

Seagull de Havilland Mosquito Twin Engine RC Warbird

Code : SEA 285

ASSEMBLY MANUAL

"Graphics and specifications may change without notice".



SG SINCE
1998
MODELS

Specifications:

Wingspan----- 80.0 in (203.2 cm).
Wing area----- 957.9 sq.ins (61.8 sq.dm).
Weight----- 13.7-14.1 lbs (6.2-6.4 kg).
Length----- 58.8 in (147.2 cm).
Engine/Motor size----- 0.46-0.55 cu.in 2stroke.
Radio----- 8 channels with 10 servos.

INTRODUCTION.

Thank you for choosing the **Seagull de Havilland Mosquito Twin Engine RC Warbird** ARTF by **SG MODELS**. The **Seagull de Havilland Mosquito Twin Engine RC Warbird** 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 **Seagull de Havilland Mosquito Twin Engine RC Warbird** is simply a joy.

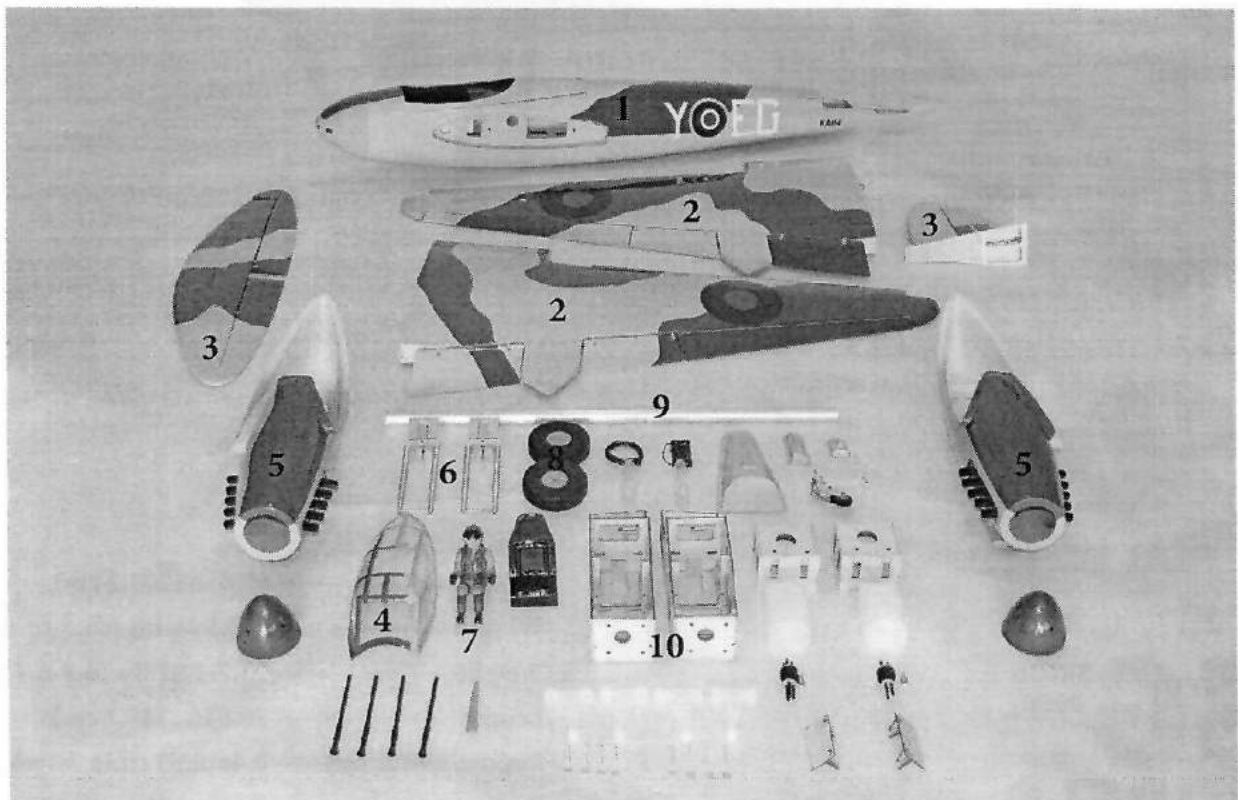
This instruction manual is designed to help you build a great flying aeroplane. Please read this manual throughly before starting assembly of your **Seagull de Havilland Mosquito Twin Engine RC Warbird** Use the parts listing below to indentify all parts.

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.

SEA285 Seagull de Havilland Mosquito Twin Engine RC Warbird

1. Fuselage
2. Wing set (2)
3. Tail set (2)
4. Canopy
5. Cowling (2)
6. landing gear
7. Pilot
8. wheel (2)
9. Aluminum wing tube
10. EP Conversion pack

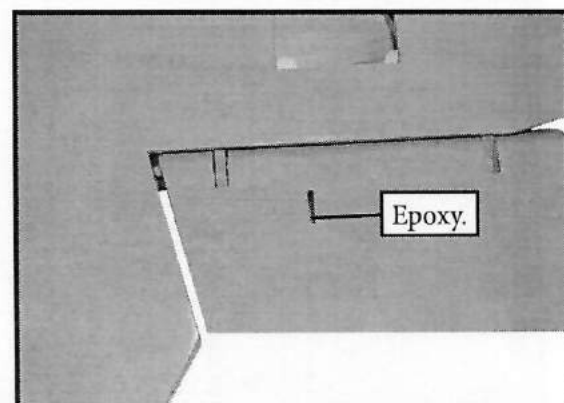
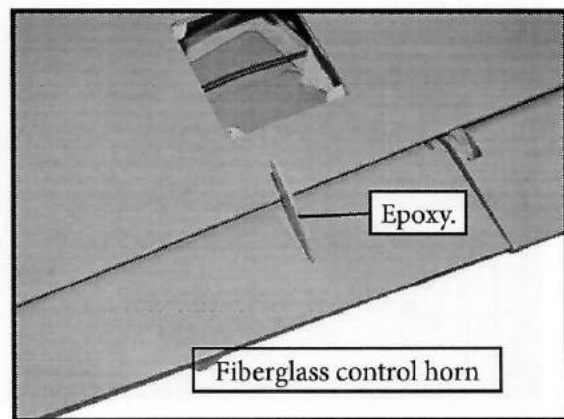
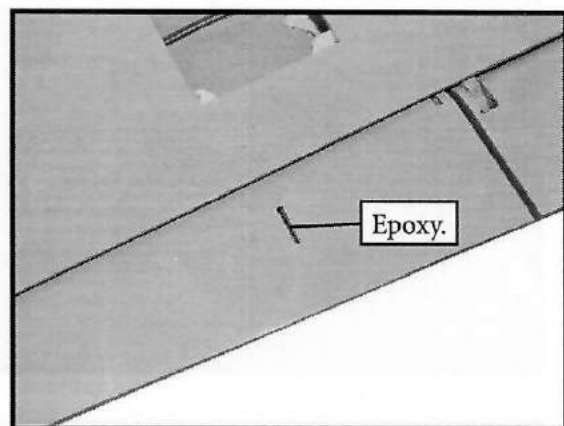
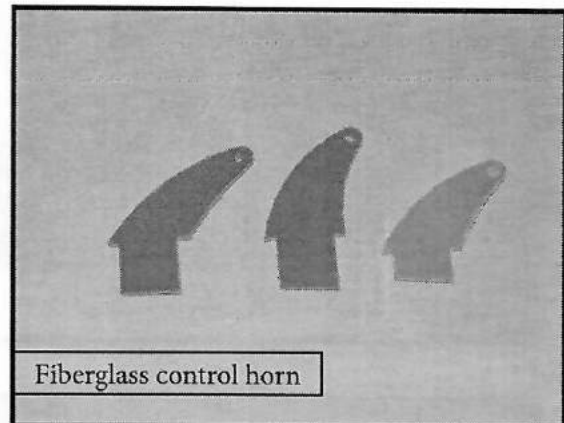
ADDITIONAL ITEMS REQUIRED.

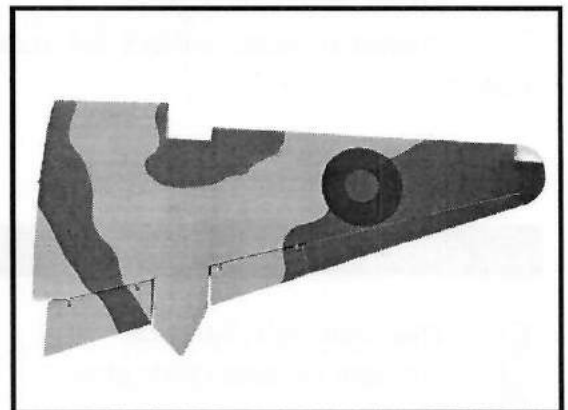
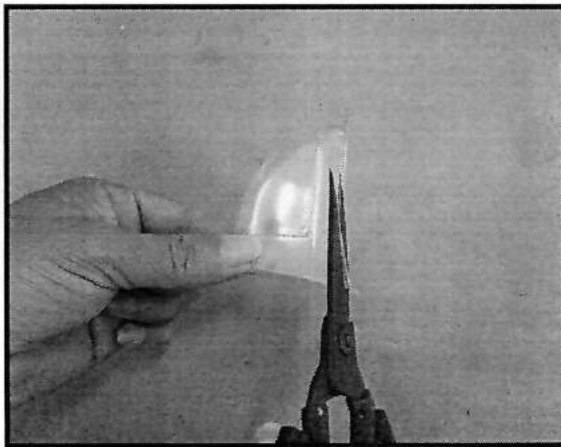
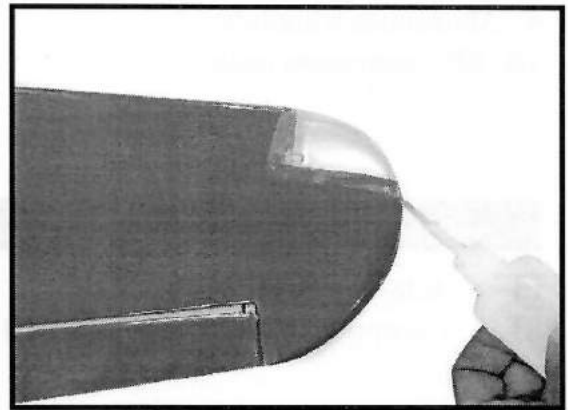
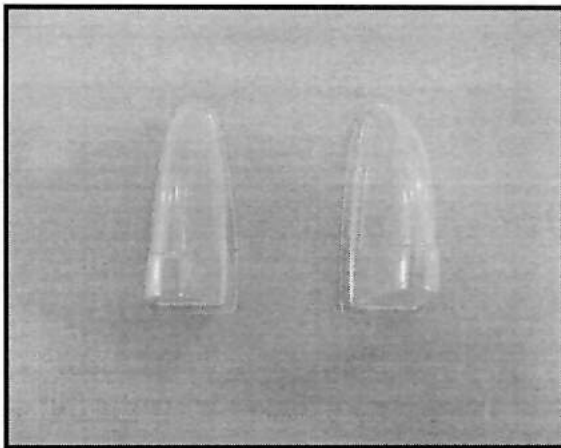
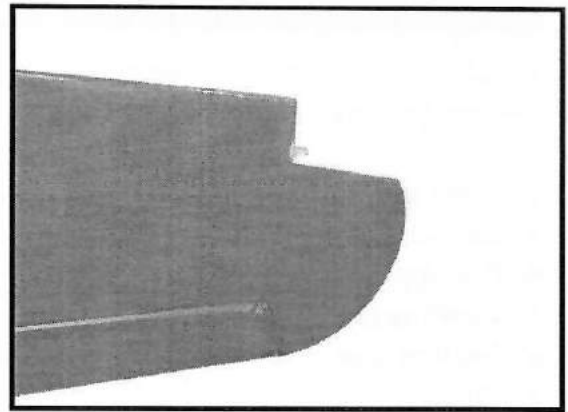
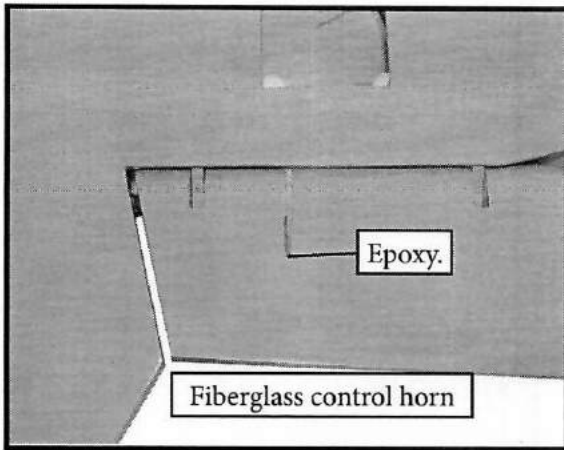
- 0.46-0.55 cu.in 2stroke.
- Computer radio 8 with chanlel 10 servos.
- Glow plug to suit engine.
- Propeller to suit engine.
- Protective foam rubber for radio system.

TOOLS & SUPPLIES NEEDED.

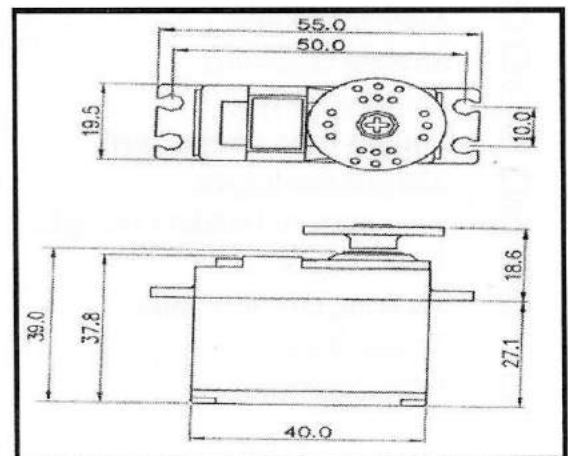
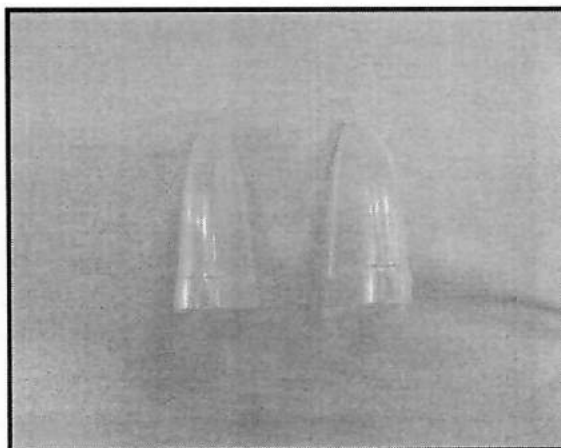
- Thin cyanoacrylate glue.
- Medium cyanoacrylate glue.
- 30 minute epoxy.
- 5 minute epoxy.
- Hand or electric drill.
- Assorted drill bits.
- Modelling knife.
- Straight edge ruler.
- 2mm ball driver.
- Phillips head screwdriver.
- 220 grit sandpaper.
- 90° square or builder's triangle.
- Wire cutters.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

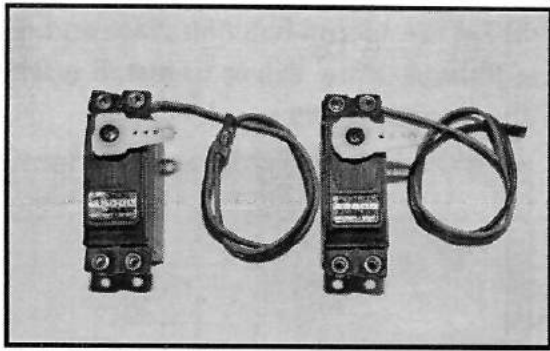
INSTALL THE AILERONS CONTROL HORN.





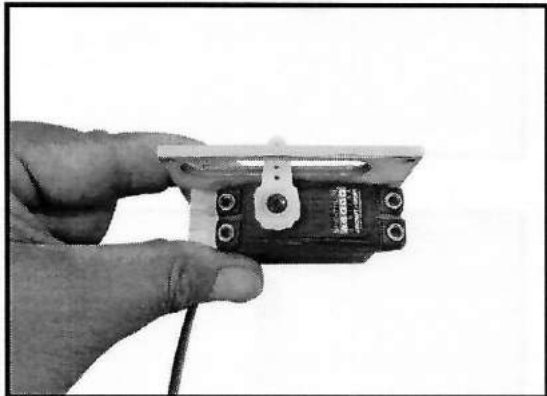
INSTALLING THE ALLERON SERVOS.



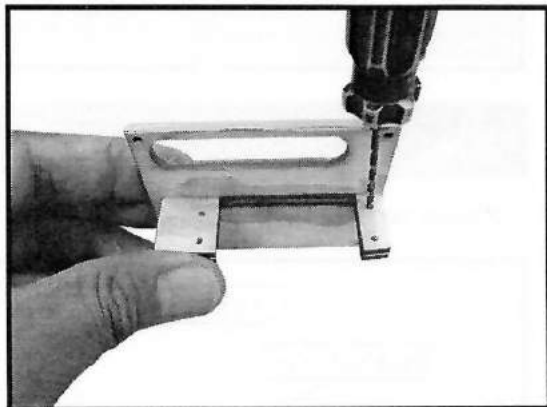


! Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

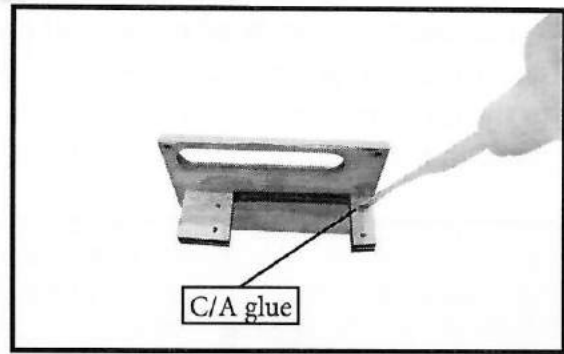
1) Place the servo between the mounting blocks and space it from the hatch. Use a pencil to mark the mounting hole locations on the blocks.



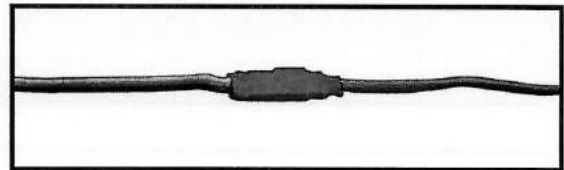
2) Use drill bit in a pin vise to drill the mounting holes in the blocks.



