NIEUPORT 28 REPLICA

Code : SEA 303

ASSEMBLY MANUAL

"Graphics and specifications may change without notice".



Specifications:

Wingspan---------- 68.0 in (172.7 cm).
Wing area---------- 1155.7 sq.ins (74.6 sq.dm).
Weight---------- 12.8-13.2 lbs (5.8-6.0 kg).
Length---------- 55.0 in (139.8 cm).
Engine/Motor size----- 20-26cc gasoline.
Radio---------- 5 channels with 6 servos.

INTRODUCTION.

Thank you for choosing the **NIEUPORT 28 REPLICA** ARTF by **SG MODELS** . The **NIEUPORT 28 REPLICA** 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 **NIEUPORT 28 REPLICA** is simply a joy.

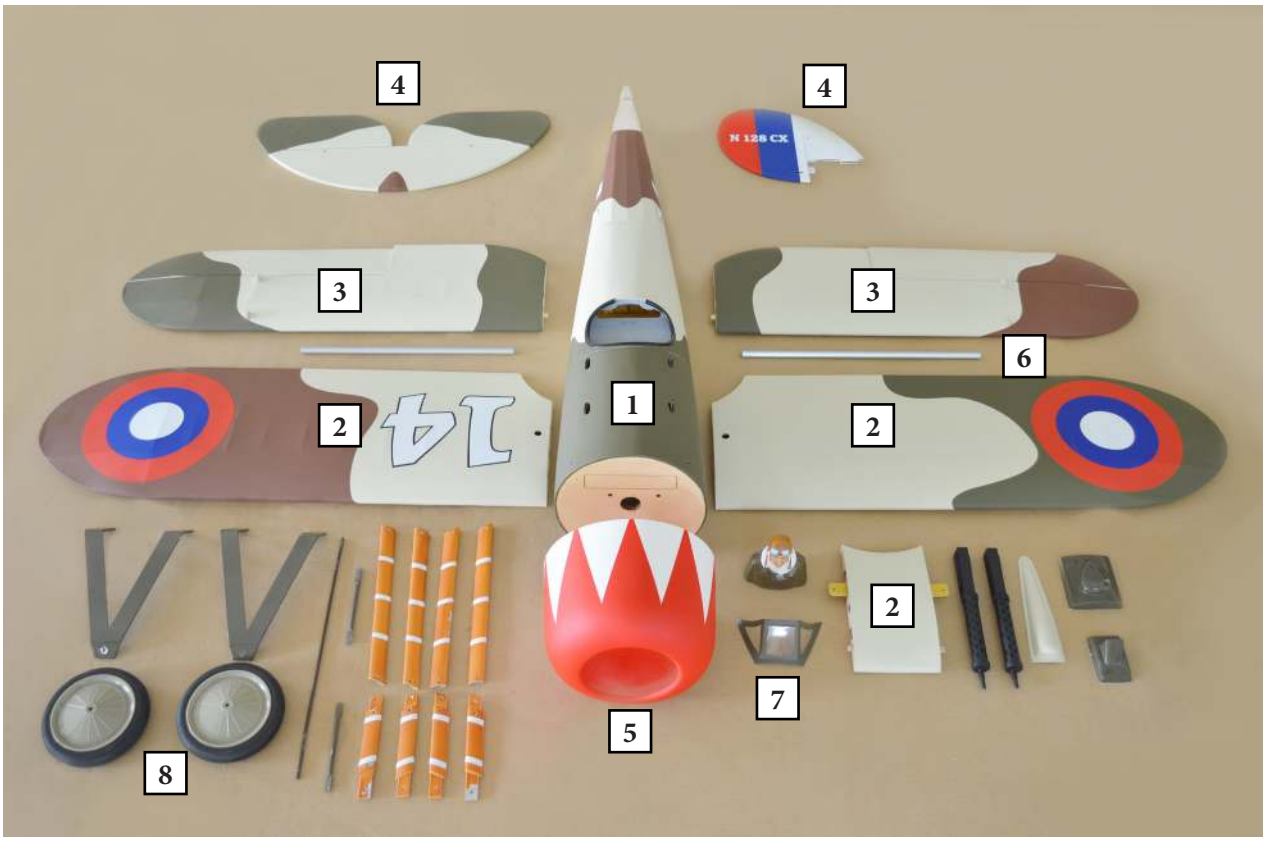
This instruction manual is designed to help you build a great flying aeroplane. Please read this manual throughly before starting assembly of your **NIEUPORT 28 REPLICA** Use the parts listing below to indentify all parts.

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.

SEA303 NIEUPORT 28 REPLICA

1. Fuselage
2. Upper wing set
3. Lower wing set
4. Tail set
5. Cowling
6. Aluminum wing tube
7. Windshield and pilot
8. Landing gear

ADDITIONAL ITEMS REQUIRED.

- ☐ 20-26cc gasoline engine.
- ☐ Computer radio 5 channel with 6 servos.
- ☐ Glow plug to suit engine.
- ☐ Propeller to suit engine.
- ☐ Protective foam rubber for radio system.

TOOLS & SUPPLIES NEEDED.

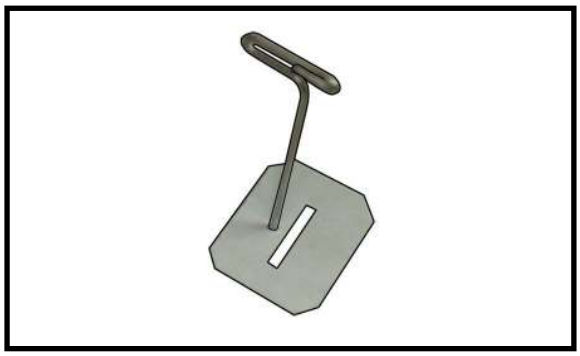
- ☐ Thin cyanoacrylate glue.
- ☐ Medium cyanoacrylate glue.
- ☐ 30 minute epoxy.
- ☐ 5 minute epoxy.
- ☐ Hand or electric drill.
- ☐ Assorted drill bits.
- ☐ Modelling knife.
- ☐ Straight edge ruler.
- ☐ 2mm ball driver.
- ☐ Phillips head screwdriver.
- ☐ 220 grit sandpaper.
- ☐ 90° square or builder's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

HINGING THE AILERON.

Note : *The control surfaces, including the ailerons, elevators, and rudder, are prehinged with hinges installed, but the hinges are not glued in place. It is imperative that you properly adhere the hinges in place per the steps that follow using a high-quality thin C/A glue.*

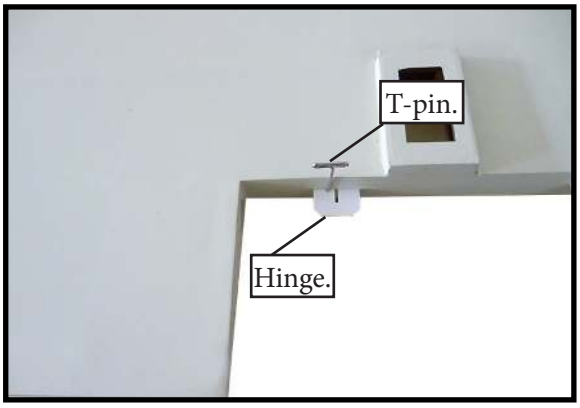
1) Carefully remove the aileron from one of the wing panels. Note the position of the hinges.

1.



2) Remove each hinge from the wing panel and aileron and place a T-pin in the center of each hinge. Slide each hinge into the wing panel until the T-pin is snug against the wing panel. This will help ensure an equal amount of hinge is on either side of the hinge line when the aileron is mounted to the aileron.

2.

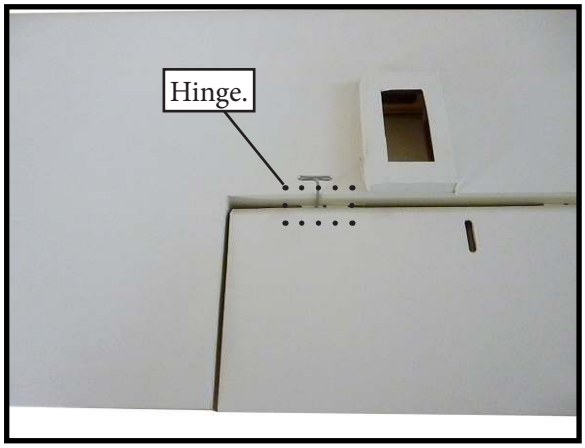


3) Slide the wing panel on the aileron until there is only a slight gap. The hinge is now centered on the wing panel and aileron. Remove the T-pins and snug the aileron against the wing panel. A gap of 1/64" or less should be maintained between the wing panel and aileron.

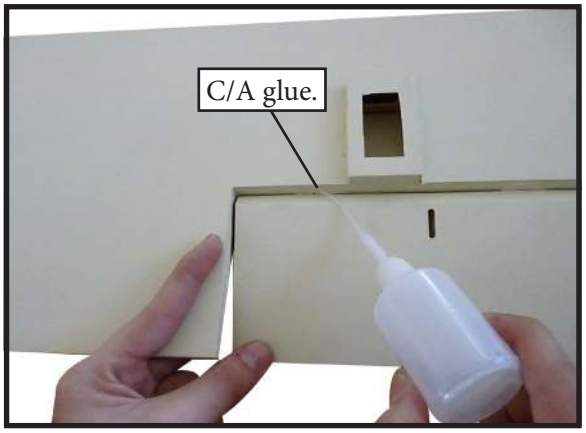
4) Deflect the aileron and completely saturate each hinge with thin C/A glue. The ailerons front surface should lightly contact the wing during this procedure. Ideally, when the hinges are glued in place, a 1/64" gap or less will be maintained throughout the lengh of the aileron to the wing panel hinge line.

NOTE : The hinge is constructed of a special material that allows the C/A to wick or penetrate and distribute throughout the hinge, securely bonding it to the wood structure of the wing panel and aileron.

3.



4.



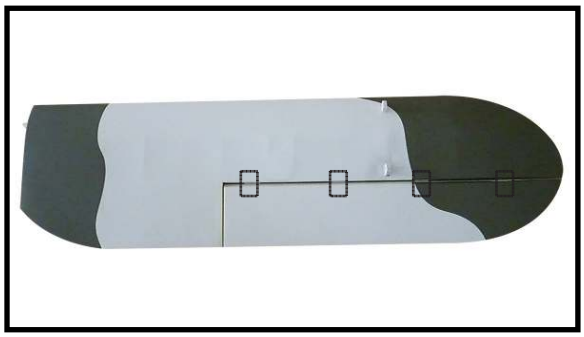
5) Turn the wing panel over and deflect the aileron in the opposite direction from the opposite side. Apply thin C/A glue to each hinge, making sure that the C/A penetrates into both the aileron and wing panel.

6) Using C/A remover/debonder and a paper towel, remove any excess C/A glue that may have accumulated on the wing or in the aileron hinge area.

7) Repeat this process with the other wing panel, securely hinging the aileron in place.

8) After both ailerons are securely hinged, firmly grasp the wing panel and aileron to make sure the hinges are securely glued and cannot be pulled out. Do this by carefully applying medium pressure, trying to separate the aileron from the wing panel. Use caution not to crush the wing structure.

5.



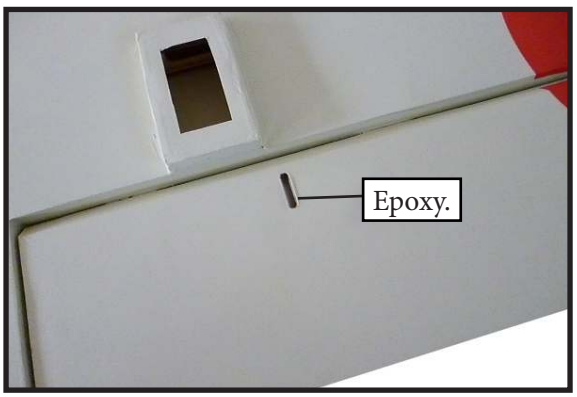
Note : Work the aileron up and down several times to "work in" the hinges and check for proper movement.

INSTALL THE AILERONS CONTROL HORN.

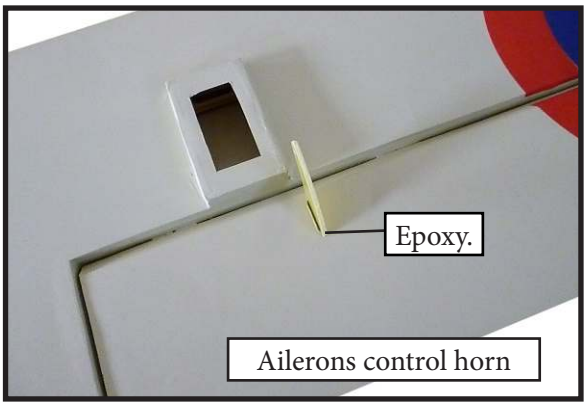
1.



2.

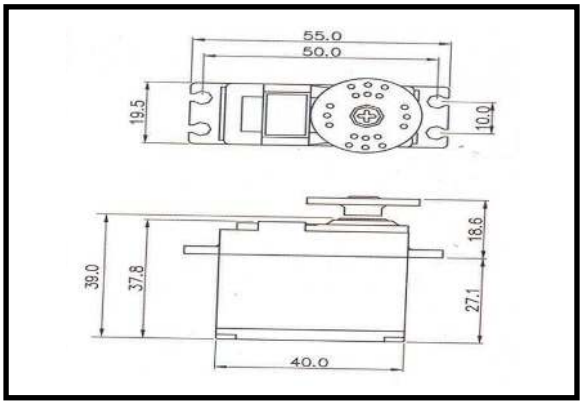


3.

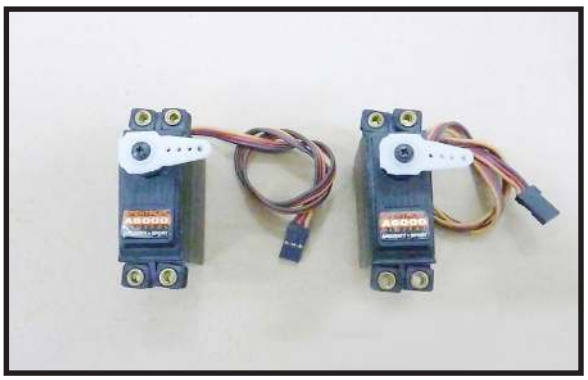


INSTALLING THE AILERON SERVOS.

1.



2.



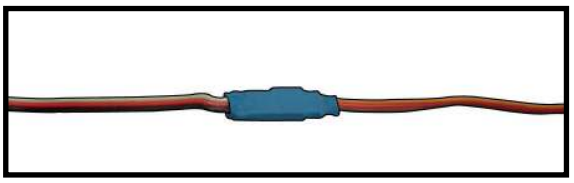
Mininum servo spec.
Torque : 80 oz-in (5.8 kg-cm) @ 4.8V;
100 oz-in (7.2 kg-cm) @ 6.0V

⚠ 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.

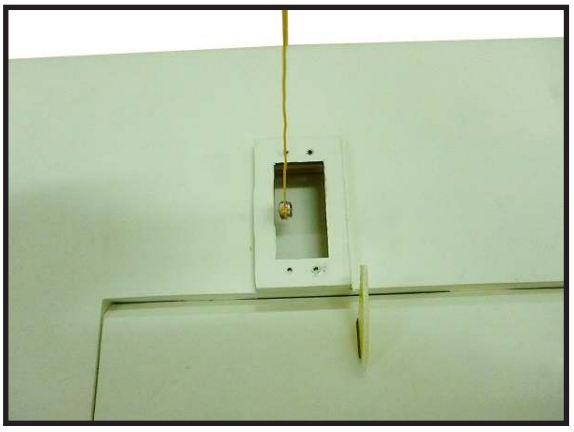
1) Using a small weight (Weighted fuel pick-up works well) and string, feed the string through the wing as indicated.

2) Use dental floss or heatshrunk tube to secure the connection so they cannot become unplugged.

3.

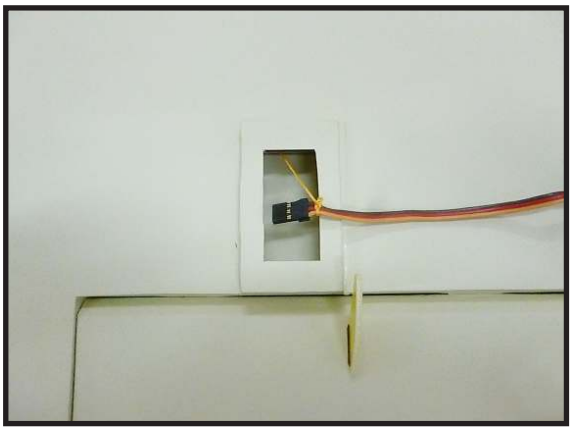


4.

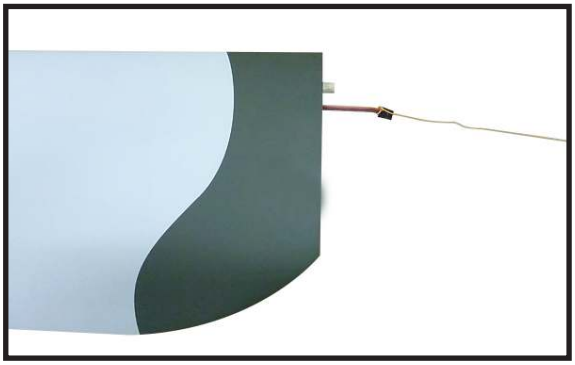


3) A string has been provided in the wing to pull the aileron lead through to the wing root. Remove the string from the wing at the servo location and use the tape to attach it to the servo extension lead. Pull the lead through the wing and remove the string.

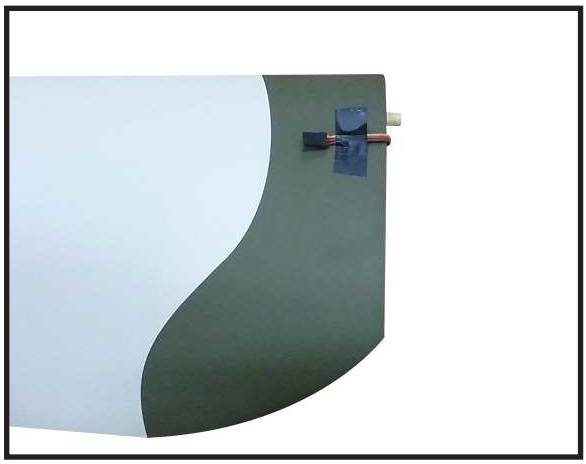
5.



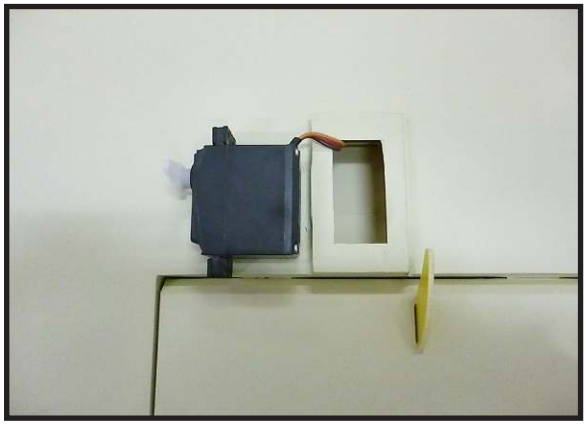
6.



7.



8.



9.



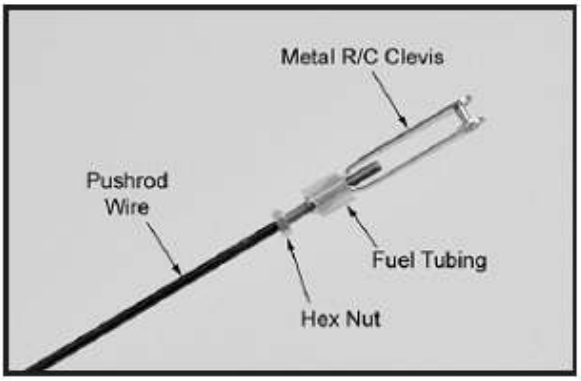
10.



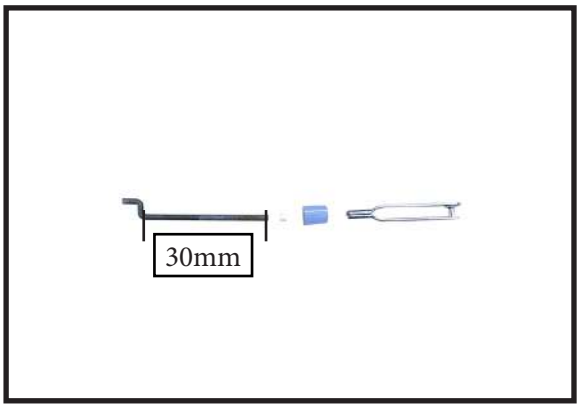
AILERON PUSHROD INSTALLATION.

Please see below pictures.

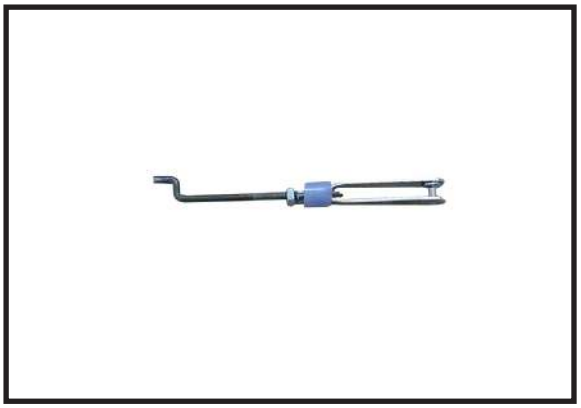
1.



2.



3.



4.



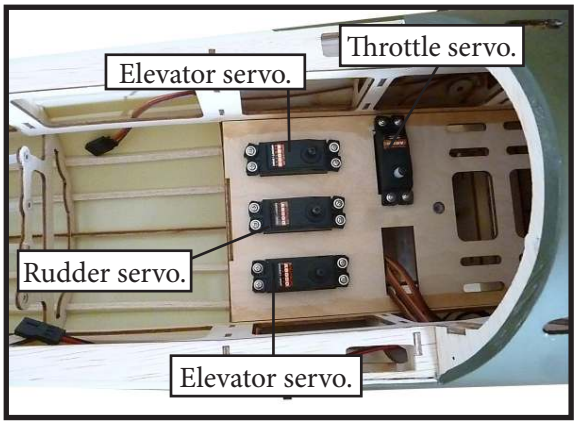
INSTALLING THE FUSELAGE SERVOS.

