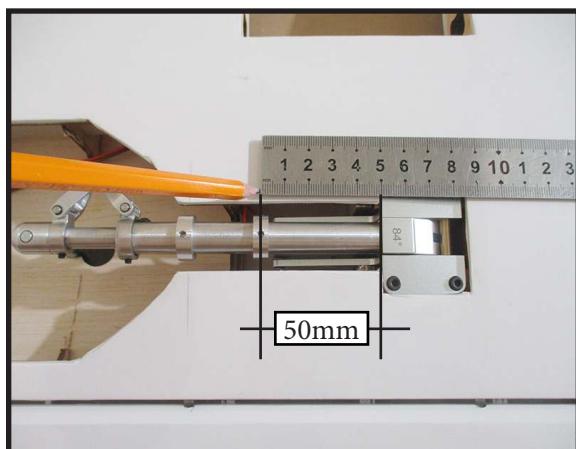
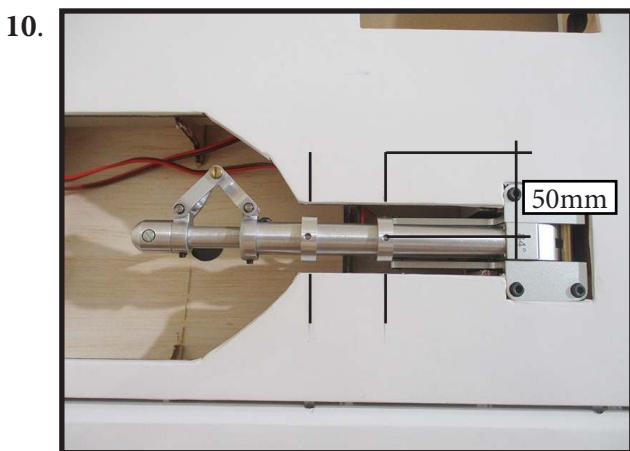
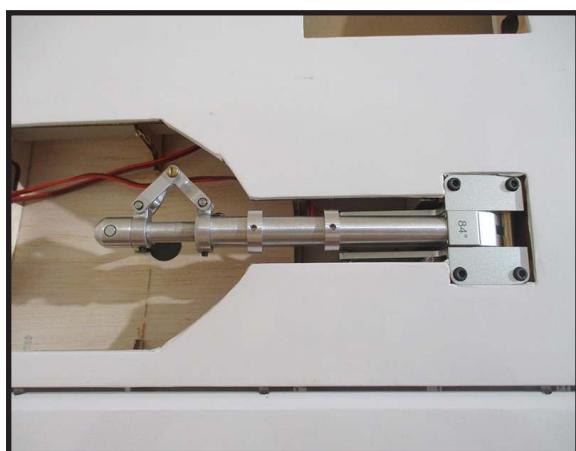
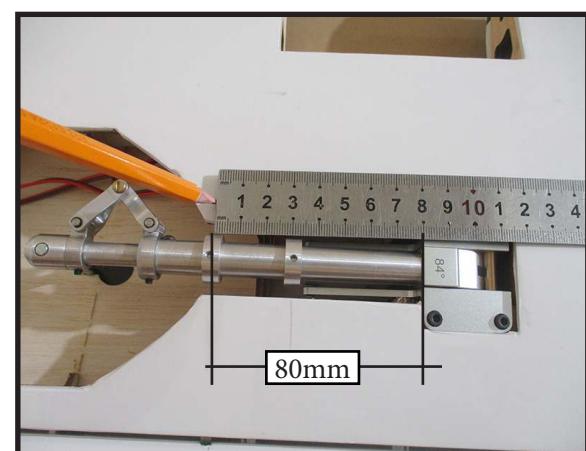
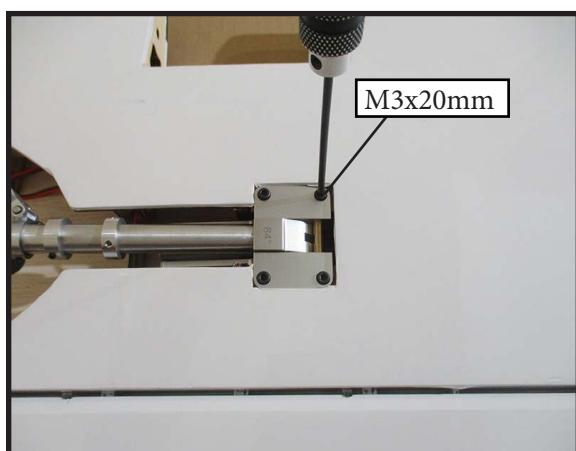
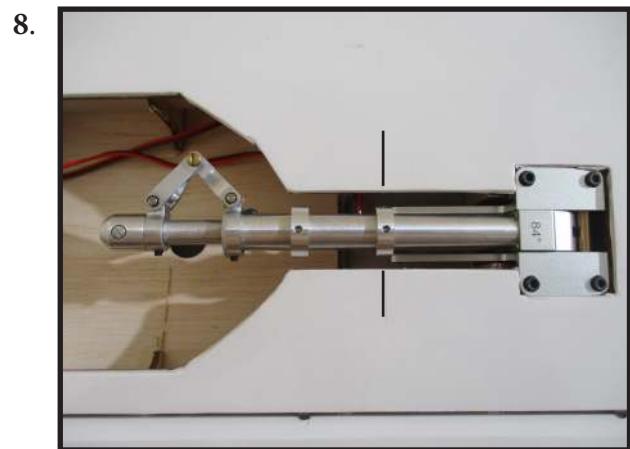
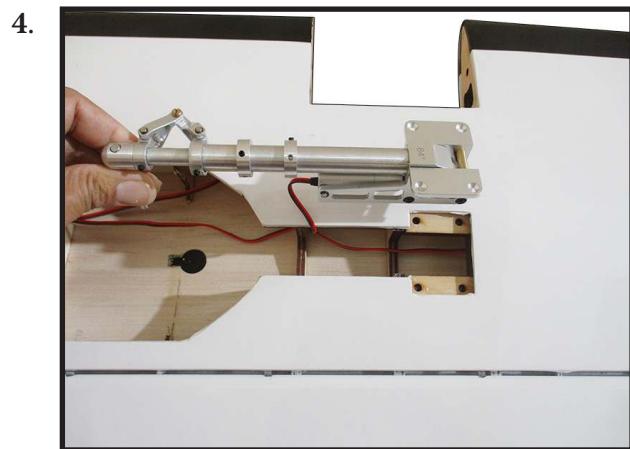
Install retractable landing gear at the Wing.

2.



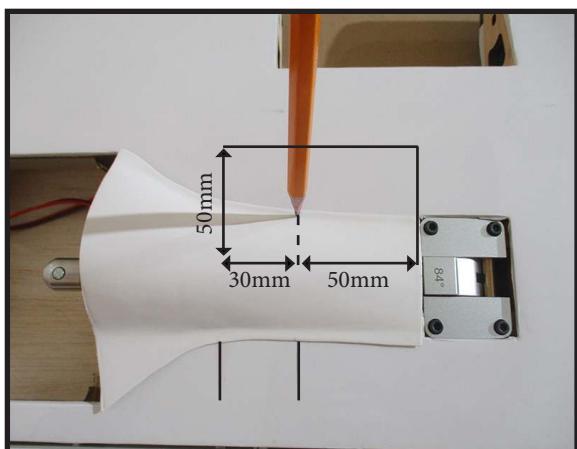
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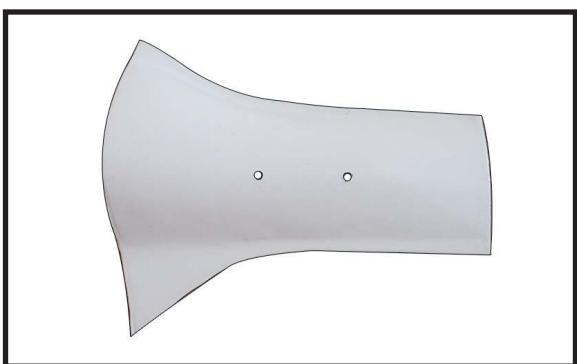


You can use a correction pen or masking tape to create a 50mm gap.

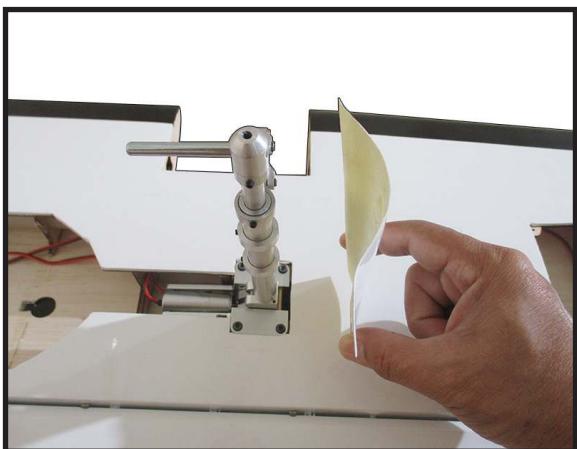
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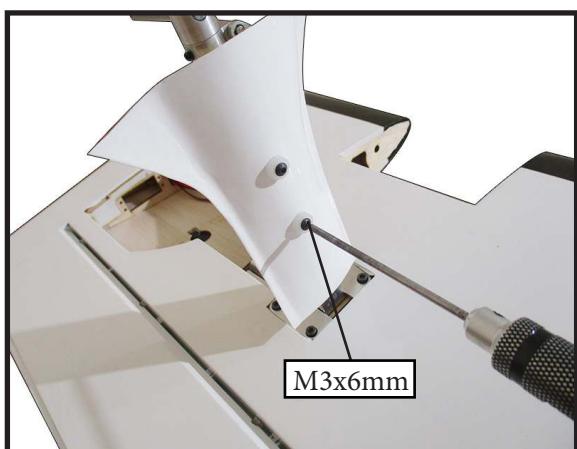
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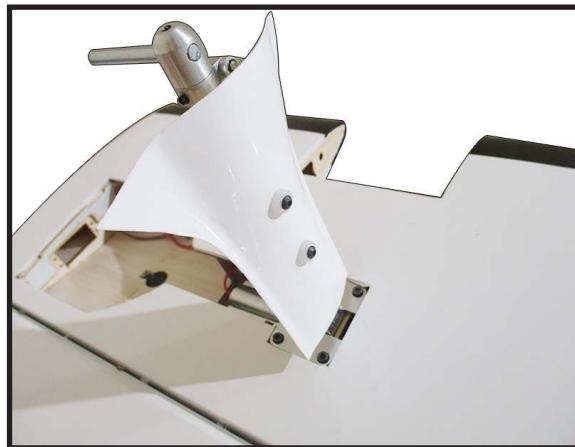
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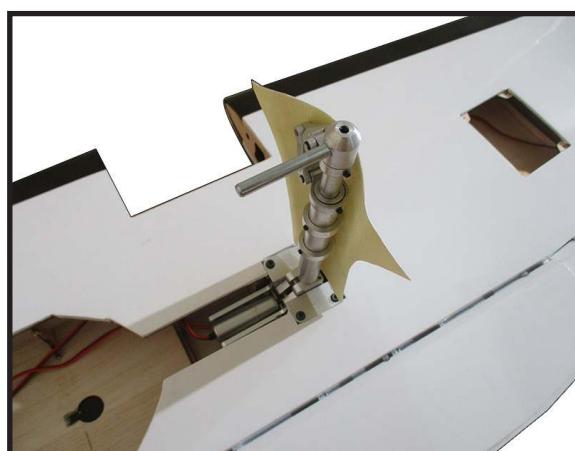
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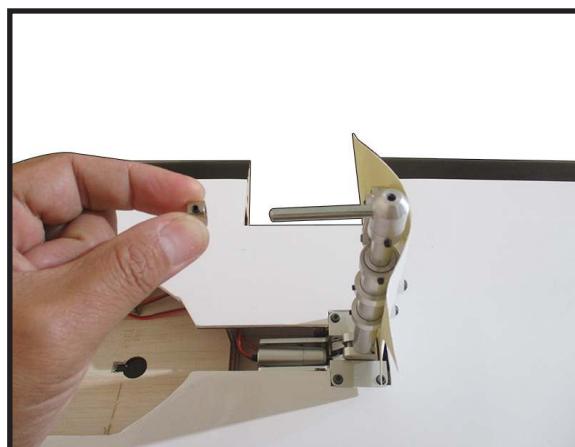
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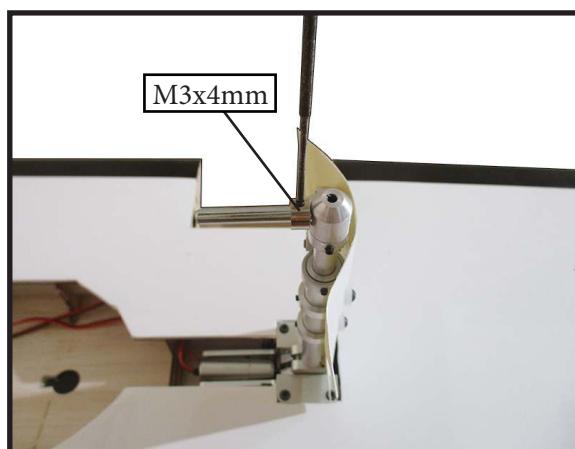
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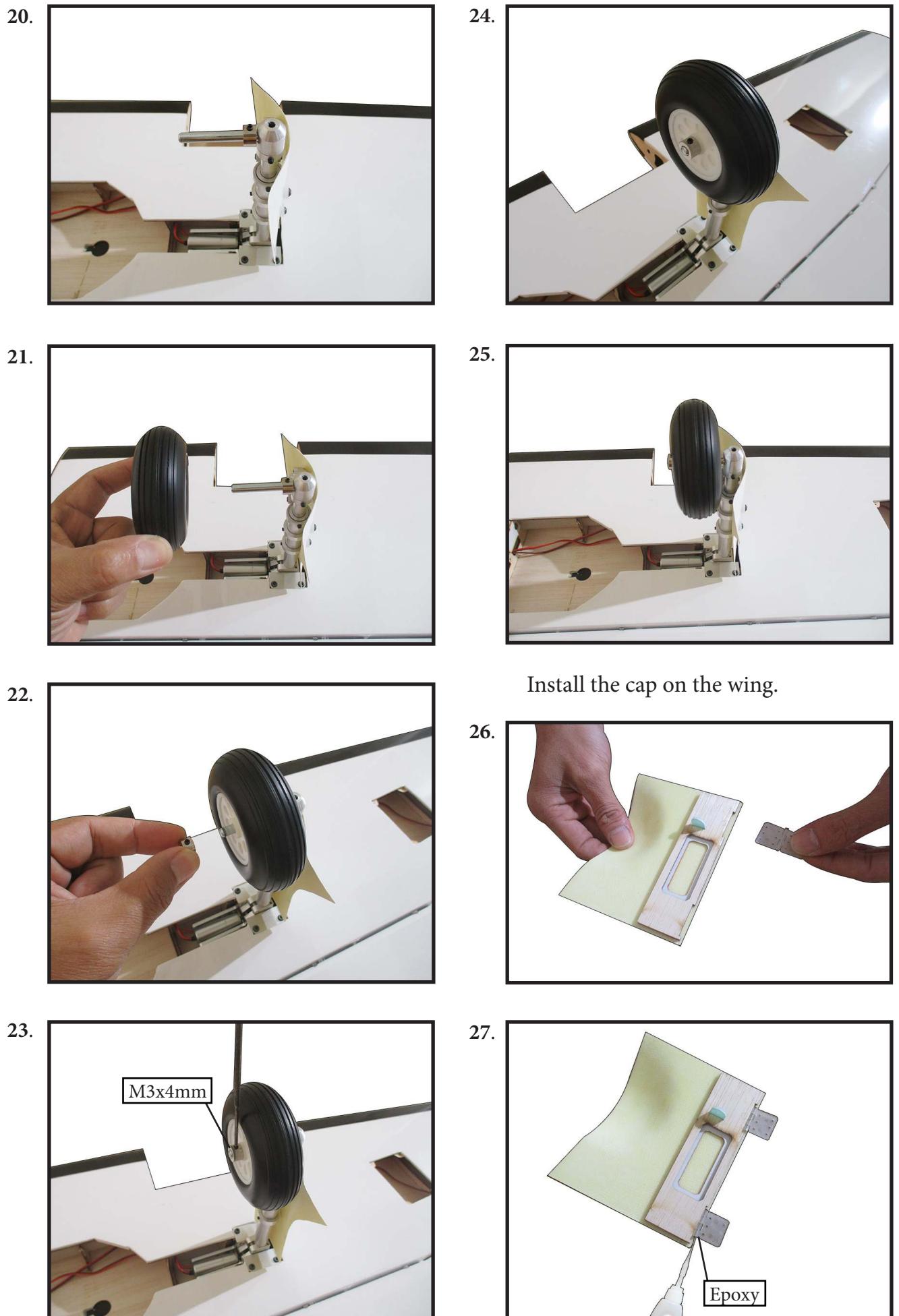


18.