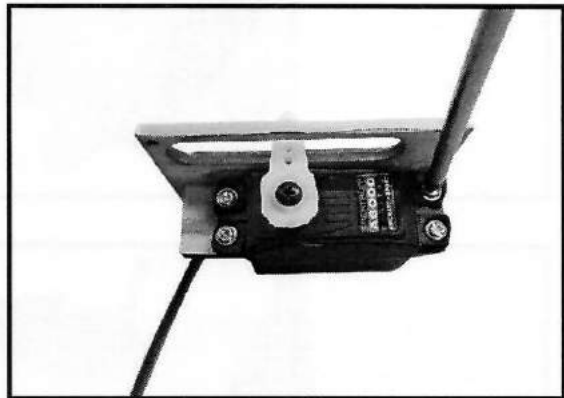
3) Apply 2-3 drops of thin C/A to each of the mounting holes. Allow the C/A to cure without using accelerator.



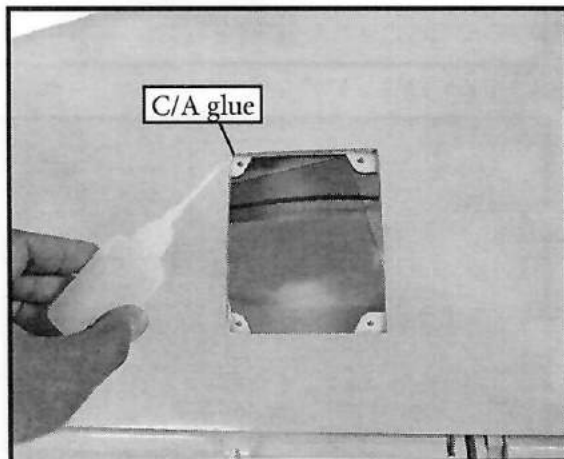
4) Use dental floss to secure the connection so they cannot become unplugged.



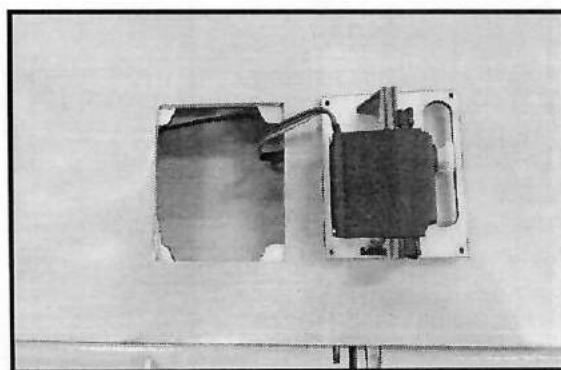
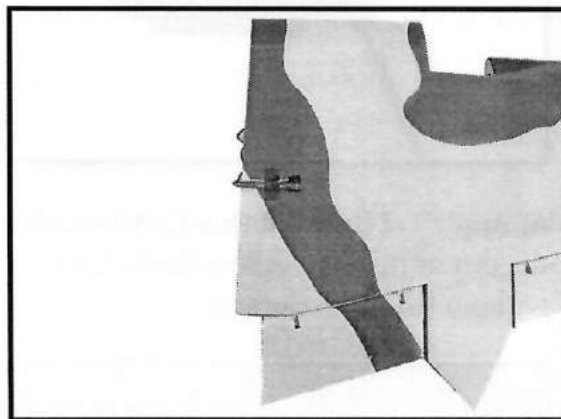
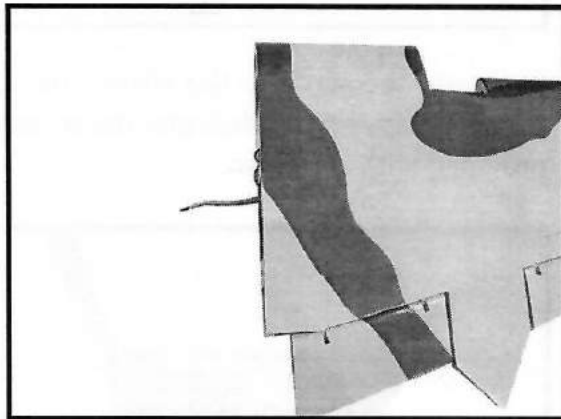
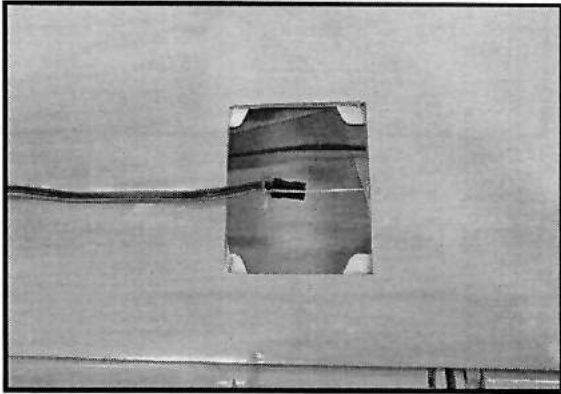
5) Secure the servo to the aileron hatch using Phillips screwdriver and the screws provided with the servo.



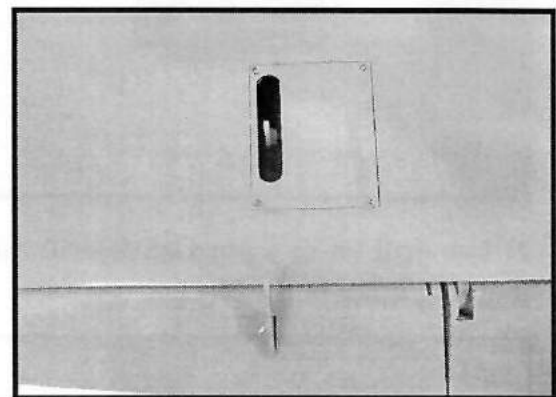
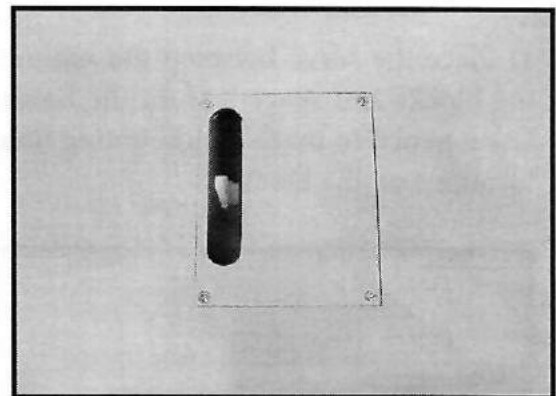
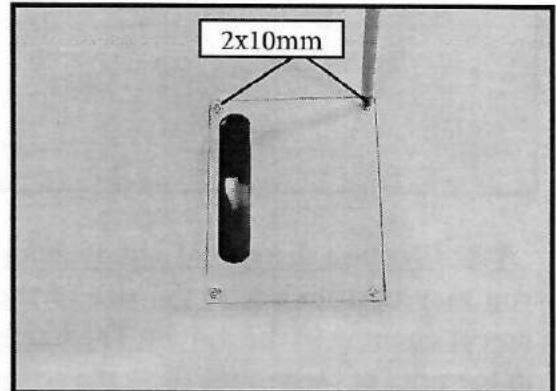
6) Apply 1-2 drops of thin C/A to each of the mounting tabs. Allow the C/A to cure without using accelerator.



7) 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.

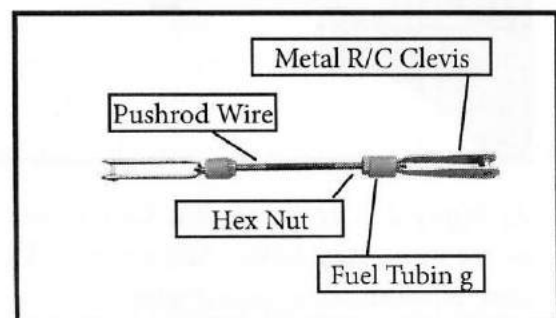


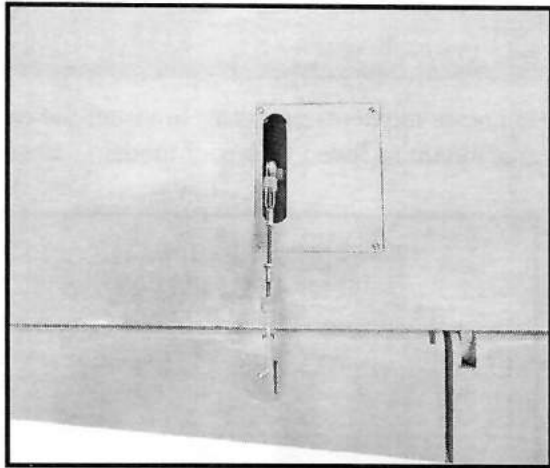
8) Set the aileron hatch in place and use a Phillips screw driver to install it with four wood screws.



AILERON PUSHROD INSTALLATION.

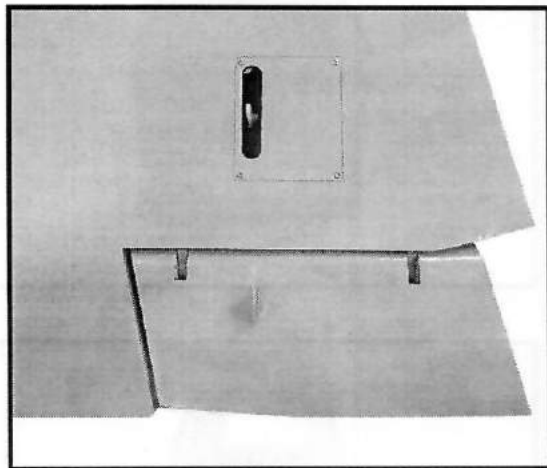
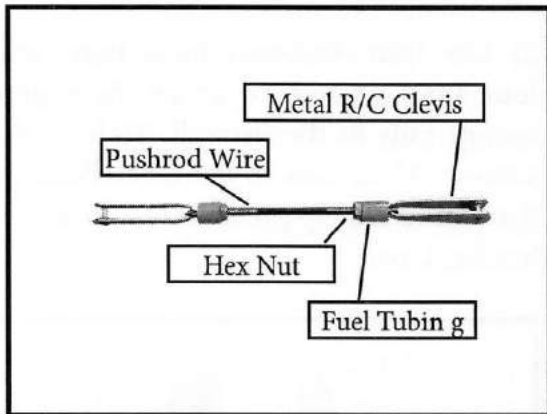
Please see below pictures.





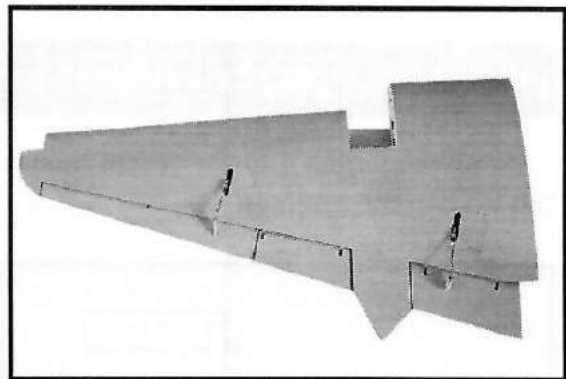
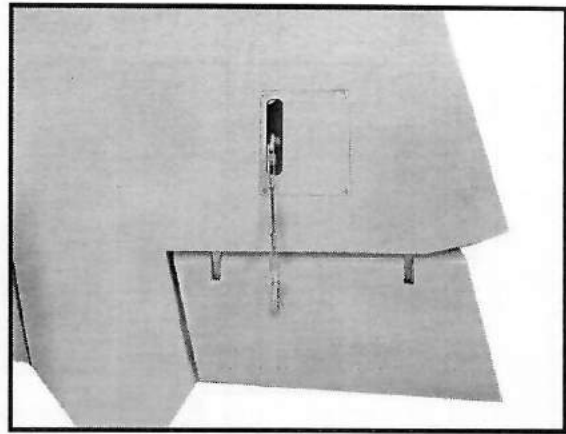
INSTALLING THE FLAP SERVO.

Repeat the procedure for the flap servo.



INSTALLING THE FLAP PUSHROD.

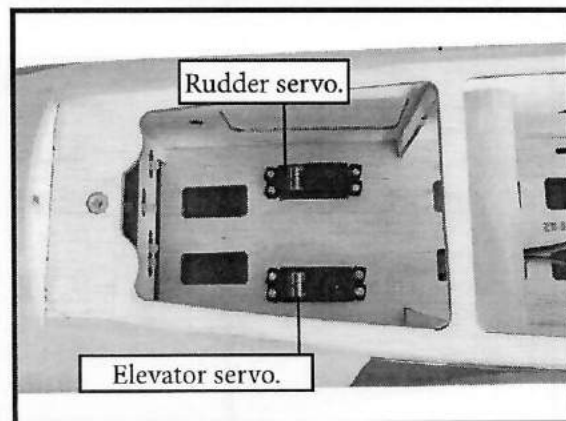
Repeat the procedure for the aileron pushrod.

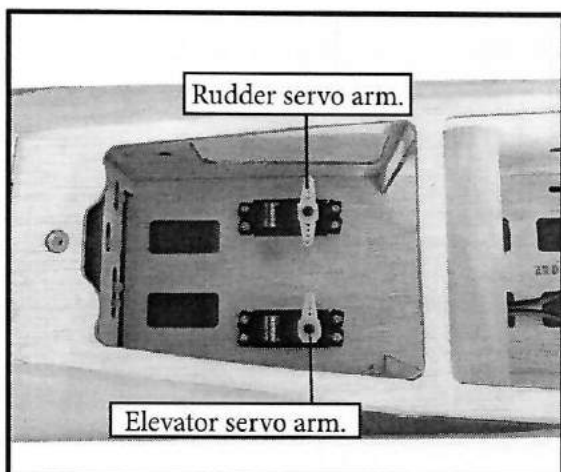


INSTALLING THE FUSELAGE SERVOS.

! 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.

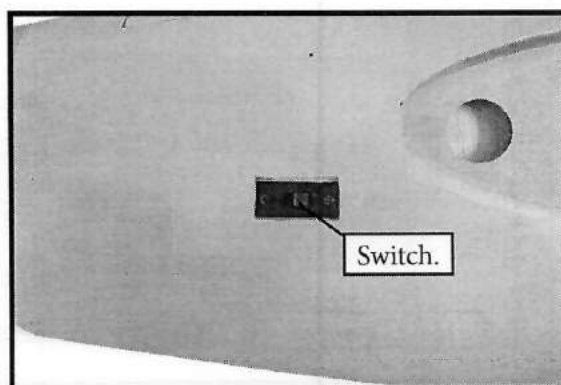
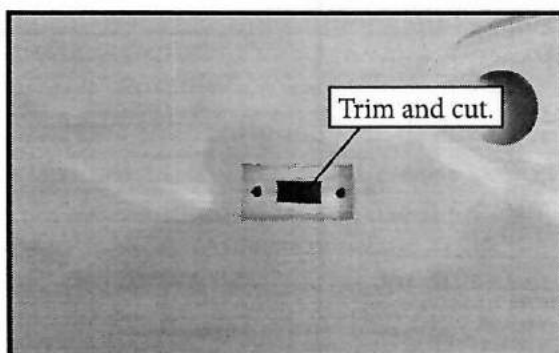
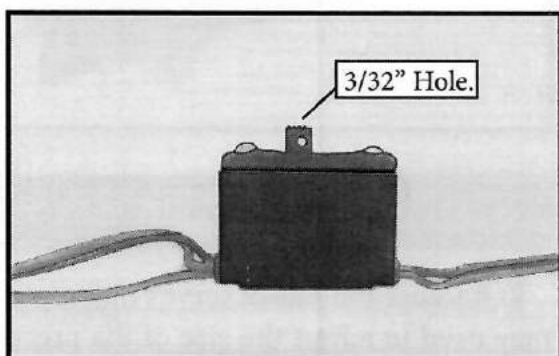
- 1) Install the rubber grommets and brass collets into all servos. Test fit the servos into the fuselage servo mounts.
- 2) Secure the servos with the screws provided with your radio system.





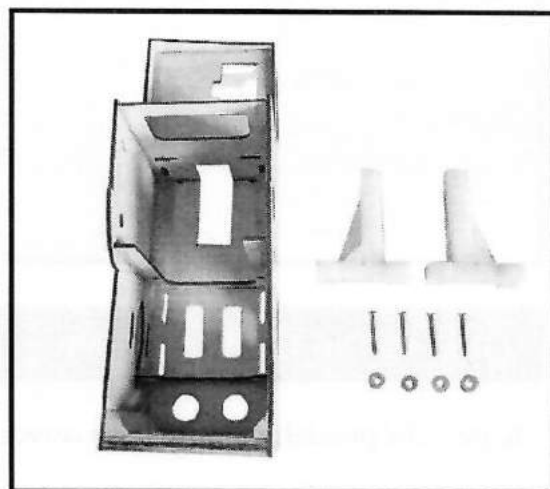
INSTALLING THE RECEIVER SWITCH.