⚠ 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.

1) Install the rubber grommets and brass collets into all servos. Test fit the servos into the fuselage servo mounts.

2) Secure the servos with the screws provided with your radio system.

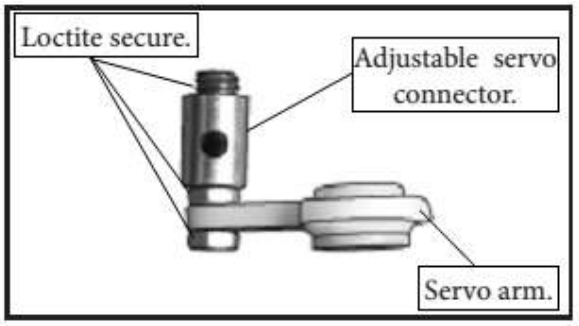
1.



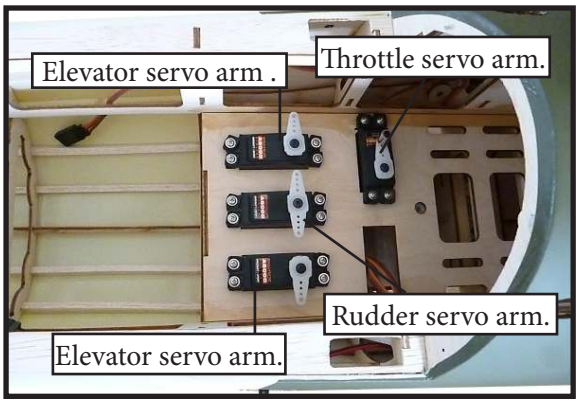
THROTTLE SERVO ARM INSTALLATION.

Install adjustable servo connector in the servo arm as same as picture below:

1.



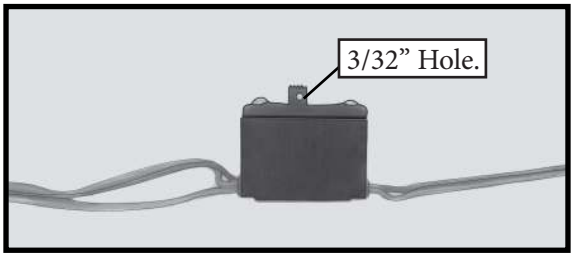
2.



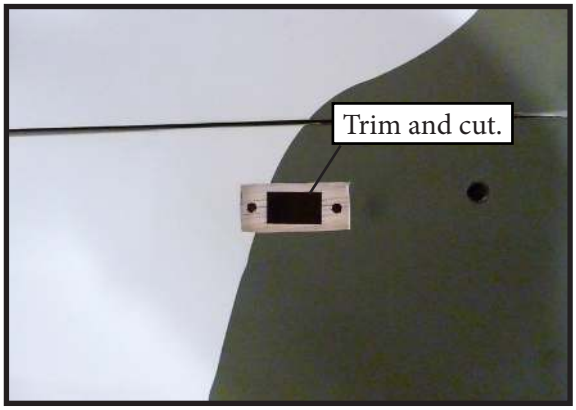
INSTALLING THE RECEIVER SWITCH.

Install the switch into the precut hole in the side, in the fuselage.

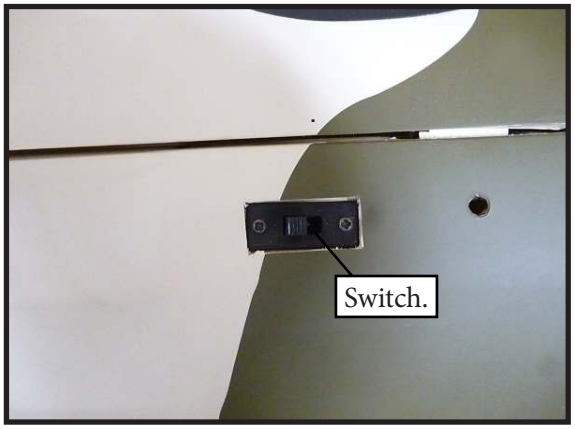
1.



2.

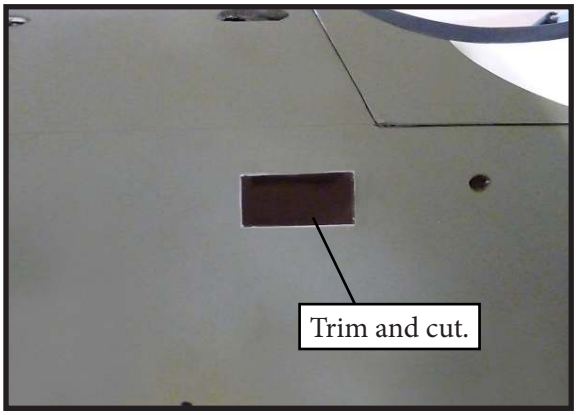


3.

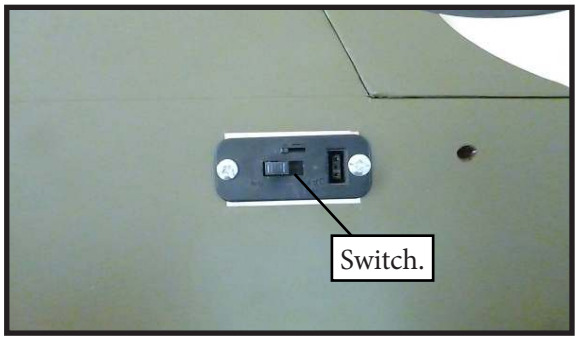


INSTALLING THE ENGINE SWITCH.

1.



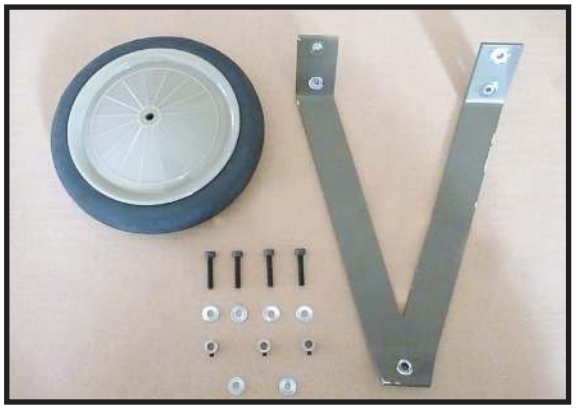
2.



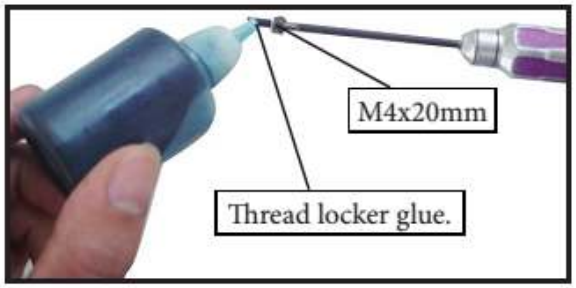
INSTALLING THE MAIN LANDING GEAR TO FUSELAGE.

Please see these below pictures.

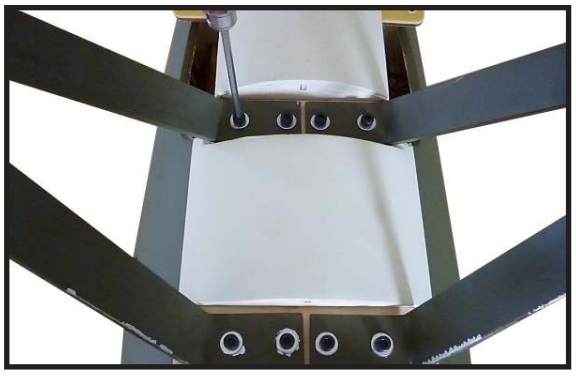
1.



2.



3.



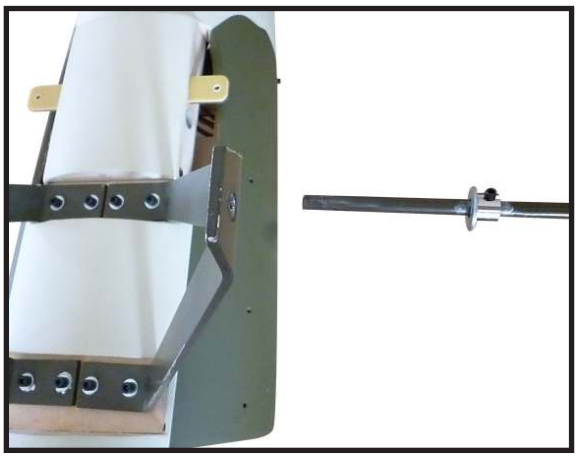
4.



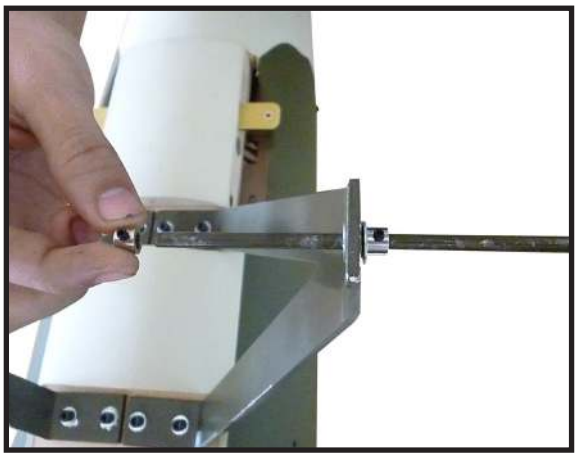
5.



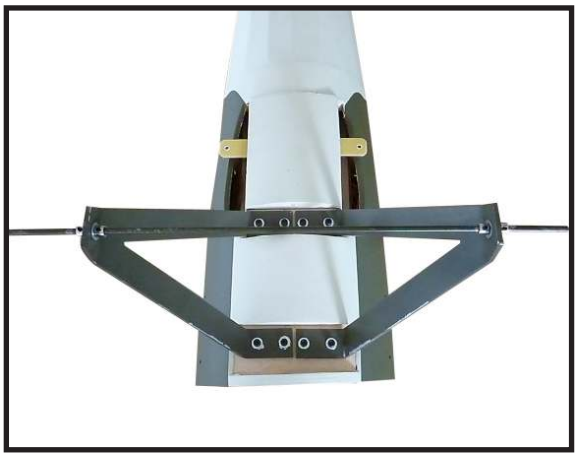
6.



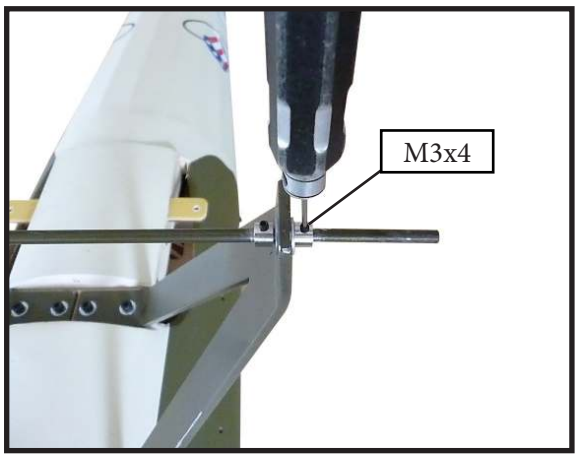
7.



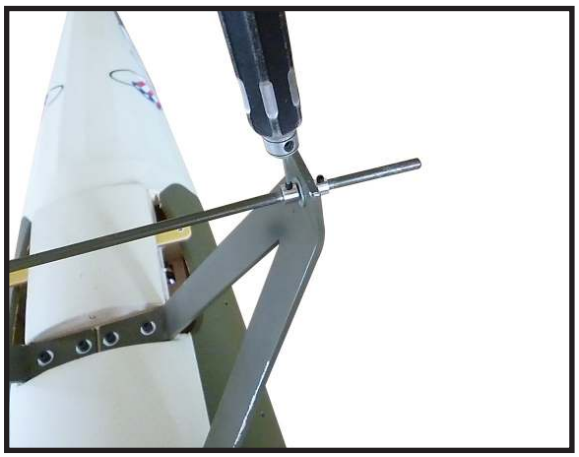
8.



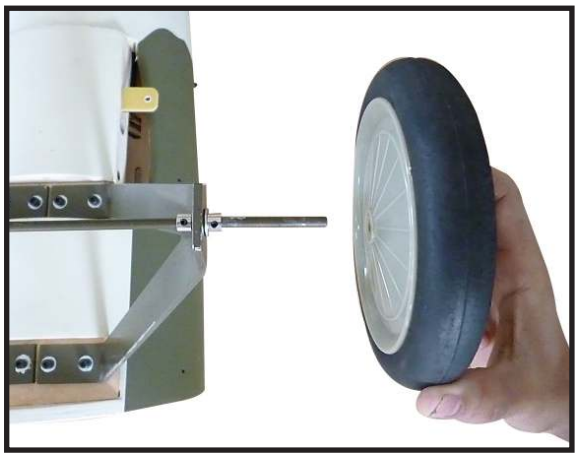
9.



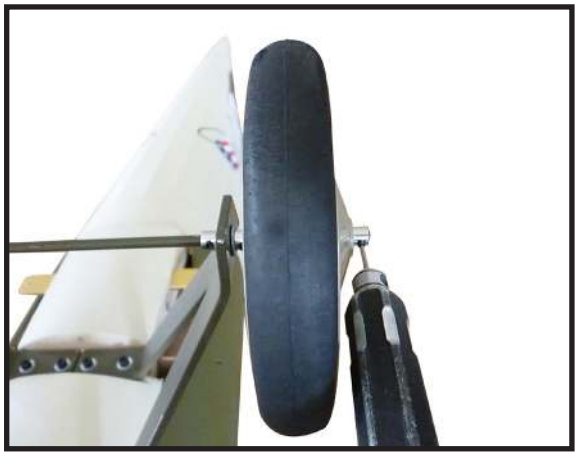
10.



11.



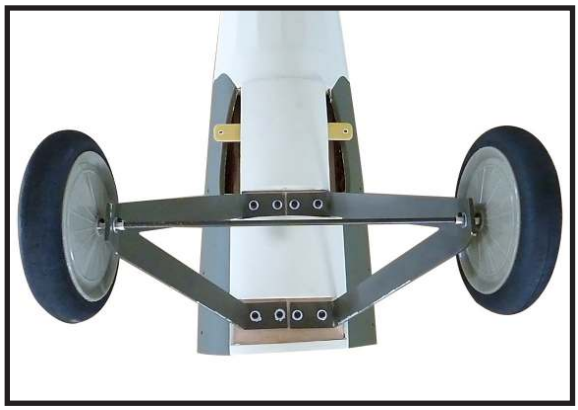
12.



13.



14.

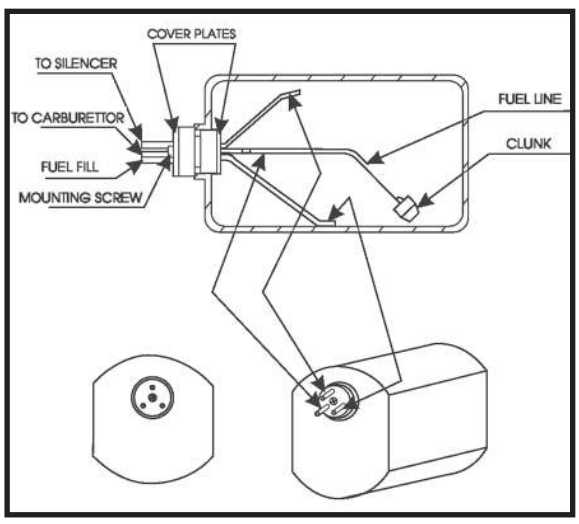


INSTALLING THE STOPPER ASSEMBLY.

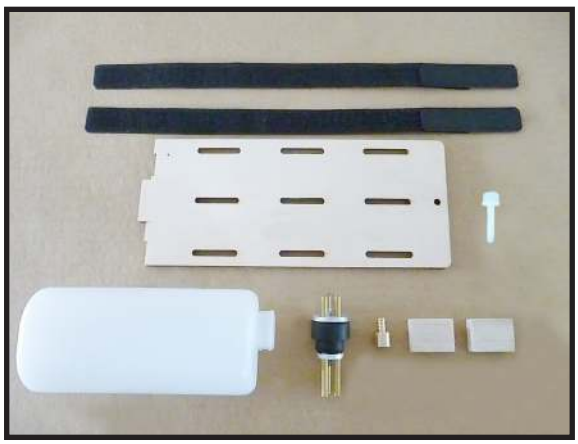
1) Using a modeling knife, carefully cut off the rear portion of one of the 3 nylon tubes leaving 1/2" protruding from the rear of the stopper. This will be the fuel pick up tube.

2) Using a modeling knife, cut one length of silicon fuel line. Connect one end of the line to the weighted fuel pick up and the other end to the nylon pick up tube.

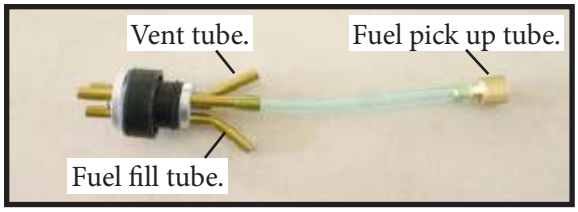
1.



2.



3.



3) Carefully bend the second nylon tube up at a 45º angle. This tube is the vent tube.

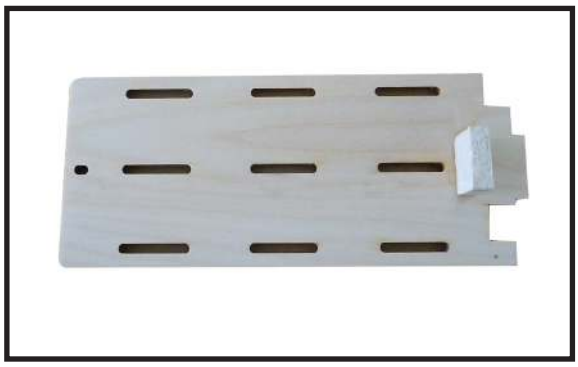
4) Test fit the stopper assembly into the tank. It may be necessary to remove some of the flashing around the tank opening using a modeling knife. If flashing is present, make sure none falls into the tank.

5) With the stopper assembly in place, the weighted pick-up should rest away from the rear of the tank and move freely inside the tank. The top of the vent tube should rest just below the top of the tank. It should not touch the top of the tank.

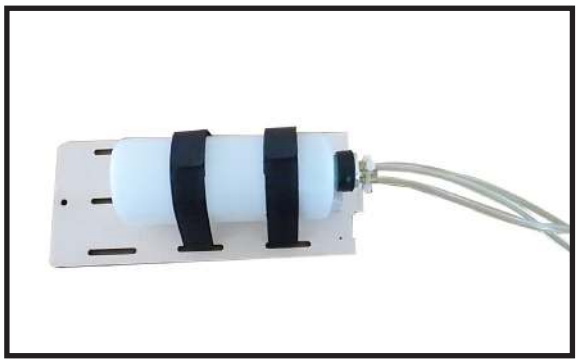
6) When satisfied with the alignment of the stopper assembly tighten the 3 x 20mm machine screw until the rubber stopper expands and seals the tank opening. Do not overtighten the assembly as this could cause the tank to split.

FUEL TANK INSTALLATION.

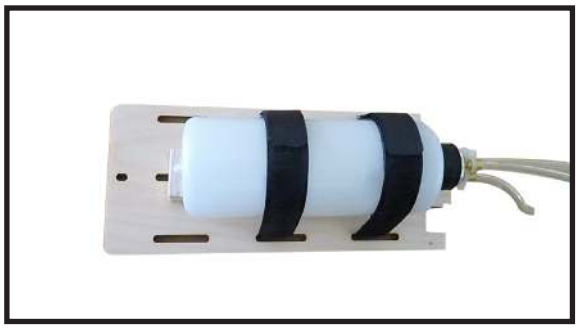
1.



2.



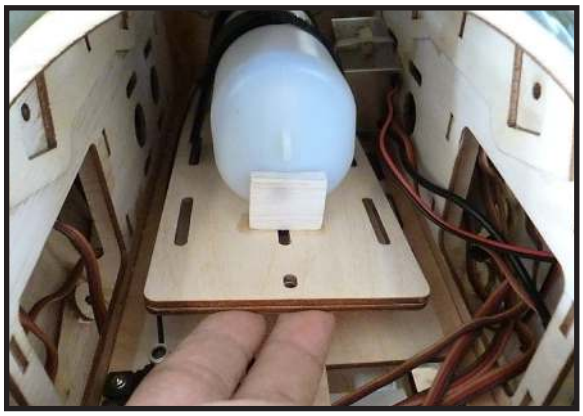
3.



⚠ *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.*

7) Slide the fuel tank into the fuselage. Guide the lines from the tank through the hole in the fiewall.

4.



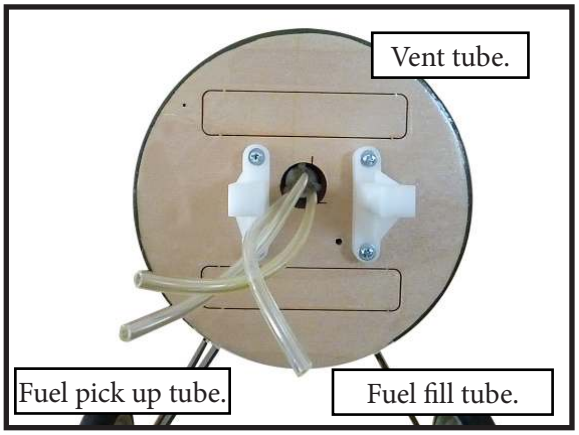
5.



6.