19.





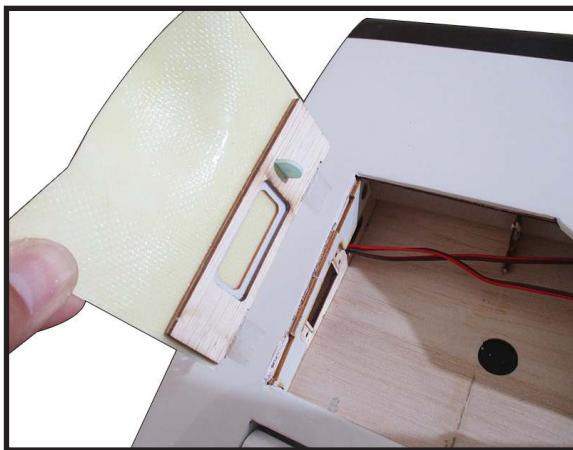
Install the cap on the wing.

28.

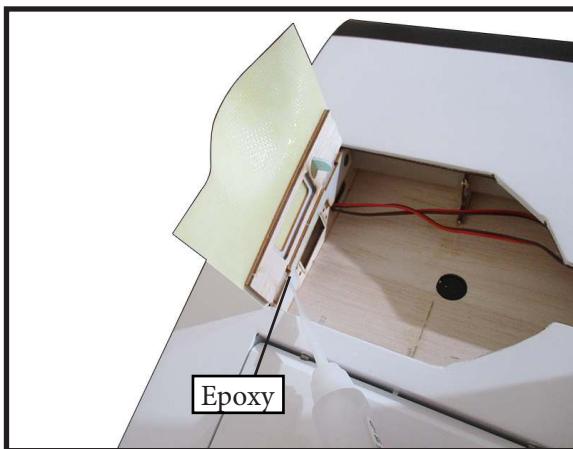


The servo motor should be at least 25mm in size.

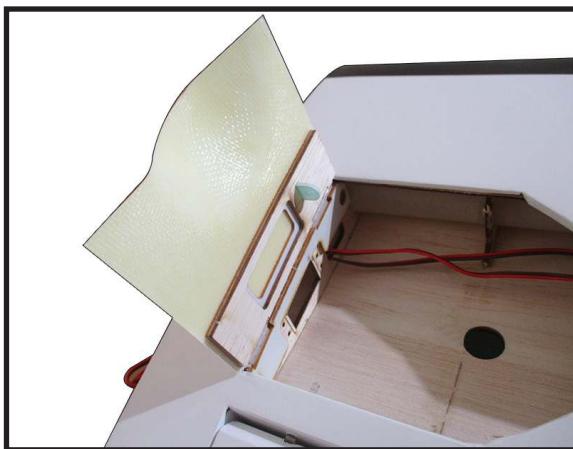
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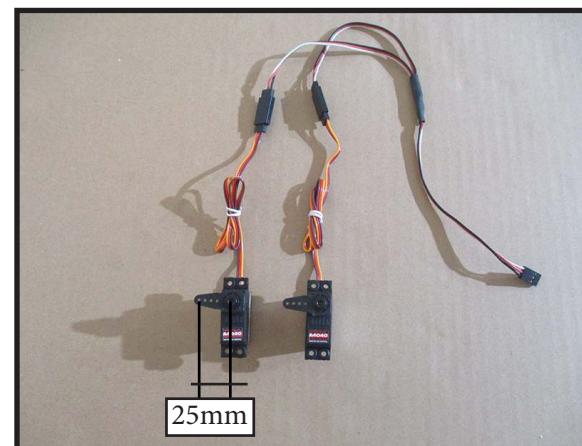
30.



31.



32.



Minimum servo.

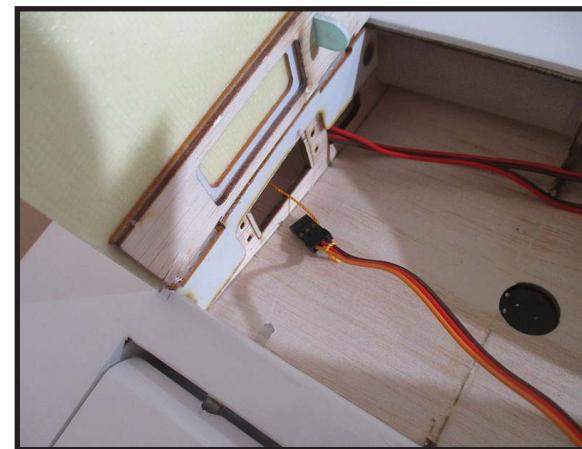
Torque : 8.7 oz-in (6.3 kg-cm) @ 6V;
118 oz-in (8.5 kg-cm) @ 8.4V

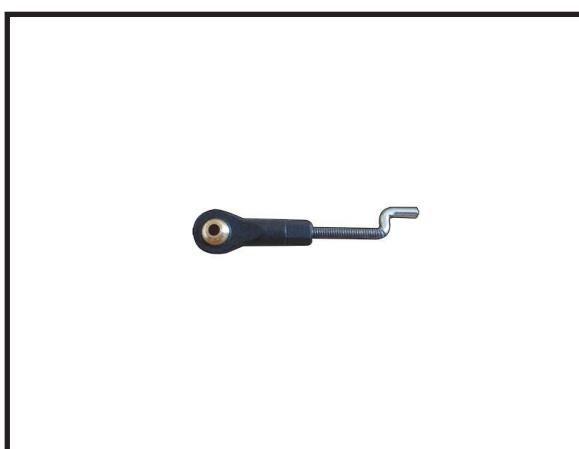
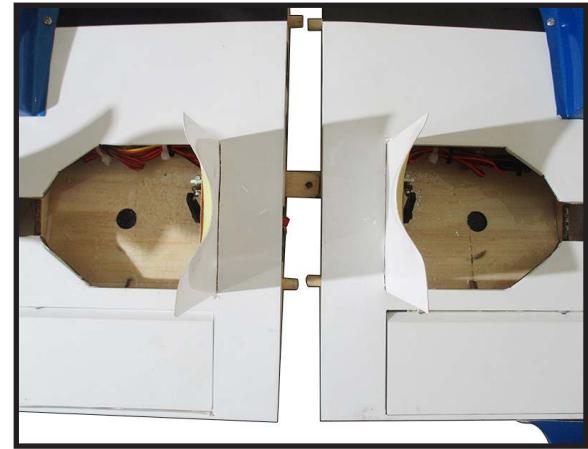
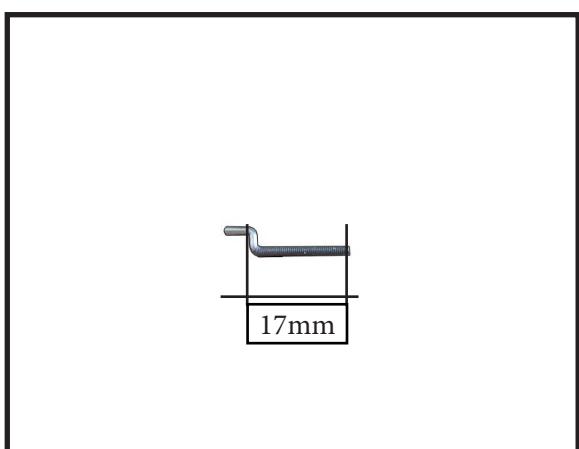
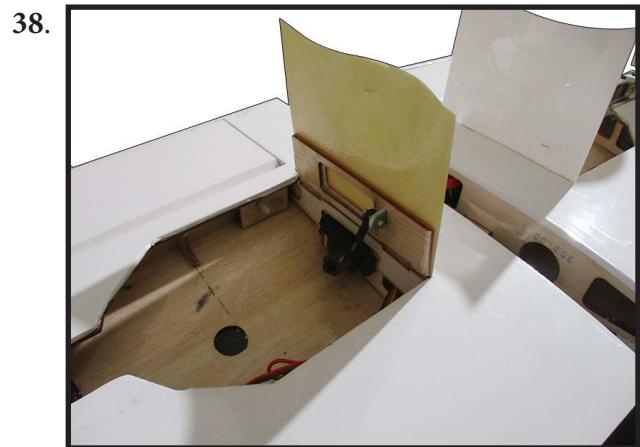
**Encourage the use of servos such as
Spektrum.a5060.**

Hitec HS-225MG.

Note: The speed of this servo you to be in the slowest mode then you gradually increase to suit the speed ranked.

33.





42.



Secure the landing gear doors to the landing gear struts.

43.



44.



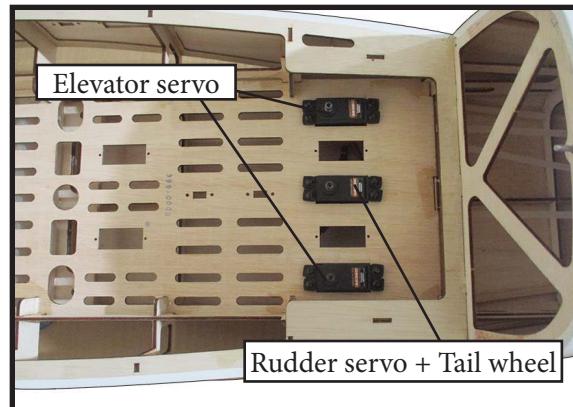
INSTALLING THE FUSELAGE SERVOS

⚠️ Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

Secure the servos with the screws provided with your servo.

You can use 1 servo or 2 servos for Elevator.

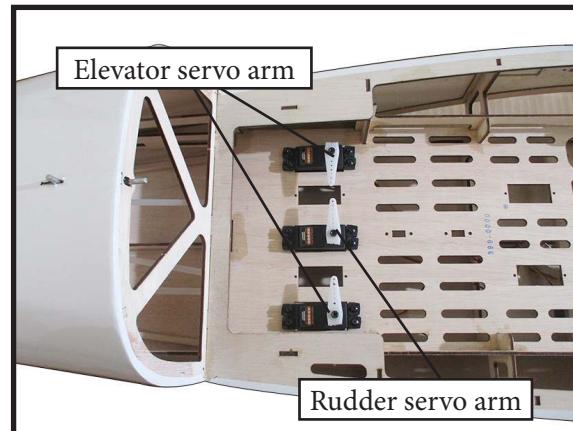
1.



THROTTLE SERVO ARM INSTALLATION

Install adjustable servo connector on the servo arm and set aside for now.

1.

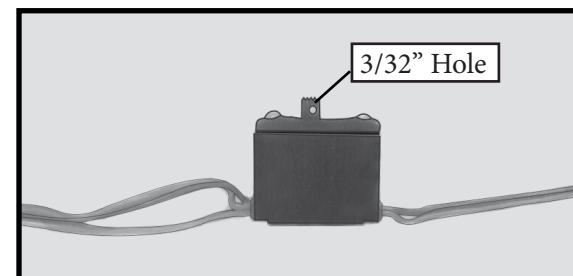


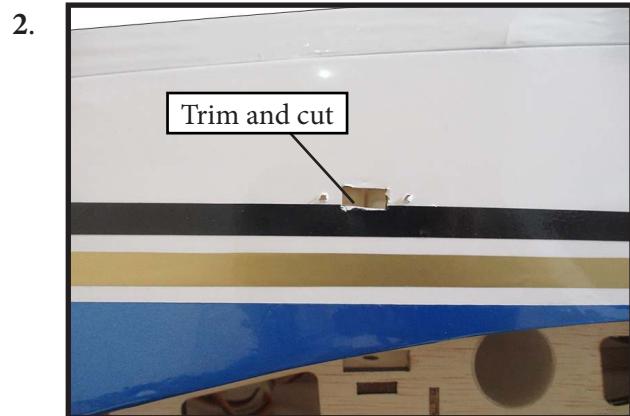
Install the rudder and elevator servo arms as shown above.

INSTALLING THE RECEIVER SWITCH

Install the switch into the precut hole in the side of fuselage, or you may hide switches under main hatch on a custom home made switch plate as desired.

1.