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

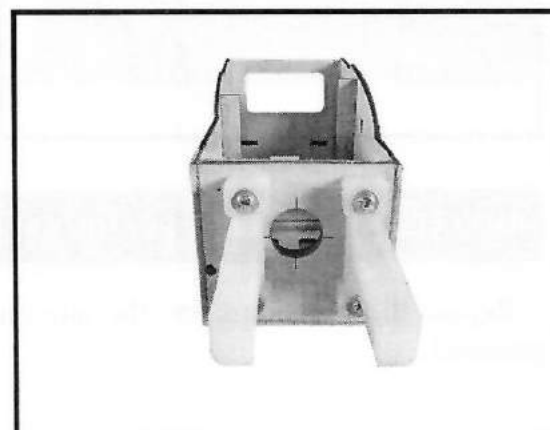
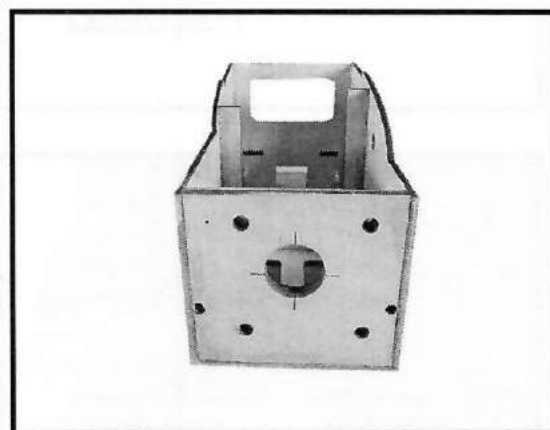


ENGINE MOUNT INSTALLATION

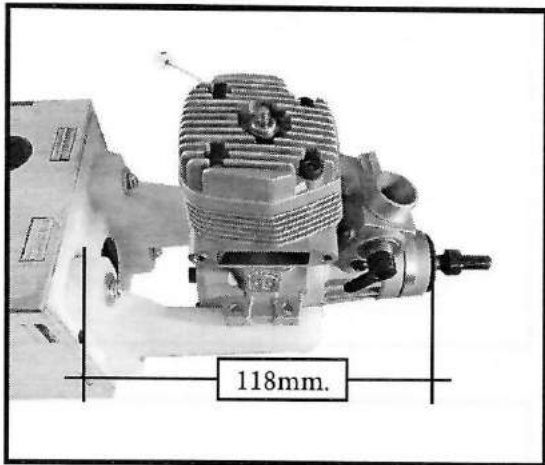
1) Locate the items necessary to install the engine mount included with your model



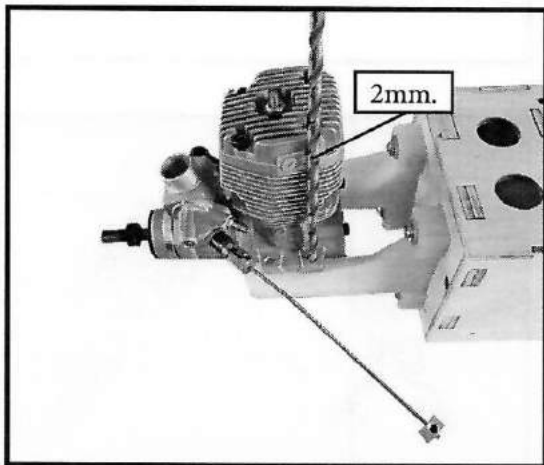
2) Use four 4x20mm head bolts and four 4mm washers to attach the engine mount rails to the firewall. Tighten the screws. Make sure to use threadlock on the screws to help prevent them from vibrating loose



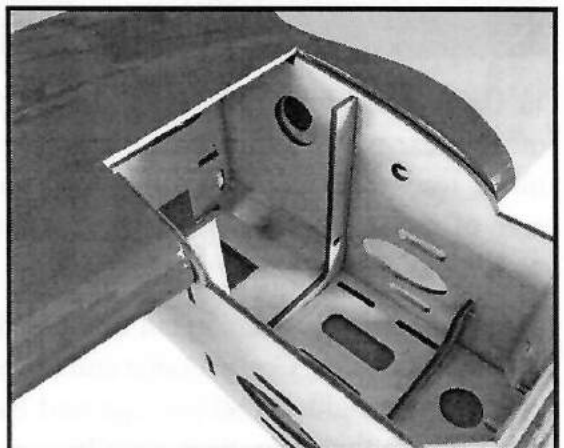
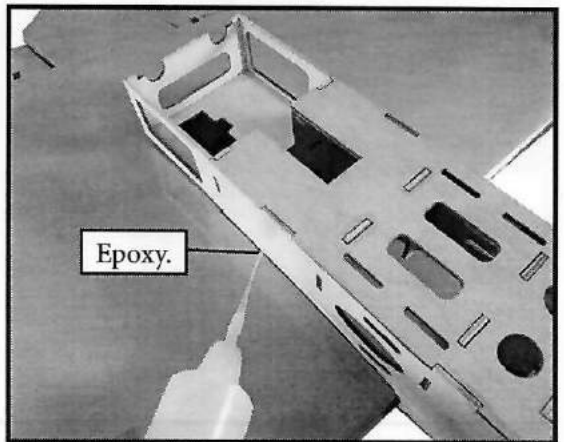
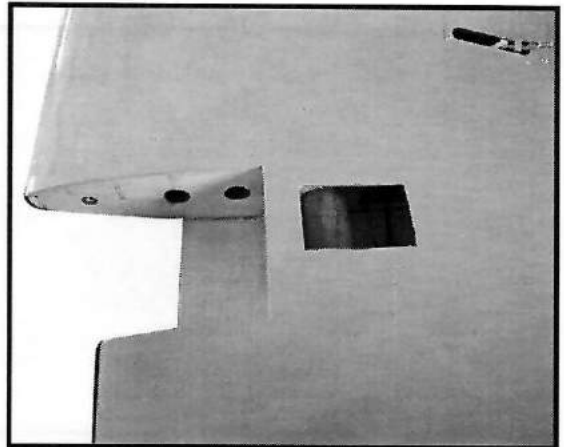
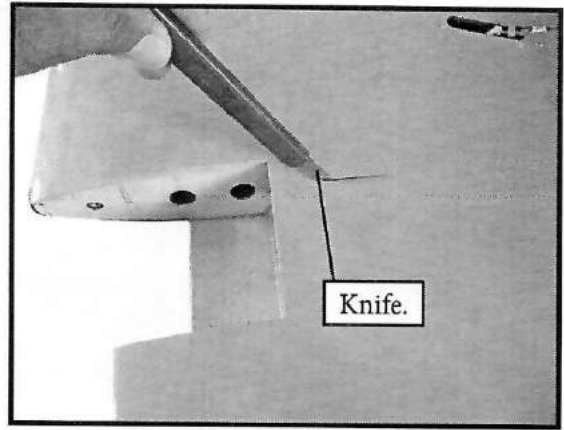
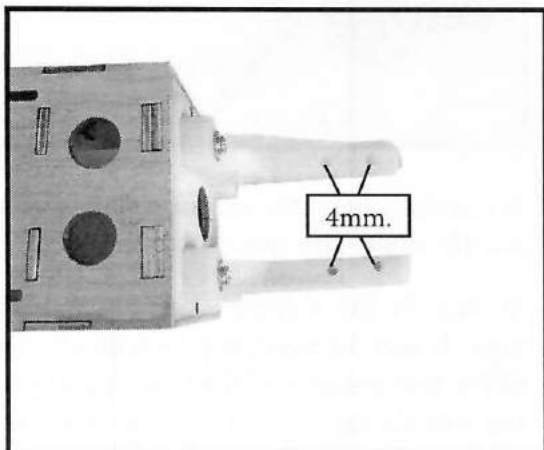
1) Position the engine with the drive washer (118mm) forward of the firewall as shown.

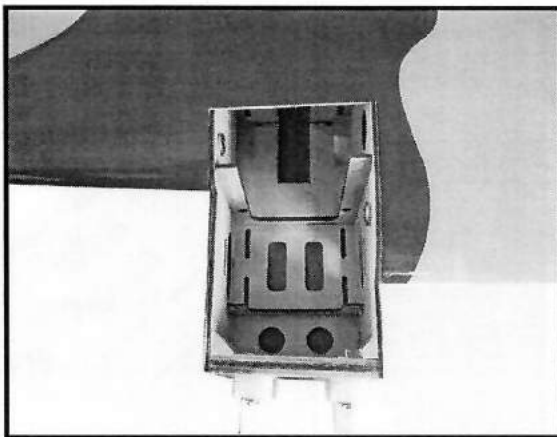
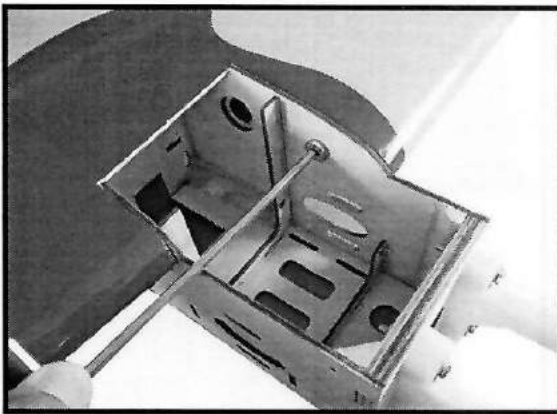
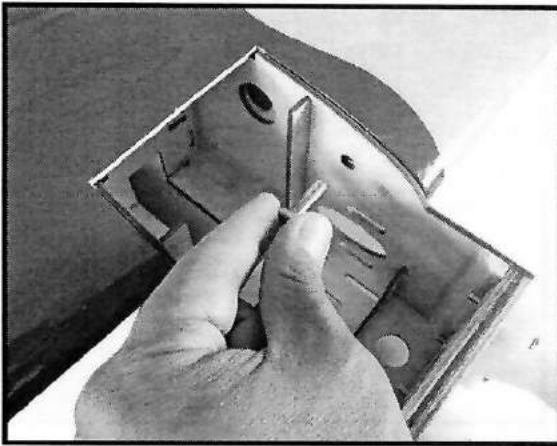


2) Use a pin drill and 2mm drill bit to drill a small indentation in the mount for the engine mounting screw.



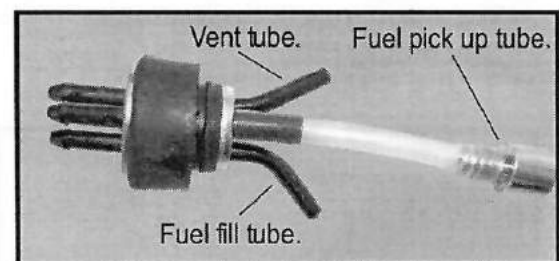
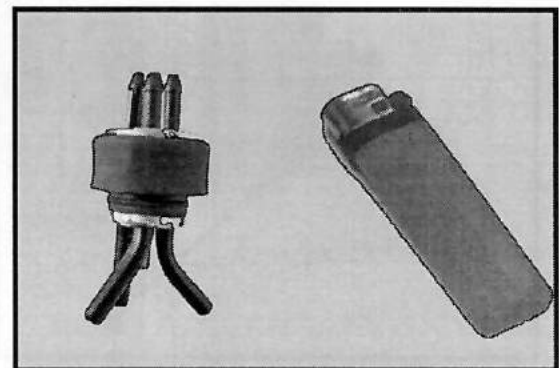
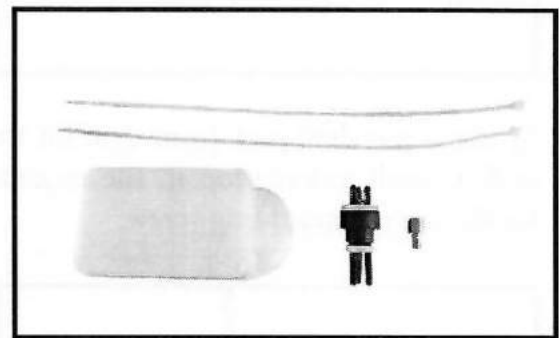
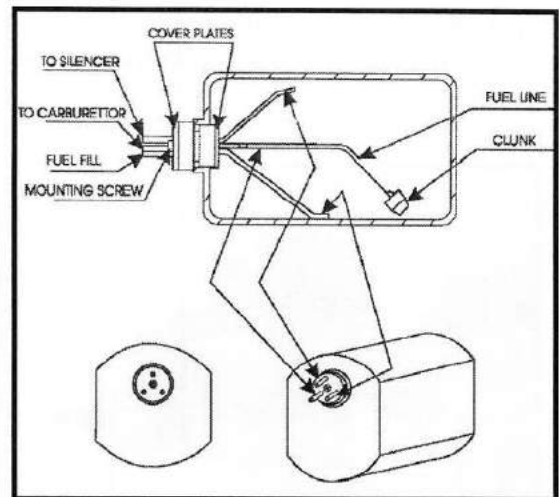
3) Use a drill to drill the four holes in the engine mount rails





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.

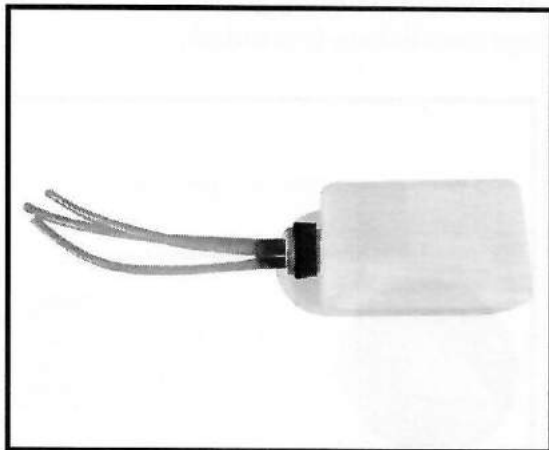


- 3) Carefully bend the second nylon tube up at a 45° angle. This tube is the vent tube.
- 4) Test fit the stopper assembly into the tank. It may be necessary to remove some of the flashing around the tank opening using a modeling knife. If flashing is present, make sure none falls into the tank.

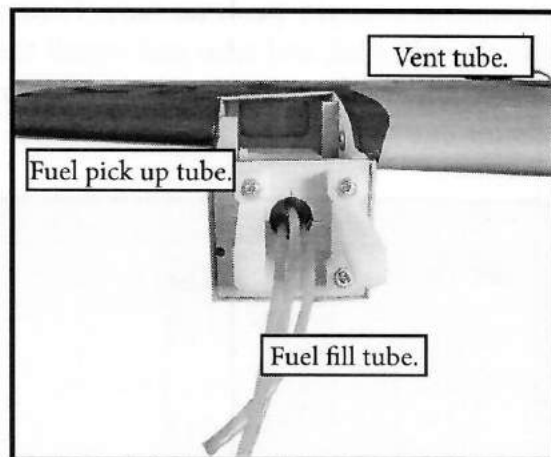
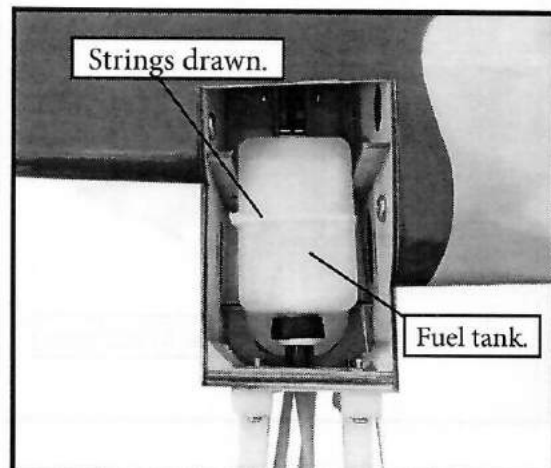
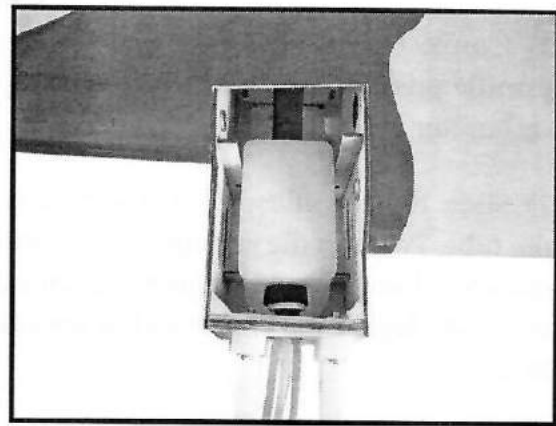
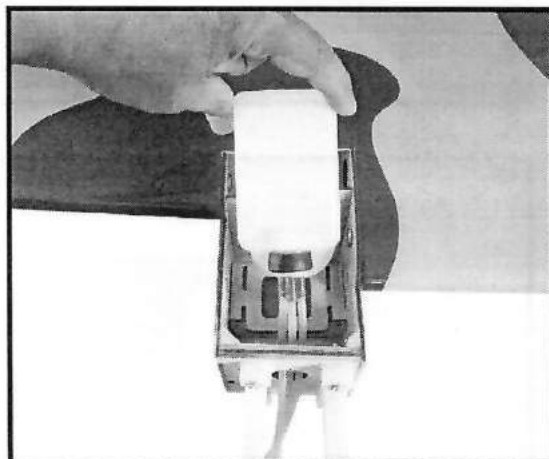
5) With the stopper assembly in place, the weighted pick-up should rest away from the rear of the tank and move freely inside the tank. The top of the vent tube should rest just below the top of the tank. It should not touch the top of the tank.

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.



⚠ *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.*



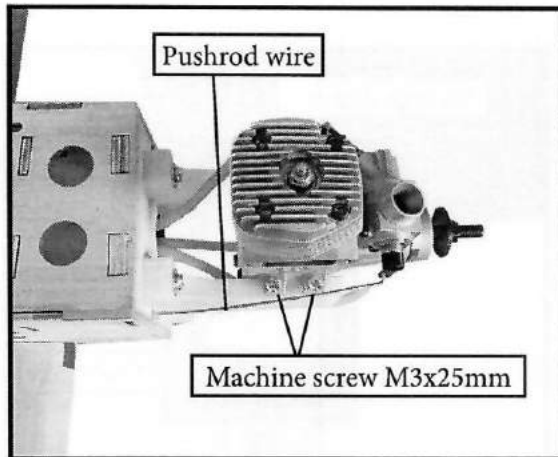
⚠ Blow through one of the lines to ensure the fuel lines have not become kinked inside the fuel tank compartment. Air should flow through easily.

MOUNTING THE ENGINE.

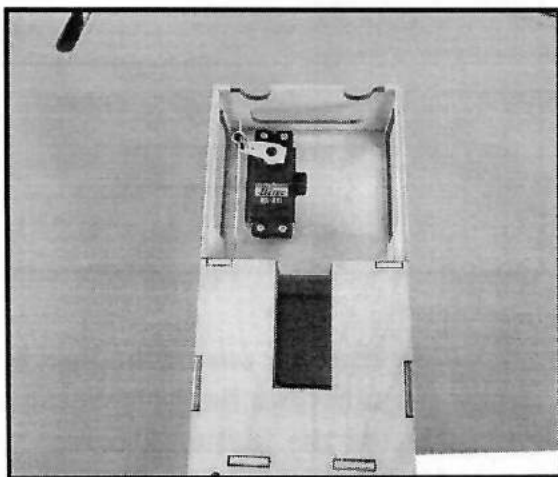
+ ENGINE .46- .55 : 2 STROKE.

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

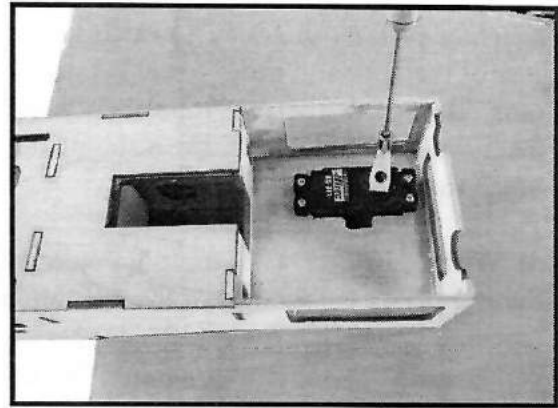
2) Slide the throttle pushrod wire into the tube. Position the engine between the mounts. Use four M3x25mm machine screws to secure the engine to the mount as shown.