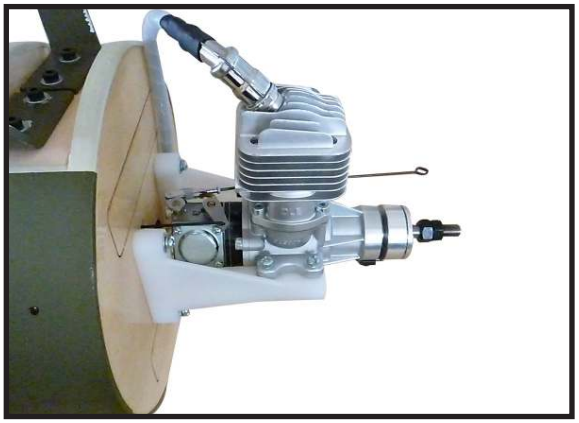


7.



8) Connect the lines from the tank to the engine and muffler. The vent line will connect to the muffler and the line from the clunk tothe carburetor.

8.

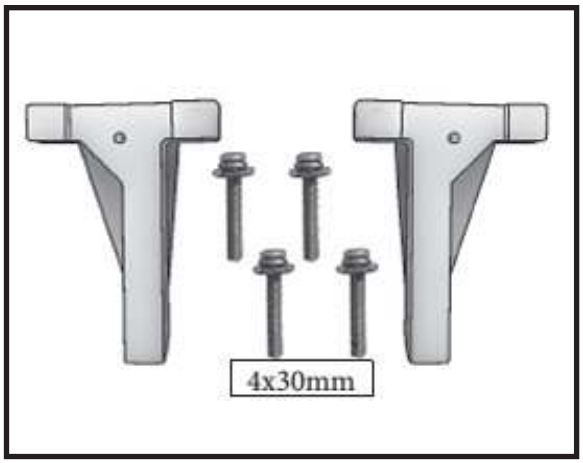


- *Blow through one of the lines to ensure the fuel lines have not become kinked inside the fuel tank compartment. Air should flow through easily.*

ENGINE MOUNT INSTALLATION.

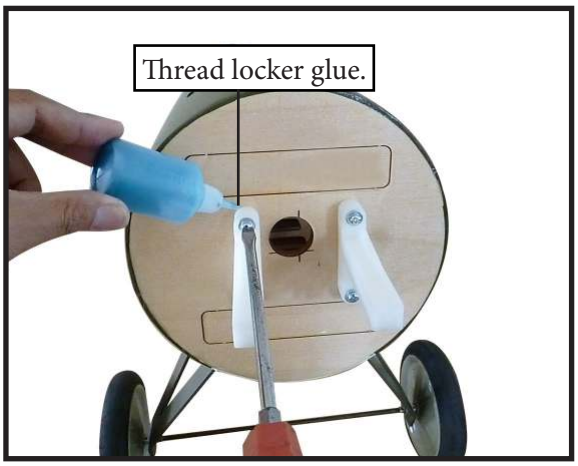
1) Locate the items necessary to install the engine mount included with your model.

1.

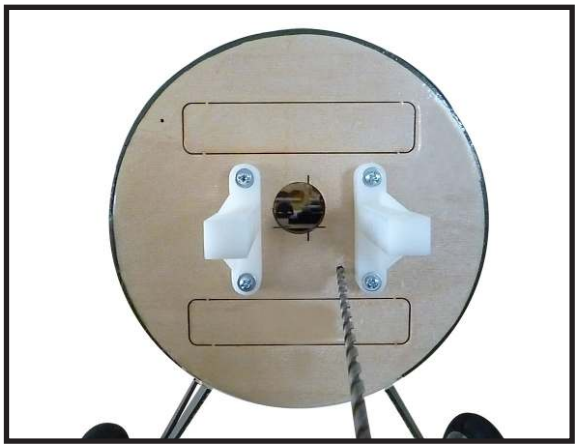


2) Use four 4x30mm head bolts and four 4mm washers to attach the engine mount rails to the fiewall. Tighten the screws . Make sure to use threadlock on the screws to help prevent them from vibrating loose.

2.



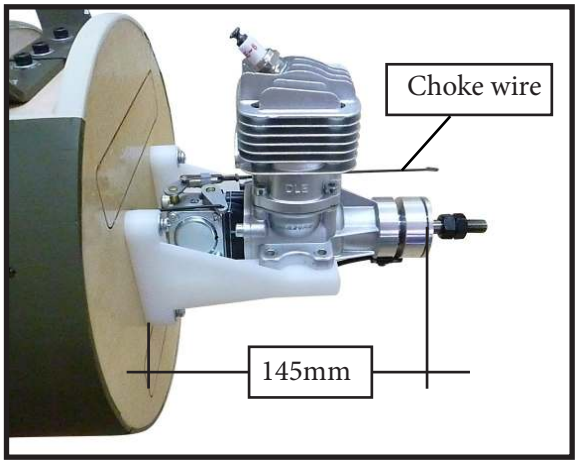
3.



MOUNTING THE ENGINE.

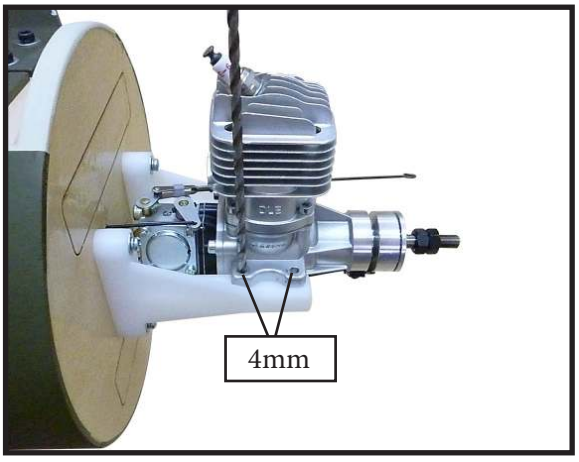
1) Position the engine with the drive washer (145mm) forward of the fiewall as shown.

1.



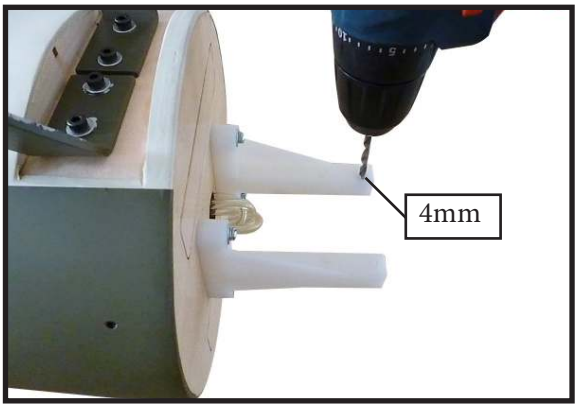
2) Use a pin drill and 4mm drill bit to drill a small indentation in the mount for the engine mounting screw.

2.



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

3.



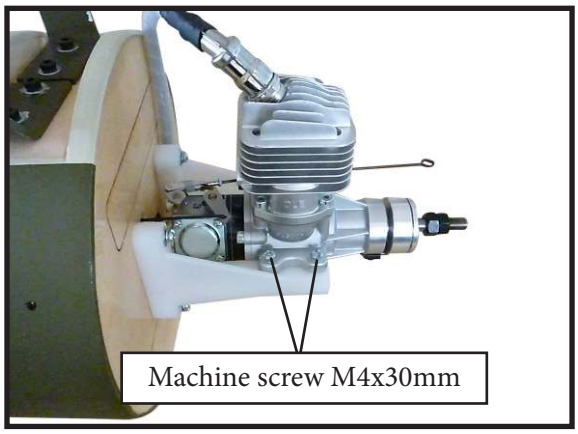
4) The fire wall has the location for the throttle pushrod tube (pre-drill).

5) Slide the pushrod tube in the firewall and guide it through the fuel tank mount. Use medium C/A to glue the tube to the firewall and the fuel tank mount.

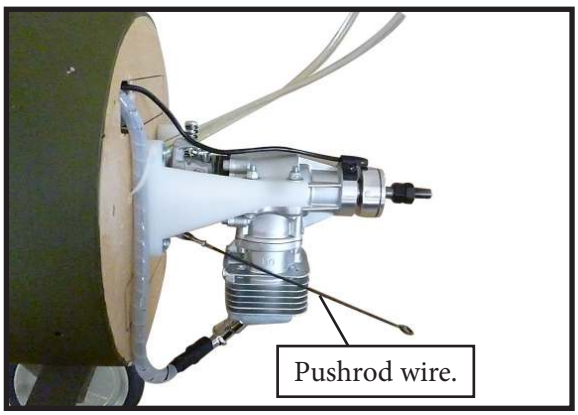
6) Connect the Z-bend in the 450mm throttle pushrod to the outer hole of the carburetor arm.

7) Slide the throttle pushrod wire into the tube. Position the engine between the mounts. Use four M4x30mm machine screws to secure the engine to the mount as shown.

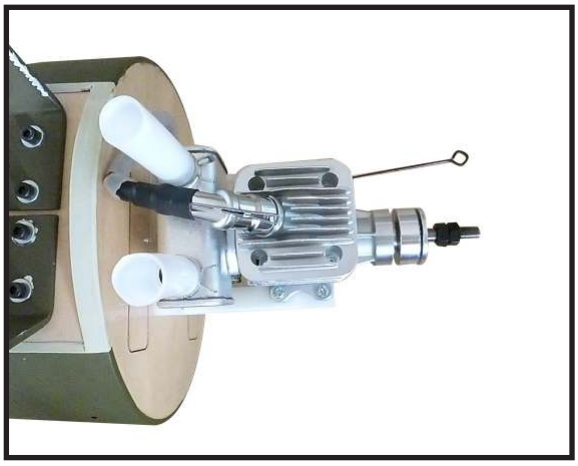
4.



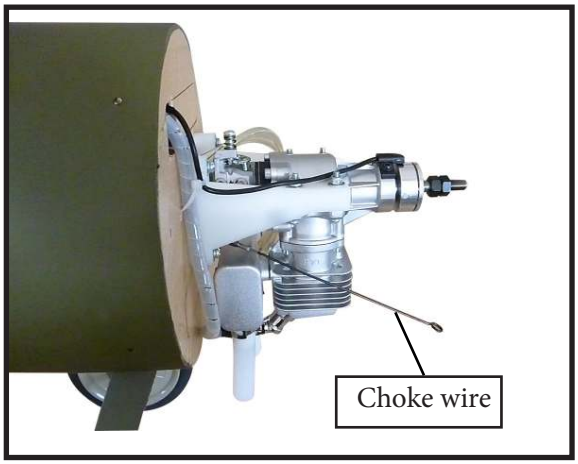
5.



6.



7.



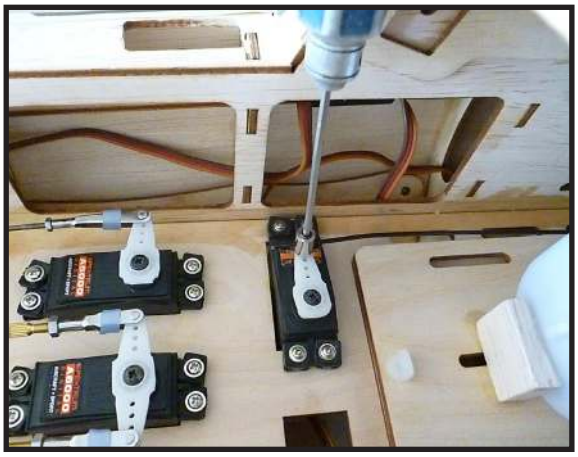
8) Reinstall the servo horn by sliding the connector over the pushrod wire. Center the throttle stick and trim and install the servo horn perpendicular to the servo center line.

8.



9) 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.

9.



COWLING.

Please see below pictures.

1.



2.



3.



1) Tape the cowl to the fuselage using low-tack tape.

4.

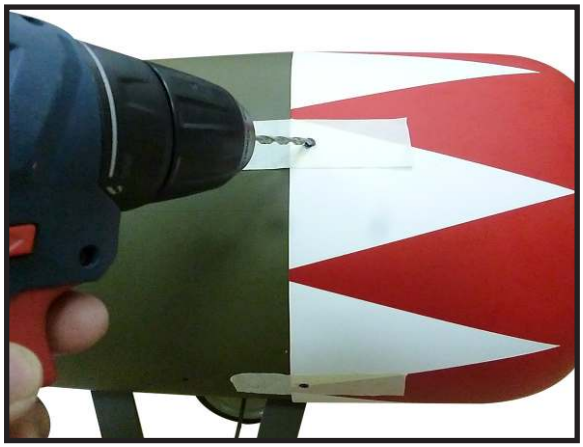


5.



2) Use a drill and drill bit to drill the holes for the cowl mounting screws. Make sure the cowl position is correct before drilling each hole.

6.



3) With the muffler, needle valve, and spark/ glow plug removed from the engine, slide the cowl in place over the engine. Temporarily install the propeller and spinner in order to fid the exact location of the cowl. When satisfied with the cowl placement, secure the cowl to the fuselage using masking tape.

7.



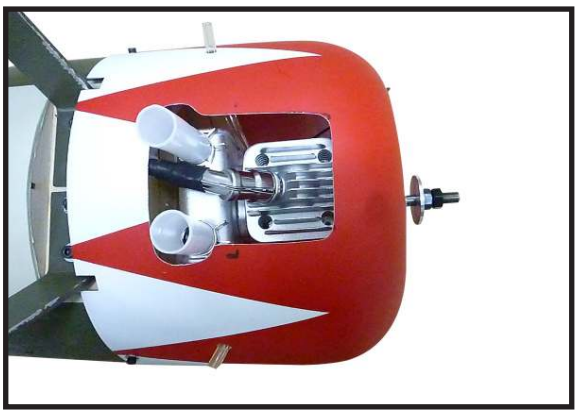
4) Install the muffler and muffler extension onto the engine and make the cutout in the cowl for muffler clearance. Connect the fuel and pressure lines to the carburetor, muffler and fuel filer valve. Secure the cowl to fuselage using the M3x10mm socket head screws.Putting a small length of silicon fuel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

8.

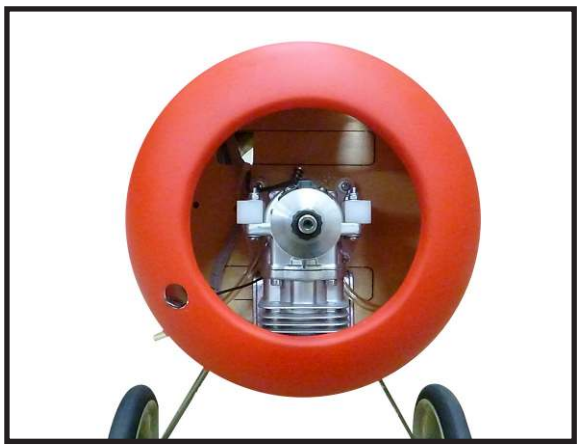


Because of the size of the cowl, it may be necessary to use a needle valve extension for the high speed needle valve. Make this out of sufficient length 1.5mm wire and install it into the end of the needle valve. Secure the wire in place by tightening the set screw in the side of the needle valve.

9.



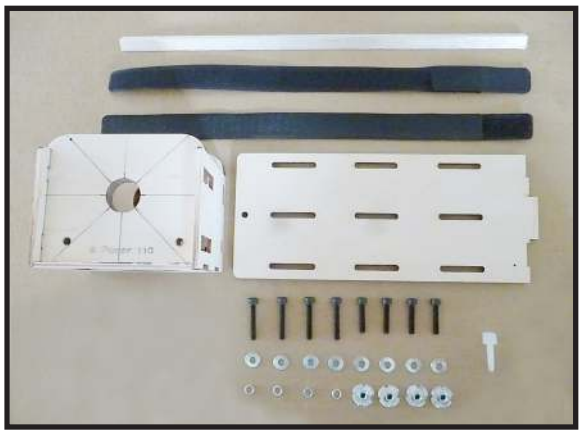
10.



ELECTRIC POWER CONVERSION.

1) Locate the items neccessary to install the electric power conversion included with your model.

1.



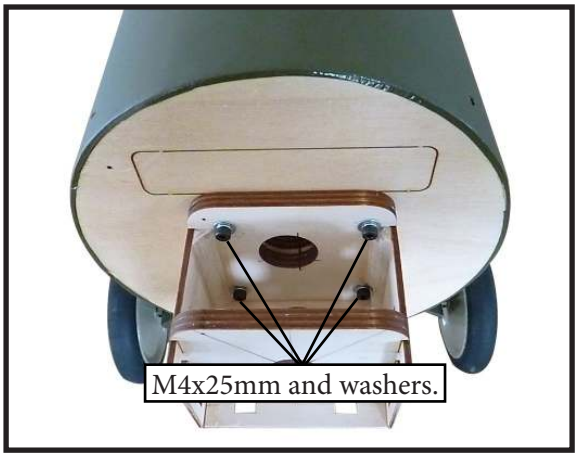
- Motor: 1100 - 2000 Watts
- Propeller: 17x8 ~ 19x10
- ESC: 85A
- 8S- 10S Lipo

3) Attach the electric motor box to the firewall centered with the cross lines drawn on the electric motor box and firewall. Using M4x25mm to secure the motor box to the firewall. Please see pictures below.

2.



3.

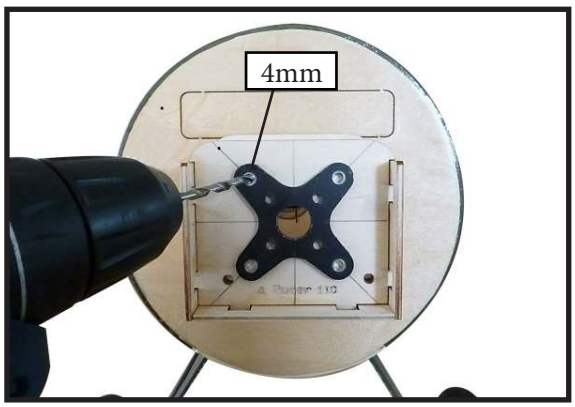


4) Attach the motor mount to the front of the electric motor box using four 4mm blind nut, four M4x20mm hex head bolts to secure the motor. Please see picture shown.

4.

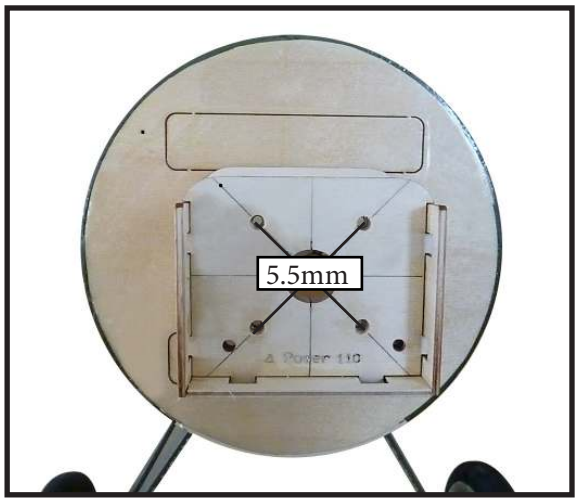


5.

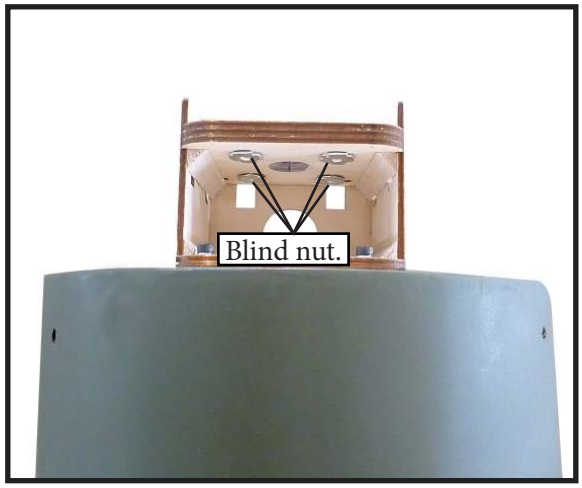


Then, use 5.5mm drill bit to enlarge the holes on the electric motor box.

6.

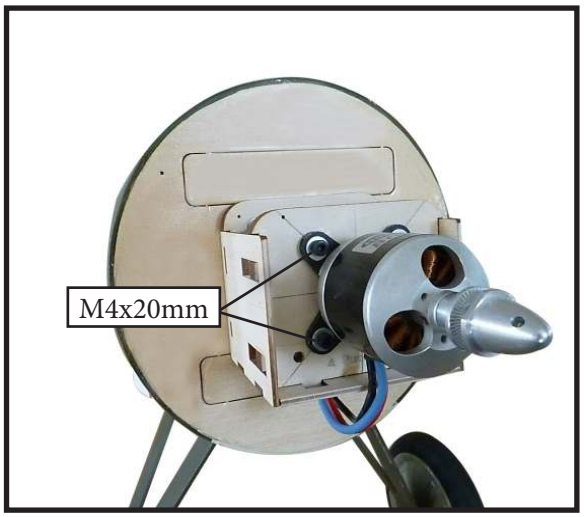


7.

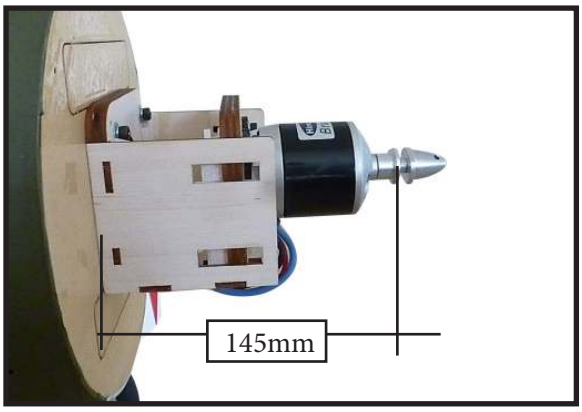


5) Attach the motor to the front of the electric motor box using four 4mm blind nut, four M4x20mm hex head bolts to secure the motor. Please see picture shown.

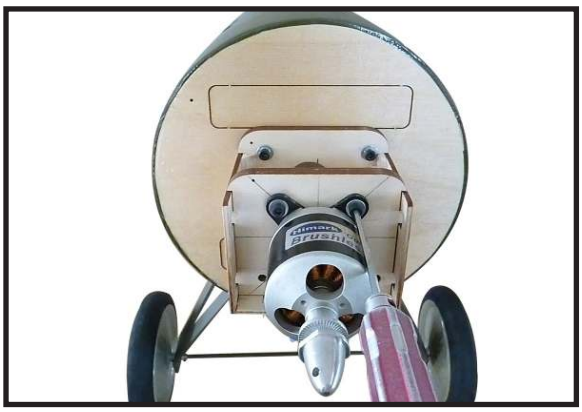
8.