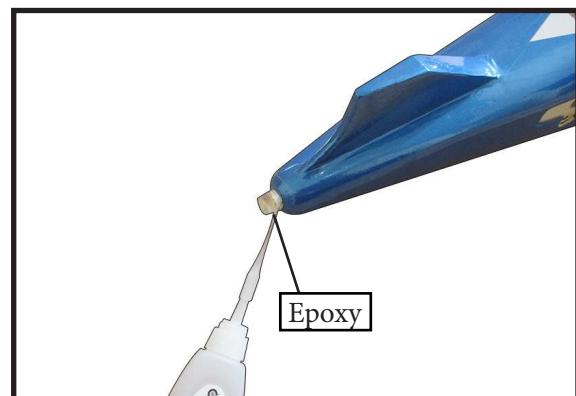
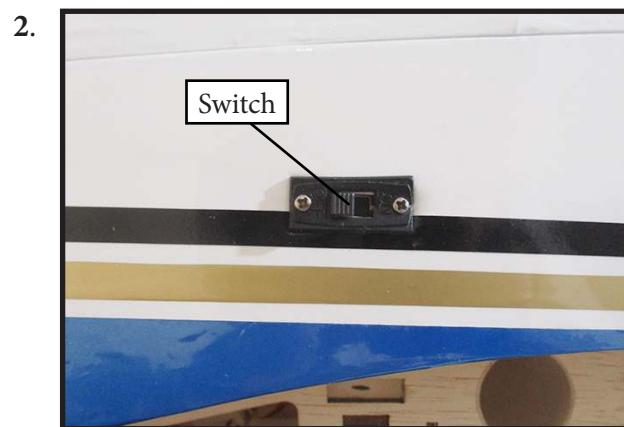
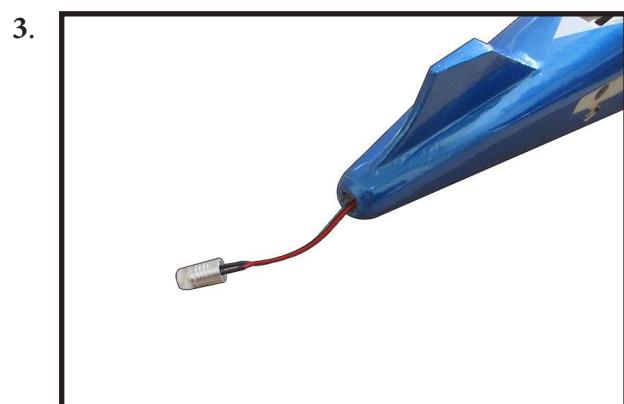
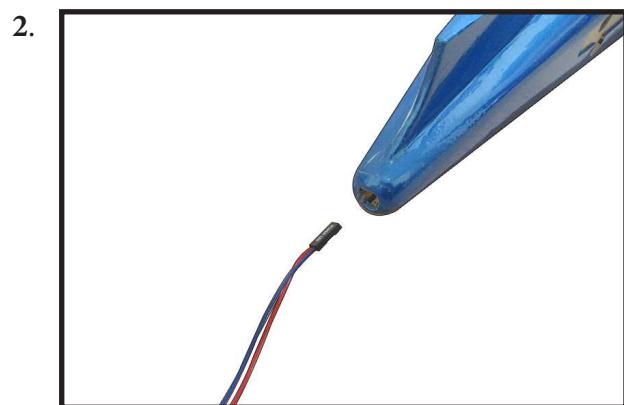
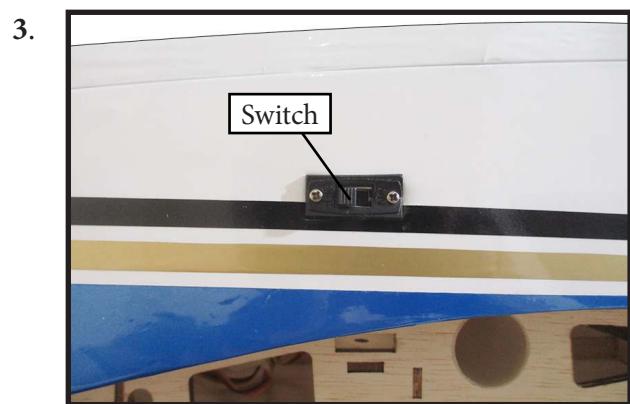


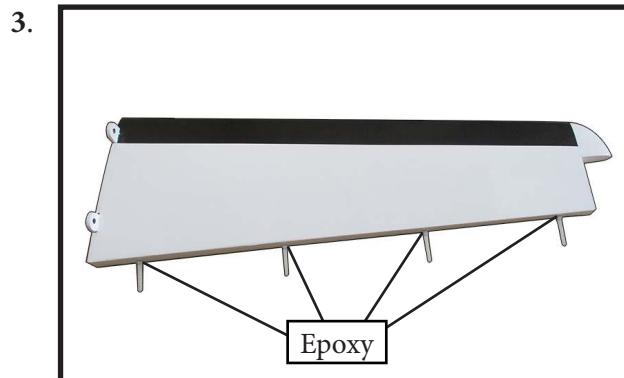


INSTALL LED BULB FOR FUSELAGE

Please study images below.

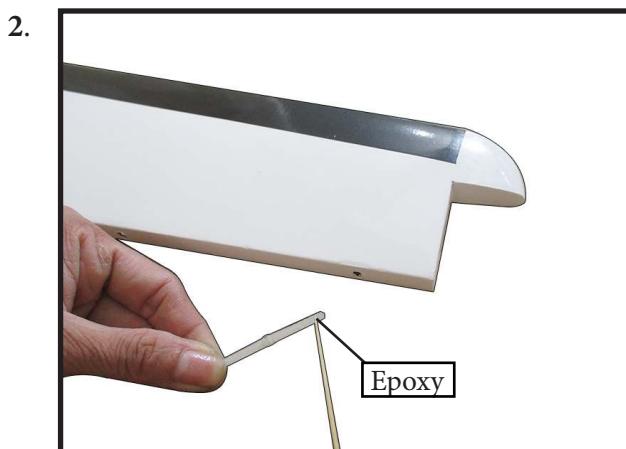
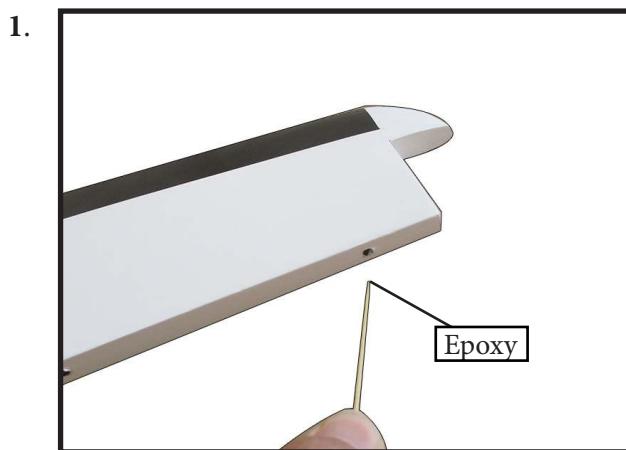
You use white led lights.





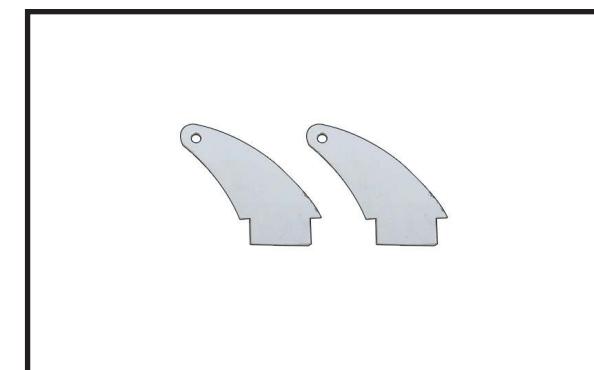
INSTALL NAIL HINGE ELEVATOR

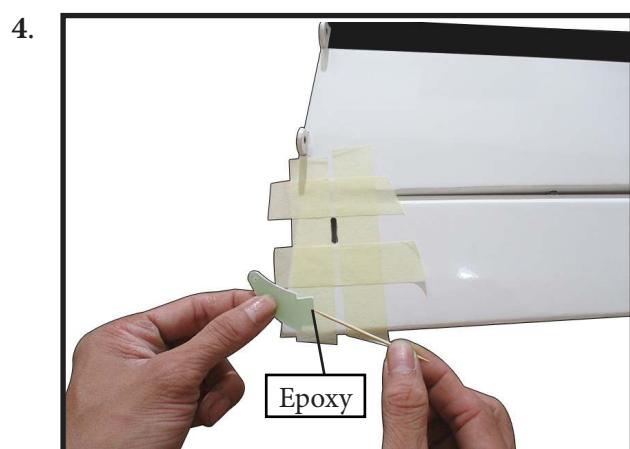
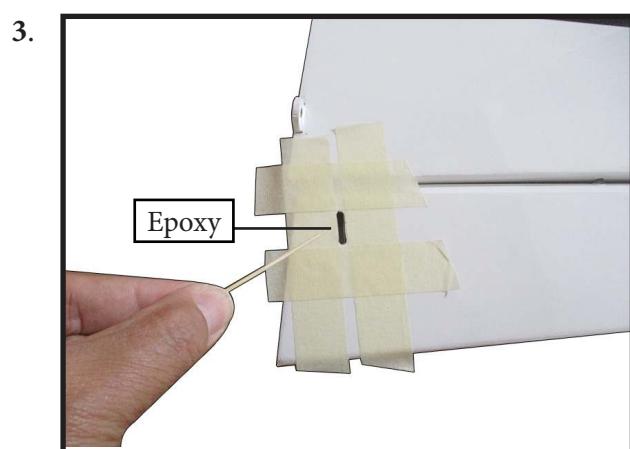
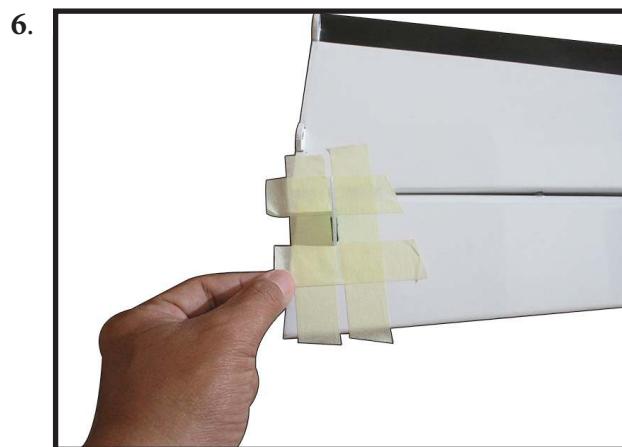
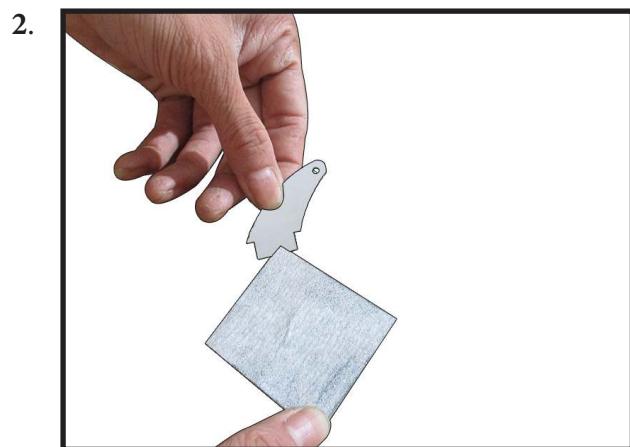
Test fit the hinges into the elevator, and then the hinges into the tail. Ensure that the hinge pockets line up, and that the hinges move freely.



INSTALL ELEVATOR CONTROL HORN

Install the elevator control horn using the same method as same as the elevator control horns.

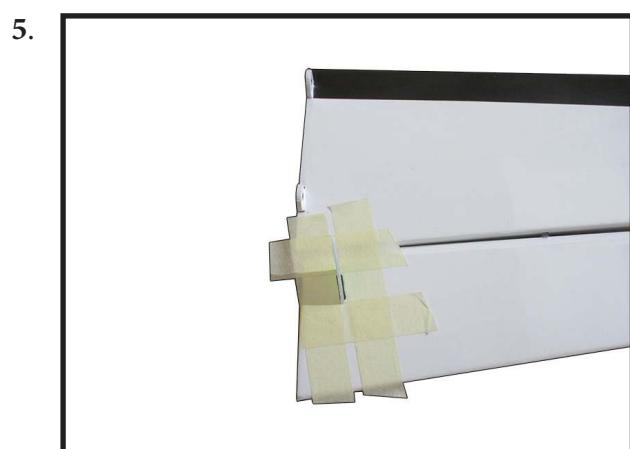




HINGING THE RUDDER

Glue the top three rudder hinges in place using the same techniques used to hinge the elevator.

The lower hinge will be glued when the fin/rudder assembly is attached to the fuselage.

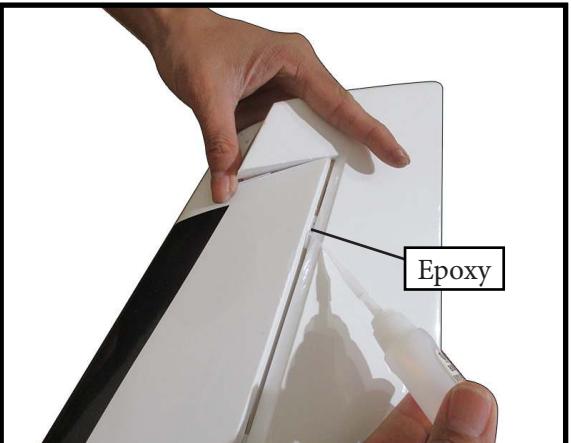


2. 

Plug in the power cord.

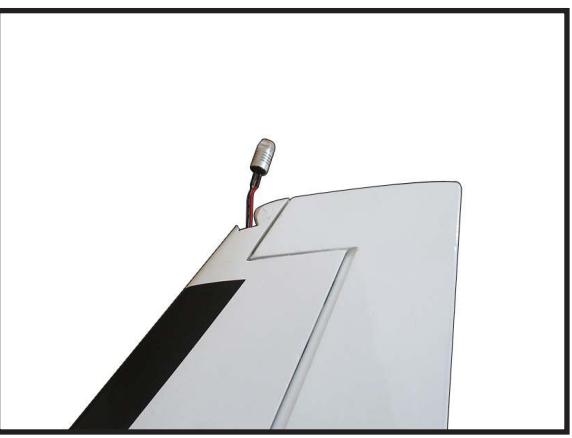
You use red led lights.

6. 

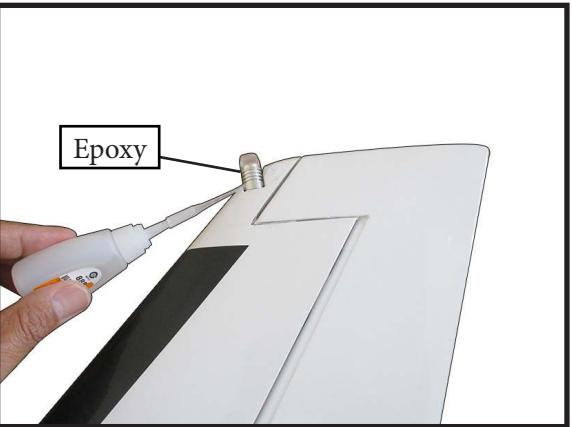
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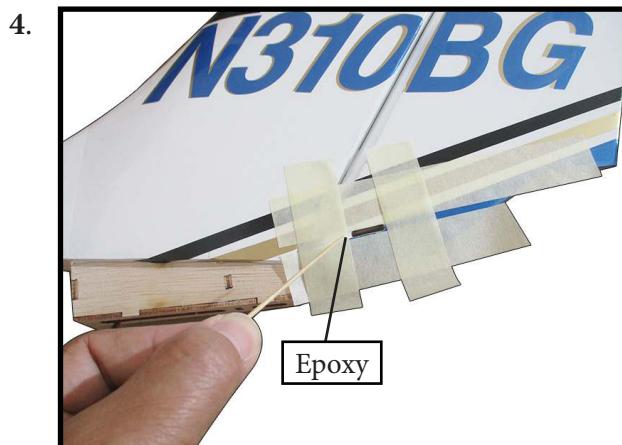
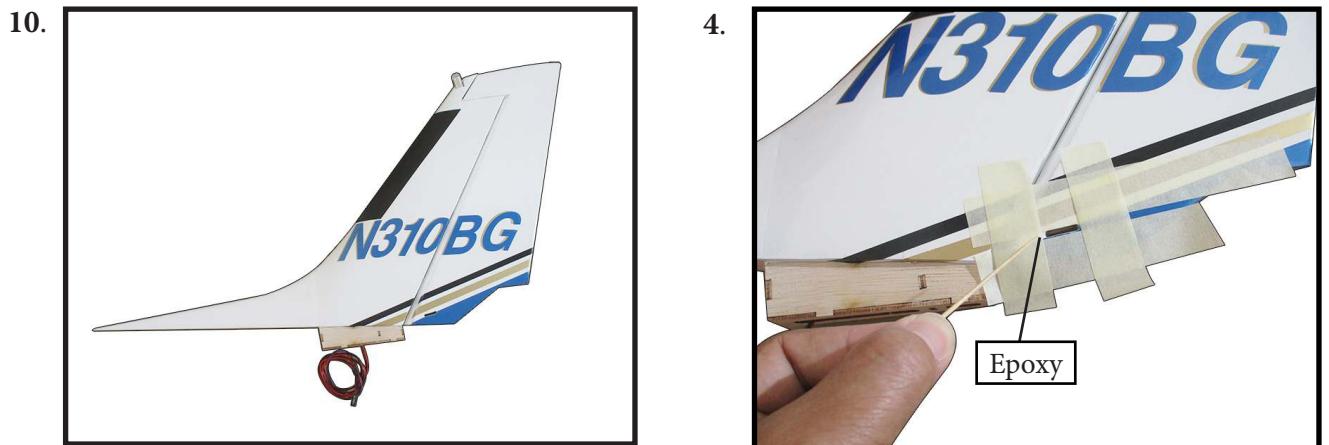
7. 