3) 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

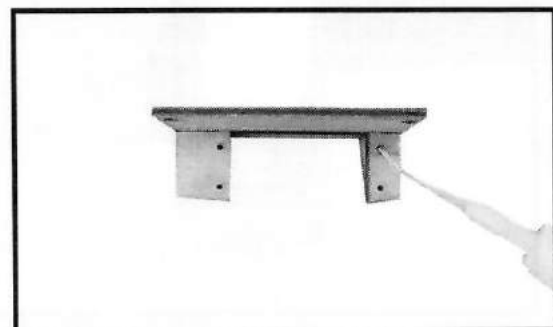
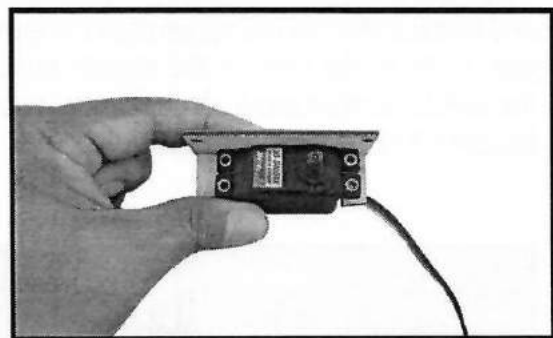
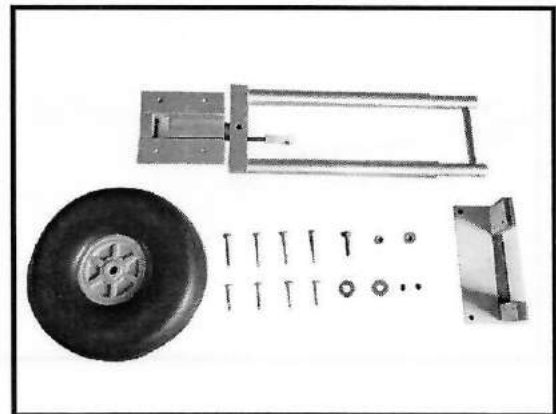


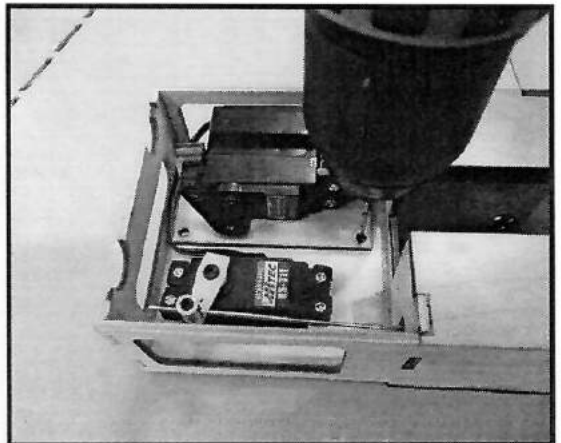
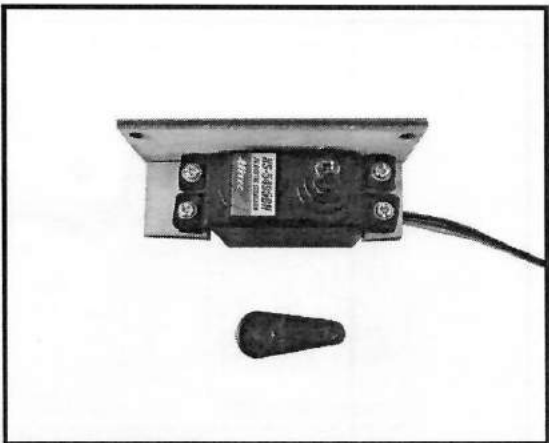
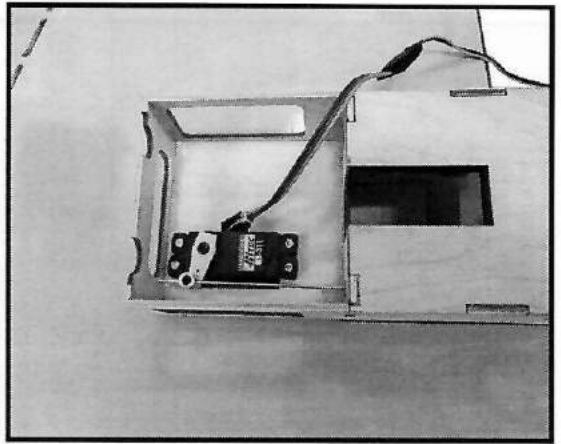
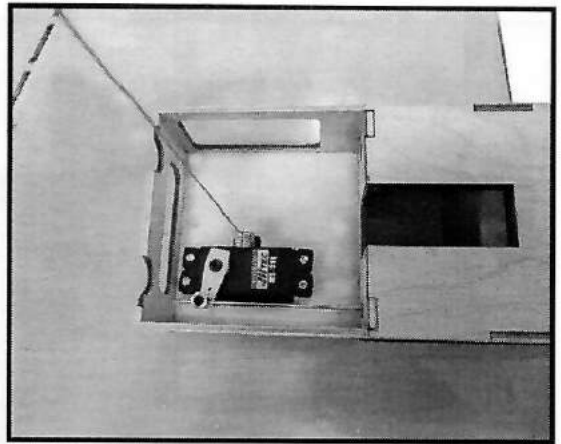
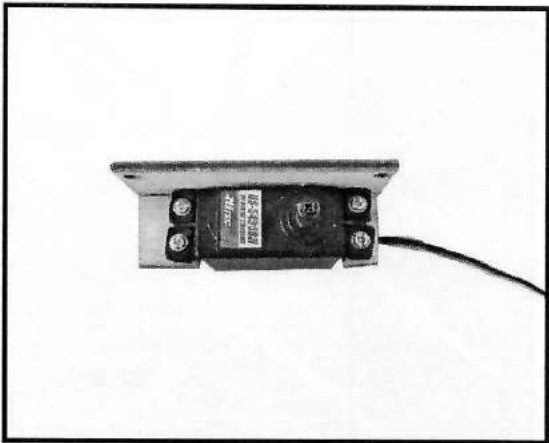
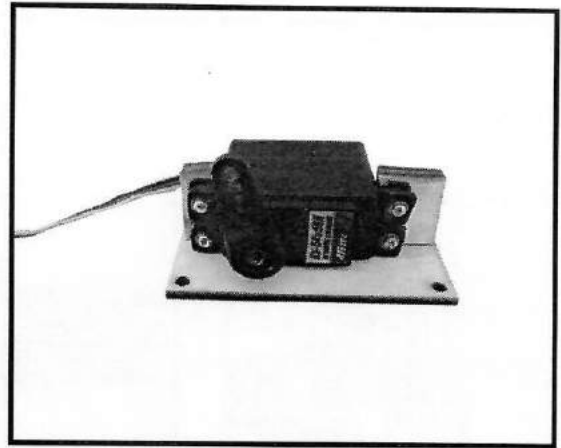
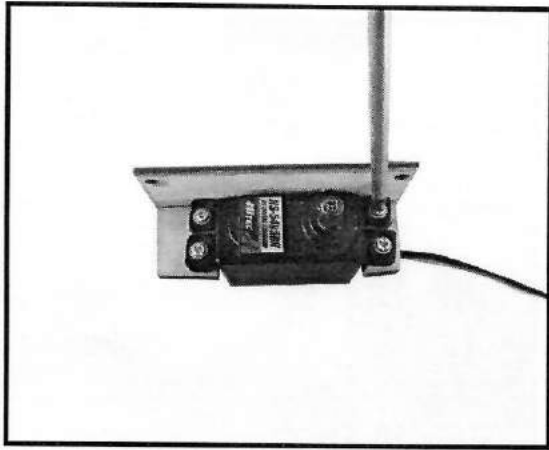
4) Move the throttle stick to the closed position and move the carburetor to closed. Use a 2.5mm hex wrench to tighten the screw that secures the throttle pushrod wire. Make sure to use threadlock on the screw so it does not vibrate loose.

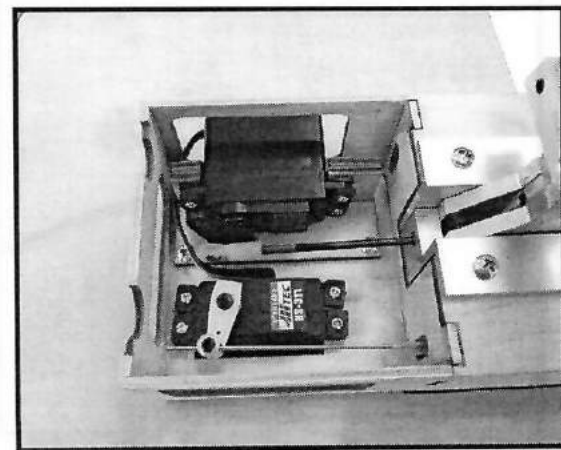
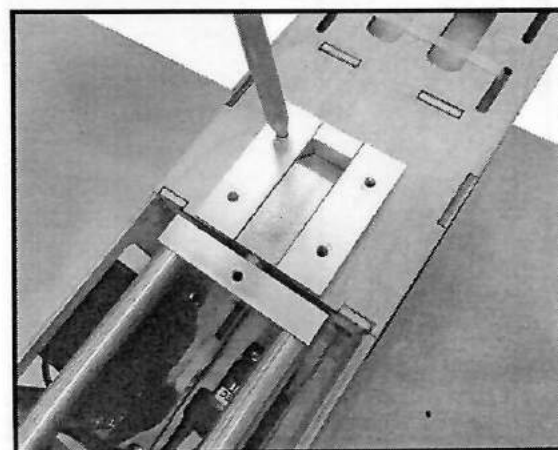
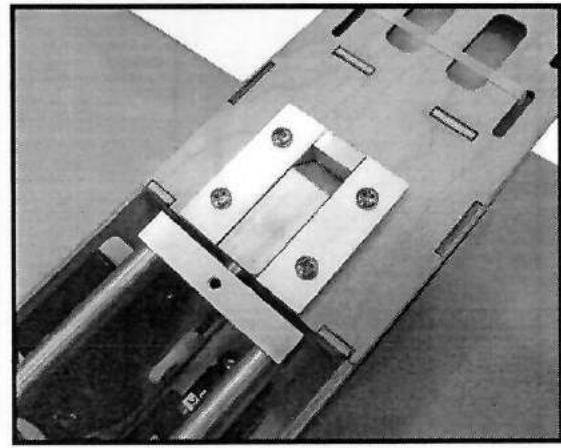
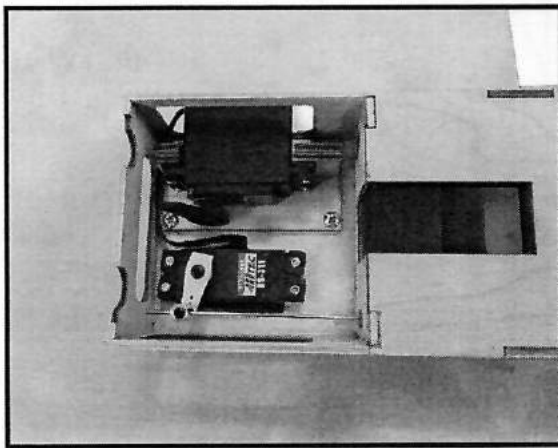
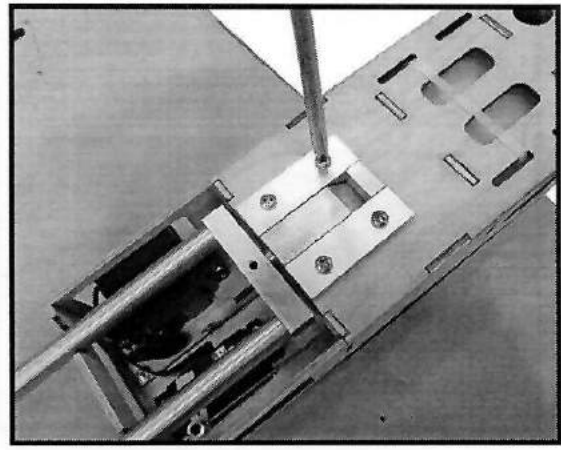
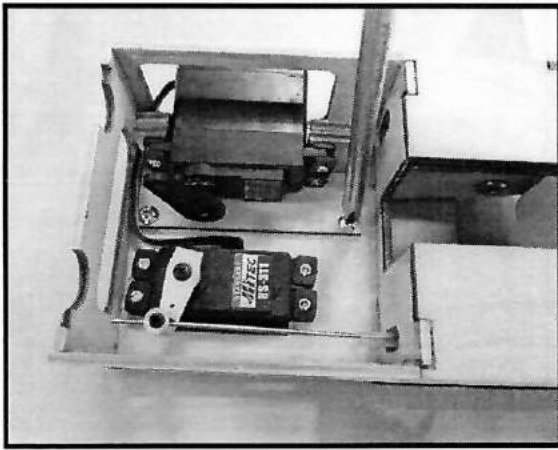
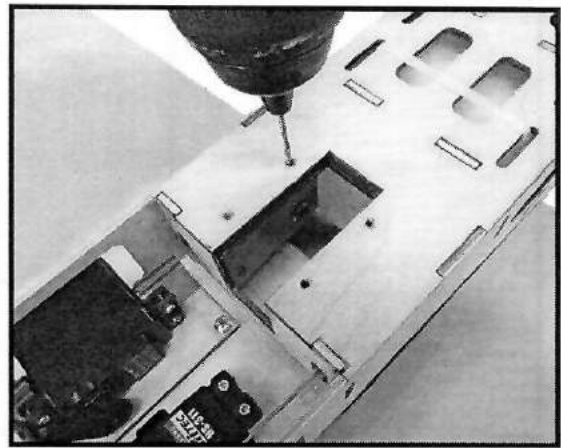
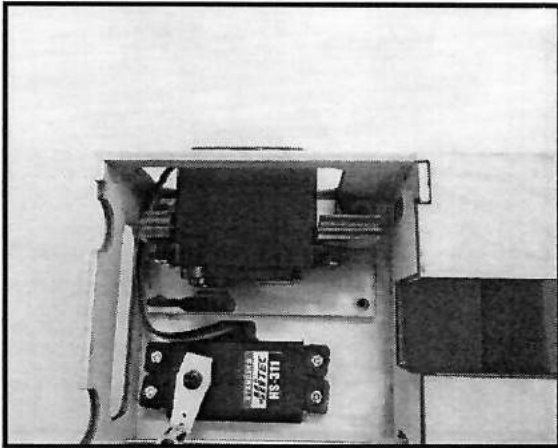


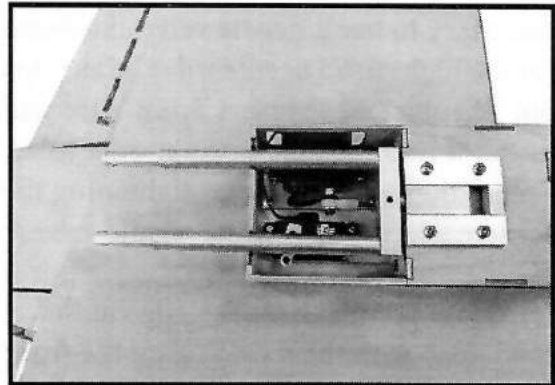
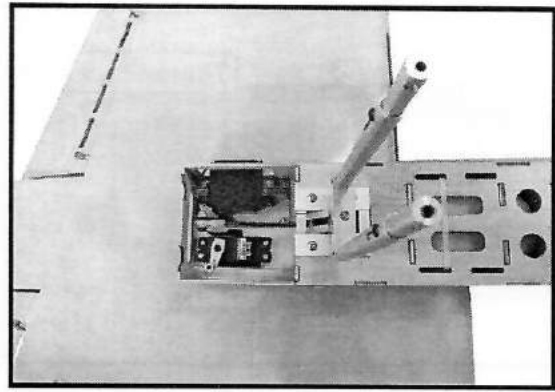
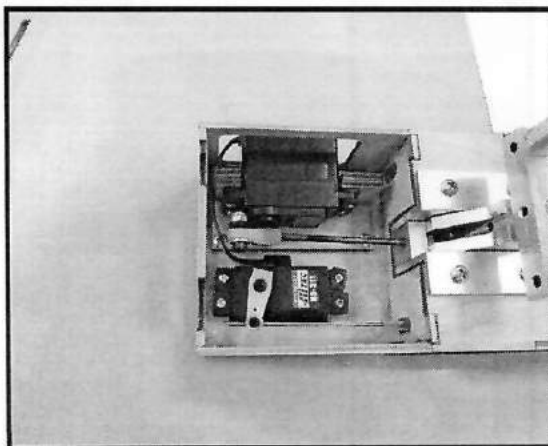
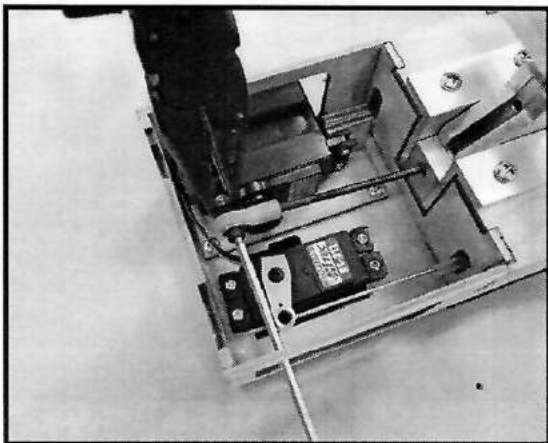
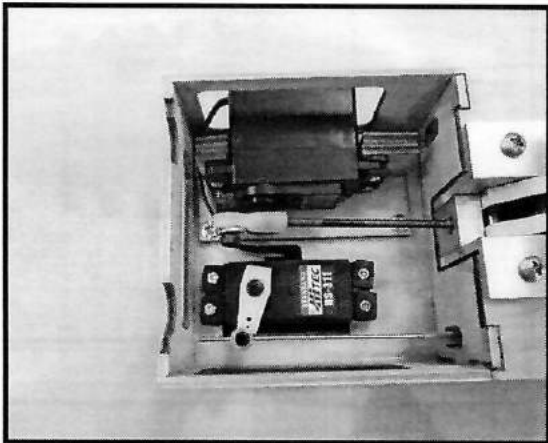
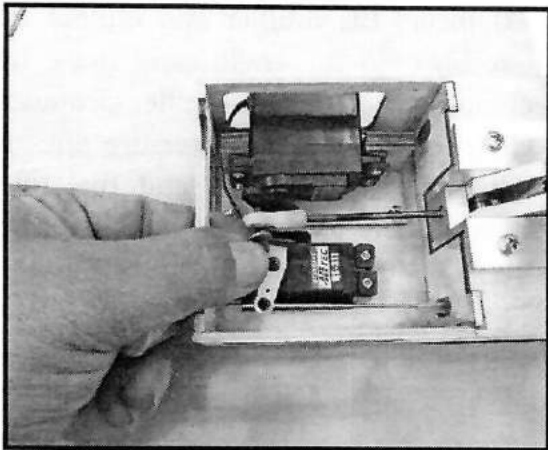
INSTALLING RETRACTABLE LANDING GEAR (OPTIONAL).