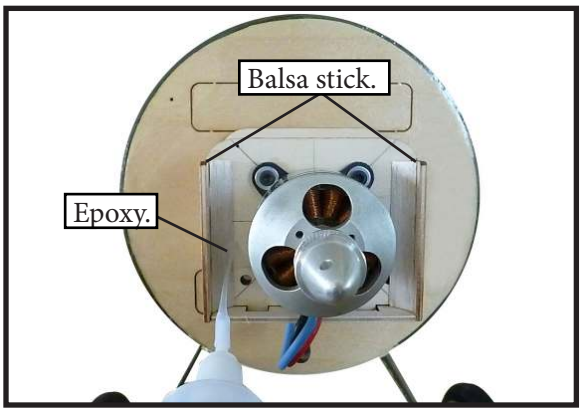
9.



10.

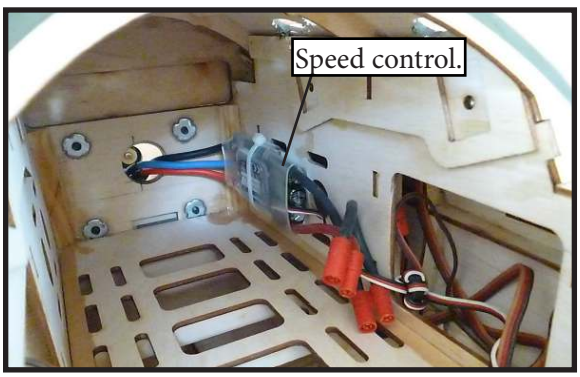


11.

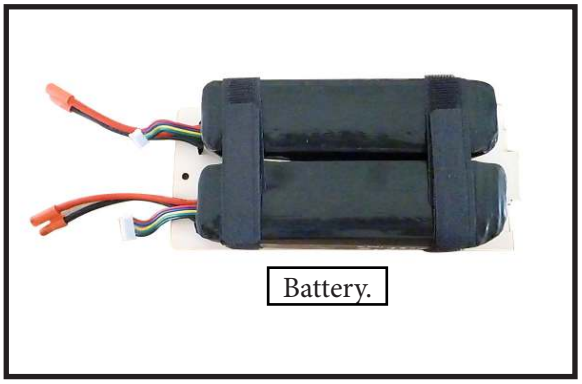


6) Attach the speed control to the side of the motor box using two-sided tape and tie wraps. Connect the appropriate leads from the speed control to the motor. Make sure the leads will not interfere with the operation of the motor.

12.

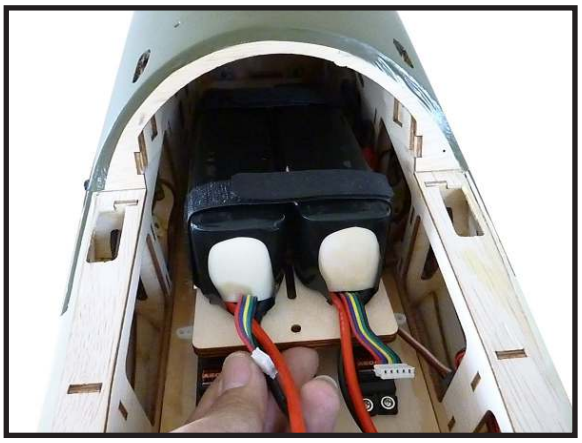


13.

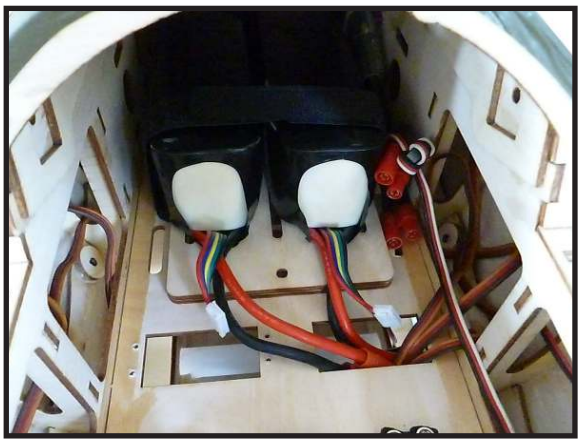


Battery.

14.



15.



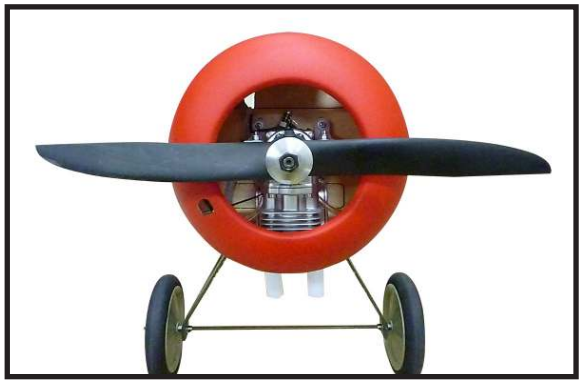
16.



INSTALLING THE SPINNER.

Install the spinner backplate, propeller and spinner cone.

1.



⚠ The propeller should not touch any part of the spinner cone. If it does, use a sharp modeling knife and carefully trim away the spinner cone where the propeller comes in contact with it.

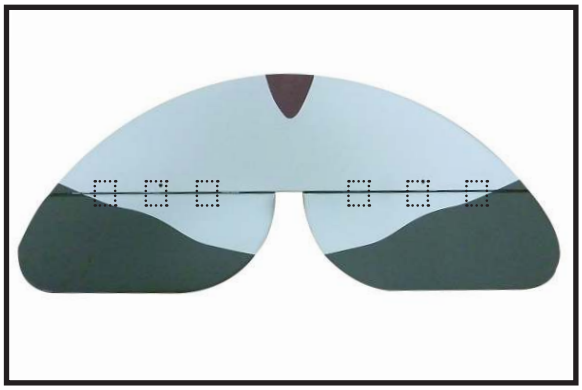
2.



HINGING THE ELEVATOR.

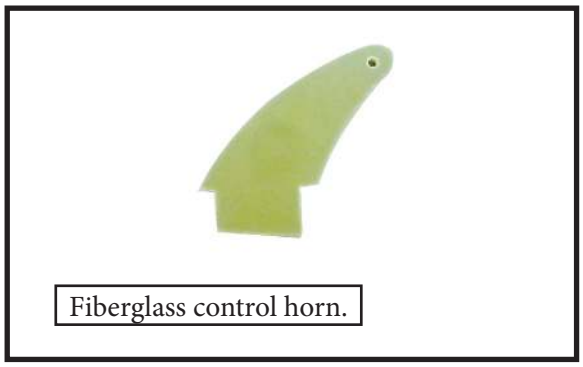
Glue the elevator hinges in place using the same techniques used to hinge the ailerons.

1.

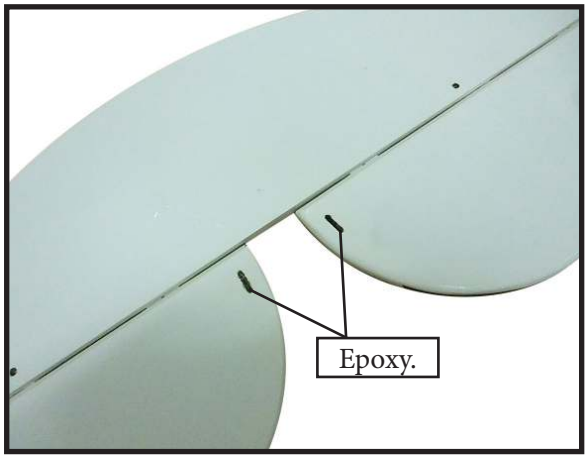


INSTALL ELEVATOR CONTROL HORN.

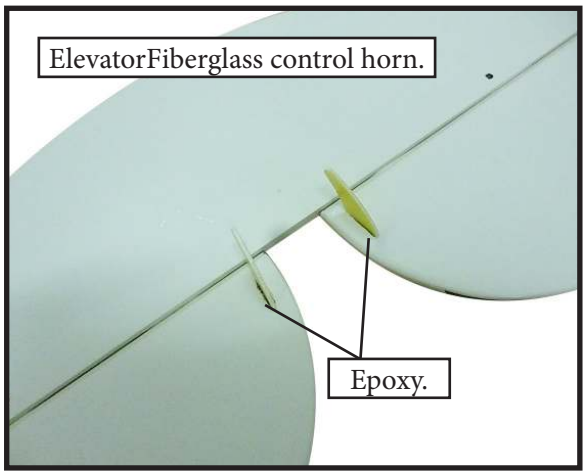
1.



2.



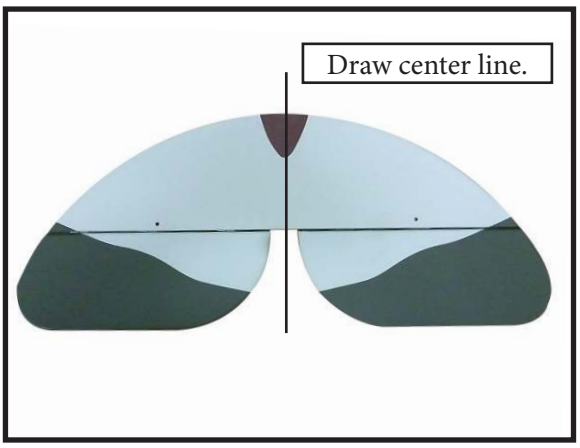
3.



INSTALLING THE HORIZONTAL STABILIZER.

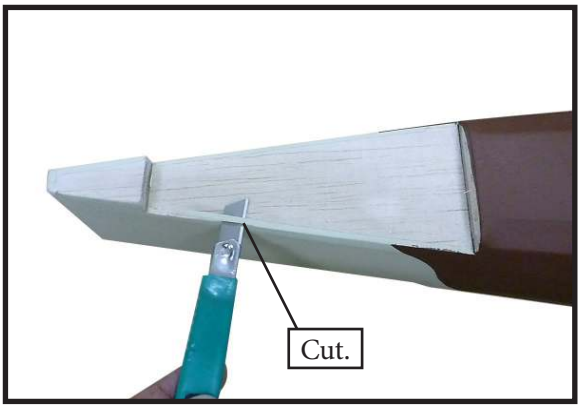
1) Using a ruler and a pen, locate the centerline of the horizontal stabilizer, at the trailing edge, and place a mark. Use a triangle and extend this mark, from back to front, across the top of the stabilizer. Also extend this mark down the back of the trailing edge of the stabilizer.

1.



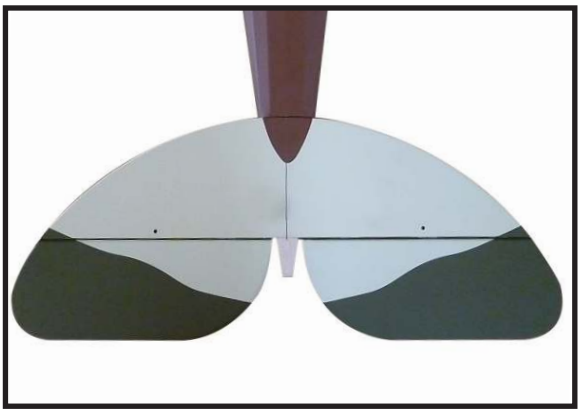
2) Using a modeling knife, carefully rmove the covering at mounting slot of horizontal stabilizer (both side of fuselage).

2.



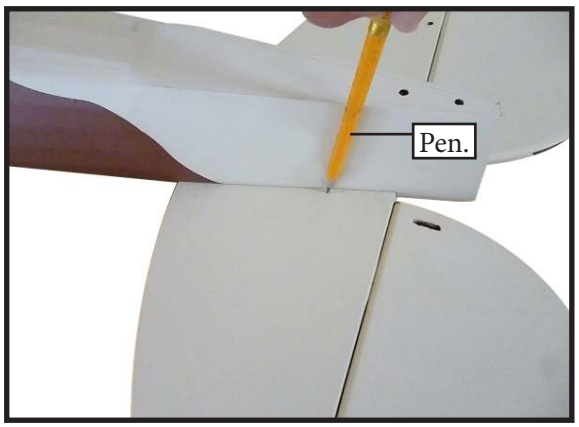
3) Slide the stabilizer into place in the precut slot in the rear of the fuselage. The stabilizer should be pushed firmly against the front of the slot.

3.



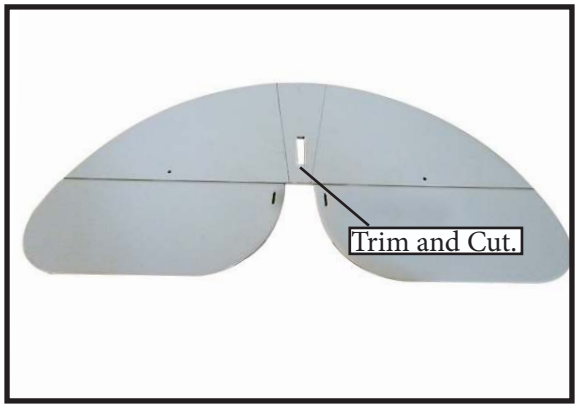
4) With the stabilizer held firmly in place, use a pen and draw lines onto the stabilizer where it and the fuselage sides meet. Do this on both the right and left sides and top and bottom of the stabilizer.

4.



5) Remove the stabilizer. Using the lines you just drew as a guide, carefully remove the covering from between them using a modeling knife.

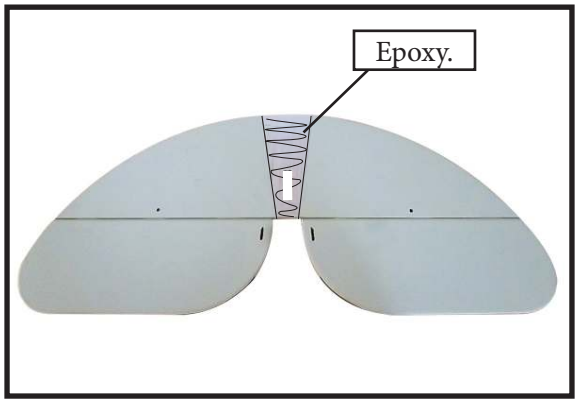
5.



⚠ ***When cutting through the covering to remove it, cut with only enough pressure to only cut through the covering itself. Cutting into the balsa structure may weaken it.***

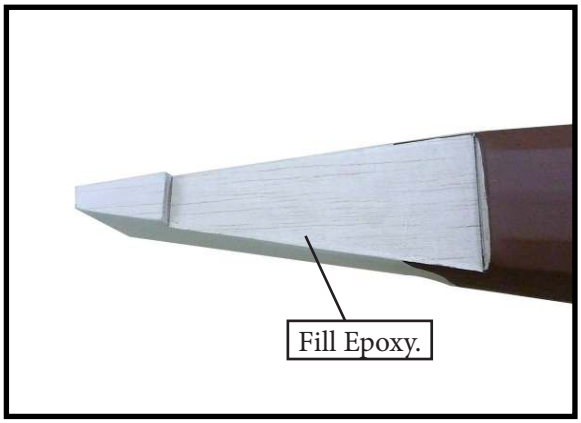
6) Using a modeling knife, carefully remove the covering that overlaps the stabilizer mounting platform sides in the fuselage. Remove the covering from both the top and the bottom of the platform sides.

6.

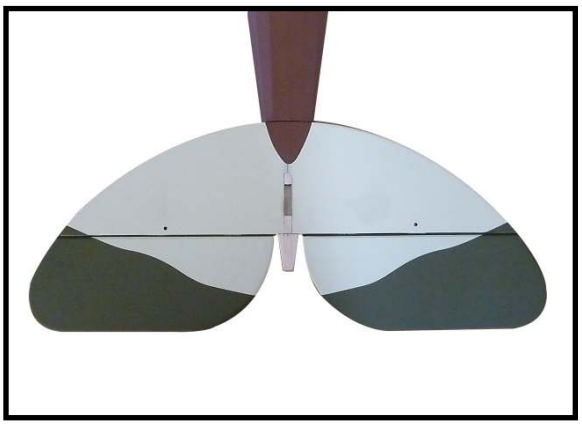


7) When you are sure that everything is aligned correctly, mix up a generous amount of 30 Minute Epoxy. Apply a thin layer to the top and bottom of the stabilizer mounting area and to the stabilizer mounting platform sides in the fuselage. Slide the stabilizer in place and realign. Double check all of your measurements once more before the epoxy cures. Hold the stabilizer in place with T-pins or masking tape and remove any excess epoxy using a paper towel and rubbing alcohol.

7.



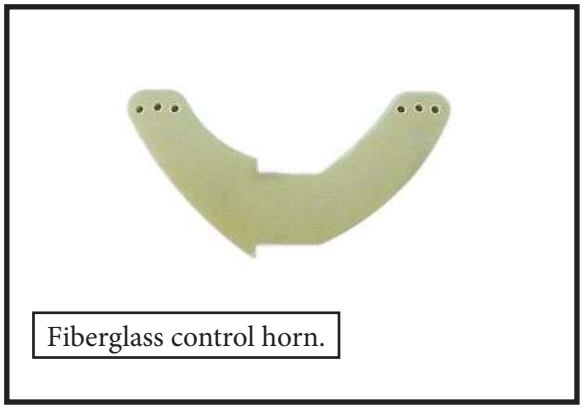
8.



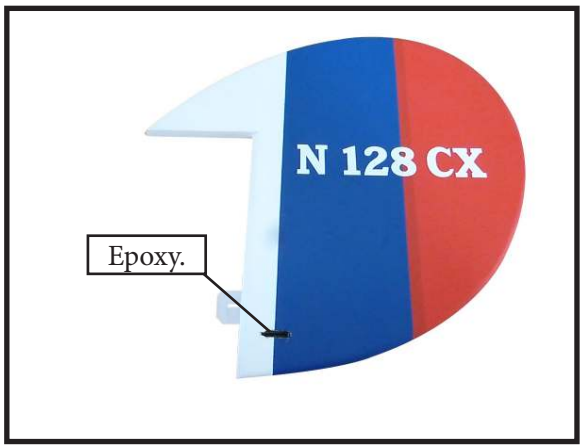
INSTALL RUDDER CONTROL HORN.

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

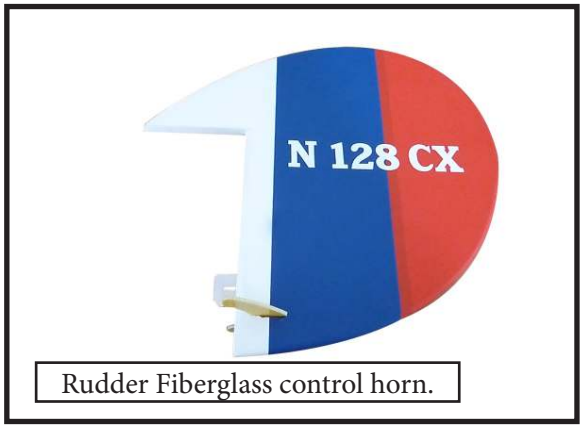
1.



2.

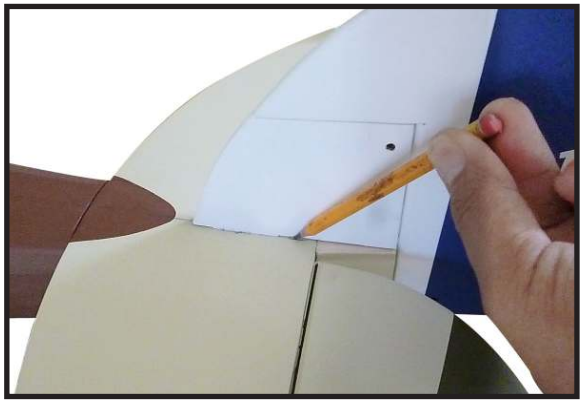


3.



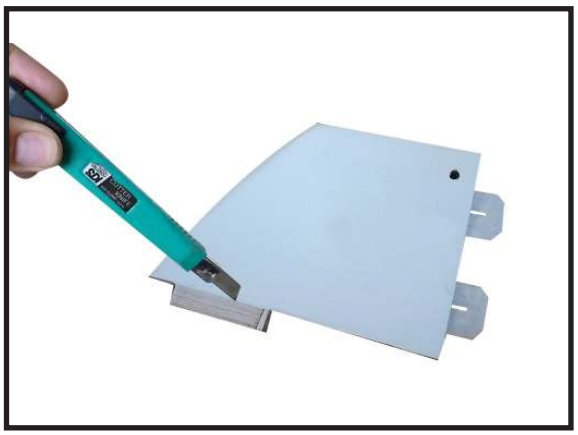
INSTALLING VERTICAL FIN.

1.



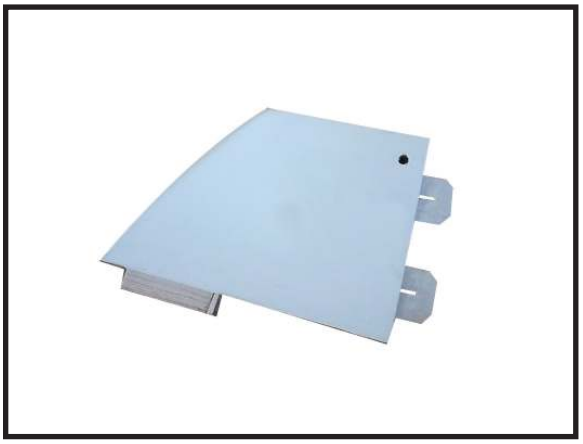
1) While holding the vertical stabilizer firmly in place, use a pen and draw a line on each side of the vertical stabilizer where it meets the top of the fuselage.

2.