4. 

8. 

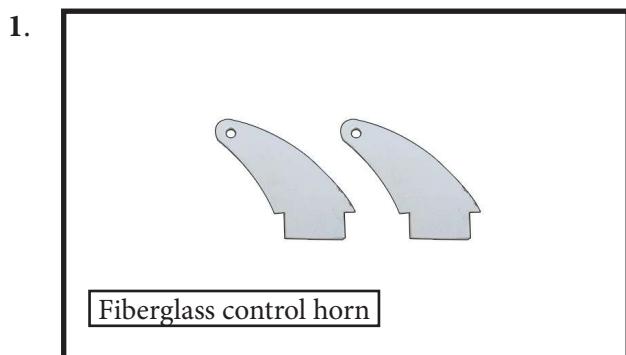
5. 

9. 

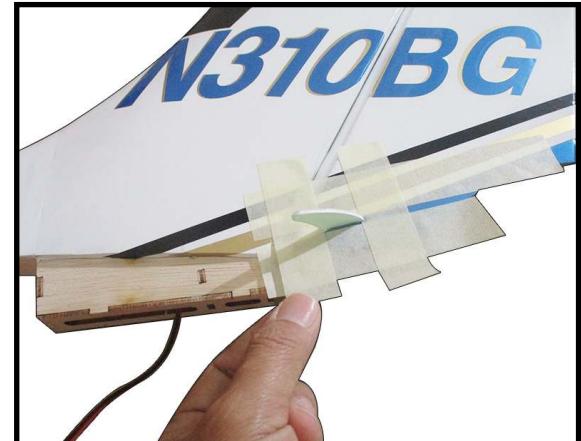
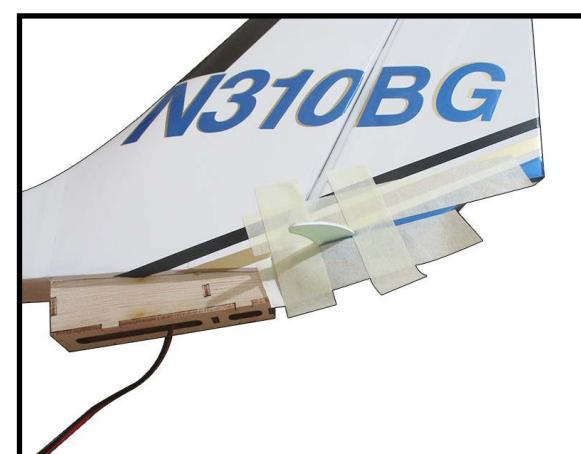
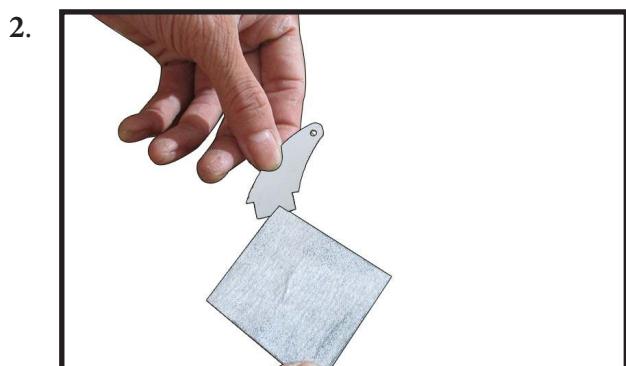
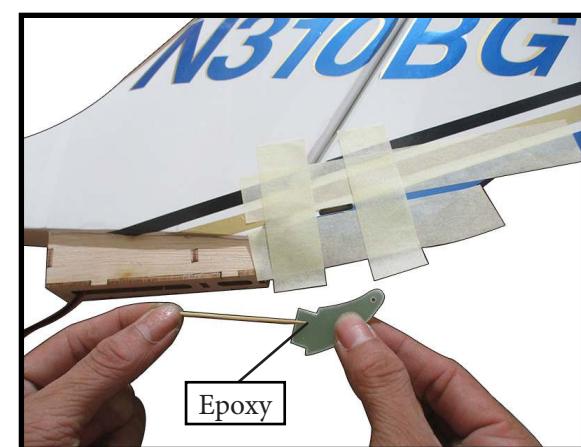


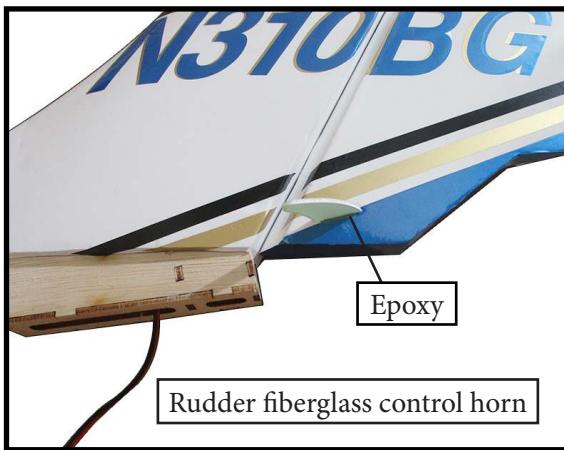
INSTALL RUDDER CONTROL HORN

Repeat steps to install the rudder control horn as same as steps done for elevator.



Fiberglass control horn



8. 

9. 

While holding the vertical stabilizer firmly in place, use a pen and draw a line on each side of the vertical stabilizer where it meets the top of the fuselage.

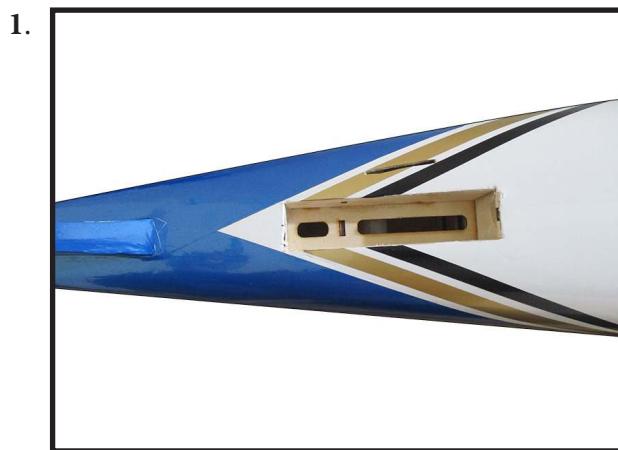
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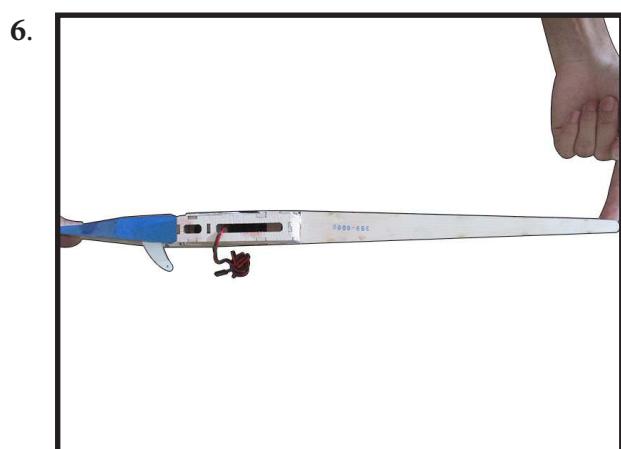
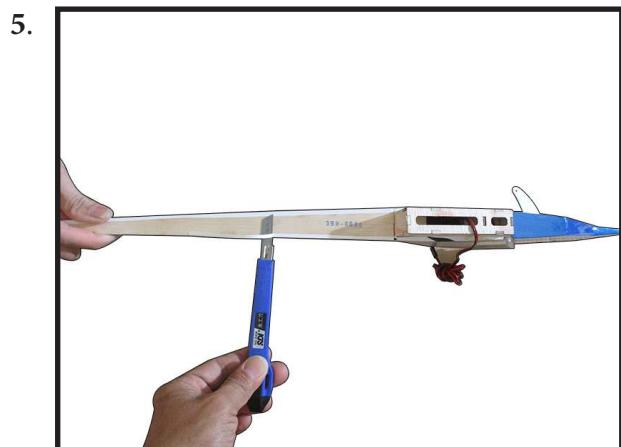
3. 

4. 

VERTICAL STABILIZER INSTALLATION

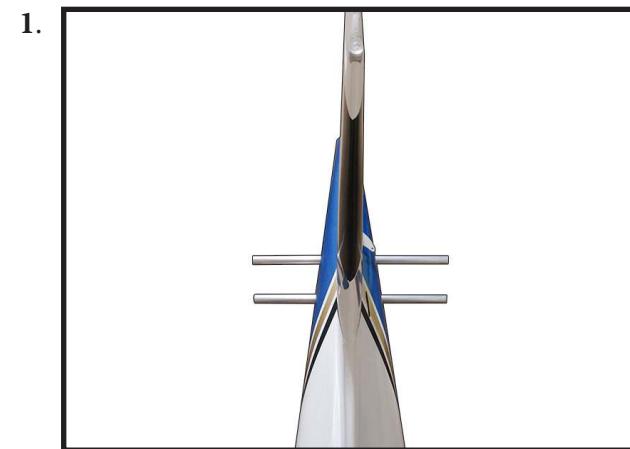
Slide the vertical stabilizer into the slot in the top of the fuselage. The rear edge of the stabilizer should be flush with the rear edge of the fuselage and the lower rudder hinge should engage the precut hinge slot in the lower fuselage. The bottom edge of the stabilizer should also be firmly pushed against the top of the horizontal stabilizer.





HORIZONTAL TAIL INSTALLATION

Please study images below.

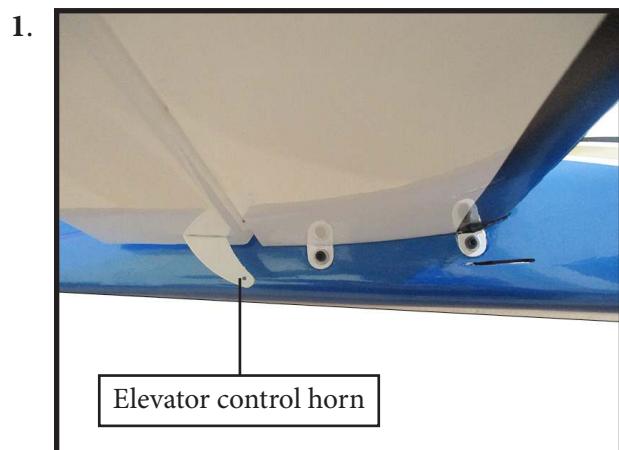
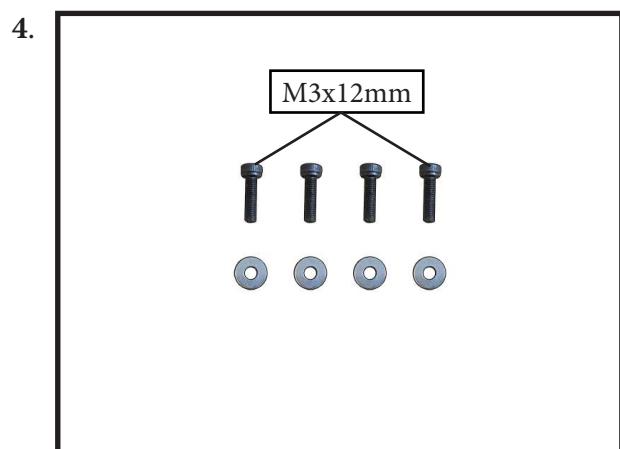




ELEVATOR PUSHROD HORN INSTALLATION

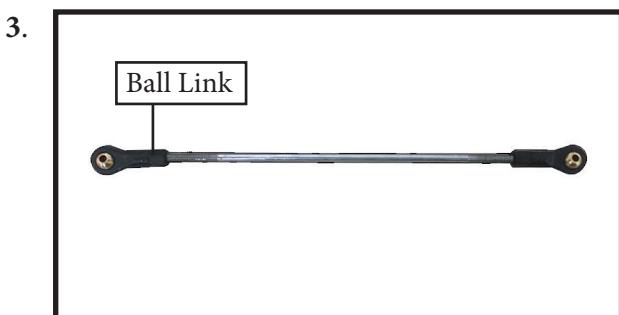
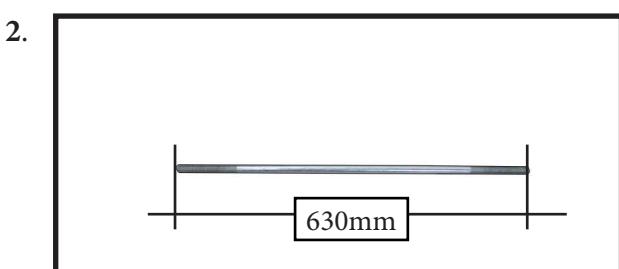
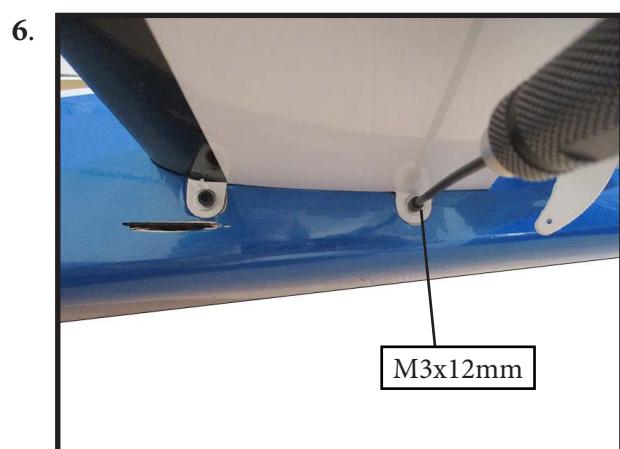
Install the elevator control horn using the same method as with the aileron control horns.