1) Locate the items necessary to install the retractable landing gear and retract linkage installation (excluded)



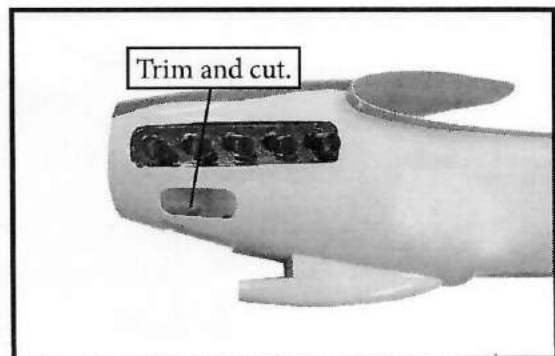
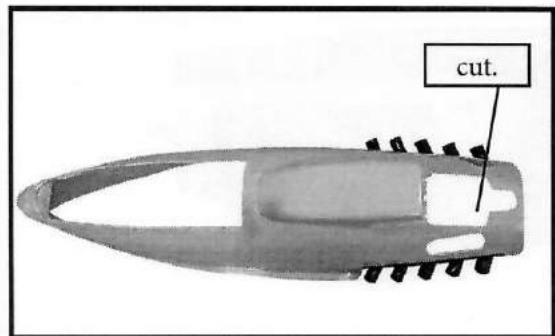


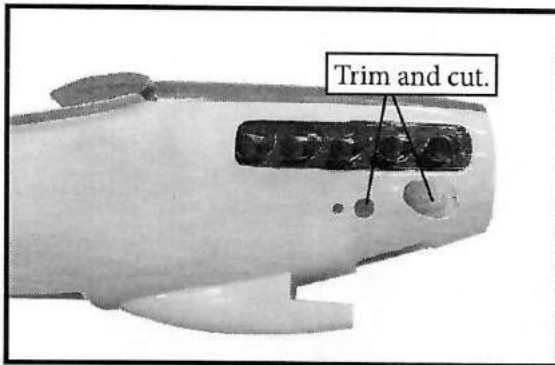




COWLING

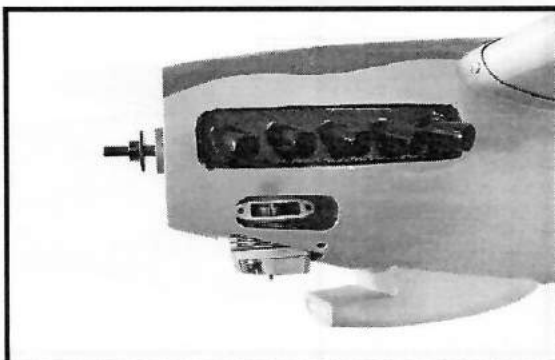
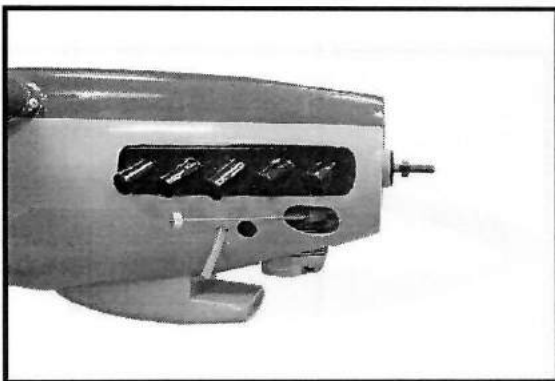
1) Slide the fiberglass cowl over the engine and line up the back edge of the cowl with the marks you made on the fuselage then trim and cut as shown.



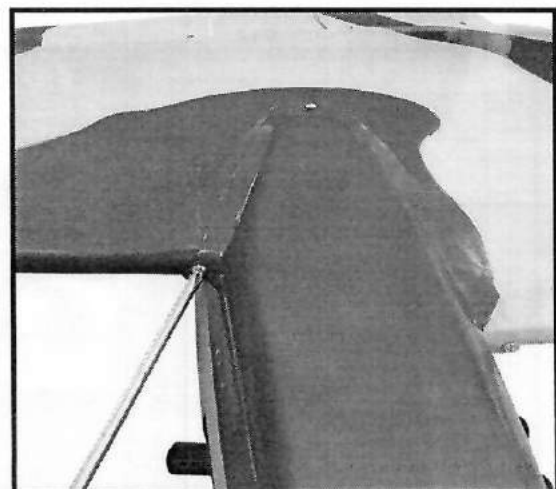
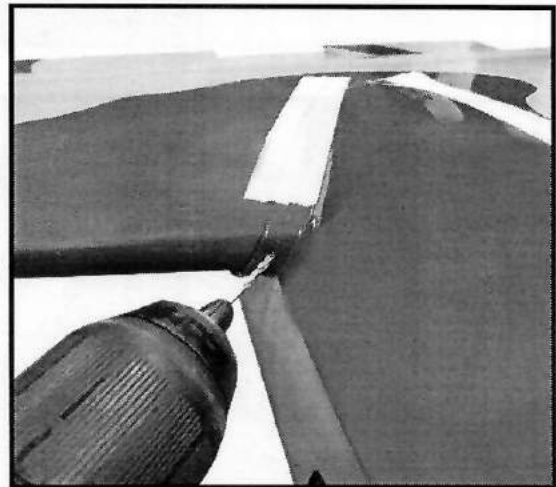
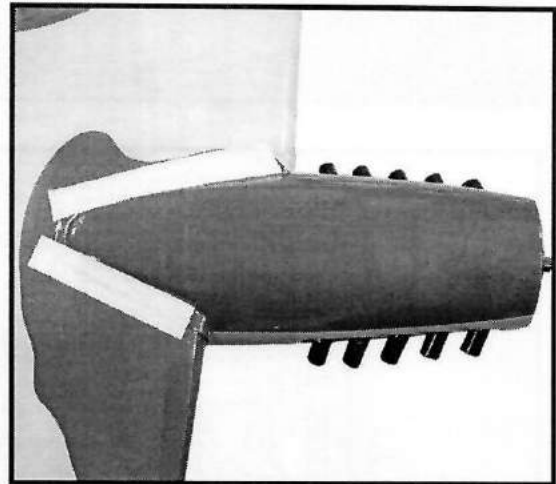


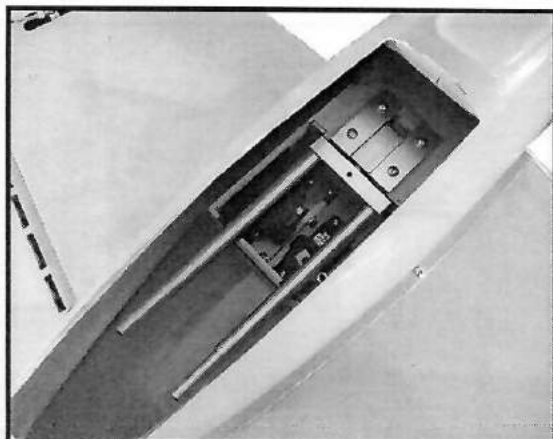
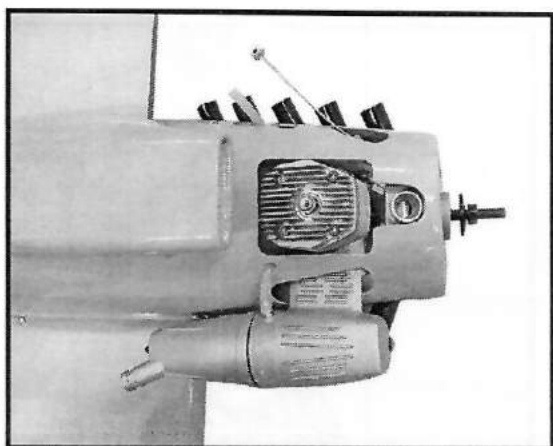
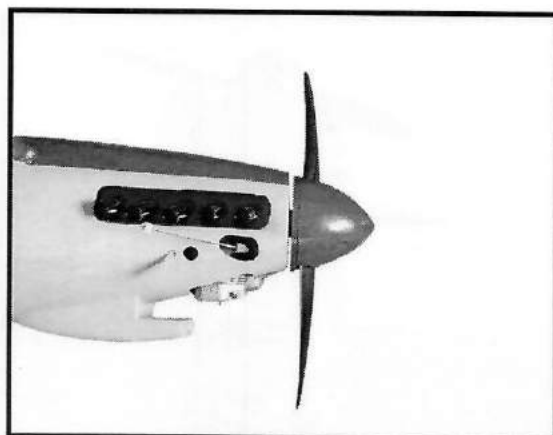
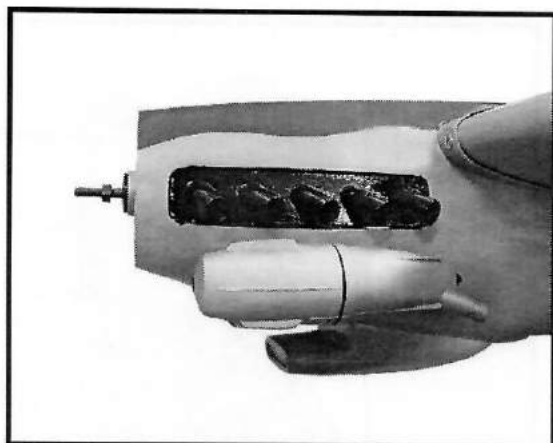
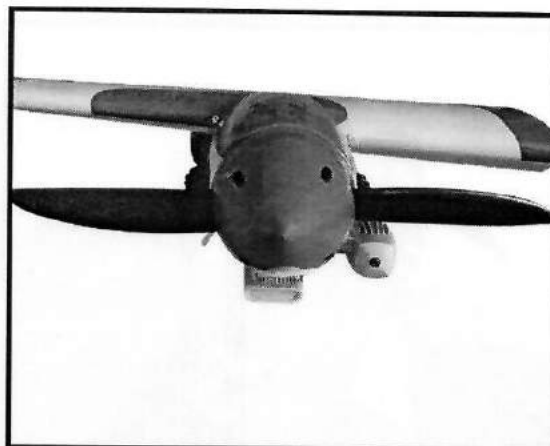
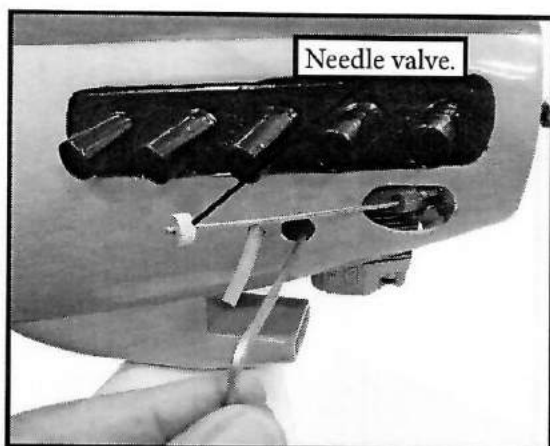
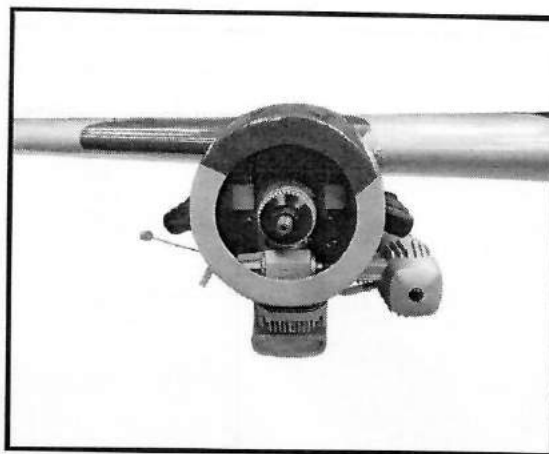
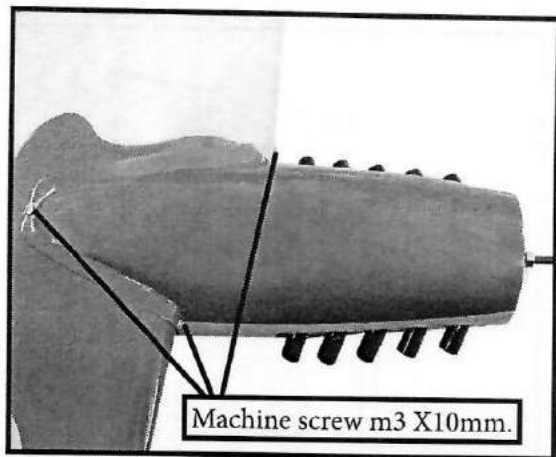
Because of the size of the cowl, it may be necessary to use a needle valve extension for the high speed needle valve. Make this out of sufficient length 1.5mm wire and install it into the end of the needle valve. Secure the wire in place by tightening the set screw in the side of the needle valve.

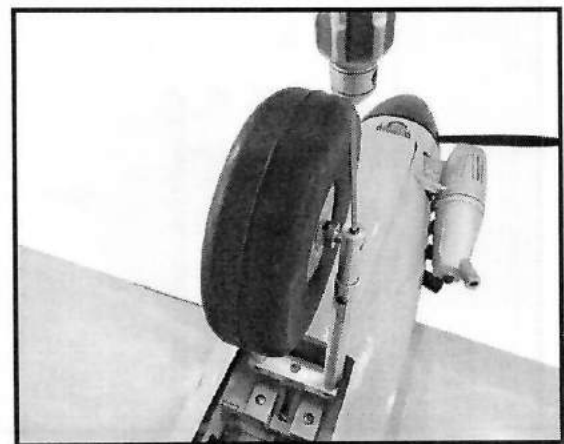
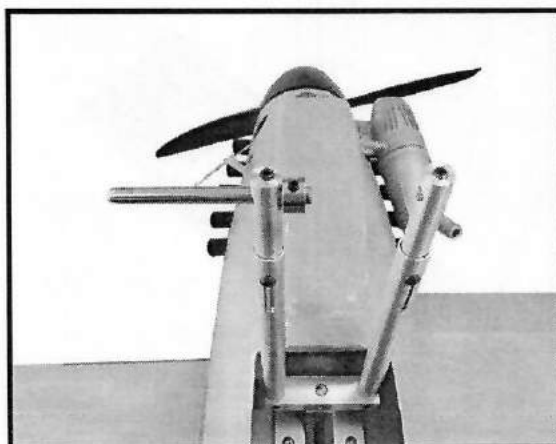
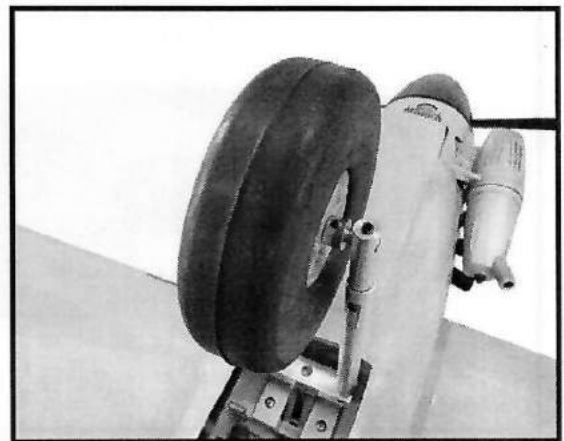
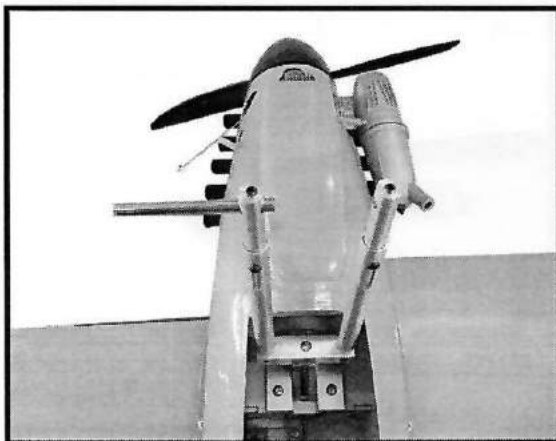
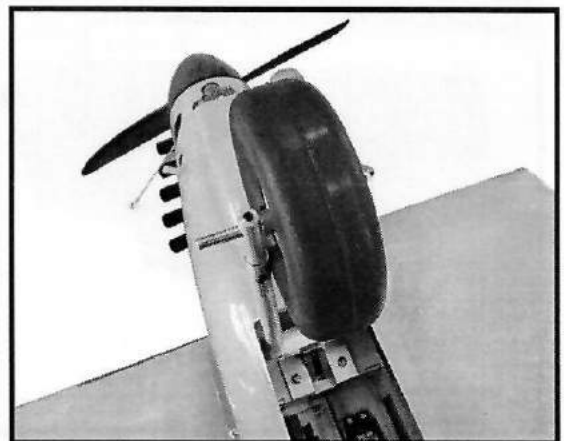
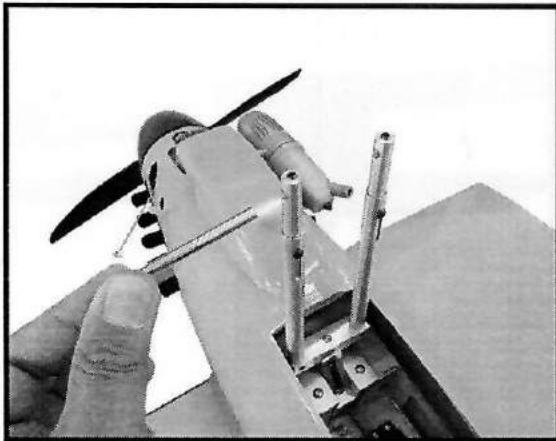
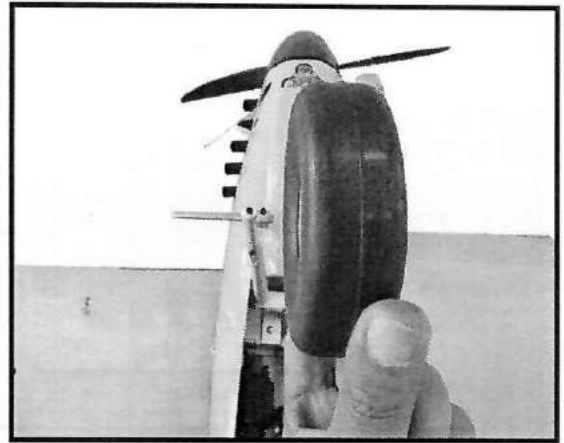
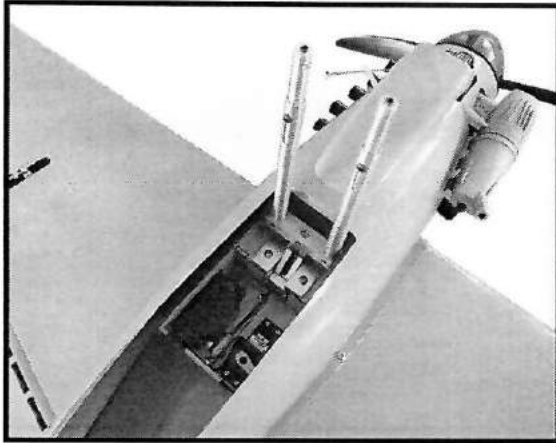
2) While keeping the back edge of the cowl flush with the marks, align the front of the cowl with the crankshaft of the engine. The front of the cowl should be positioned so the crankshaft is in nearly the middle of the cowl opening. Use the spinner backplate as a guide. Hold the cowl firmly in place using pieces of masking tape.