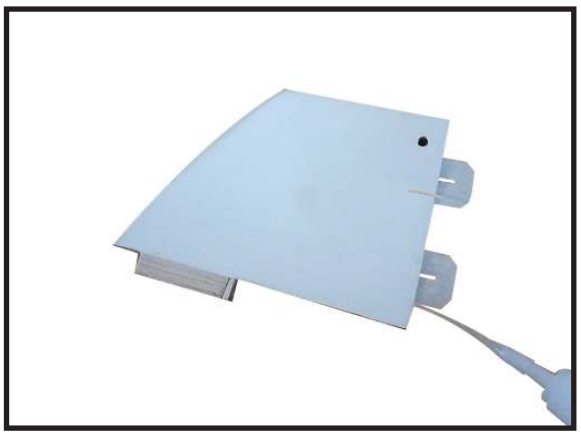


2) Using a modeling knife, remove the covering from over the precut hinge slot cut into the lower rear portion of the fuselage.

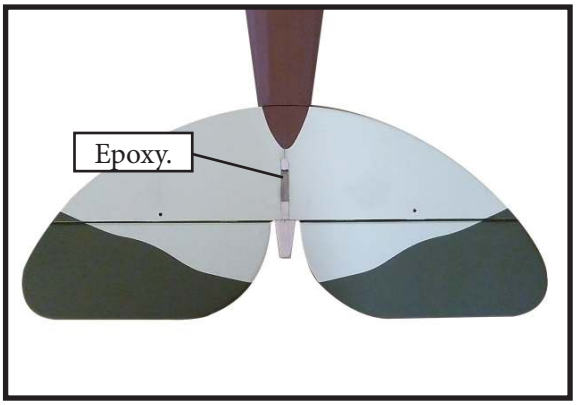
3.



4.

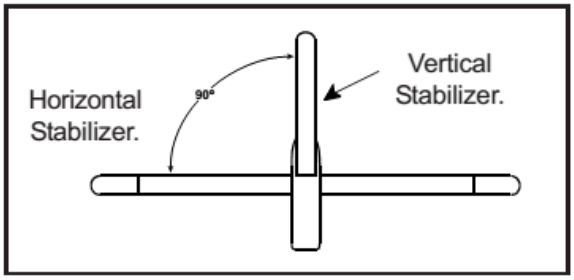


5.

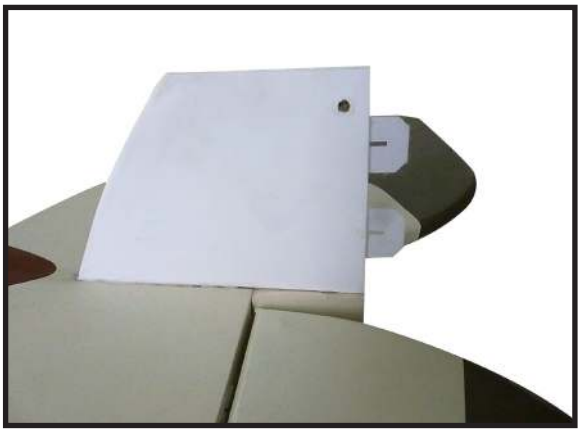


3) Slide the vertical stabilizer back in place. Using a triangle, check to ensure that the vertical stabilizer is aligned 90º to the horizontal stabilizer.

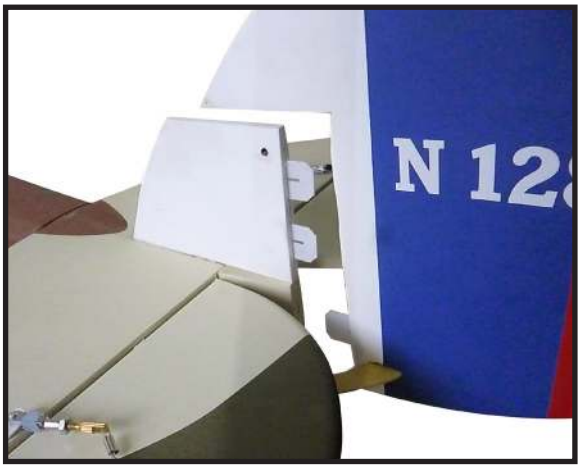
6.



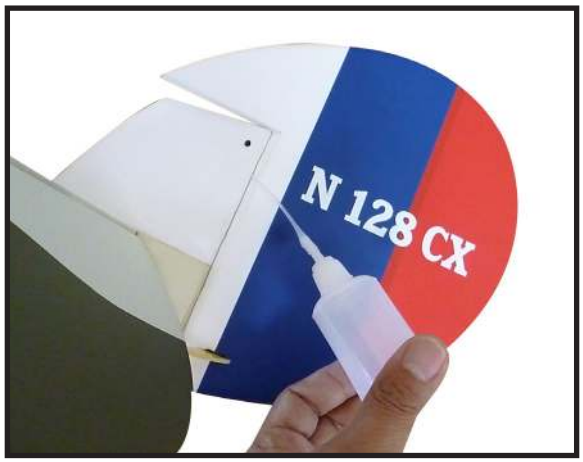
7.



8.

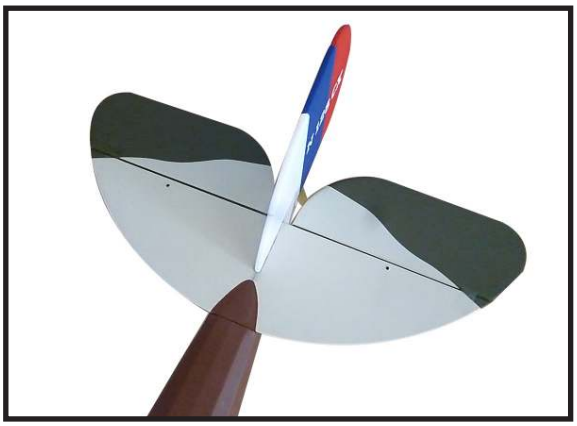


9.



4) When you are sure that everything is aligned correctly, mix up a generous amount of Flash 30 Minute Epoxy. Apply a thin layer to the mounting slot and to bottom of the vertical stabilizer mounting area. Apply epoxy to the bottom and top edges of the filler block and to the lower hinge also. Set the stabilizer in place and realign. Double check all of your measurements once more before the epoxy cures. Hold the stabilizer in place with T-pins or masking tape and remove any excess epoxy using a paper towel and rubbing alcohol. Allow the epoxy to fully cure before proceeding.

10.

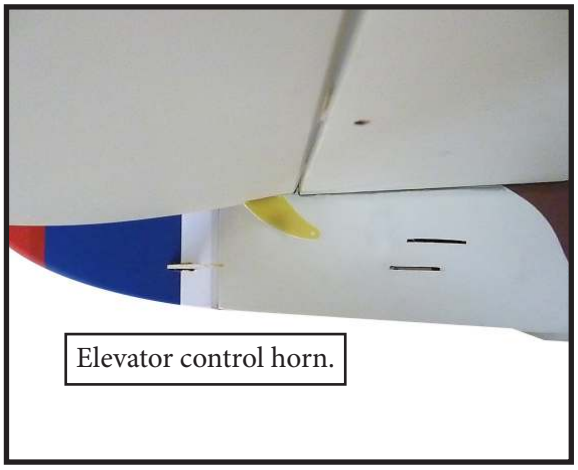


ELEVATOR - RUDDER PUSHROD HORN INSTALLATION.

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

2) Position the elevator control horn on the both side of elevator.

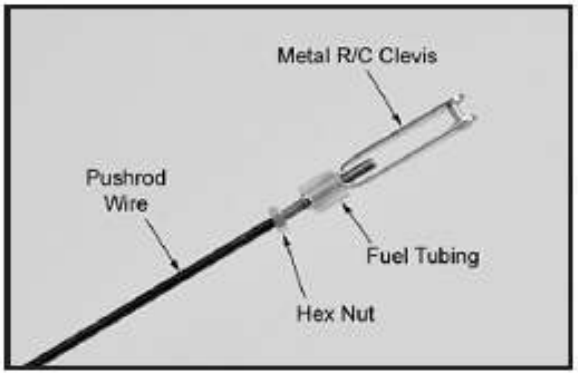
1.



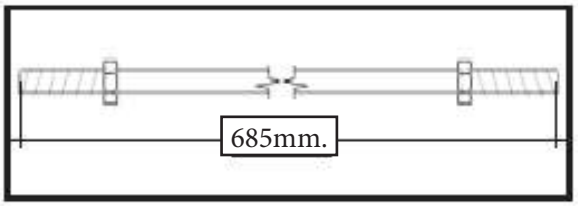
3) Thread one clevis and M2 lock nut on to each elevator control rod. Thread the horns on until they are flush with the ends of the control rods.

4) Elevator and rudder pushrods assembly as pictures below.

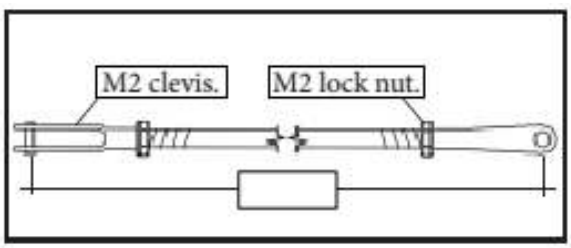
2.



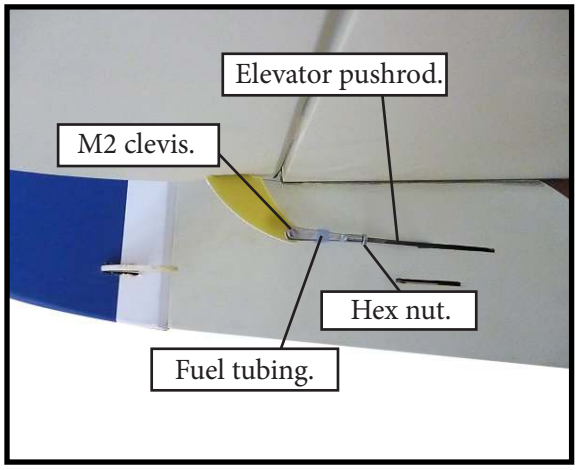
3.



4.



5.

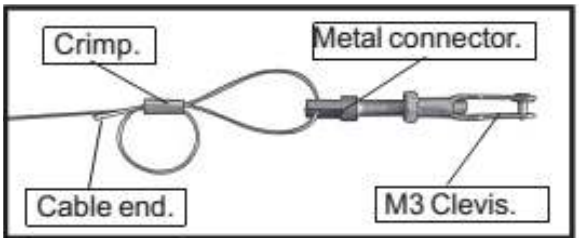


6.

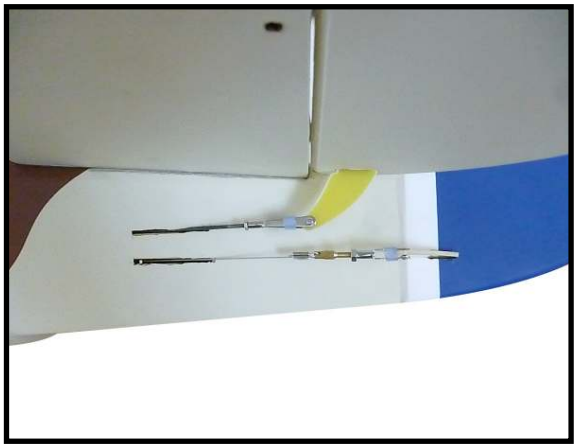


Minimum servo spec.
Torque : 80 oz-in (5.8 kg-cm) @ 4.8V;
100 oz-in (7.2 kg-cm) @ 6.0V

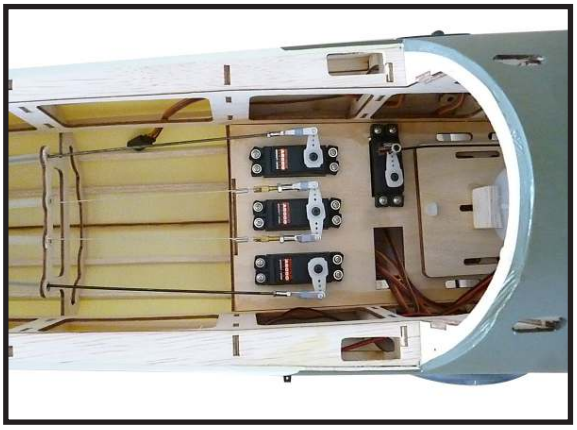
7.



8.



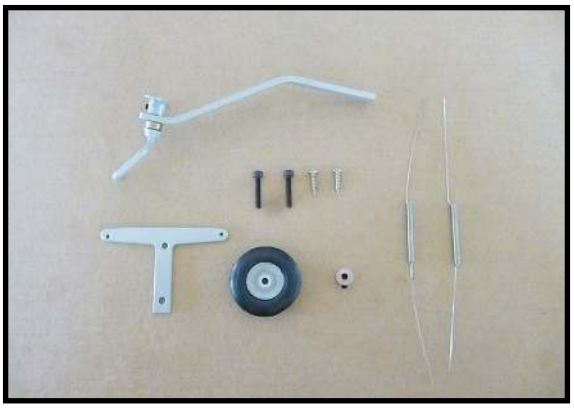
9.



MOUNTING THE TAIL WHEEL.

Locate items necessary to install tail wheel.

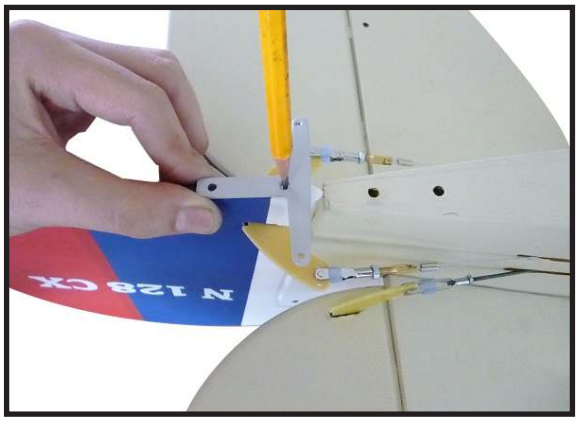
1.



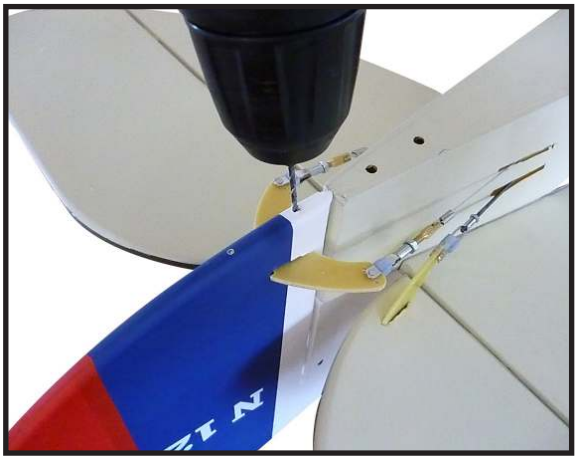
2.



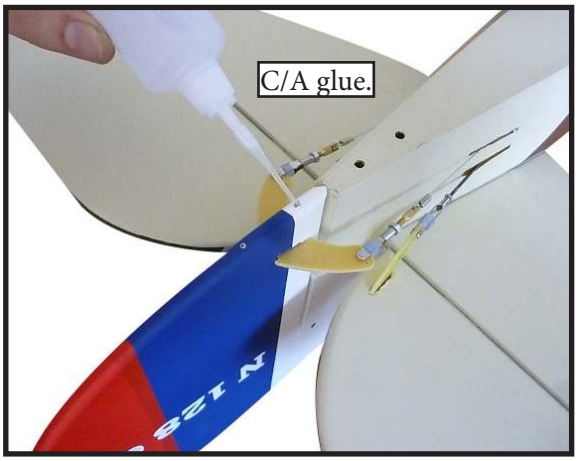
3.



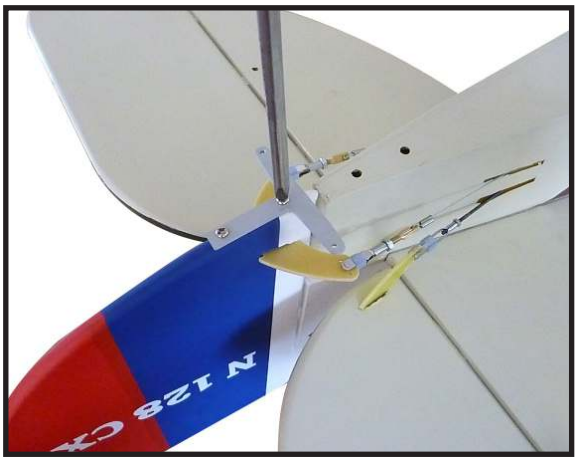
4.



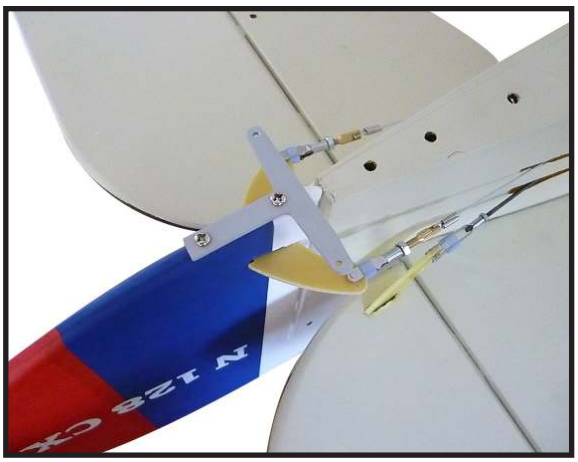
5.



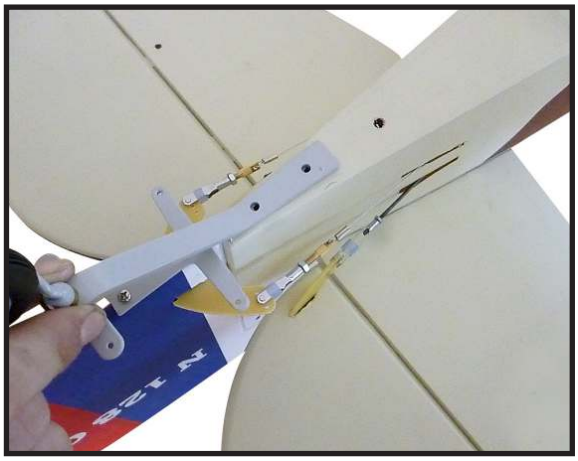
6.



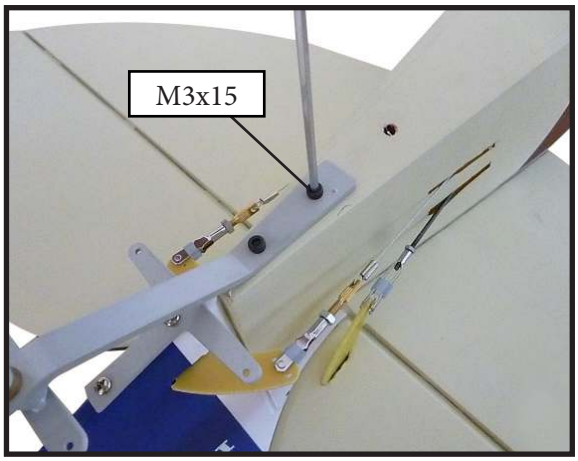
7.



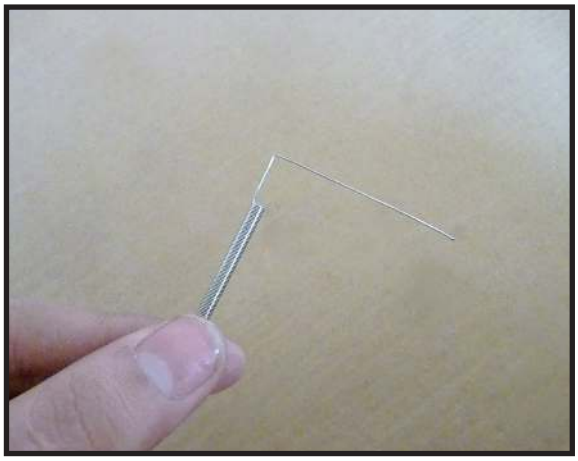
8.



9.



10.



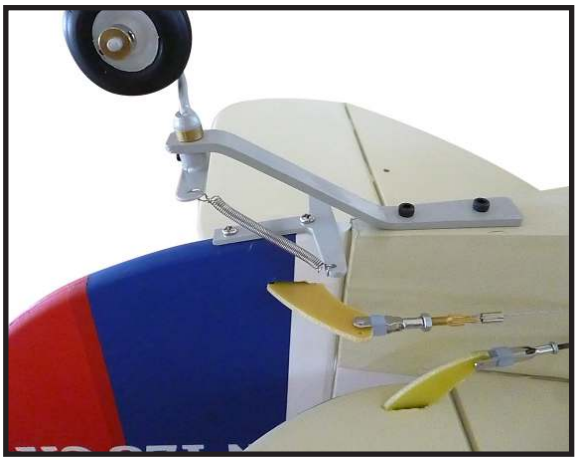
11.



12.



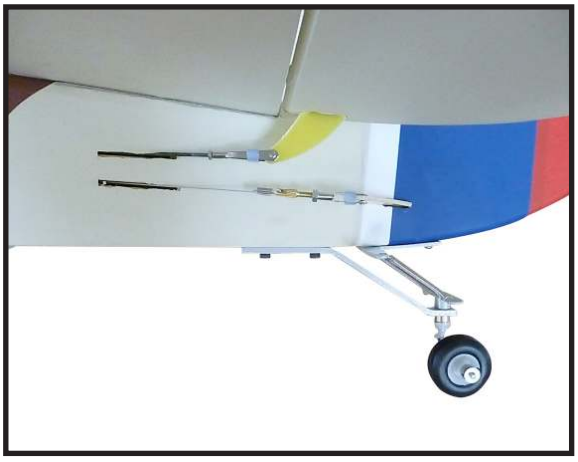
13.



14.



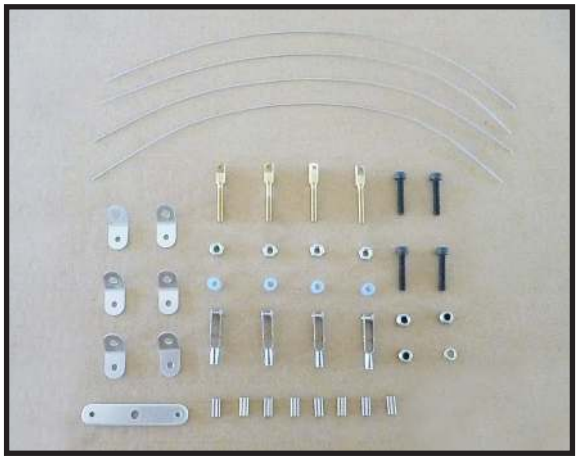
15.