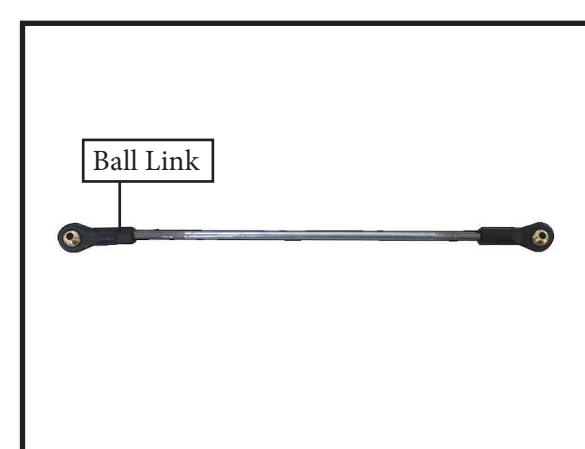
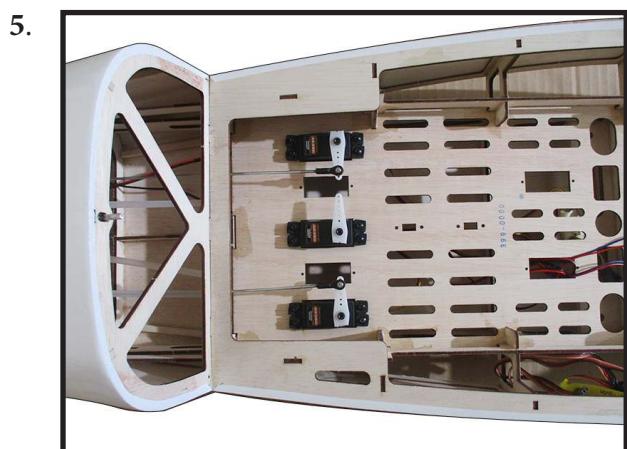
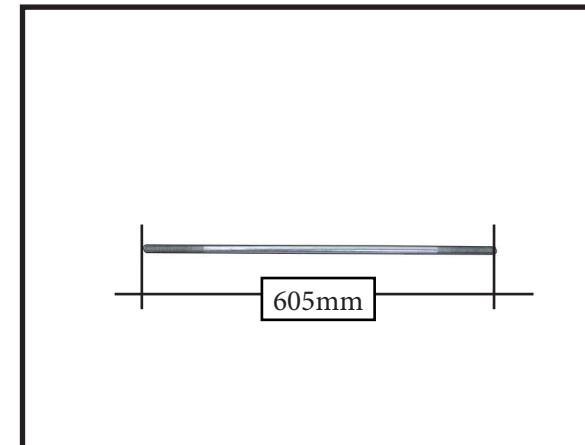
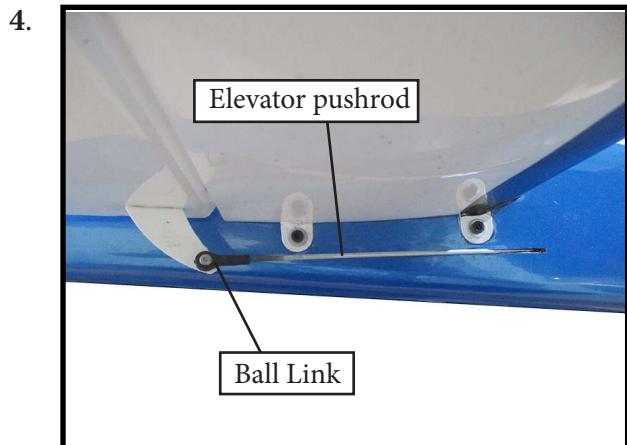
Position the elevator control horns on both side of the elevator.



Thread one clevis and M2 lock nut on to each elevator control rod. Thread the horns on until they are flush with the ends of the control rods.

Assemble the elevator and rudder pushrods as shown in images below.





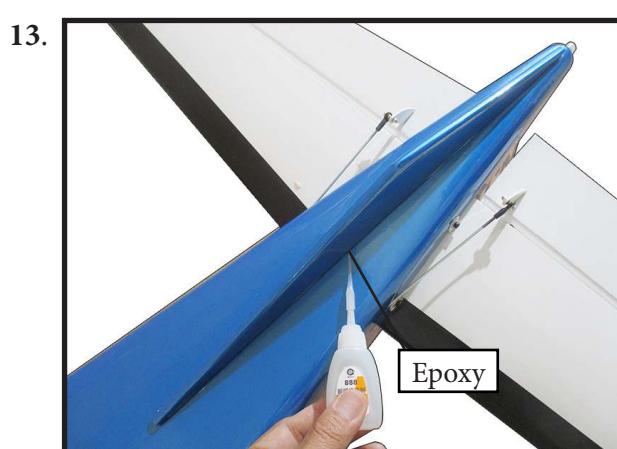
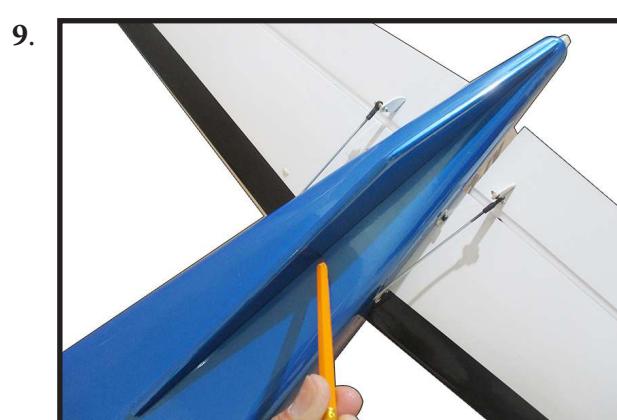
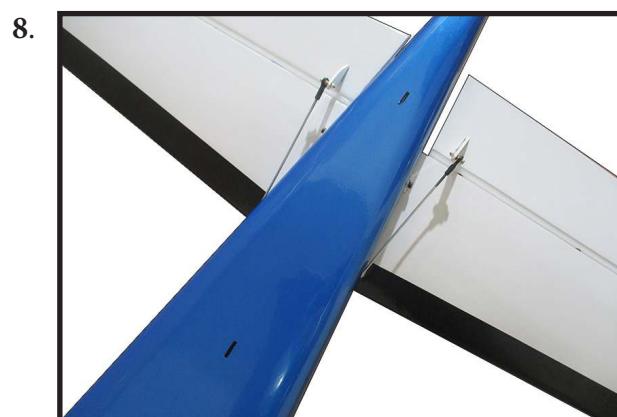
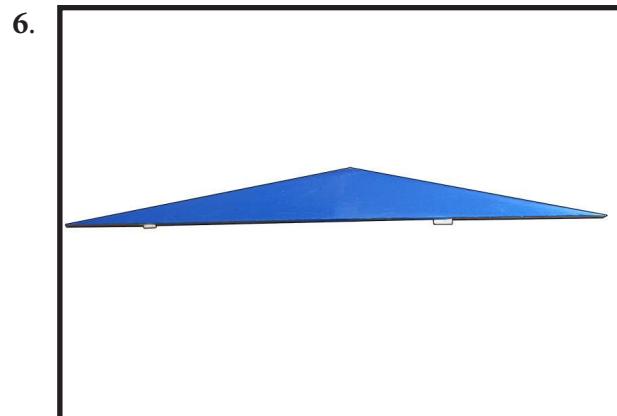
RUDDER PUSHROD INSTALLATION

Locate items necessary to install rudder pushrod.



Rudder pushrods assembly as pictures below.

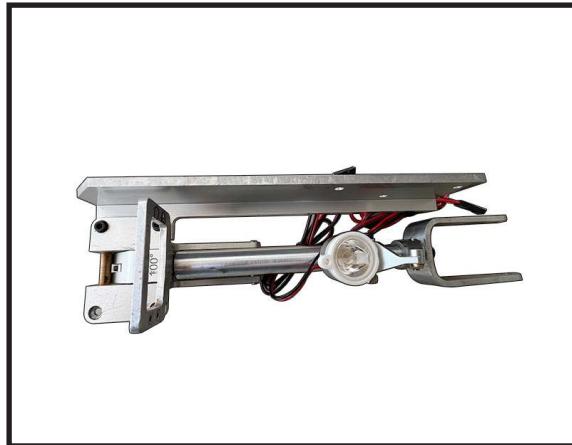
Insert wood piece to the back fuselage as shown.



14.



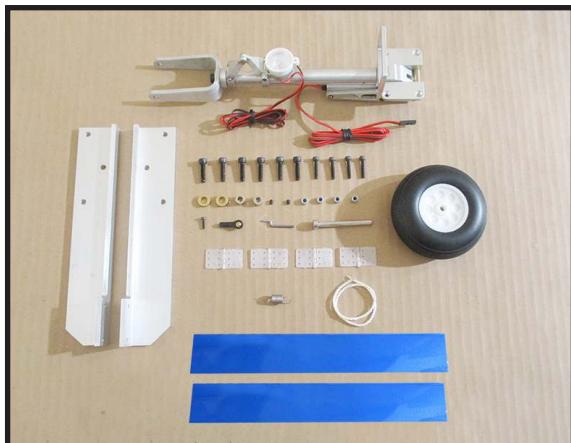
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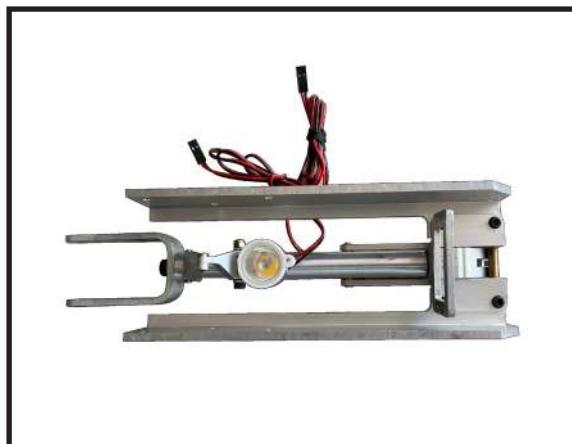
RETRACTABLE NOSE GEAR INSTALLATION

Locate the parts needed to attach the nose gear.

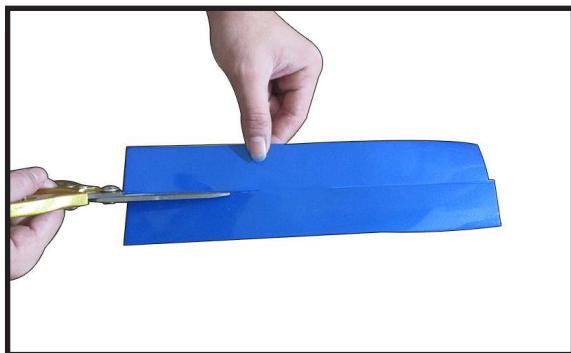
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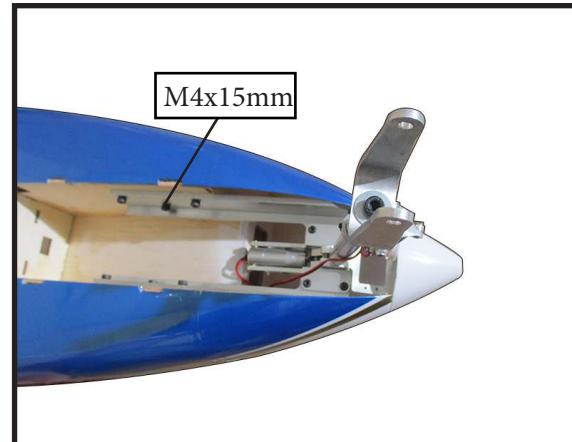
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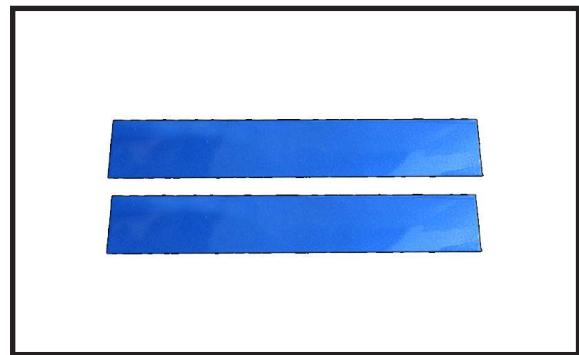
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5.

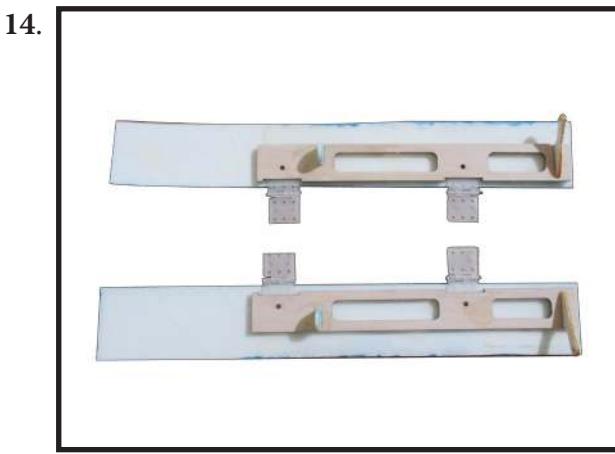
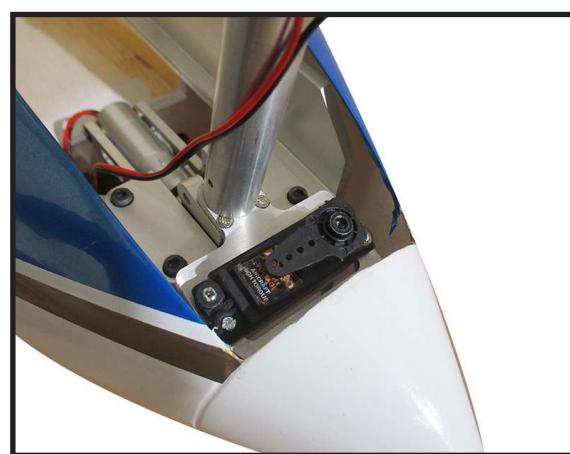
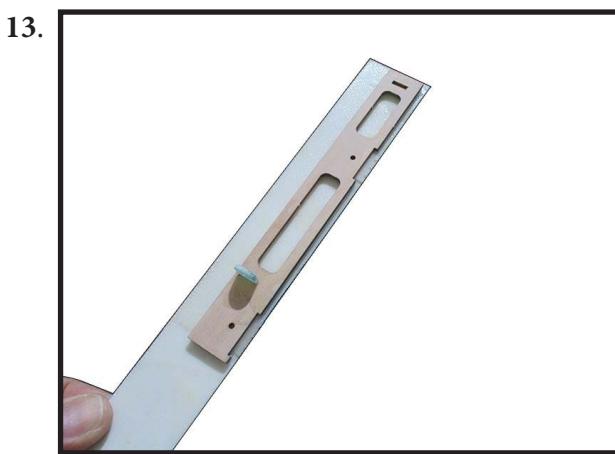
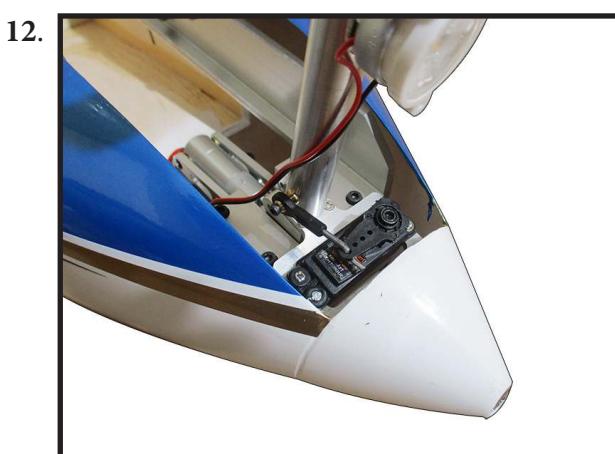
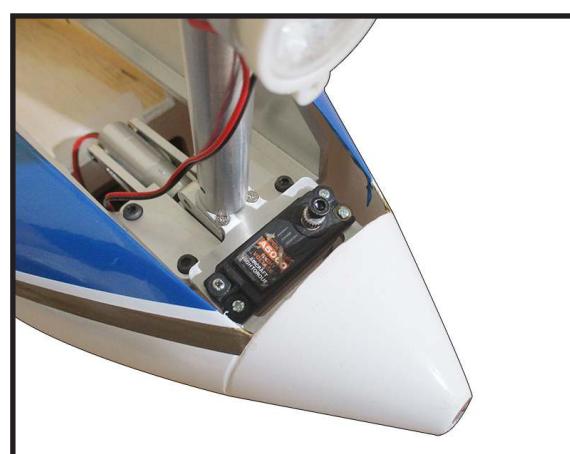
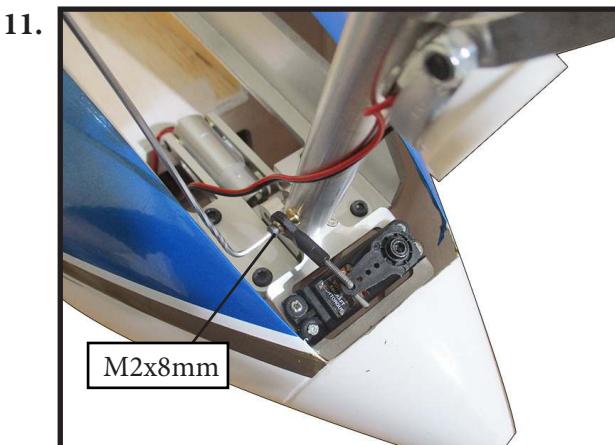