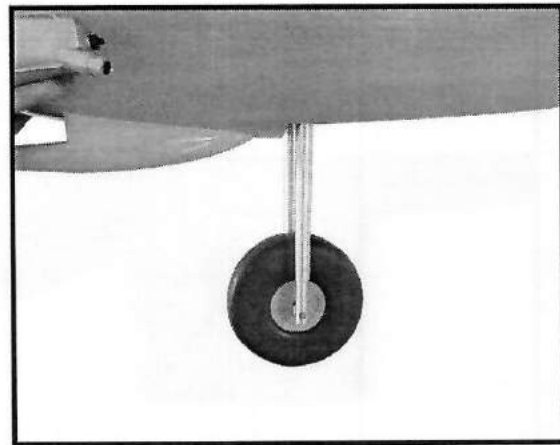
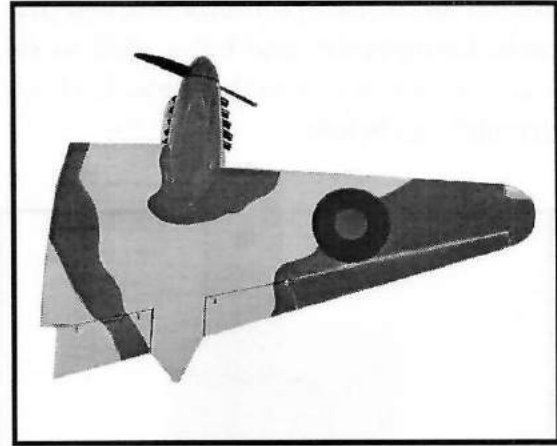
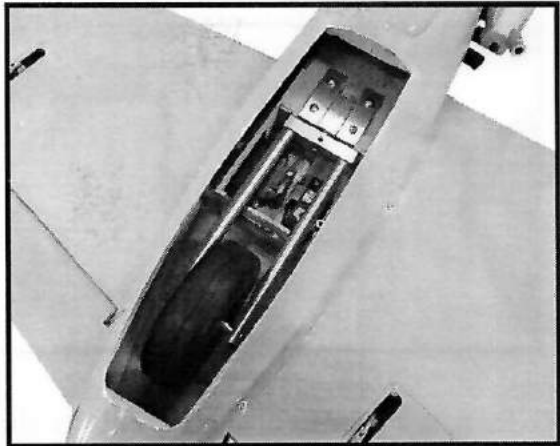
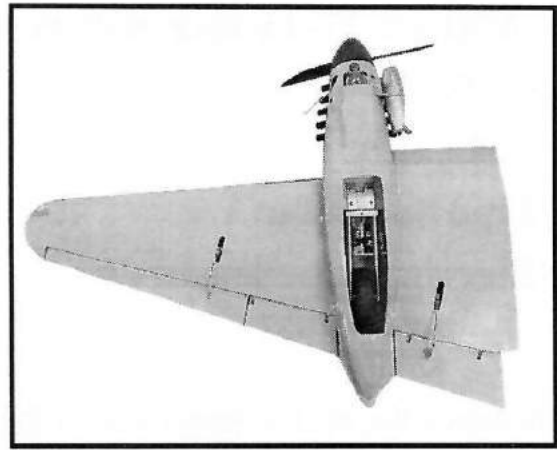
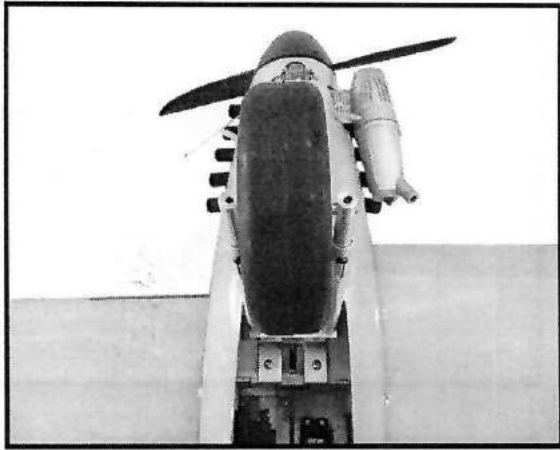


3) Install the muffler and muffler extension onto the engine and make the cutout in the cowl for muffler clearance. Connect the fuel and pressure lines to the carburetor, muffler and fuel filler valve. Secure the cowl to fuselage using the M3x10mm screws.



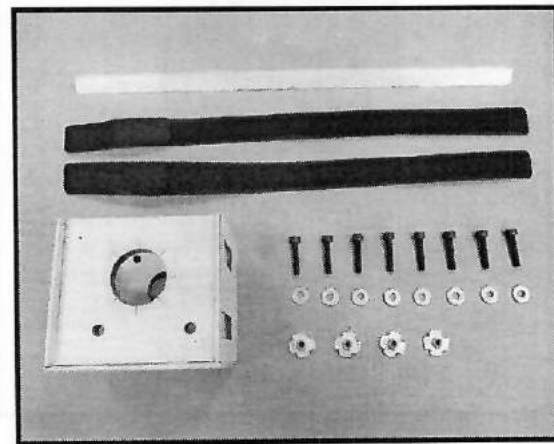




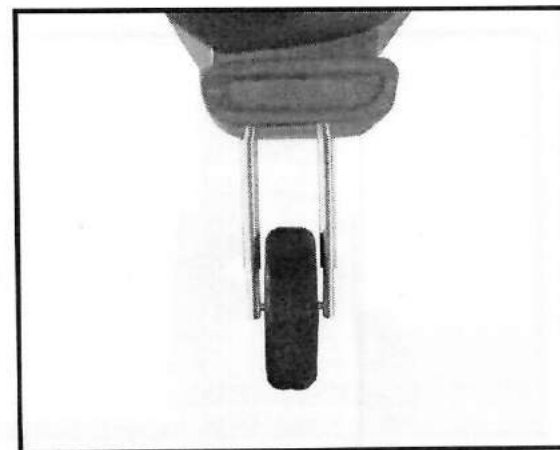


ELECTRIC POWER CONVERSION.

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

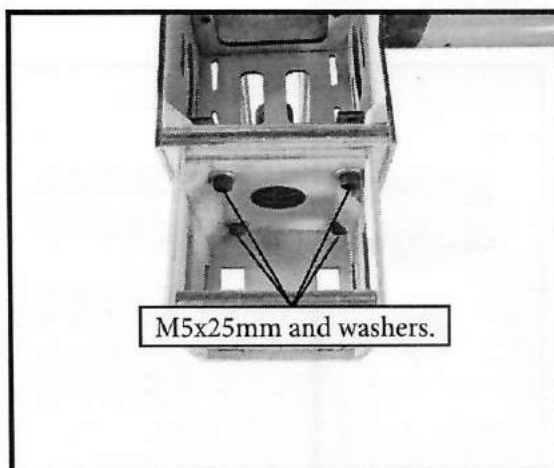
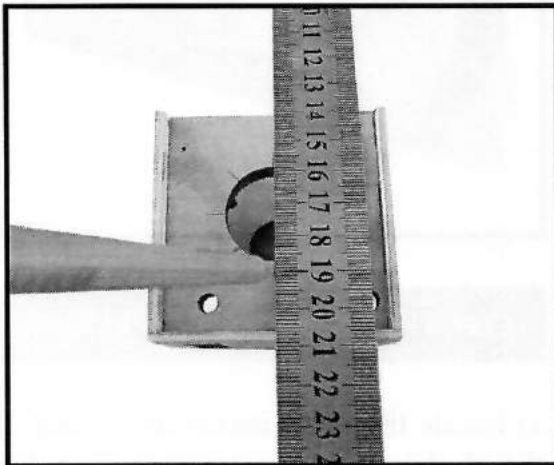


2) Recommend the items necessary to install the electric power conversion parts included with your model.

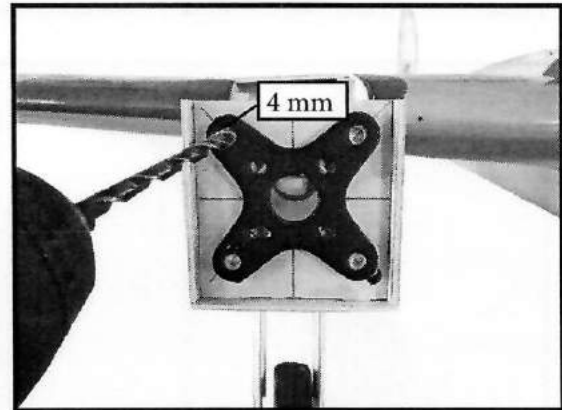
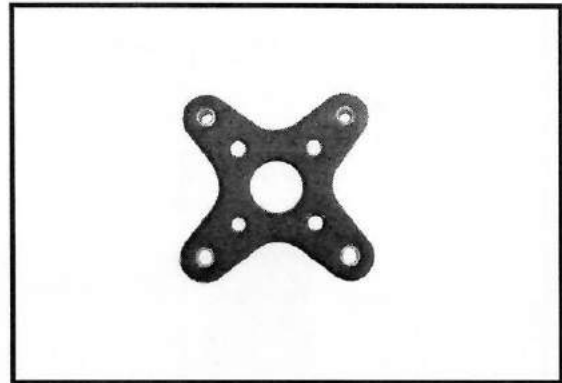


- **Motor: 35-45 size 830 rev per volt**
- **ESC: 50A**
- **Lipo 4s 3200mA**
- **Electric propeller: 10x7**

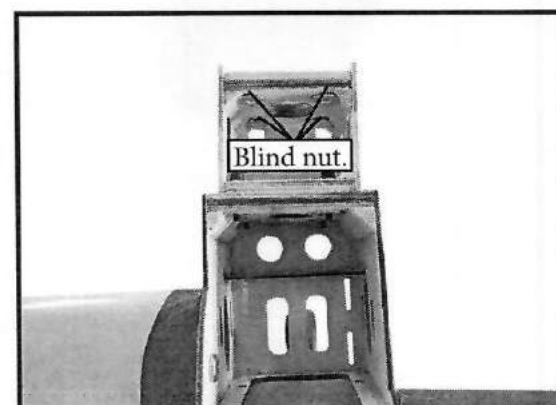
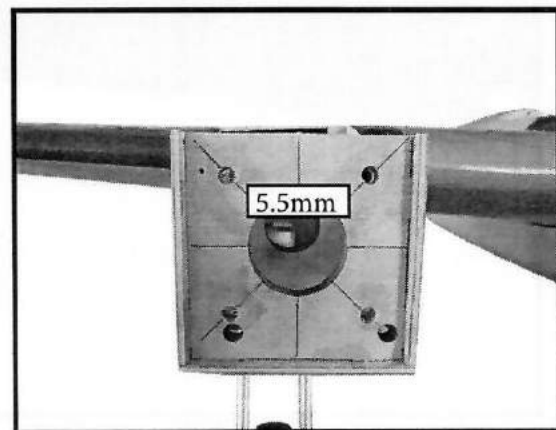
3) Attach the electric motor box to the firewall suitable with the cross lines drawn on the electric motor box and firewall. Using epoxy and balsa stick to secure the motor box to the firewall. Please see pictures below.

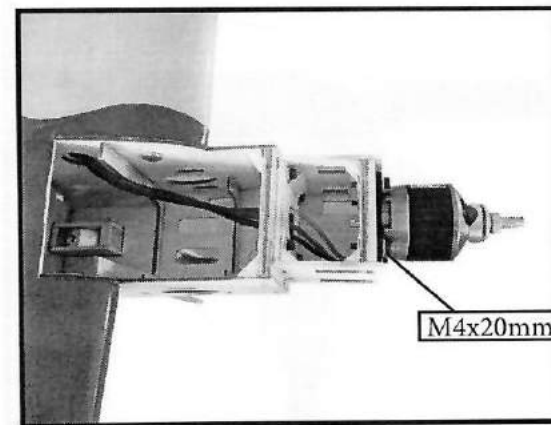
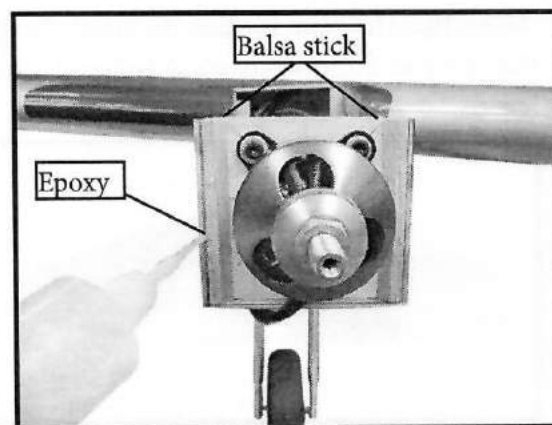
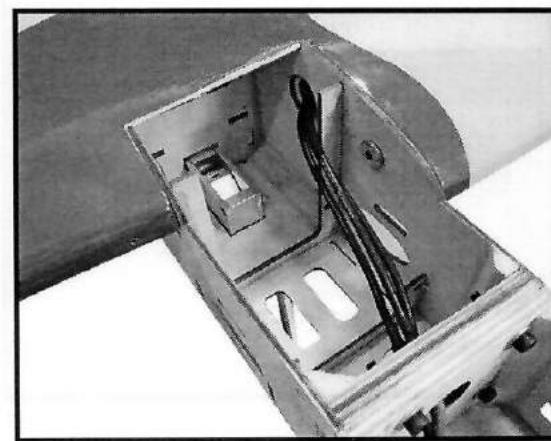
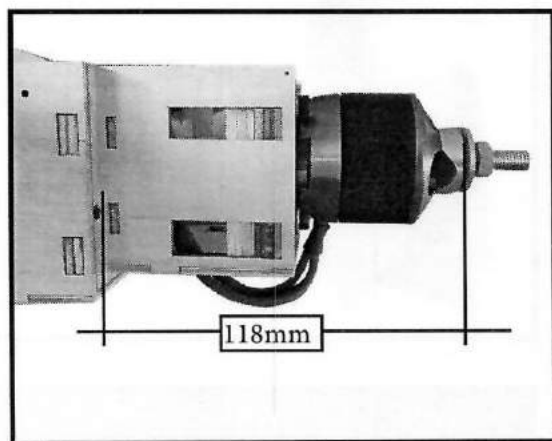
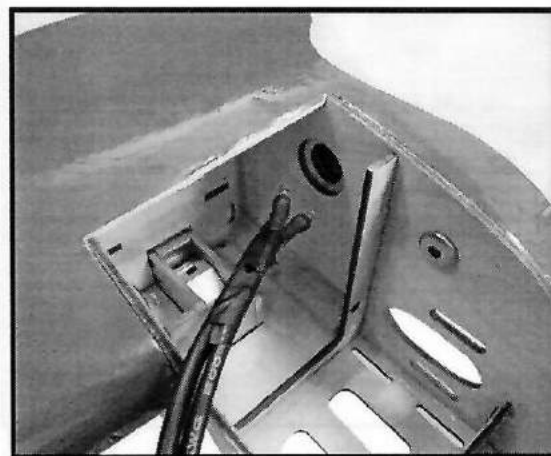
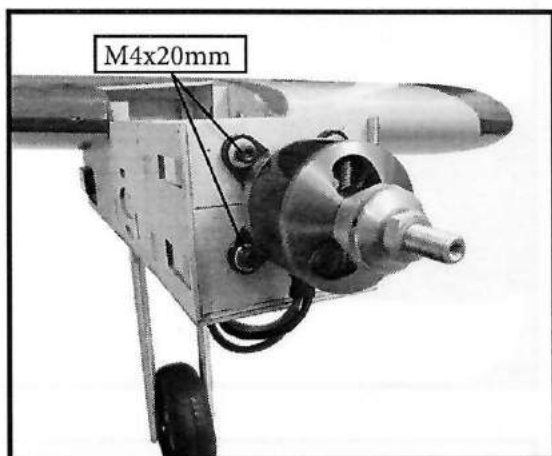
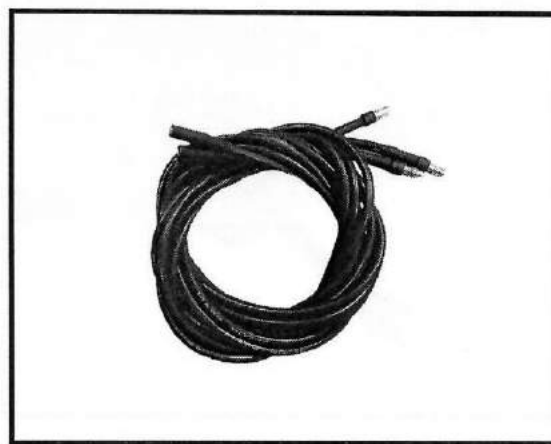
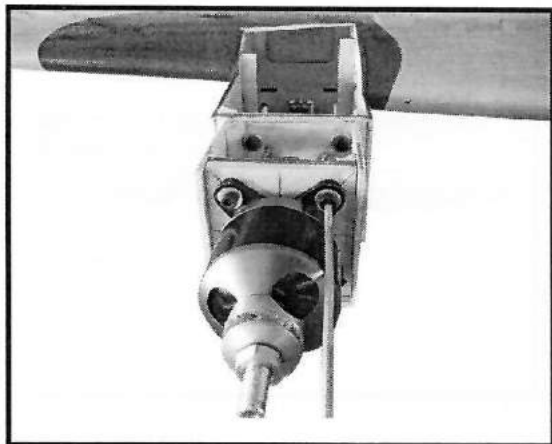