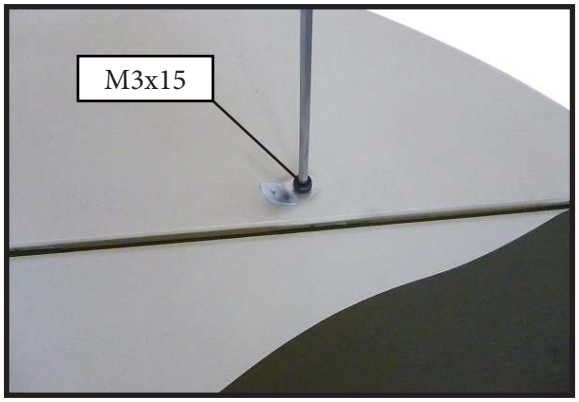
IINSTALL BRACING WIRE AND METAL BRACKET AT THE TAIL.

TOP VIEW

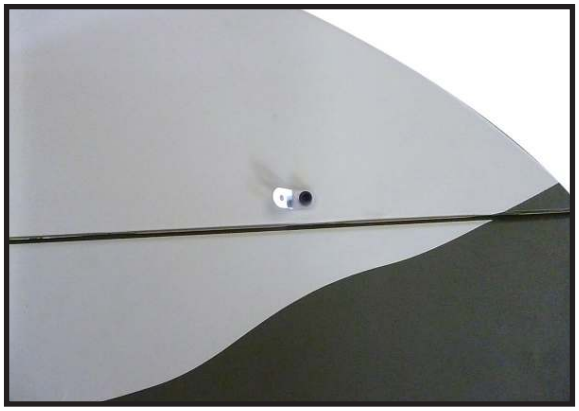
1.



2.



3.



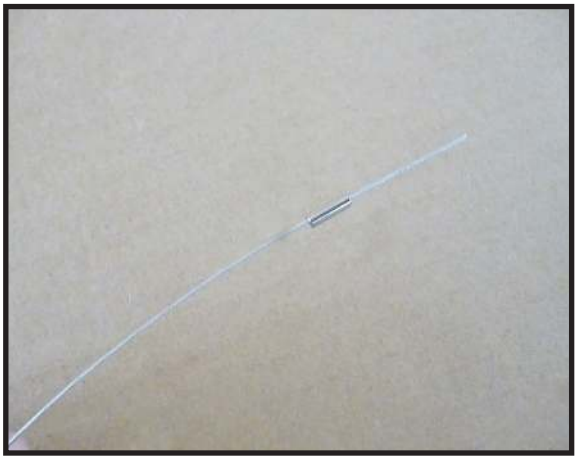
4.



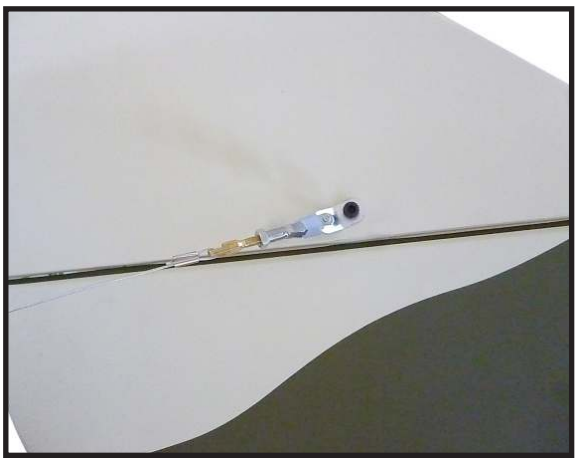
5.



6.



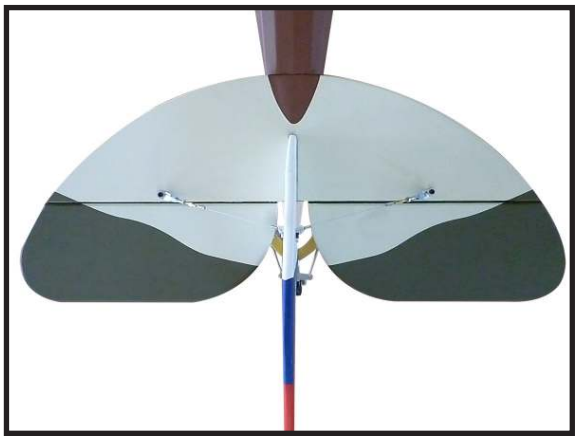
7.



8.

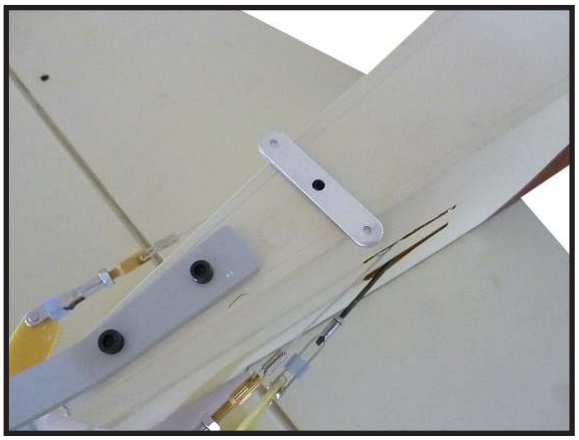


9.

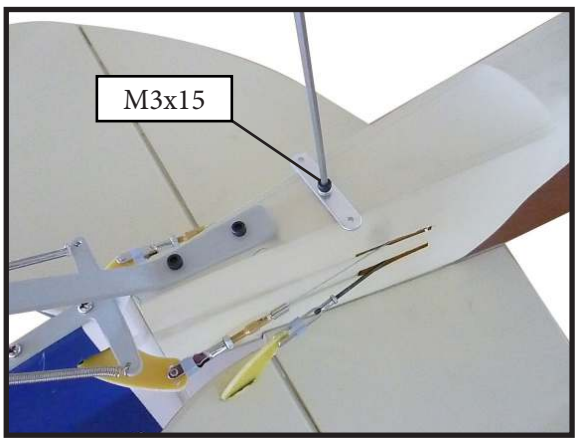


BOTTOM VIEW

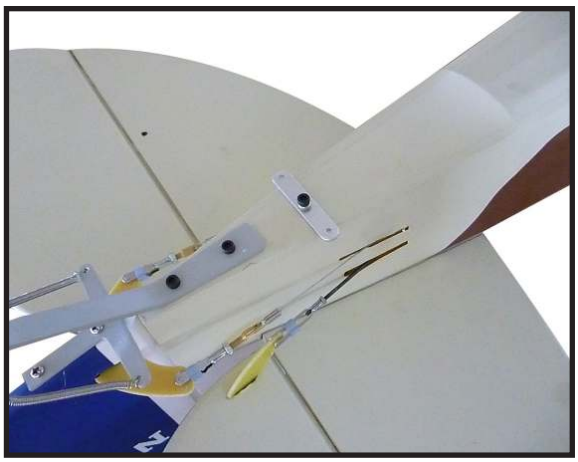
10.



11.



12.



13.



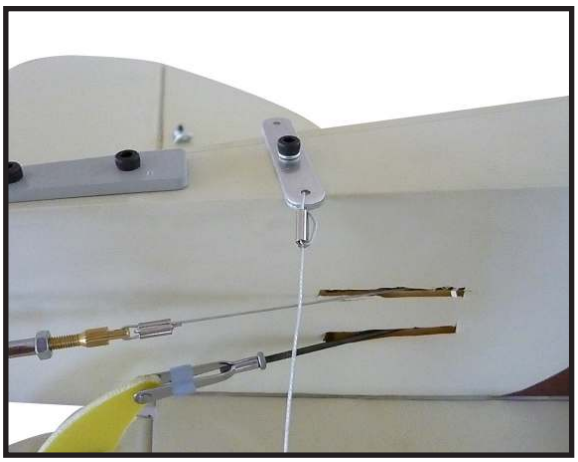
14.



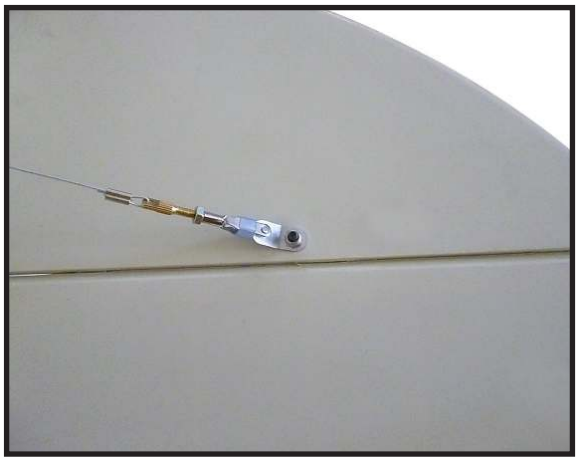
15.



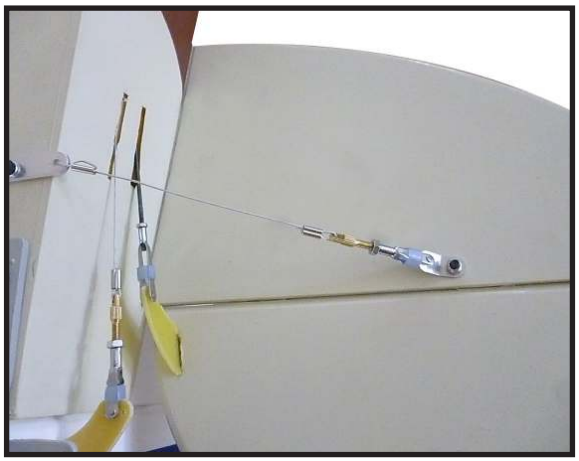
16.



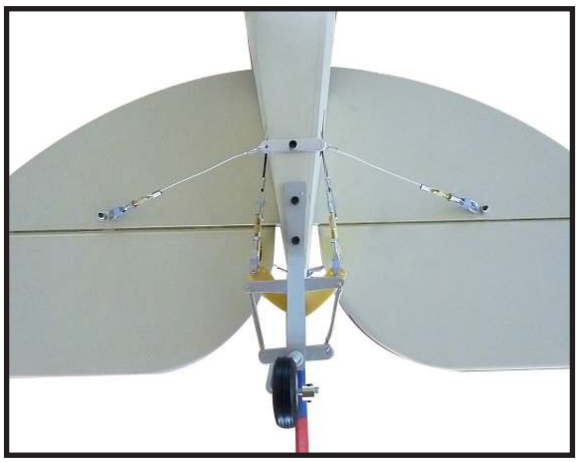
17.



18.



19.



INSTALL OF PLASTIC.

Please see below pictures.

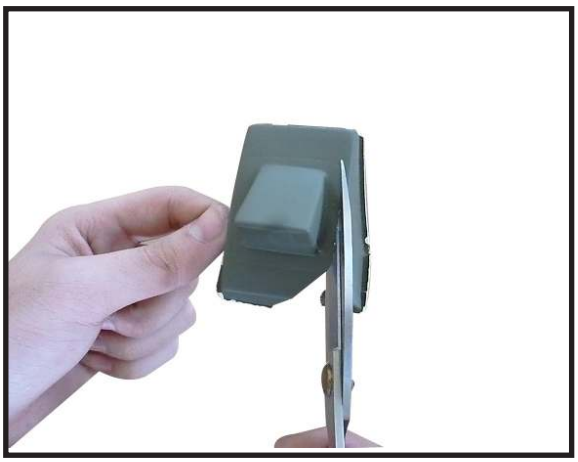
1.



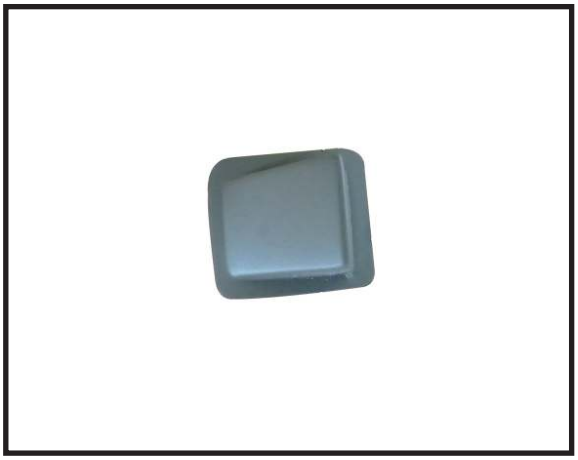
2.



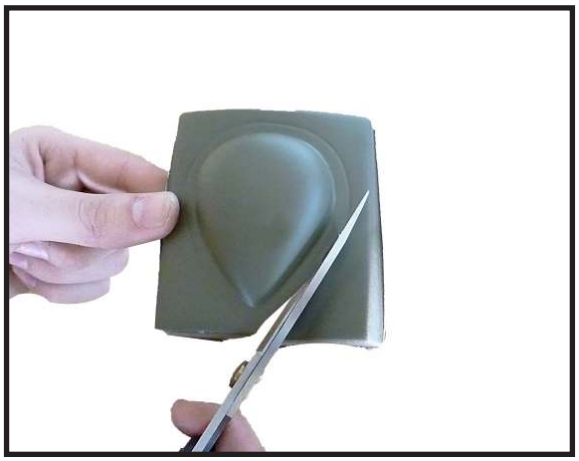
3.



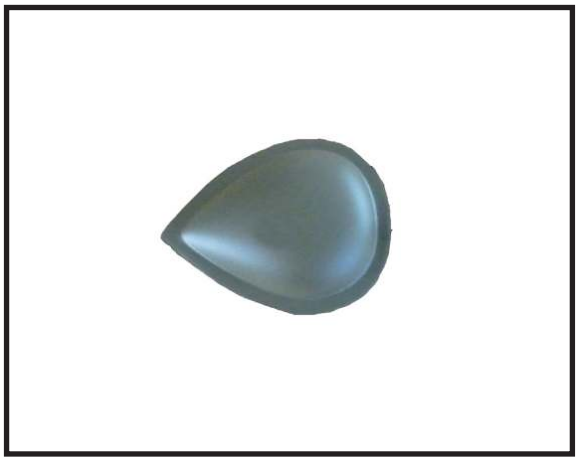
4.



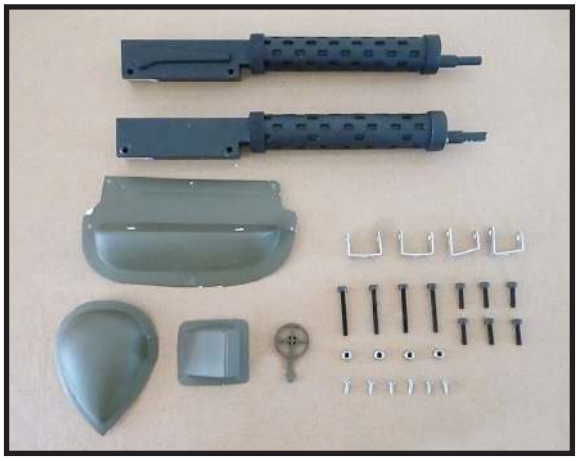
5.



6.



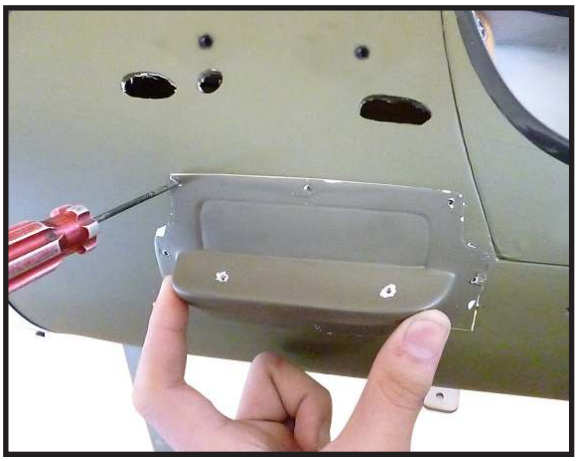
7.



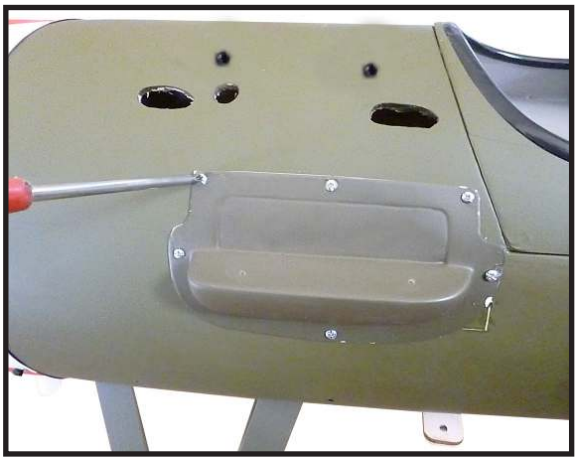
8.



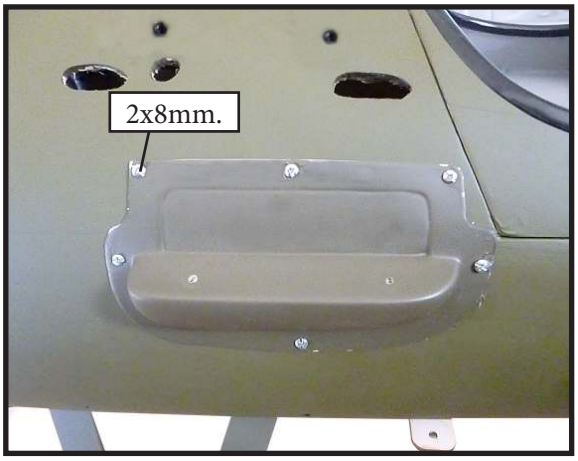
9.



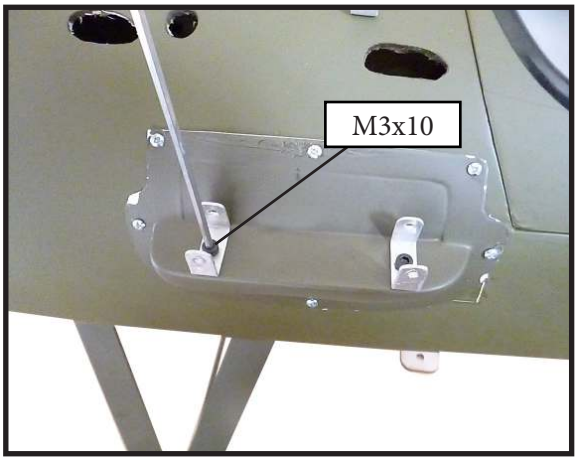
10.



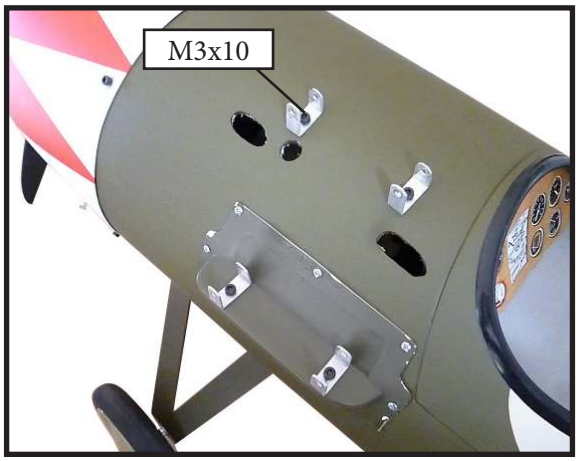
11.



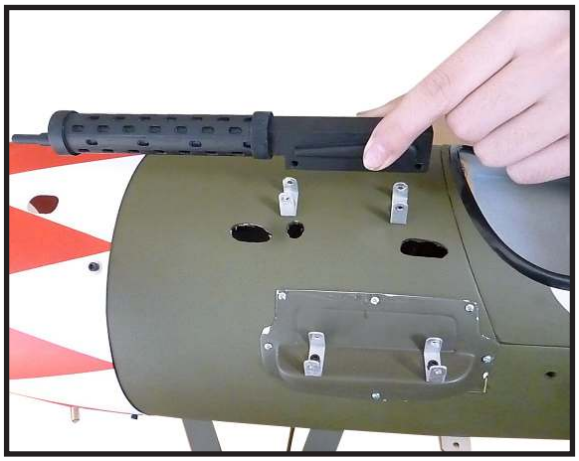
12.



13.



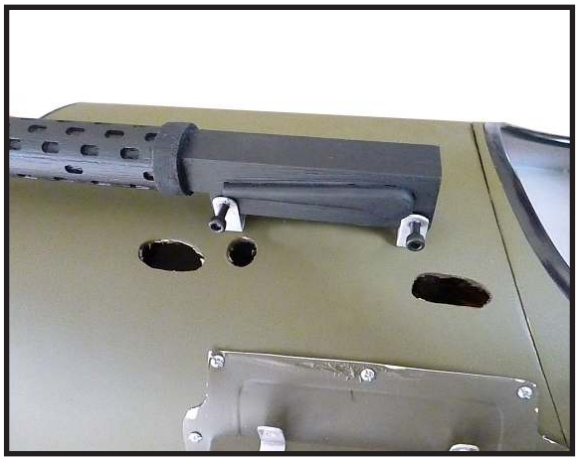
14.



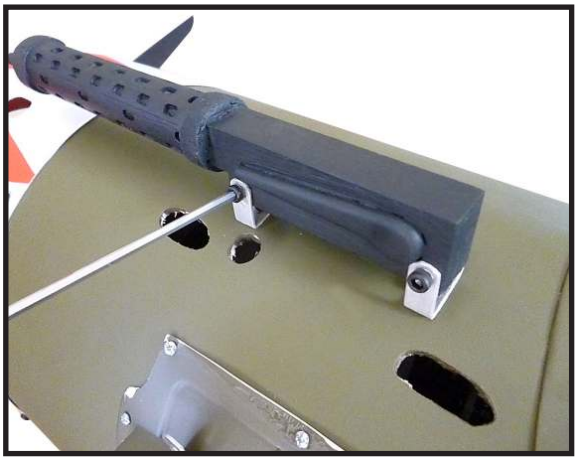
15.