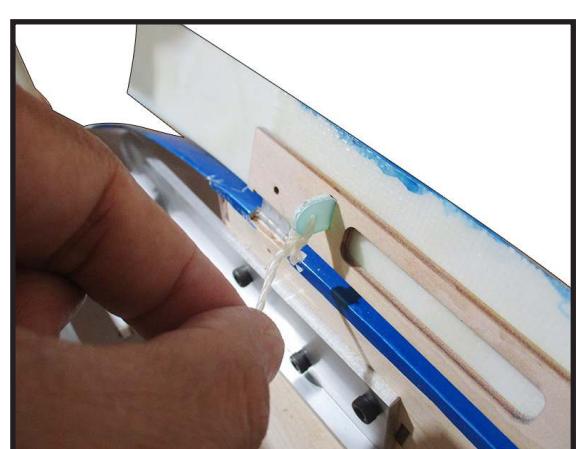
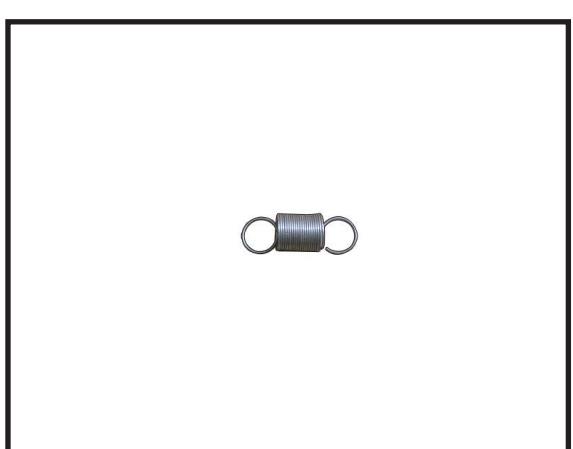
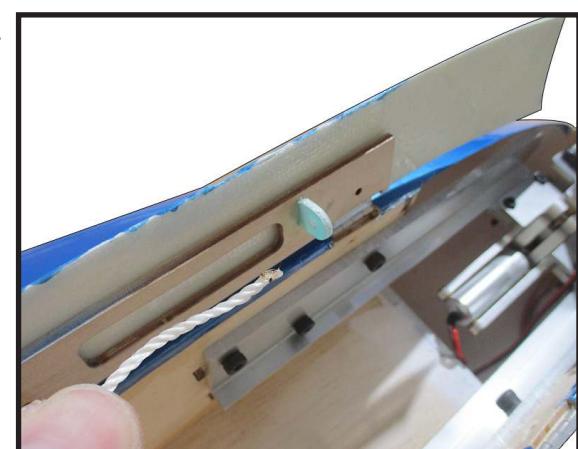
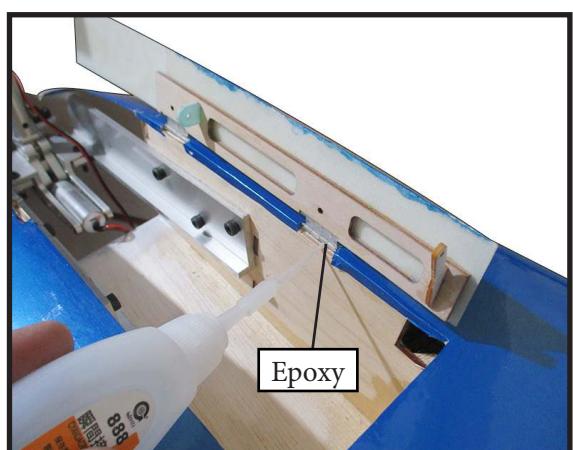
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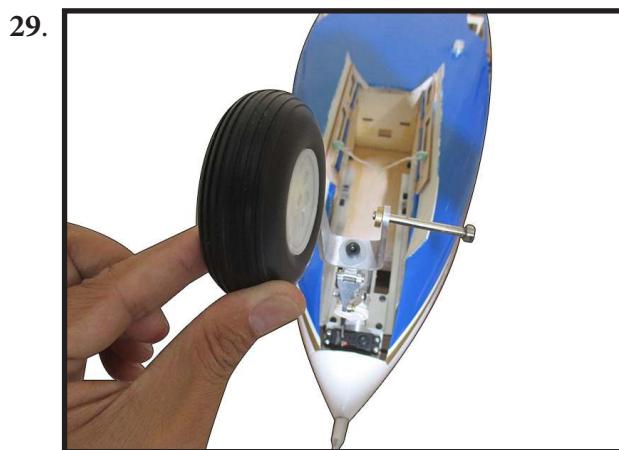
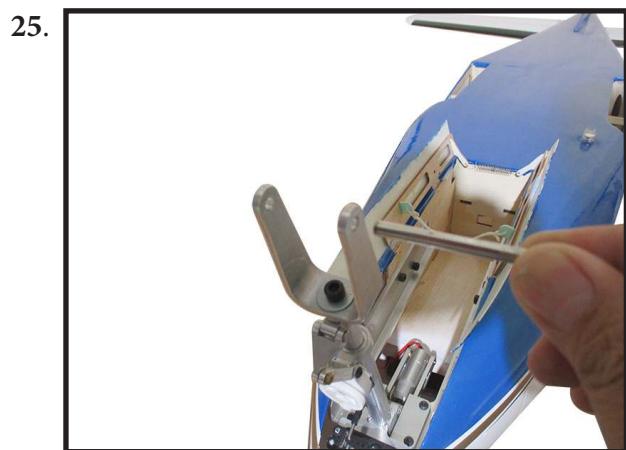
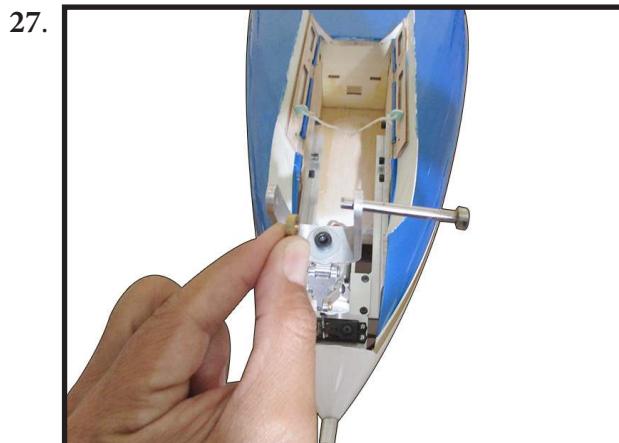
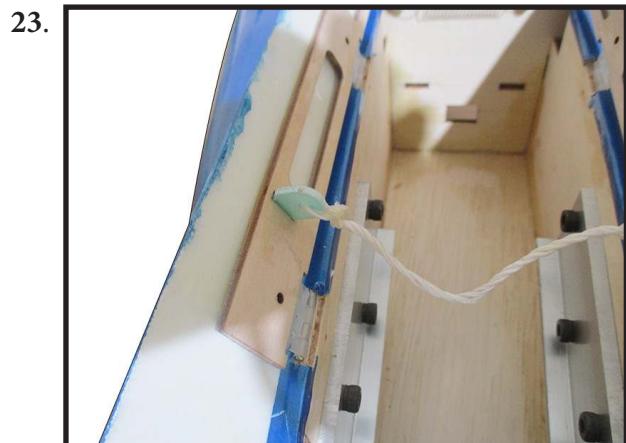


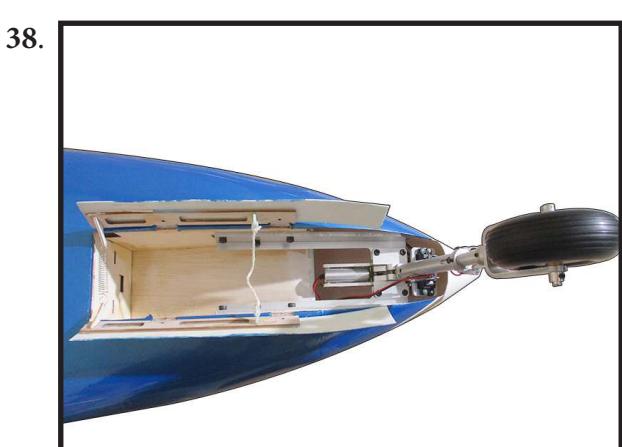
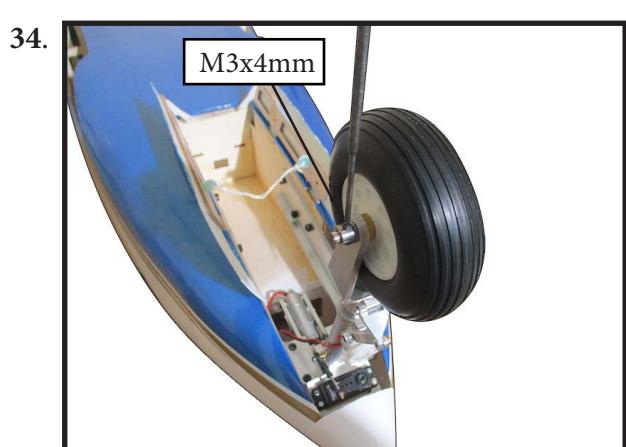
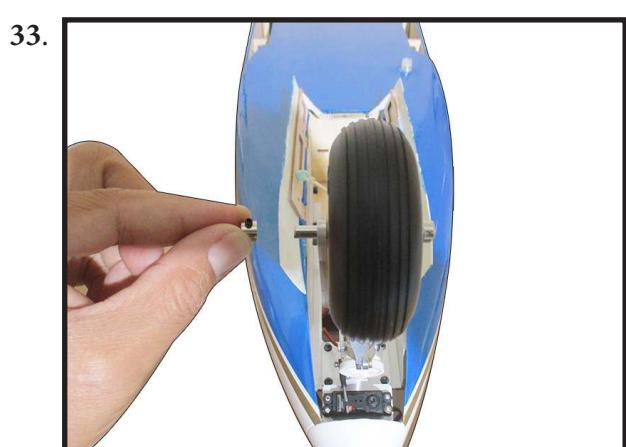
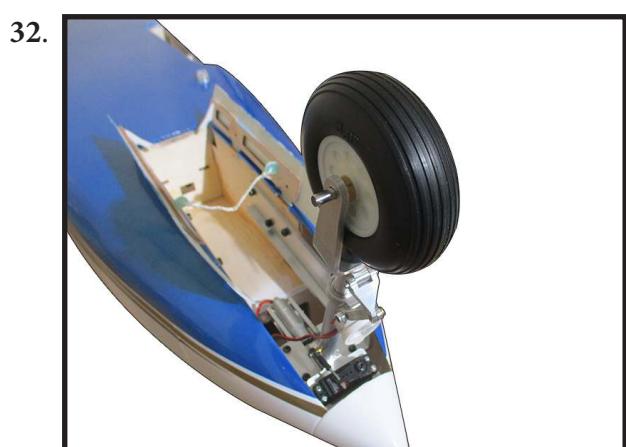
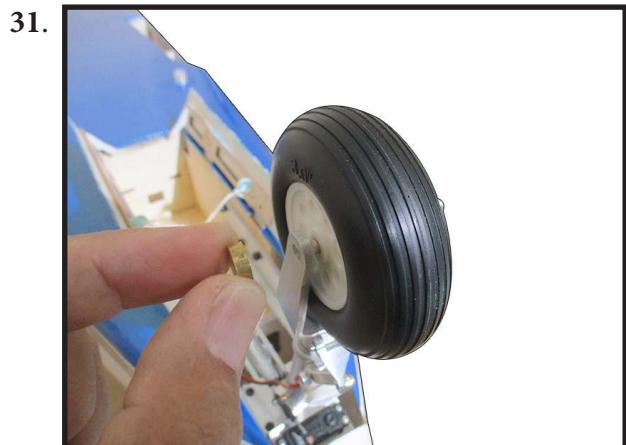
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39.



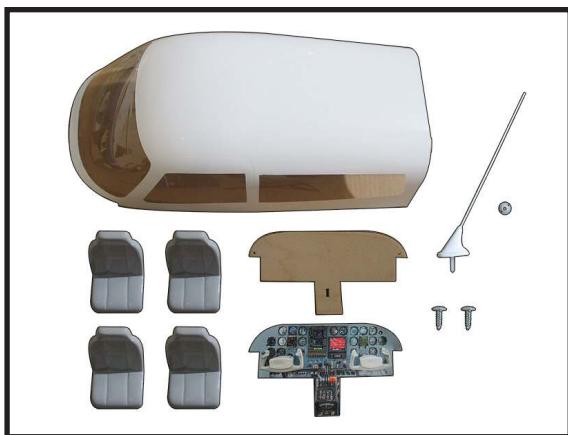
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INSTALLATION COCKPIT, PILOT AND CANOPY

Locate items necessary to install.

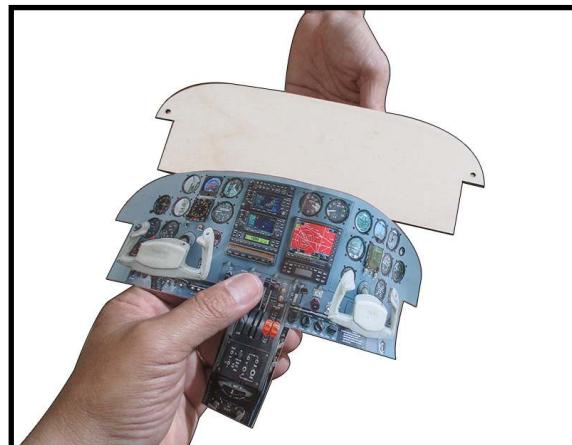
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2.



4.