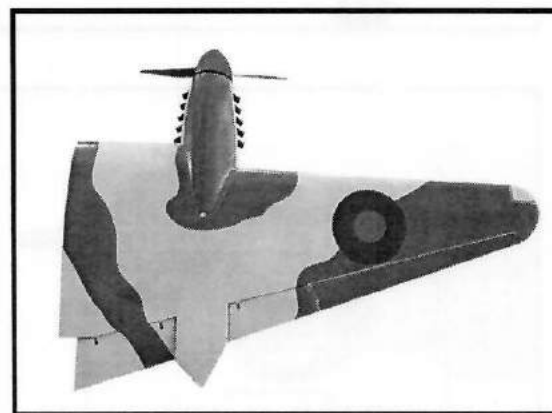
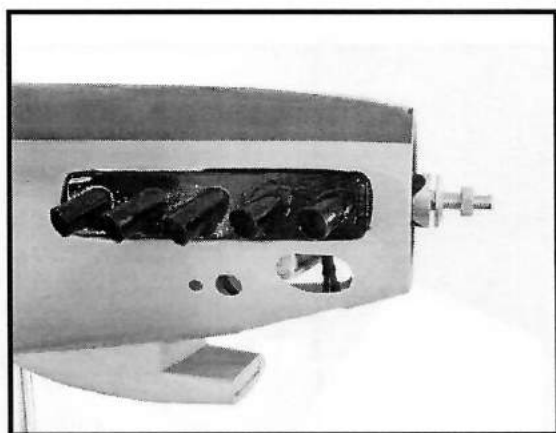
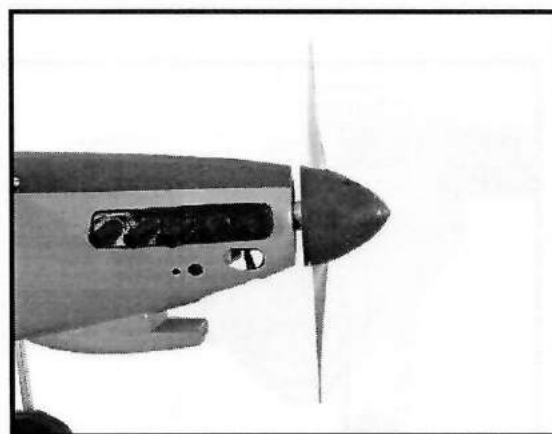
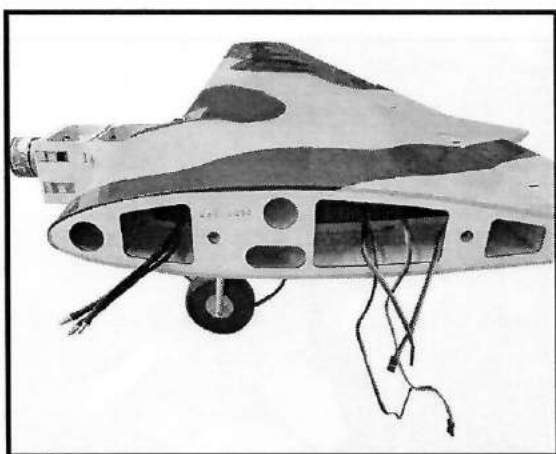
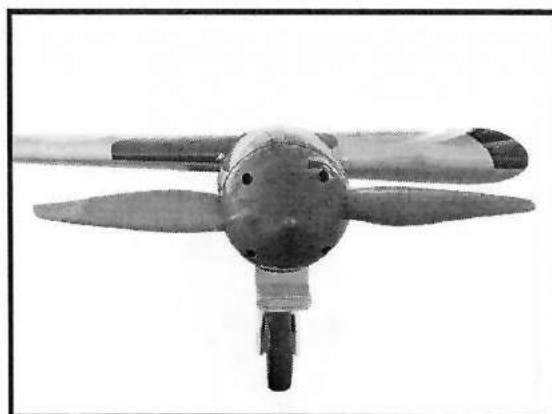
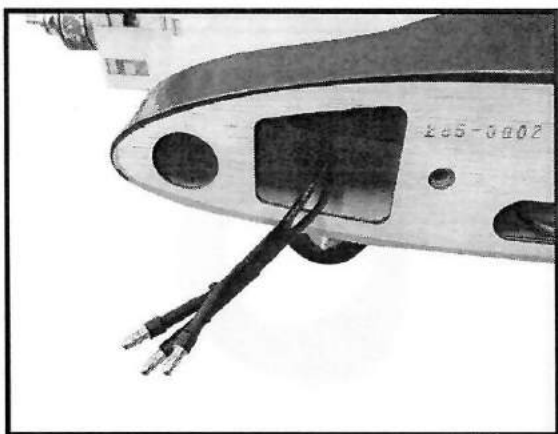
4) Attach the motor to the front of the electric motor box using four 4mm blind nut, four M4x20mm hex head bolts to secure the motor. Please see picture shown.



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

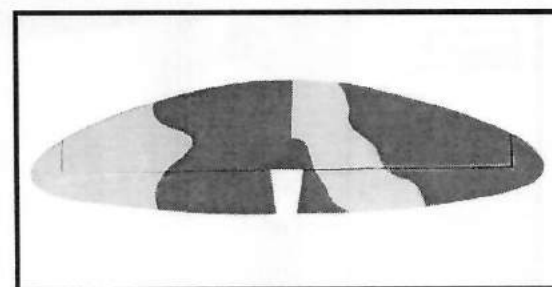




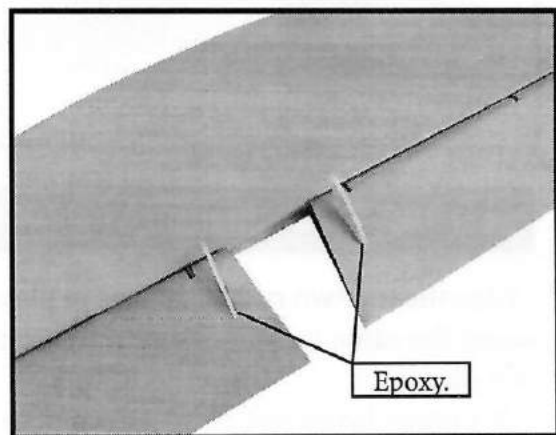
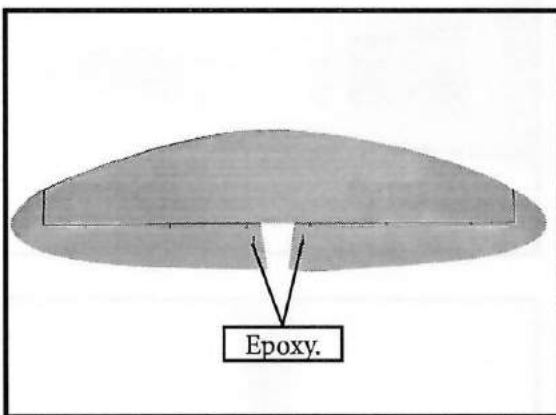
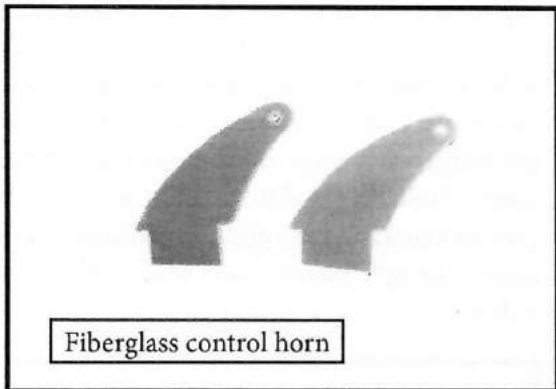


HINGING THE ELEVATORS.

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

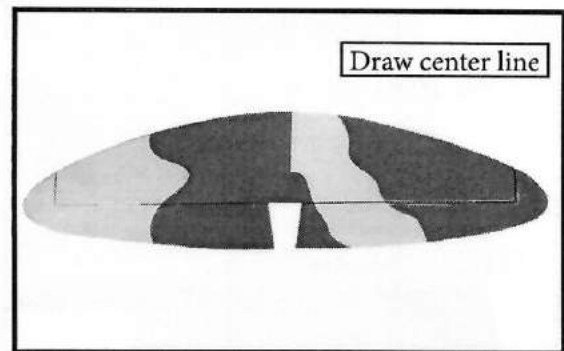


INSTALL ELEVATOR CONTROL HORN.

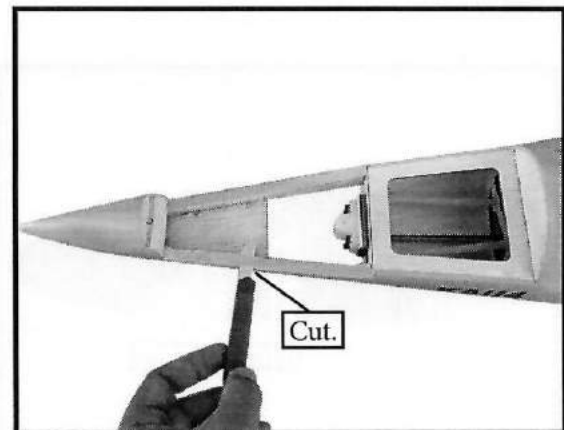


INSTALLING THE HORIZONTAL STABILIZER.

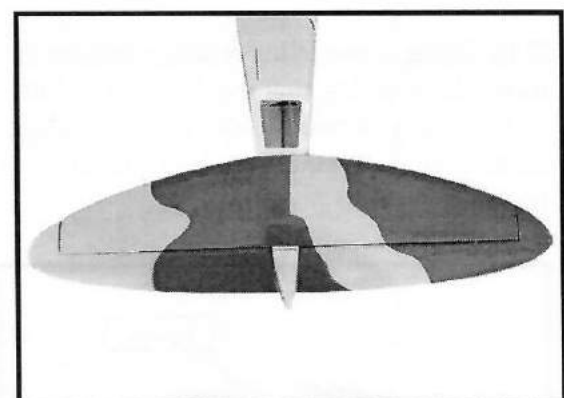
1) Using a ruler and a pen, locate the centerline of the horizontal stabilizer, at the trailing edge, and place a mark. Use a triangle and extend this mark, from back to front, across the top of the stabilizer. Also extend this mark down the back of the trailing edge of the stabilizer.



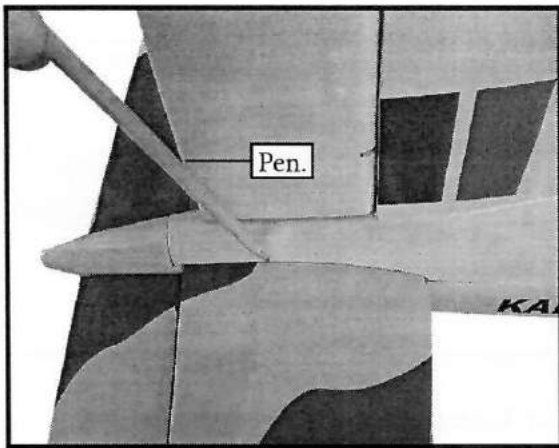
2) Using a modeling knife, carefully remove the covering at mounting slot of horizontal stabilizer (both side of fuselage).



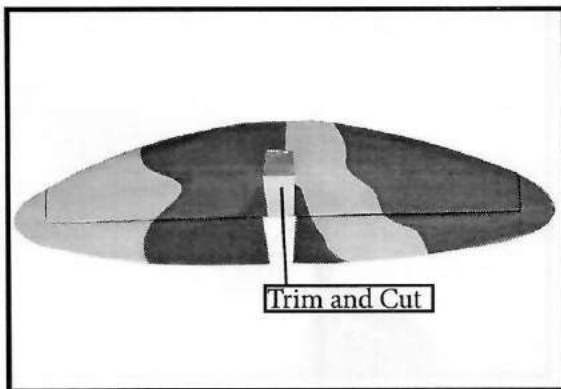
3) Slide the stabilizer into place in the precut slot in the rear of the fuselage. The stabilizer should be pushed firmly against the front of the slot.



□ 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.

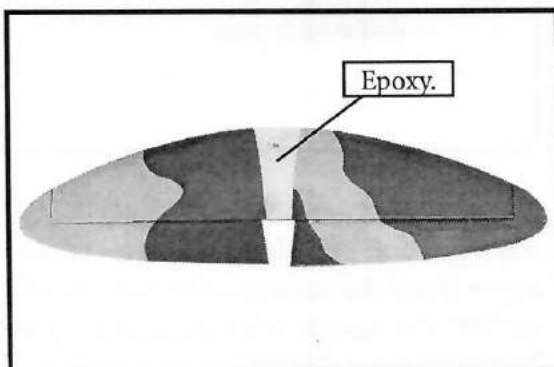


- 5) Remove the stabilizer. Using the lines you just drew as a guide, carefully remove the covering from between them using a modeling knife.

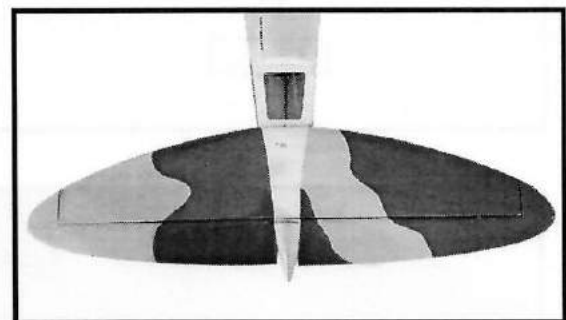
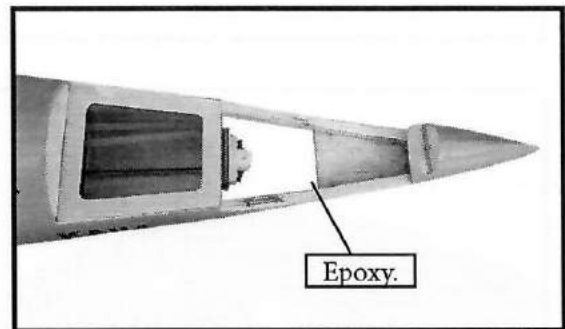


⚠ *When cutting through the covering to remove it, cut with only enough pressure to only cut through the covering itself. Cutting into the balsa structure may weaken it.*

- 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.



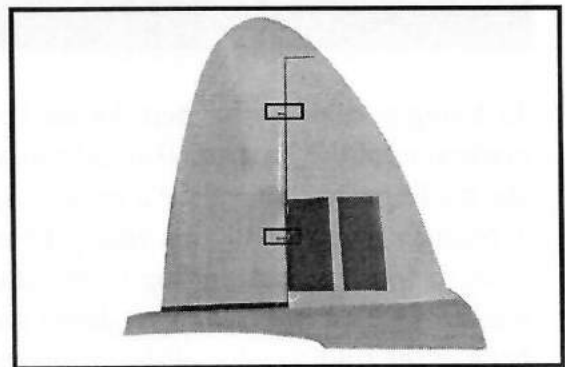
- 7) When you are sure that everything is aligned correctly, mix up a generous amount of 30 Minute Epoxy. Apply a thin layer to the top and bottom of the stabilizer mounting area and to the stabilizer mounting platform sides in the fuselage. Slide the stabilizer in place and realign. Double check all 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.



HINGING THE RUDDER.

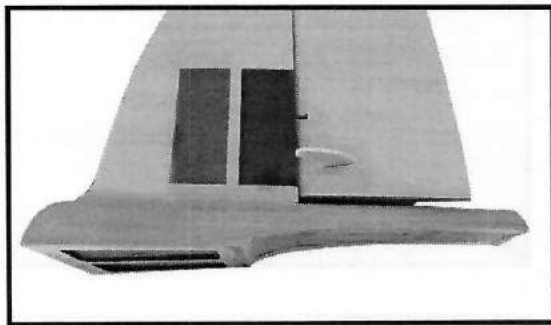
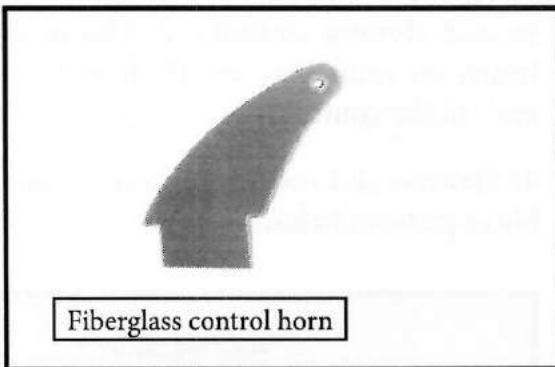
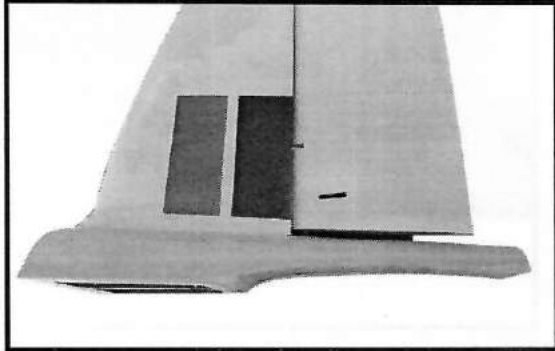
Glue the top two rudder hinges in place using the same techniques used to hinge the ailerons.