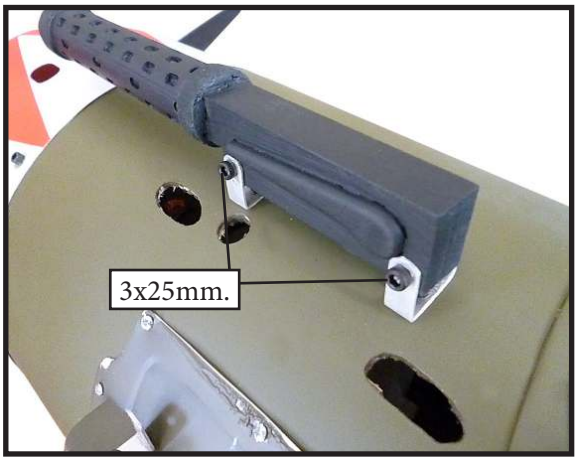
16.



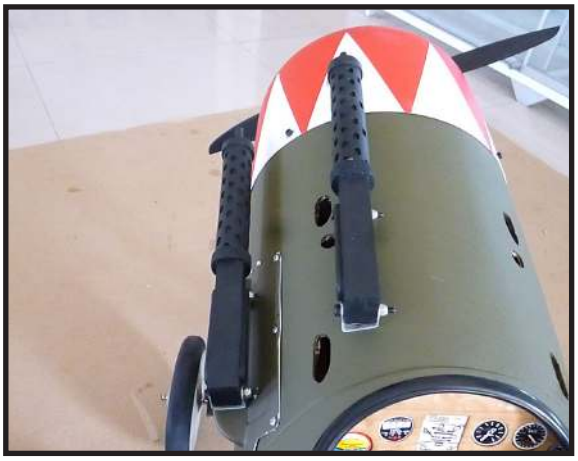
17.



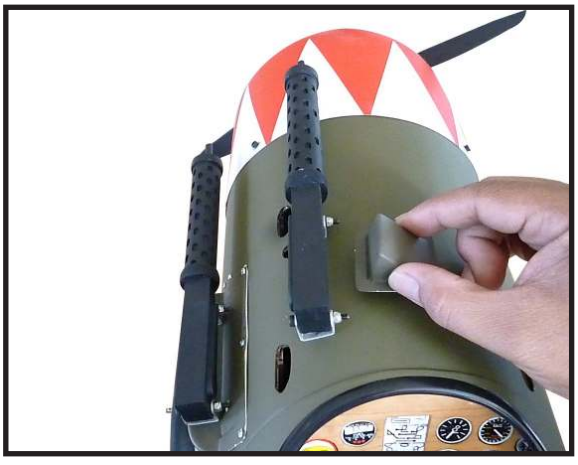
18.



19.



20.



21.



22.



23.



24.



25.



26.



27.



28.



29.



INSTALLATION PILOT AND WINDSHIELD.

1) Locate items necessary to install pilot and windshield.

1.



2) A scale pilot is included with this ARF. The Pilot included fits well in the cockpit. (or you can order others scale pilot fiures made by SG Models. They are available at SG Models distributors.)..

If you are going to install a pilot figure, please use a sanding bar to sand the base of the figure so that it is flt.

3) Position the pilot figure on the cockpit floor as shown. Use epoxy to glue the base of the pilot figure, please see pictures as shown.

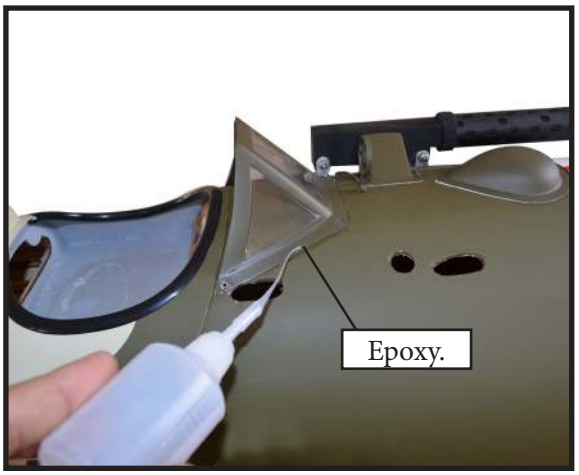
3) Position the pilot figure on the cockpit floor as shown. Use epoxy to glue the base of the pilot figure, please see pictures as shown.

4) Position the windshield onto the fuselage. Trace around the windshield onto the fuselage using a felt-tipped pen. Cut and remove the covering from between the lines drawn, and glue the windshield to the fuselage using epoxy or a special canopy glue.

2.



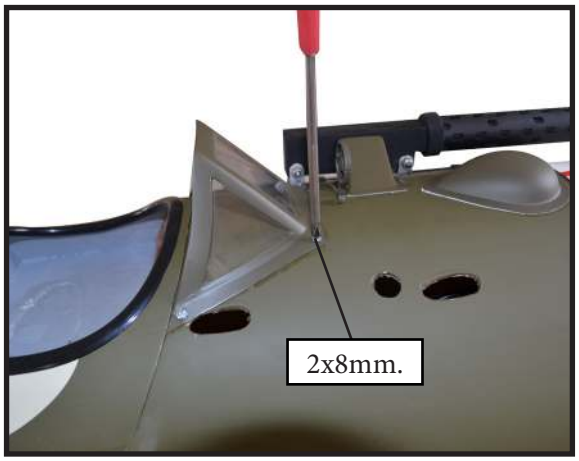
3.



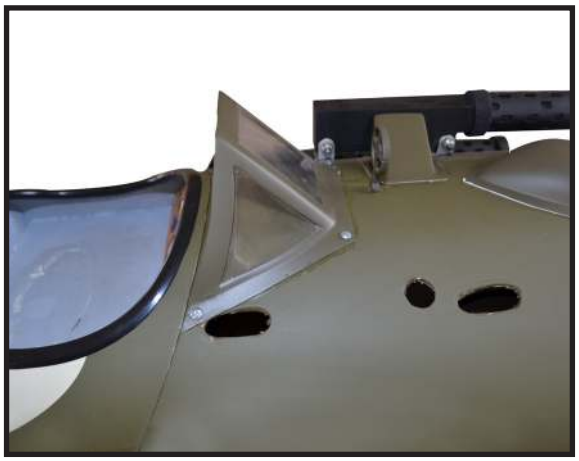
4.



5.



6.



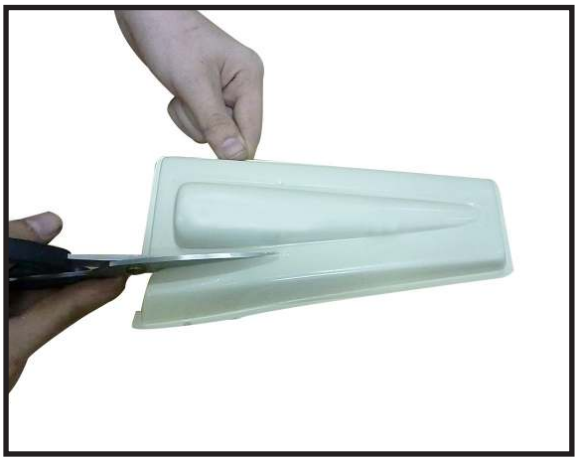
7.



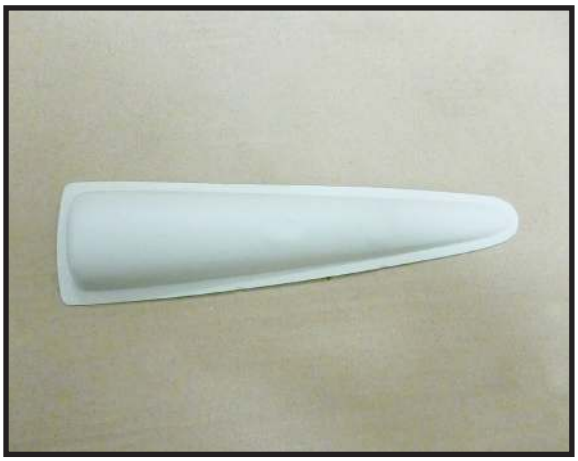
8.



9.



10.



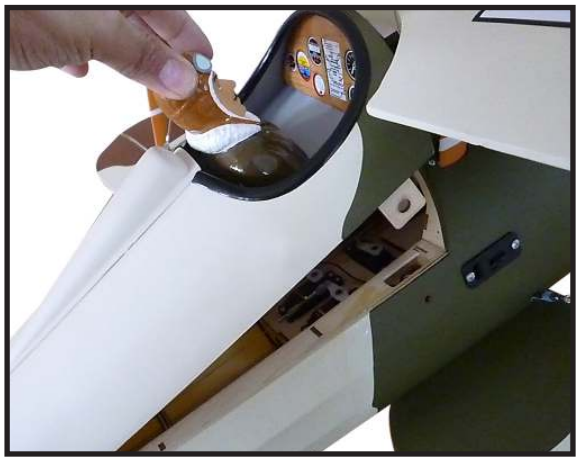
11.



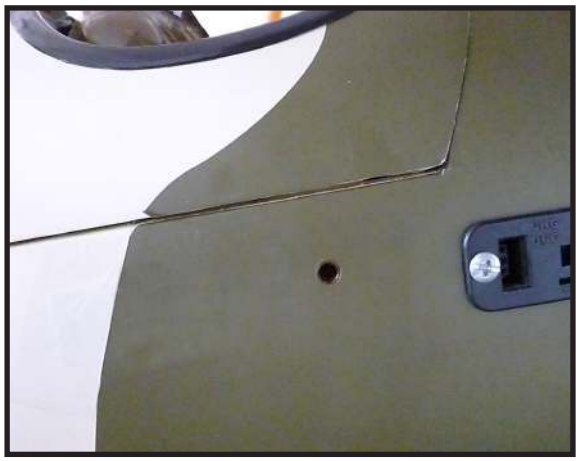
12.



13.



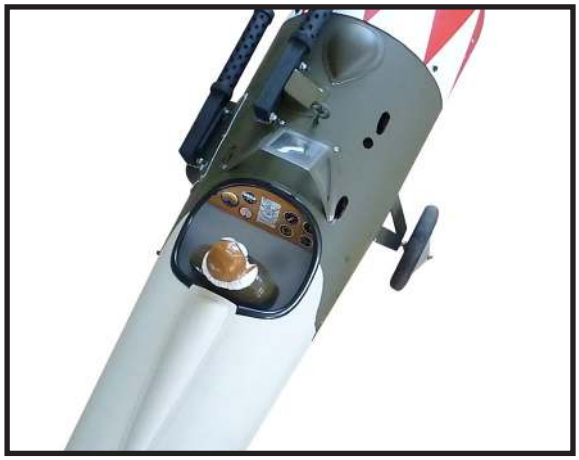
14.



15.



16.

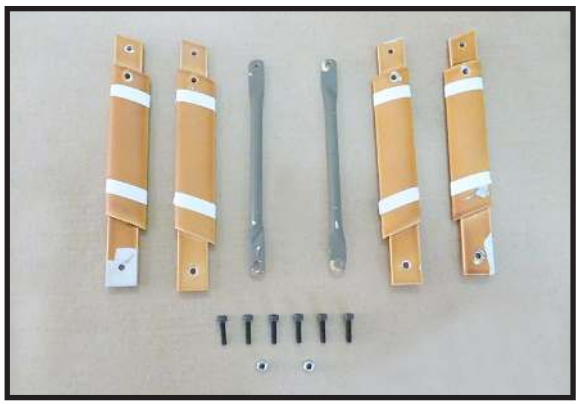


CABANE STRUT INSTALLATION.

NOTE : This is temporary steps for installing screws, so no need to tighten the screws.. The exact position of the end will be adjusted when the struts are installed..

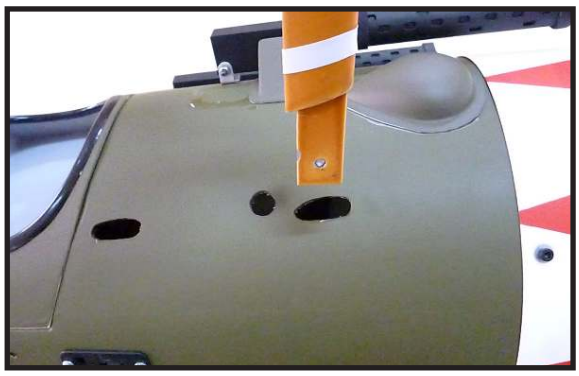
1) Locate the items for this section of the manual.

17.



2) Place the cabane struts in position, noting their position as shown in the photo. Loosely install the four M3 x 12 socket head machine screws and M3 washers. Leave the hardware loose so the struts can be positioned while installing the upper wing center rib. Make sure to use threadlock on the screws so they won't vibrate loose..

18.



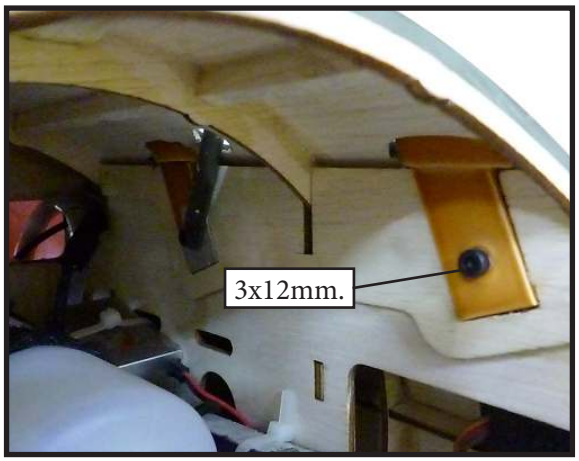
19.



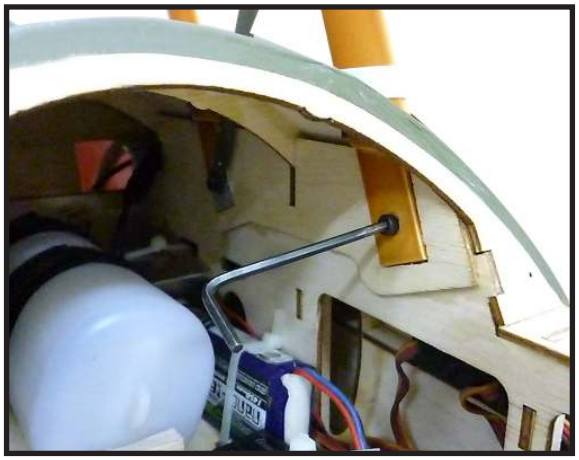
20.



21.



22.



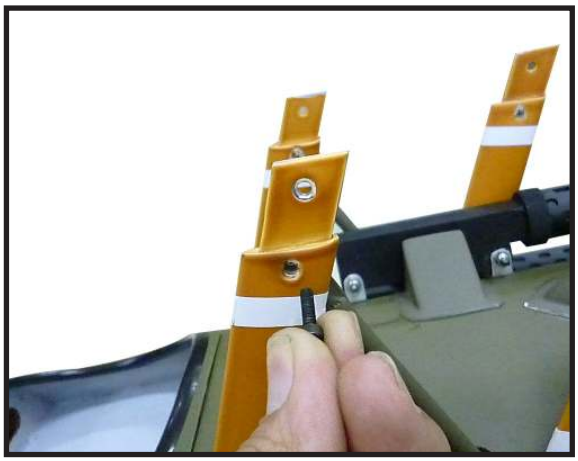
23.



24.



25.



26.



27.



28.

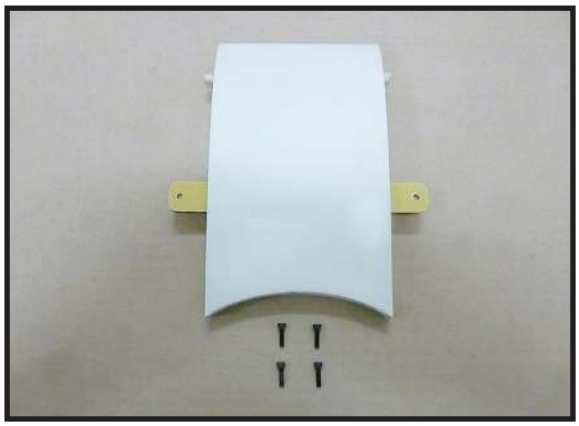


29.



3) Place the upper center wing rib in position on the cabane struts. Start the M3 x 12 socket head machine screws and M3 washers that secure the rib to the cabane struts.

30.



31.



32.



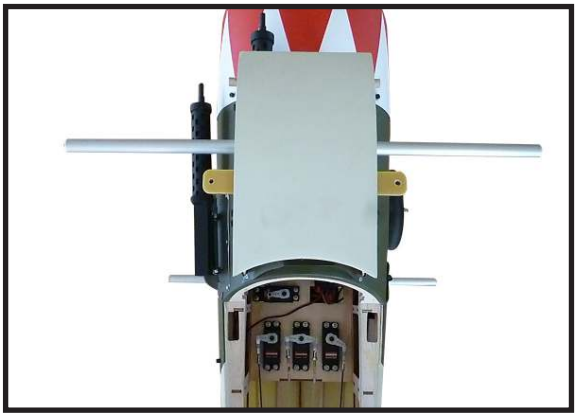
33.



ATTACHMENT WING- FUSELAGE.

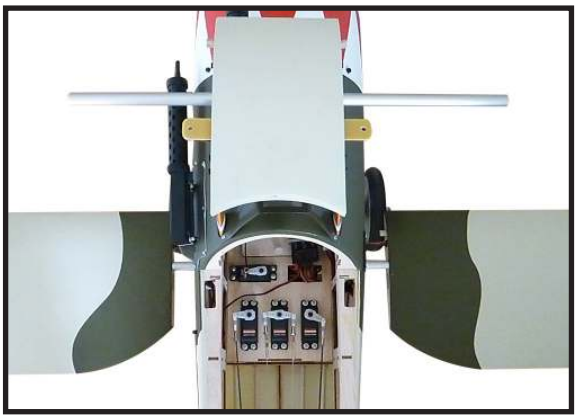
Attach the aluminium tube into fuselage.

1.

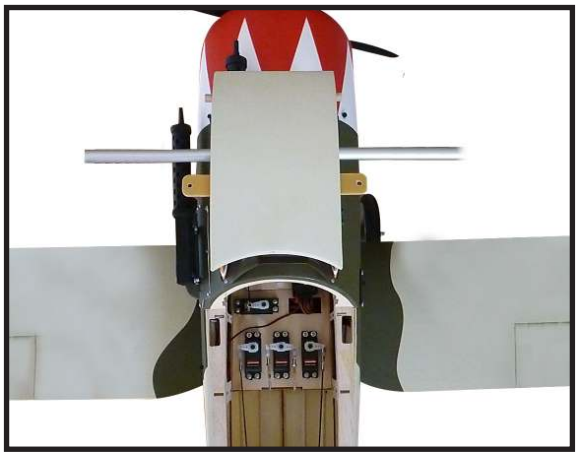


Insert two lower wing panels as pictures below..

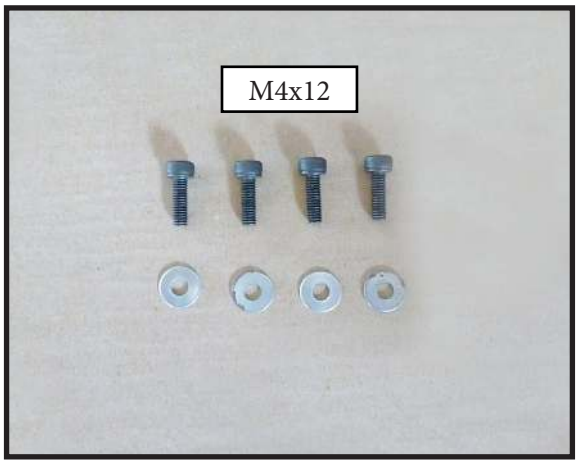
2.



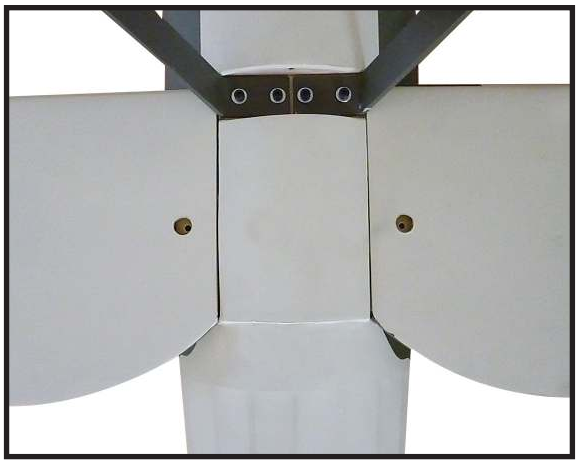
3.



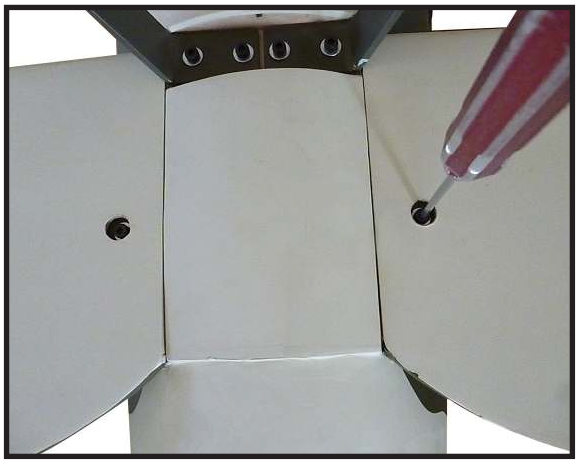
4.



5.



6.

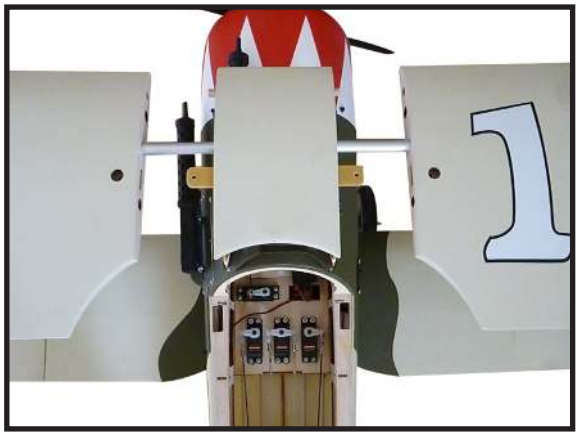


7.