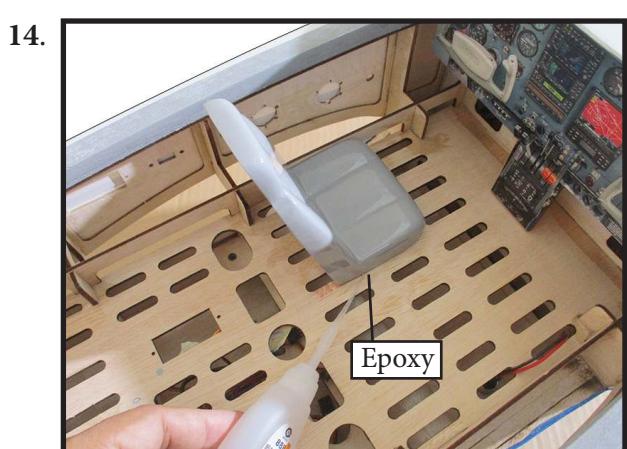
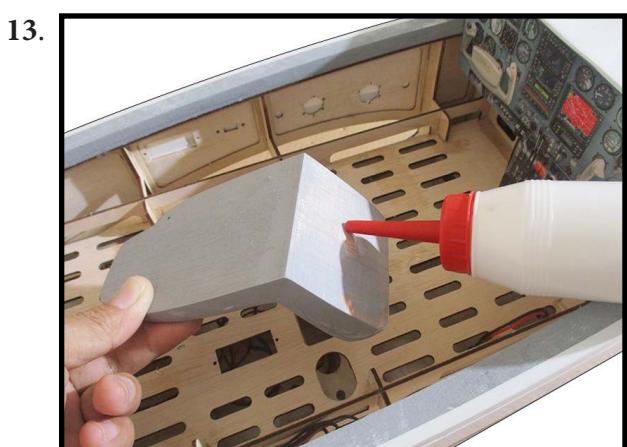
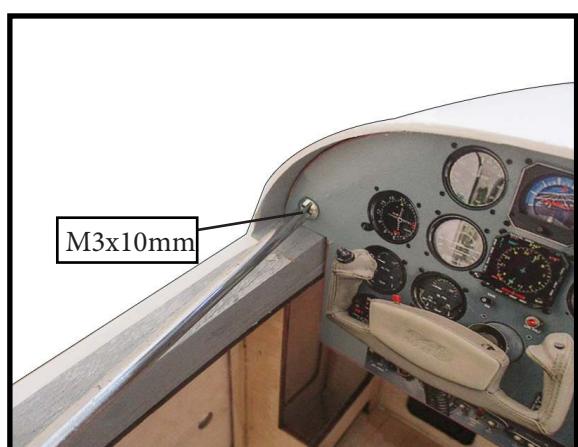
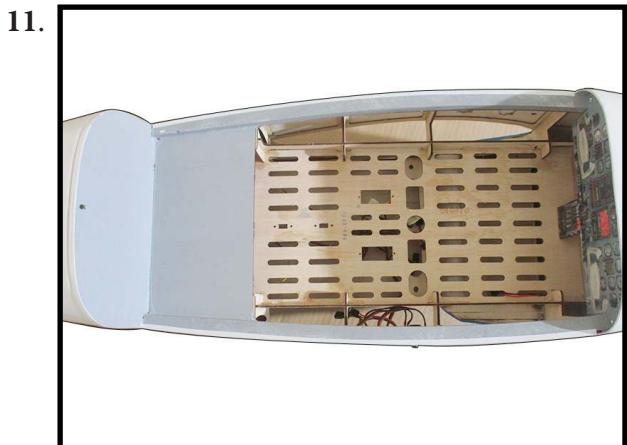
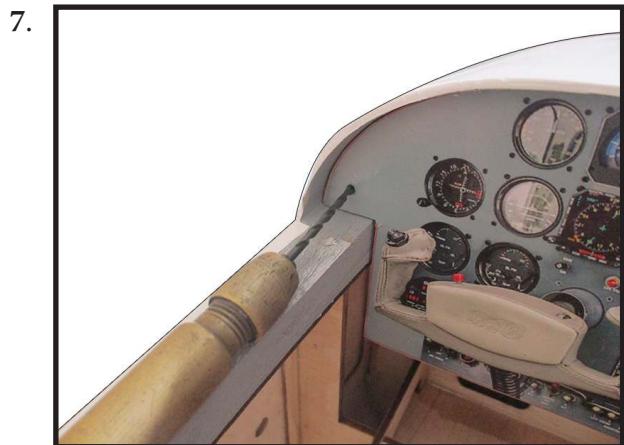


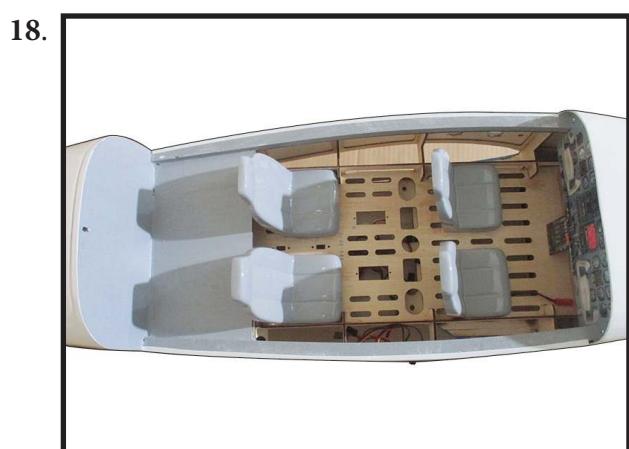
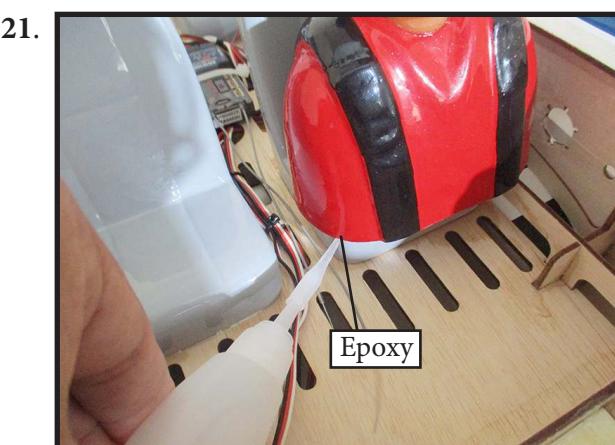
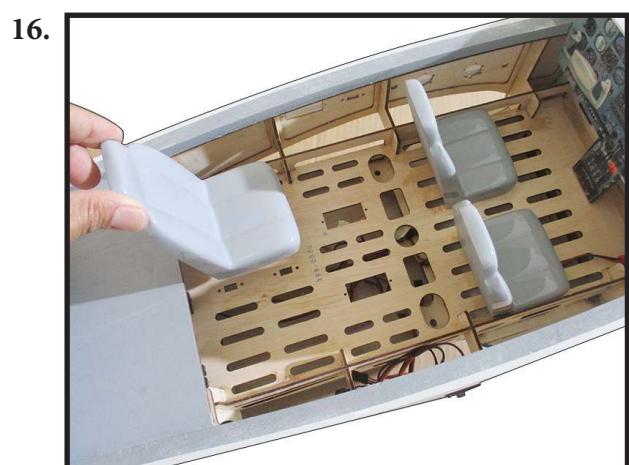
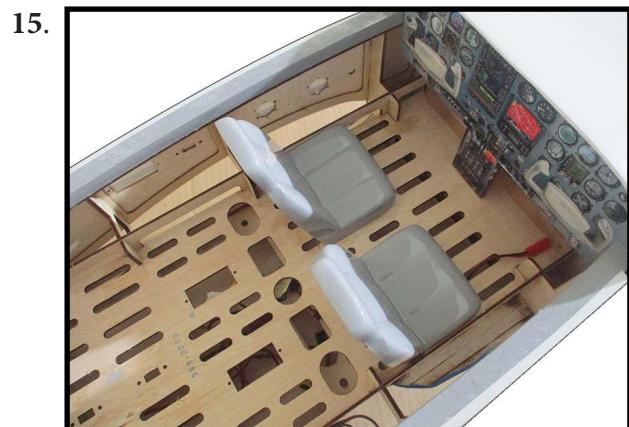
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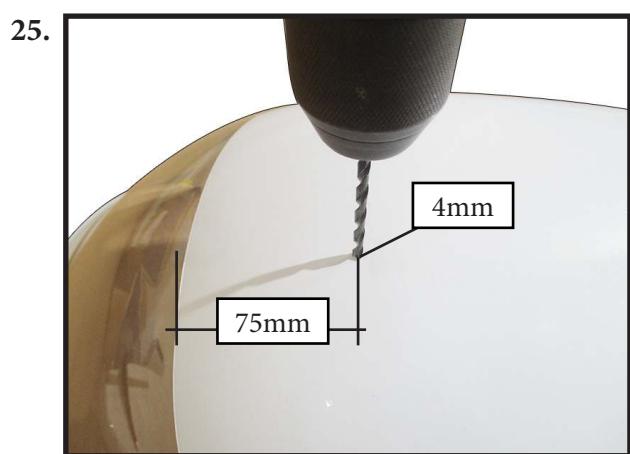
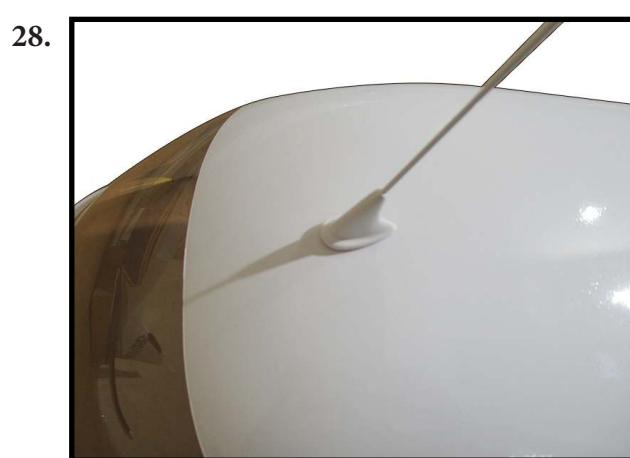
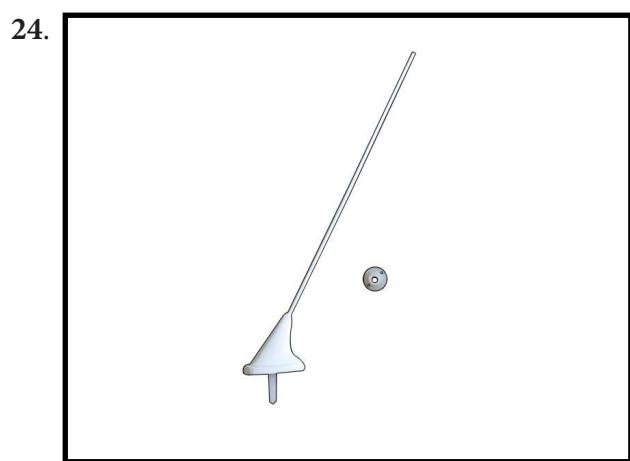
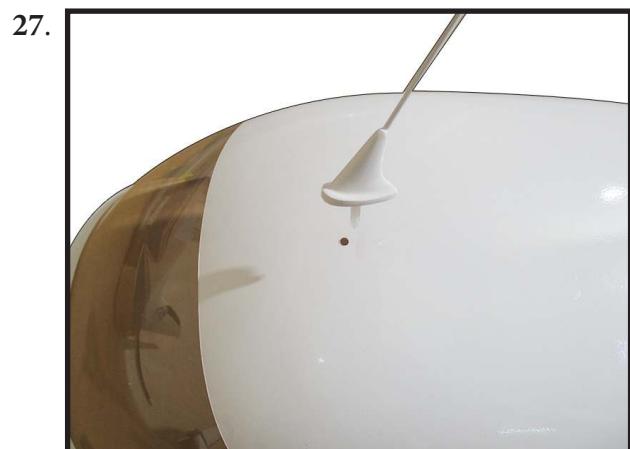


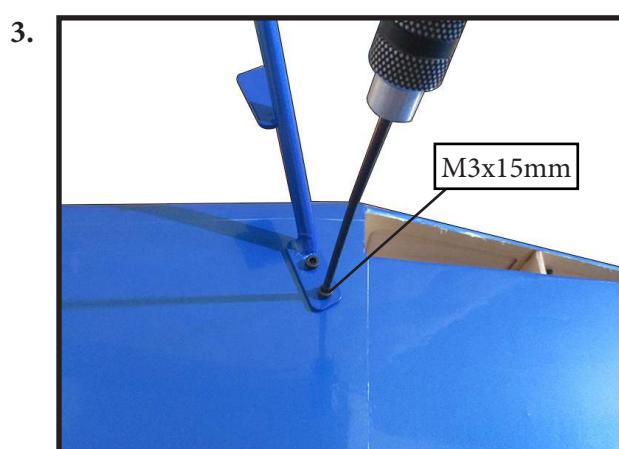
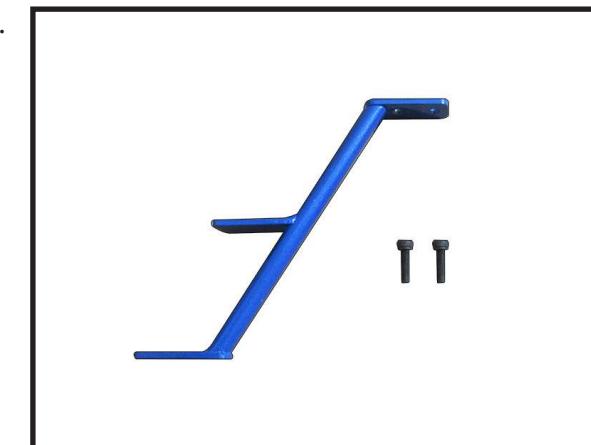
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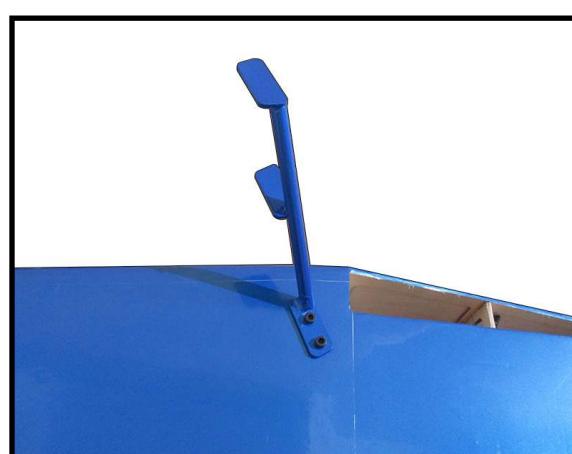






STAIR INSTALLATION

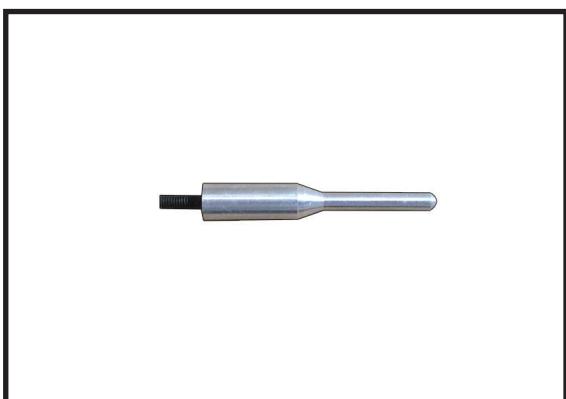
Please study images below.



THE PILOT TUBE

Please study images below.

1.



2.



3.



4.



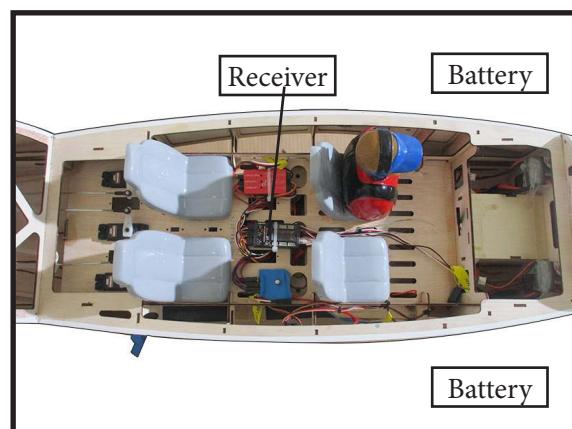
INSTALLING THE BATTERY-RECEIVER

Plug the servos leads and the switch lead into the receiver. Plug the battery pack lead into the switch also.

Wrap the receiver and battery pack in the protective foam rubber to protect them from vibration.

Route the antenna in the antenna tube inside the fuselage and secure it to the bottom of fuselage using a plastic tape.

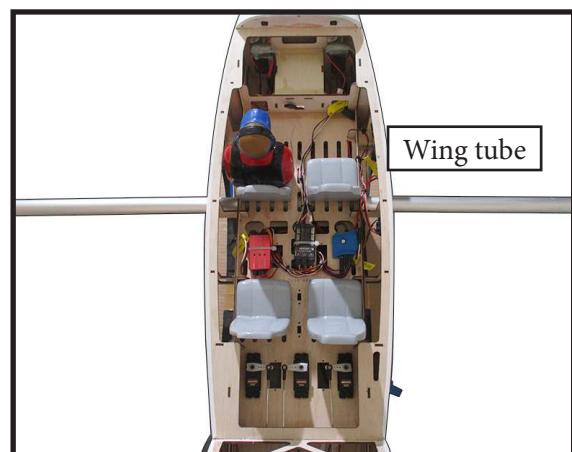
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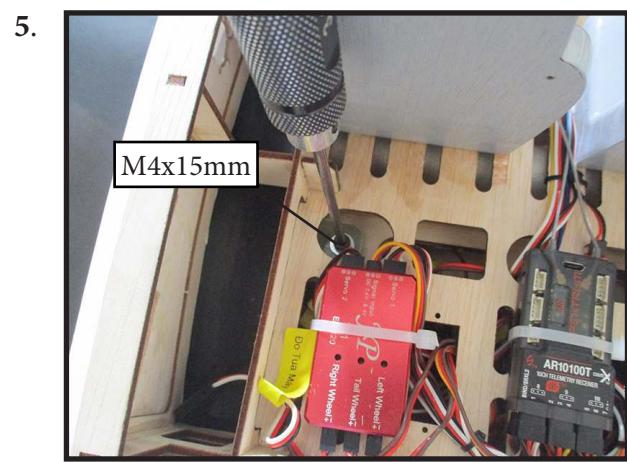
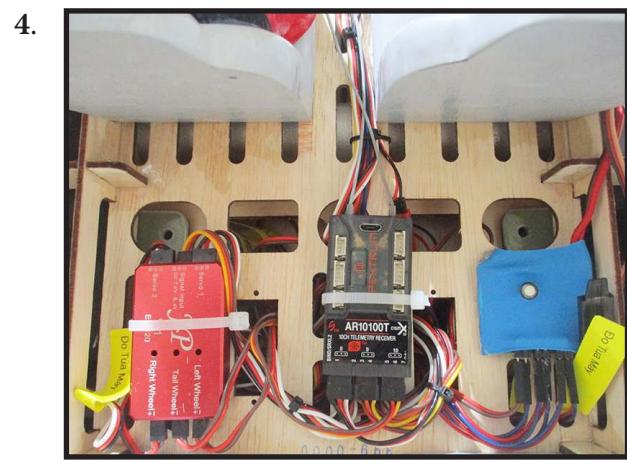
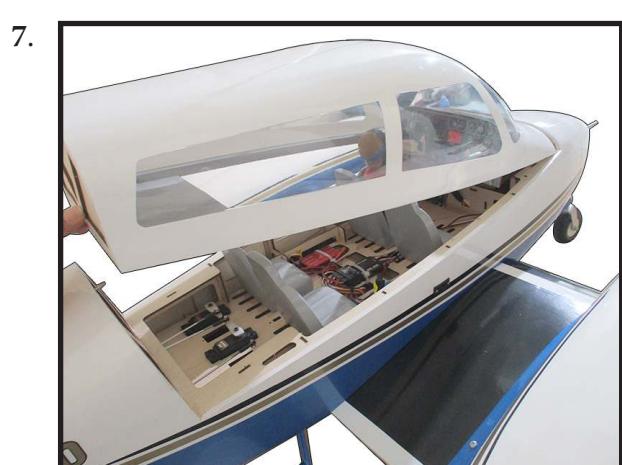
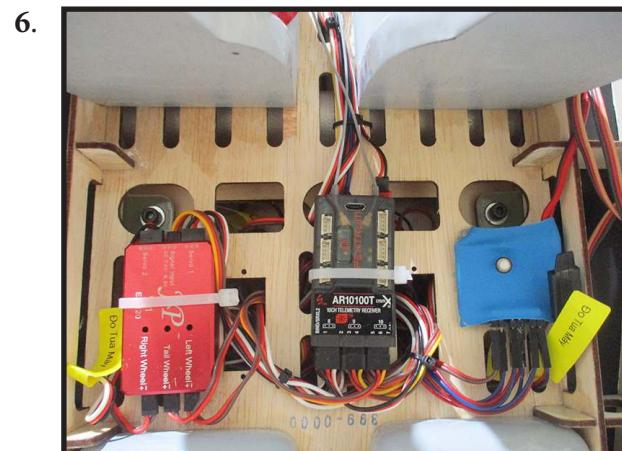
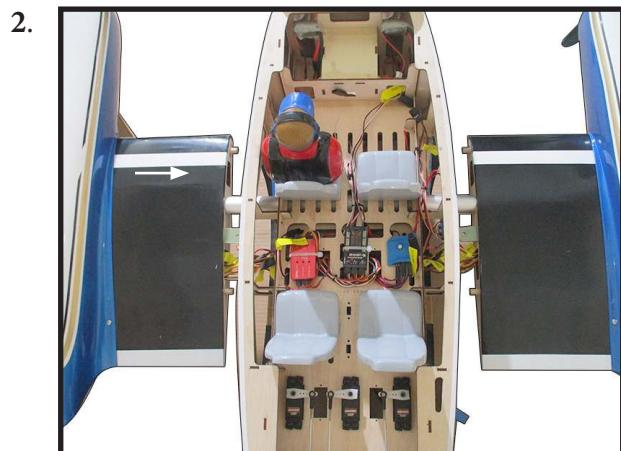


ATTACHMENT WING-FUSELAGE

Attach the aluminium tube into fuselage.

1.





APPLY THE DECALS

- 1) If all the decals are precut and ready to stick. Please be certain the model is clean and free from oily fingerprints and dust. Position decal on the model where desired, using the photos on the box and aid in their location.

2) If all the decals are not precut, please use scissors or a sharp hobby knife to cut the decals from the sheet. Please be certain the model is clean and free from oily fingerprints and dust. Position decal on the model where desired, using the photos on the box and aid in their location.

BALANCING

1) It is critical that your airplane be balanced correctly. Improper balance will cause your plane to lose control and crash. THE CENTER OF GRAVITY IS LOCATED **90MM** BACK FROM THE LEADING EDGE OF THE WING AT THE WING ROOT.

2) Mount the wing to the fuselage. Place a piece of masking tape on the top of each wing 90mm back from the leading edge at the wing root.

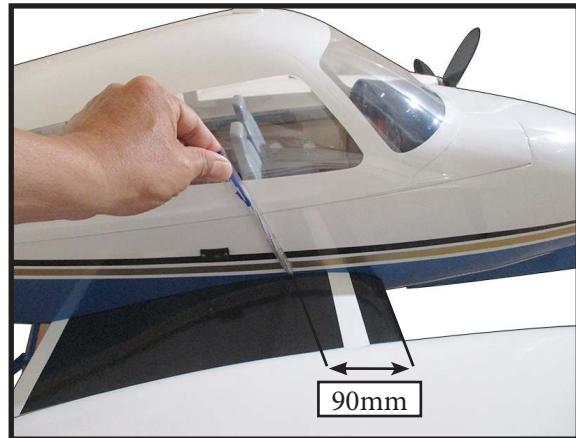
3) With the model inverted, place your fingers on the masking tape and carefully lift the plane. This is the point at which your model should balance for your first flights. Later, you may wish to experiment by shifting the balance up to 10mm forward or back to change the flying characteristics. Moving the balance forward may improve the smoothness and arrow-like tracking, but it may then require more speed for take off and make it more difficult to slow down for landing. Moving the balance aft makes the model more agile with a lighter and snappier "feel". In any case, please start at the location we recommend.

*If possible, first attempt to balance the model by changing the position of the receiver battery and receiver. If you are unable to obtain good balance by doing so, then it will be necessary to add weight to the nose or tail to achieve the proper balance point.

With the wing attached to the fuselage, all parts of the model installed (ready to fly), and empty fuel tanks, hold the model at the marked balance point with the stabilizer level.

Lift the model. If the tail drops when you lift, the model is "tail heavy" and you must add weight* to the nose. If the nose drops, it is "nose heavy" and you must add weight* to the tail to balance.

1.



CONTROL THROWS

Ailerons:

High Rate :
Up : 25 mm
Down : 25 mm
Low Rate :
Up : 20 mm
Down : 20 mm

Rudder:

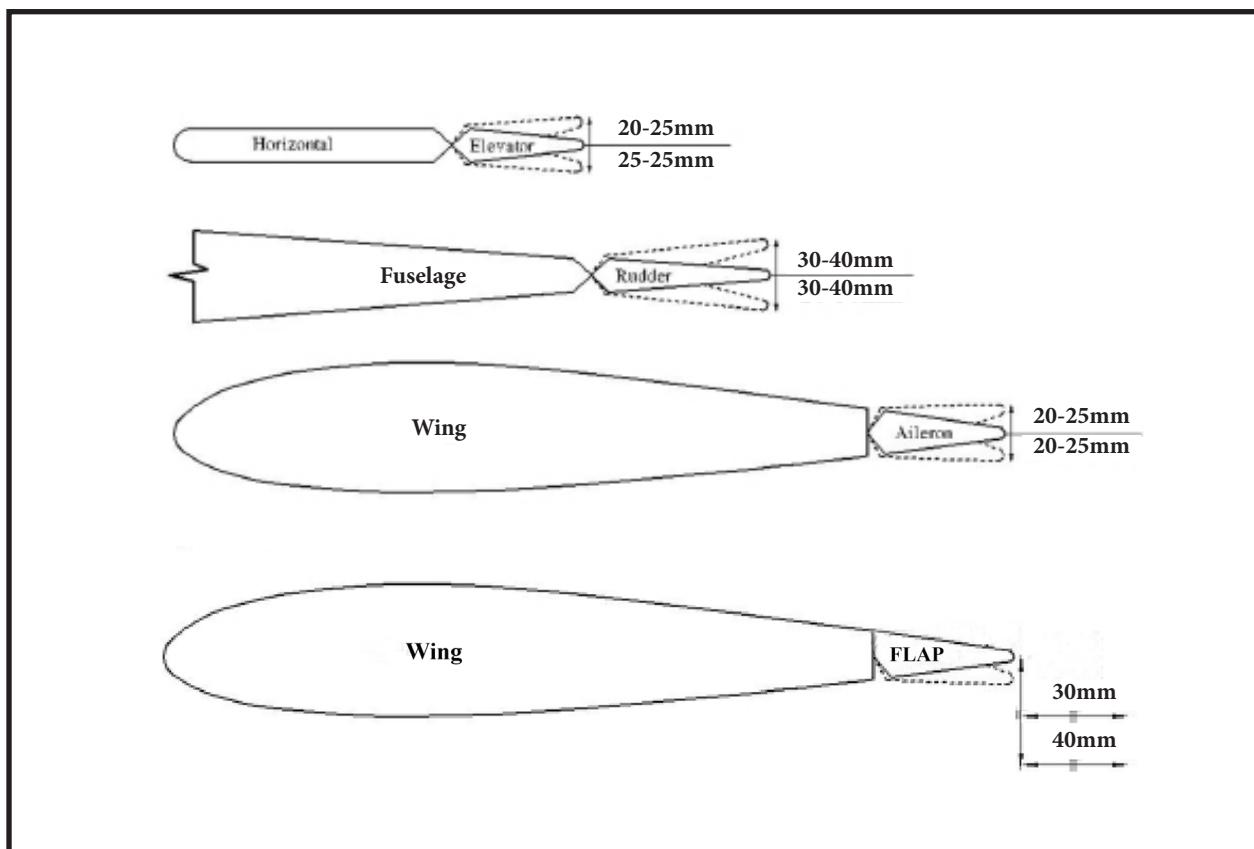
High Rate :
Right : 40 mm
Left : 40 mm
Low Rate :
Right : 30 mm
Left : 30 mm

Elevator:

High Rate :
Up : 25 mm
Down : 25 mm
Low Rate :
Up : 20 mm
Down : 20 mm

Flap:

Mid : 30mm
Full : 40 mm



FLIGHT PREPARATION

Check the operation and direction of the elevator, rudder, ailerons and throttle.

- A) Plug in your radio system per the manufacturer's instructions and turn everything on.
- B) Check the elevator first. Pull back on the elevator stick. The elevator halves should move up. If it they do not, flip the servo reversing switch on your transmitter to change the direction.
- C) Check the rudder. Looking from behind the airplane, move the rudder stick to the right. The rudder should move to the right. If it does not, flip the servo reversing switch on your transmitter to change the direction.
- D) Check the throttle. Moving the throttle stick forward should open the carburetor barrel. If it does not, flip the servo reversing switch on your transmitter to change the direction.
- E) From behind the airplane, look at the aileron on the right wing half. Move the aileron stick to the right. The right aileron should move up and the other aileron should move down. If it does not, flip the servo reversing switch on your transmitter to change the direction.

PREFLIGHT CHECK

- 1) Completely charge your transmitter and receiver batteries before your first day of flying.
- 2) Check every bolt and every glue joint in the **1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81"** to ensure that everything is tight and well bonded.
- 3) Double check the balance of the airplane. Do this with the fuel tank empty.
- 4) Check the control surfaces. All should move in the correct direction and not bind in any way.
- 5) If your radio transmitter is equipped with dual rate switches double check that they are on the low rate setting for your first few flights.
- 6) Check to ensure the control surfaces are moving the proper amount for both low and high rate settings.
- 7) Check the receiver antenna. It should be fully extended and not coiled up inside the fuselage.
- 8) Properly balance the propeller. An out of balance propeller will cause excessive vibration which could lead to engine and/or airframe failure.

*We wish you many safe and enjoyable flights
with your 1/5 Giant Scale Cessna 310 Twin Engine 15cc ARF 81".*

*If you have any queries, or are interested in our products,
please feel free to contact us*

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Hoc Mon District - Ho Chi Minh City - Viet Nam.

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Facebook : www.facebook.com/SeaGullModels.