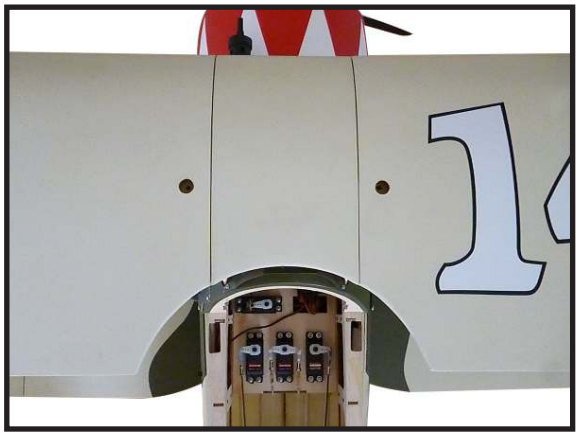


Insert two lower wing panels as pictures below..

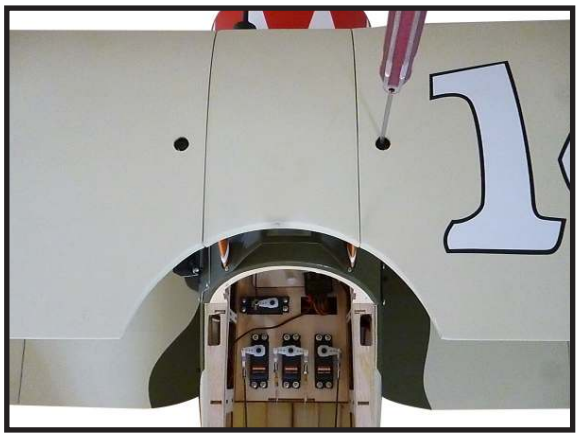
8.



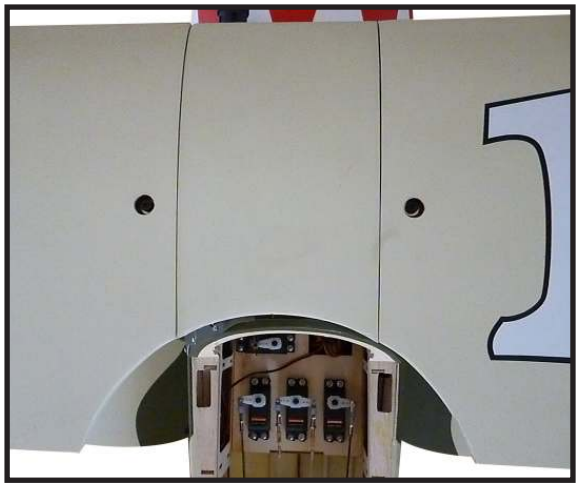
9.



10.



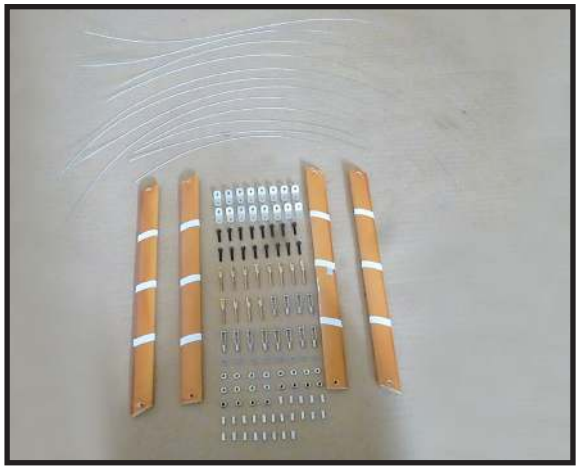
11.



INSTALLATION WING STRUTS.

1) Locate the items for this section of the manual

1.



2) Attach the two wing struts to the top of lower wing pant using an M3x12mm nachine screw and M3 washers.

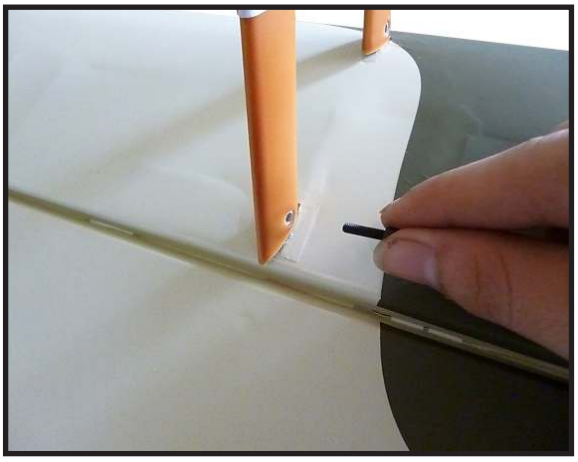
2.



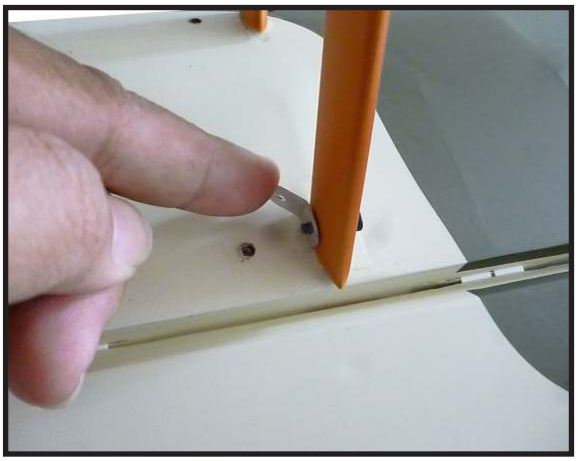
3.



4.



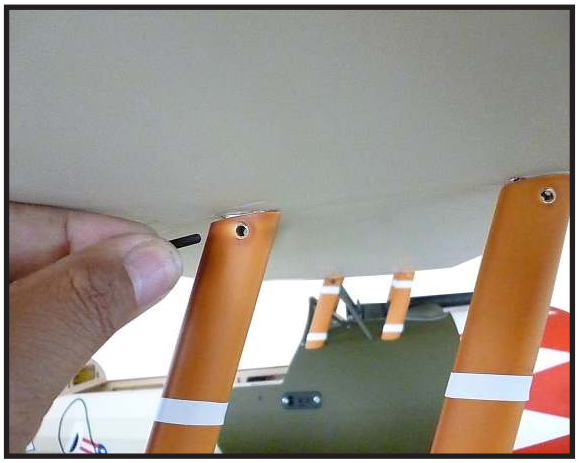
5.



6.



7.



8.



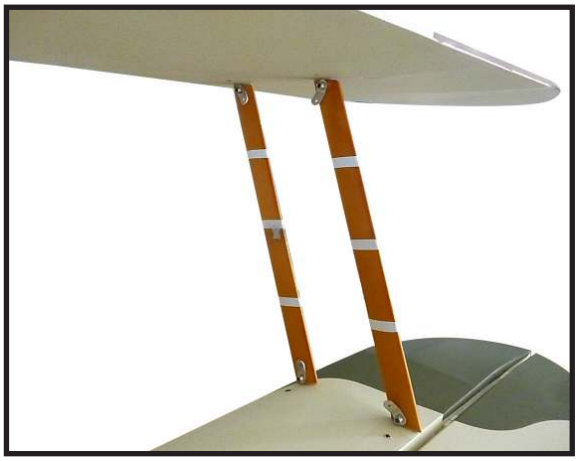
9.



10.



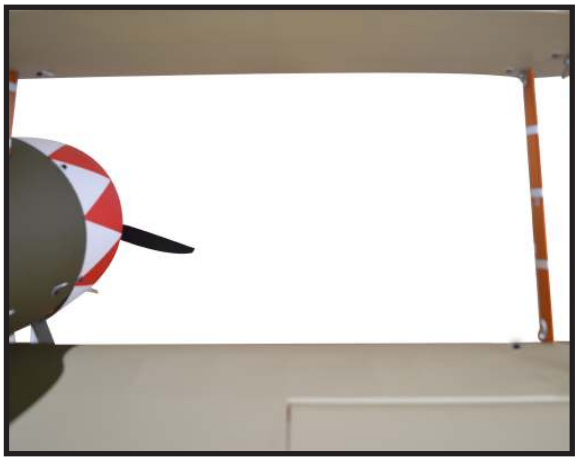
11.



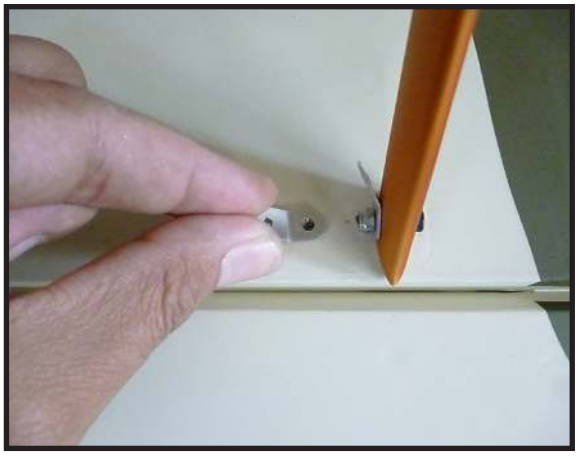
12.



13.



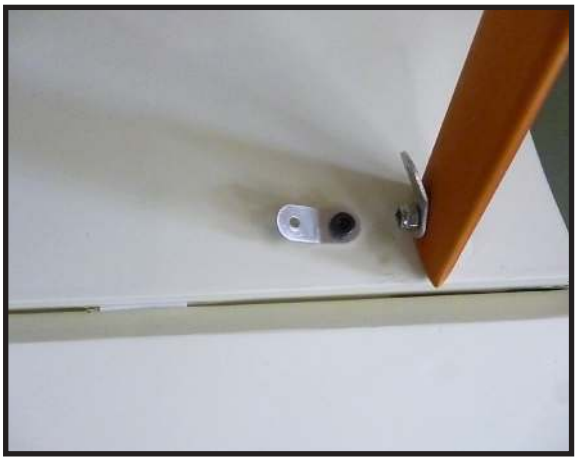
14.



15.



16.



17.



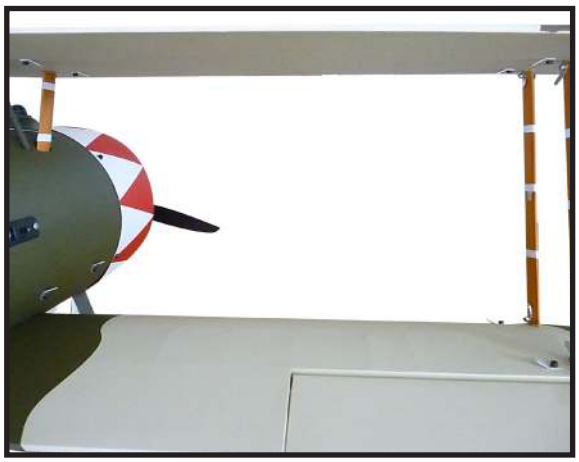
18.



19.



20.



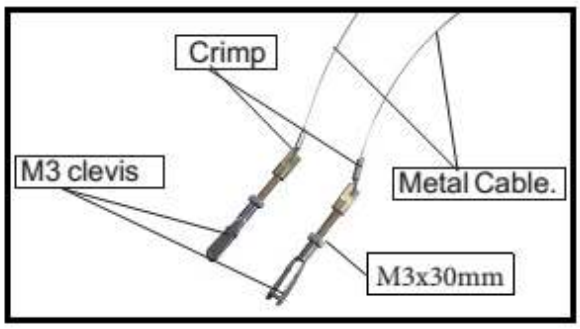
At this time, exact position of the end is set, please Use a 2.5mm hex wrench to slowly tighten the hardware securing the cabane struts in position on the fuselage. Again, make sure to use threadlock on all the fasteners to prevent them from vibrating loose

Repeat steps to prepare the remaining wing panel for installation.

INSTALLATION CABLE.

1) Prepare one end of the cable by attaching a cable end using a copper crimp. Thread a nut, then a clevis, on the cable end as shown. Prepare only one end of each cable at this time.

1.

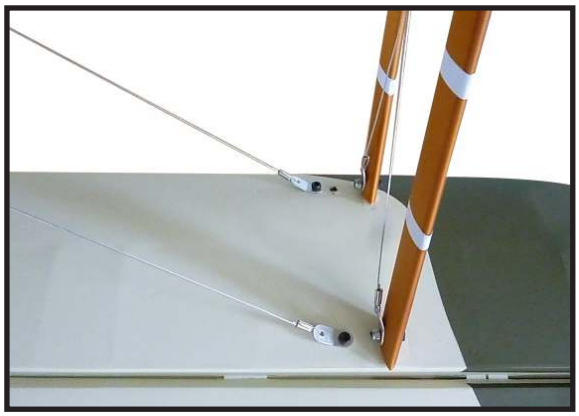


2)Attach the clevis to the brass tab next to the rear interplane strut on the upper-lower wing.Slide a copper crimp on the cable. Pass the cable through the brass tab on the upper wing, the back through the copper crimp.

2.



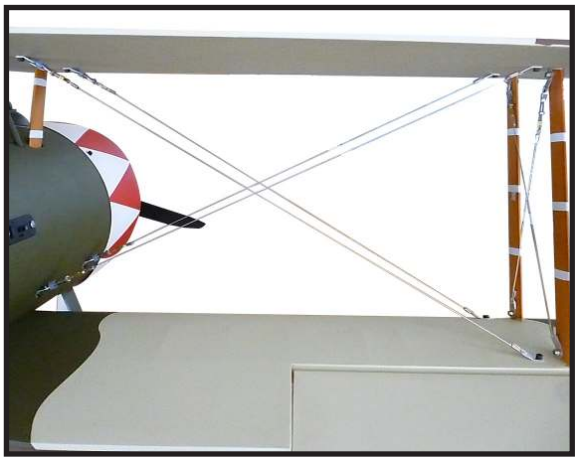
3.



4.



5.

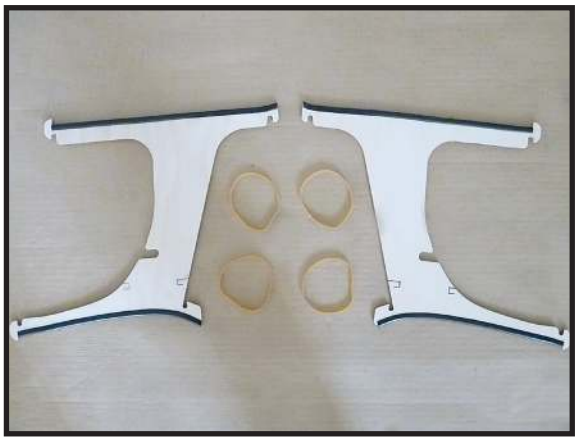


REMOVING THE WING PANELS.

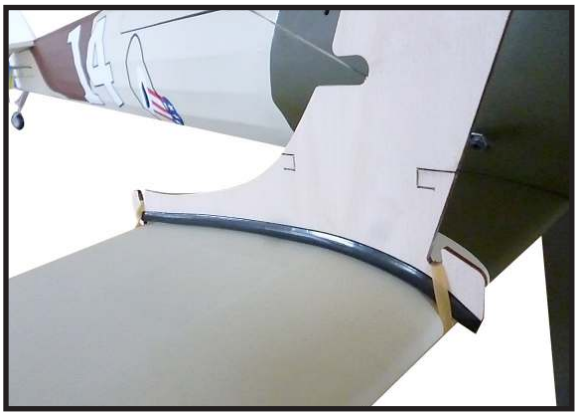
Begin placing tension on the wires, working from the ends that have been crimped to the ends that have not. There should be light tension on all the cables, but not enough to change the position of the wing. Once the cables have been tensioned, begin by securing the crimps where the cables pass through the tabs near the fuselage. Then secure the crimps at the cable ends. Once tensioned, use side cutters to trim the excess cable.

1) Locate the wing transport frames and rubber bands. Slide the frames between the top and the bottom wing as shown. Use a rubber band to hold the frame to the top and bottom wing.

1.



2.



3.



2) Use a 2.5mm hex wrench to remove the screws that attach the panels to the fuselage and center section. Slide the panels from the tubes and disconnect the servo lead for the aileron servo.

4.



5.



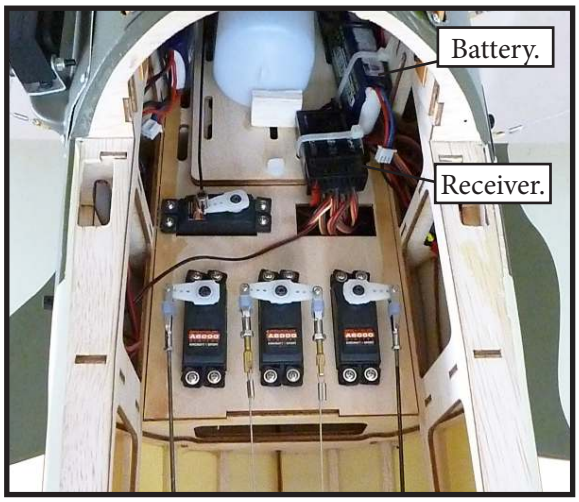
Using the transport frames allow the removal of the wings without the need to remove the aileron linkage and the interplane strut between the top and bottom wings.

INSTALLING THE BATTERY-RECEIVER.

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

2) Wrap the receiver and battery pack in the protective foam rubber to protect them from vibration.Mount as far forward as possible.

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 figerprints 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 **100MM** 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 100mm back from the leading edge at the wing root.

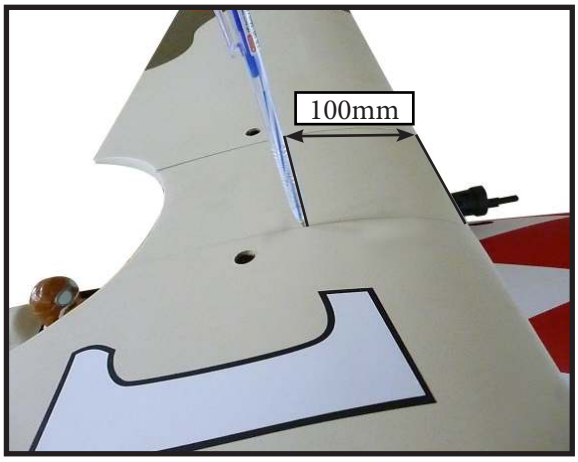
3) With the model inverted, place your fingers on the masking tape and carefully lift the plane. This is the point at which your model should balance for your first flights. Later, you may wish to experiment by shifting the balance up to 10mm forward or back to change the flying characteristics. Moving 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 wings 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.

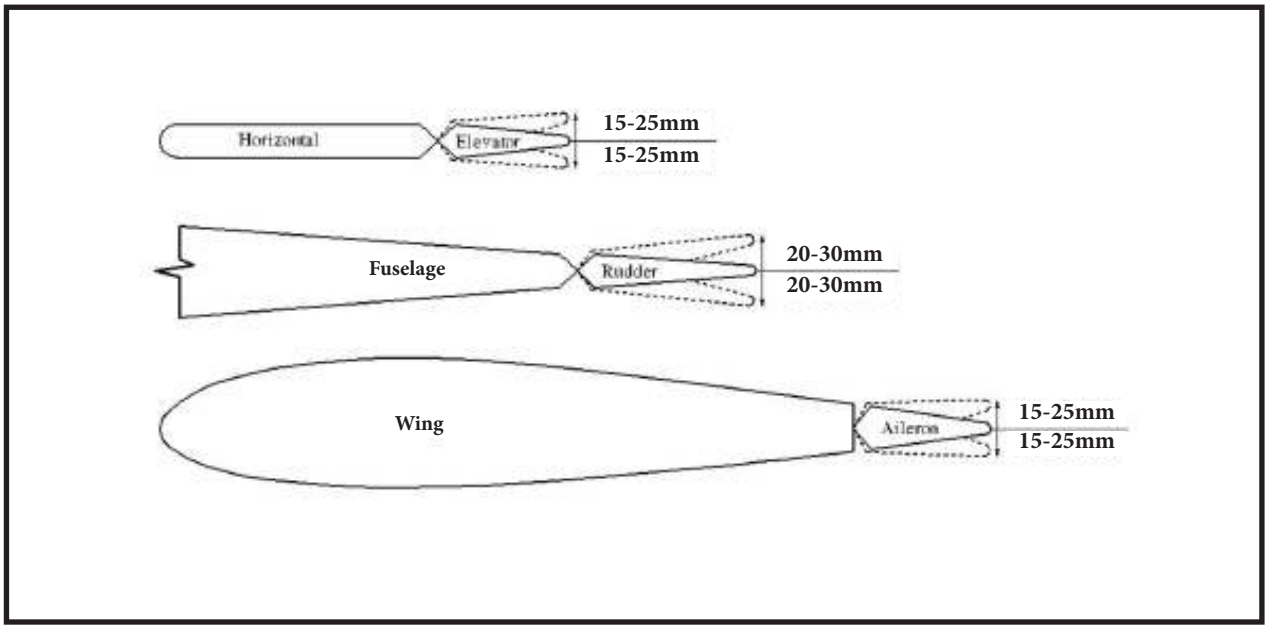


CONTROL THROWS.

Ailerons:
High Rate :
Up : 25 mm
Down : 20 mm
Low Rate :
Up : 15 mm
Down : 12 mm

Elevator:
High Rate :
Up : 25 mm
Down : 25 mm
Low Rate :
Up : 15 mm
Down : 15 mm

Rudder:
High Rate :
Right : 30 mm
Left : 30 mm
Low Rate :
Right : 20 mm
Left : 20 mm


Horizontal
Elevator
15-25mm
15-25mm
Fuselage
Rudder
20-30mm
20-30mm
Wing
Aileron
15-25mm
15-25mm

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 **NIEUPORT 28 REPLICA** 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* NIEUPORT 28 REPLICA.**

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

Factory : 12/101A - Hamlet 4 - Le Van Khuong Street - Dong Thanh Ward - Hoc Mon District - Ho Chi Minh City - Viet Nam.

Office : 62/8 Ngo Tat To Street - Ward 19 - Binh Thanh District - Ho Chi Minh City - Viet Nam

Phone : 848 - 86622289 or 848- 36018777
Website : www.SeagullModels.com
Email : Sales@seagullmodels.com
Facebook : www.facebook.com/SeaGullModels.