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

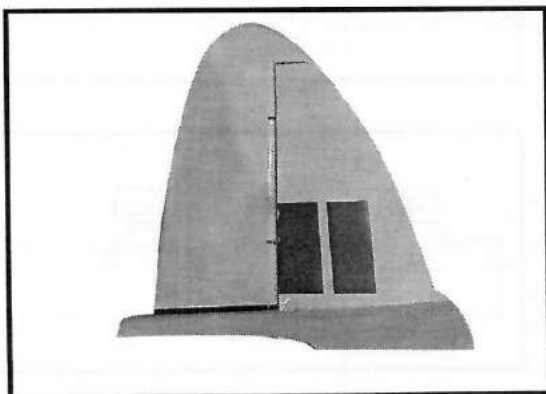


INSTALL RUDDER CONTROL HORN.

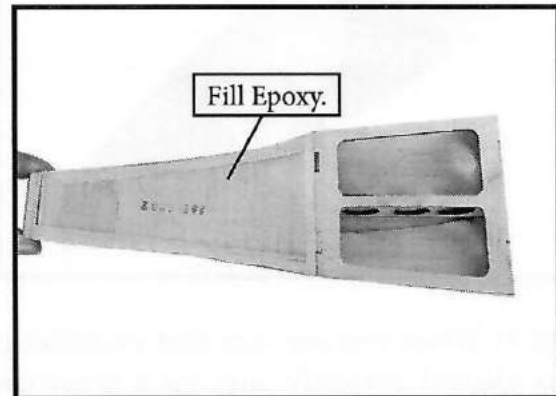
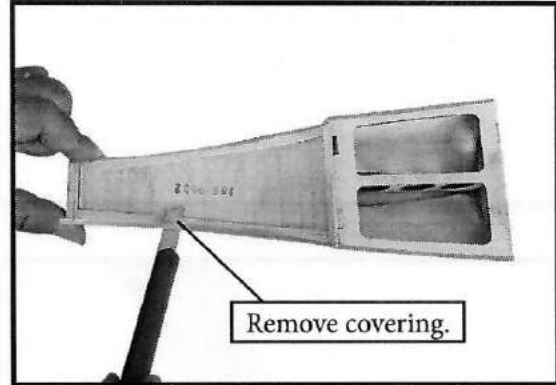
Repeat steps to install the rudder control horn as same as steps done for ailerons.



INSTALLING VERTICAL STABILIZER

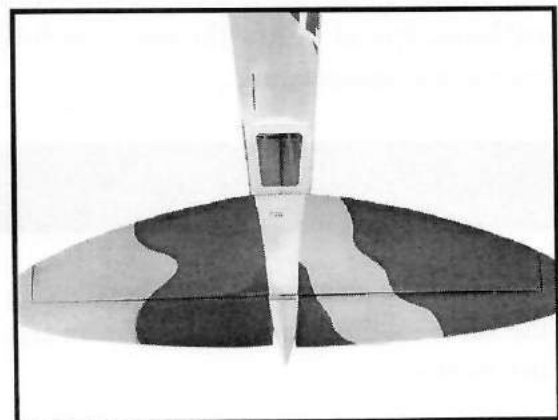


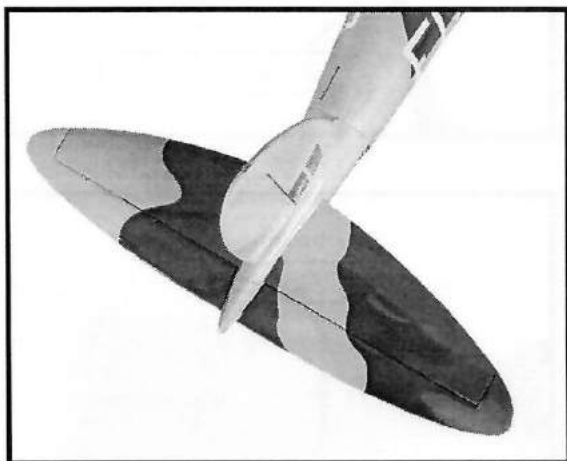
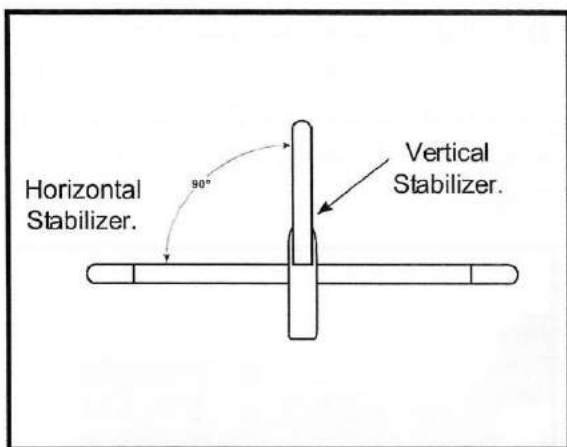
1) Using a modeling knife, remove the covering from over the precut hinge slot cut into the lower rear portion of the fuselage. This slot accepts the lower rudder hinge.



□ 2) 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.

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



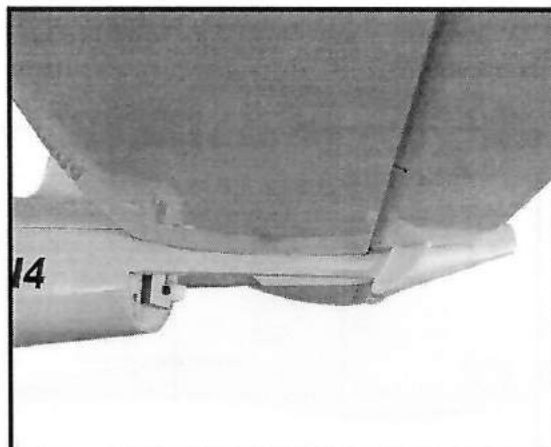


□ 4) When you are sure that everything is aligned correctly, mix up a generous amount of Flash 30 Minute Epoxy. Apply a thin layer to the mounting slot and to bottom of the vertical stabilizer mounting area. Apply epoxy to the bottom and top edges of the filler block and to the lower hinge also. Set 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.

ELEVATOR PUSHROD INSTALLATION.

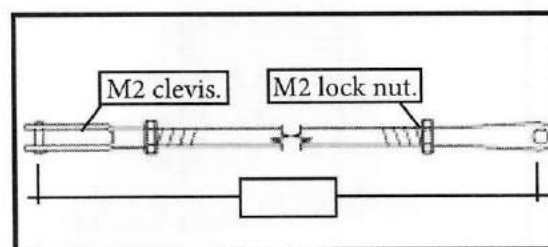
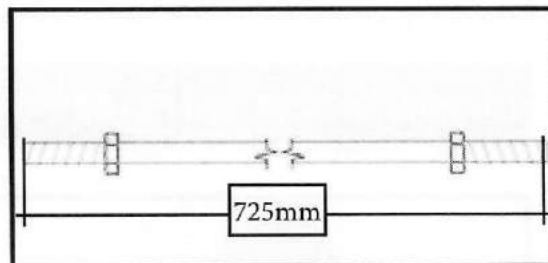
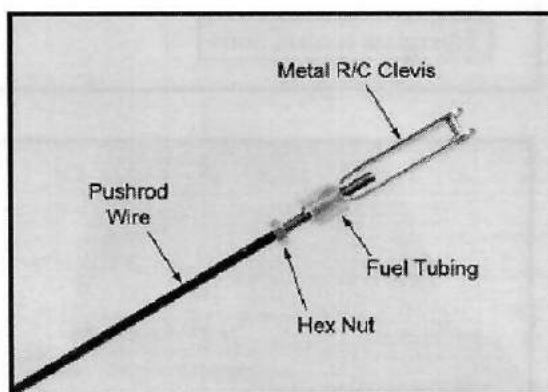
1) Install the elevator control horn using the same method as with the aileron control horns.

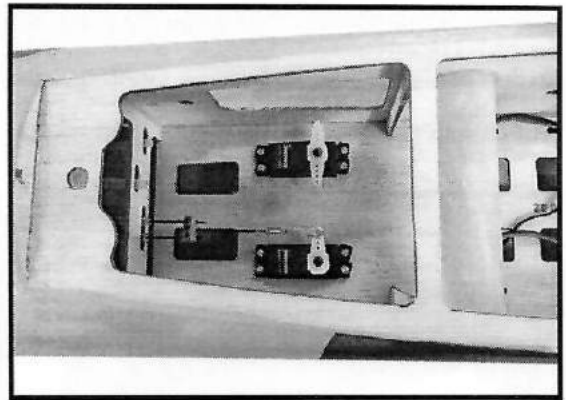
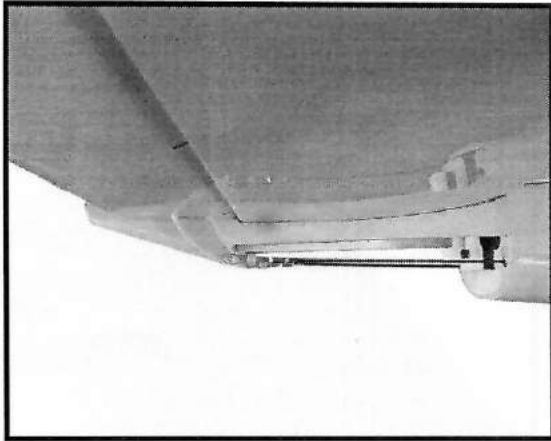
2) Position the elevator control horn on the both side of elevator.



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.

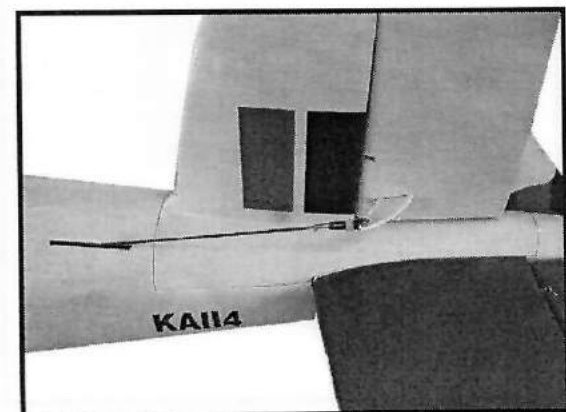
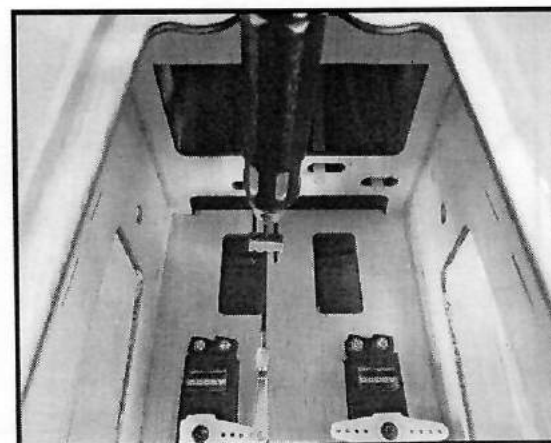
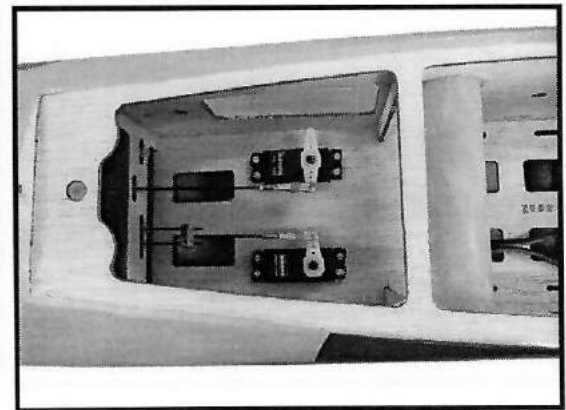
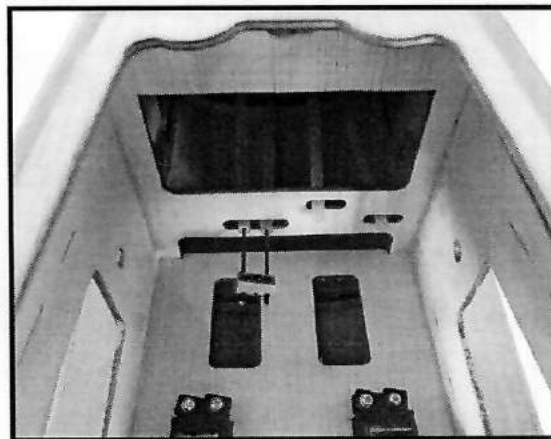
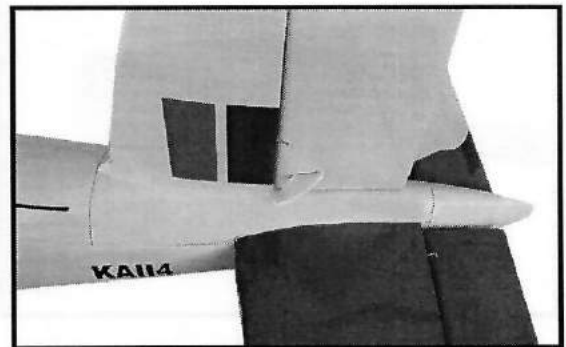
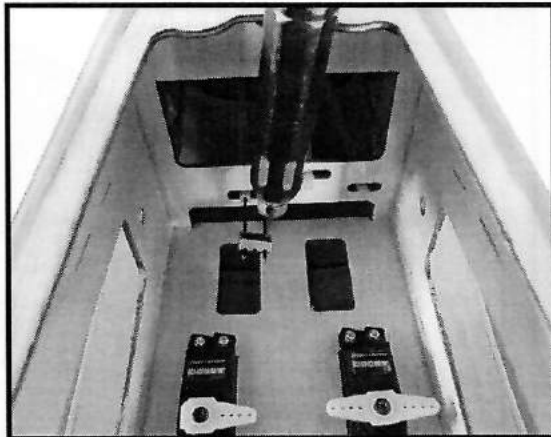
4) Elevator and rudder pushrods assembly as pictures below.





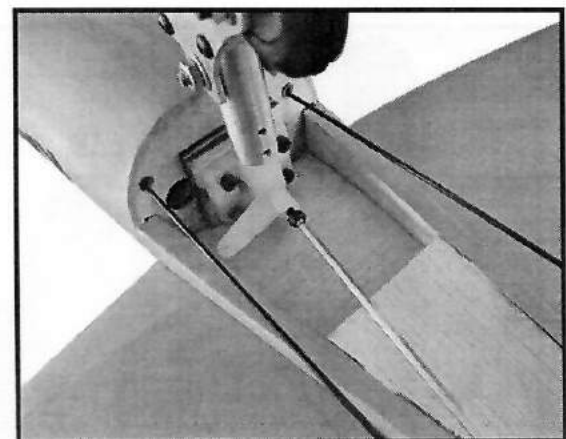
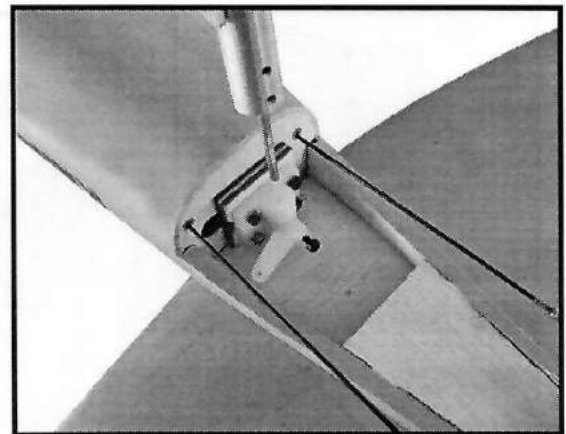
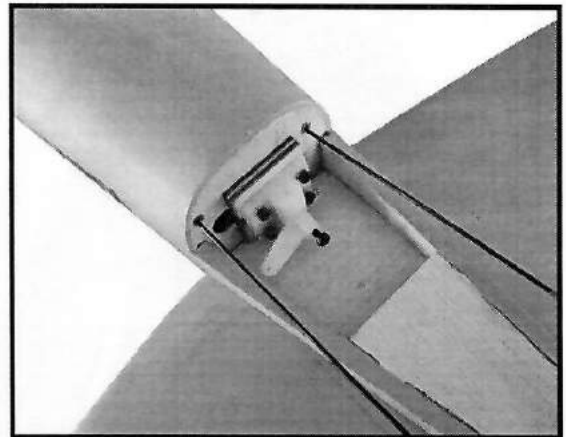
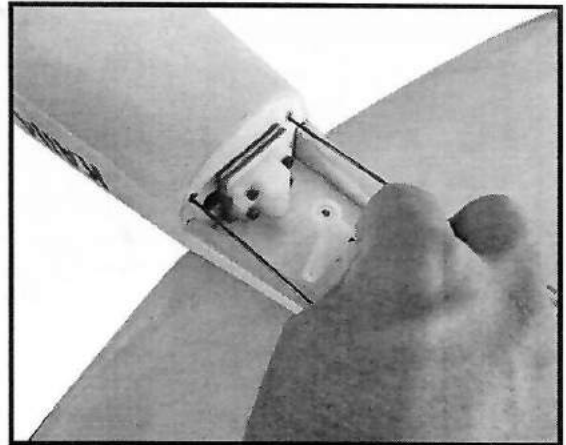
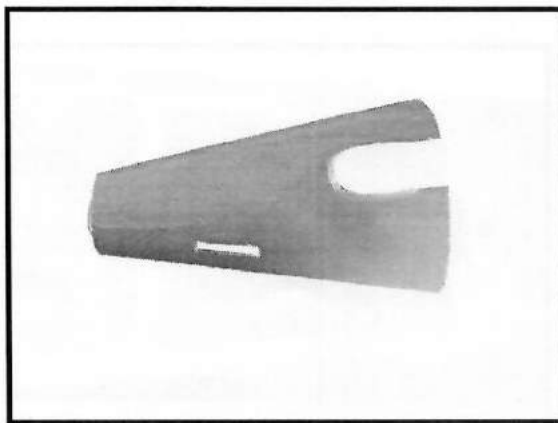
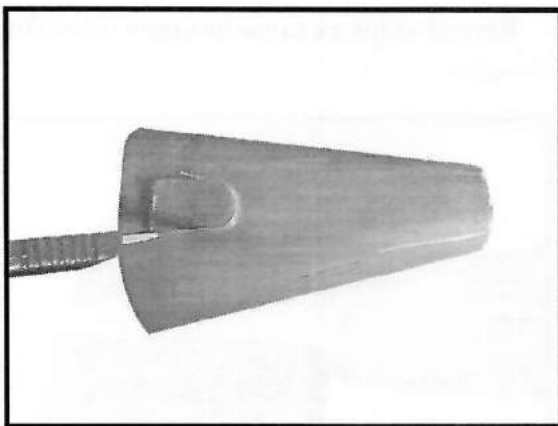
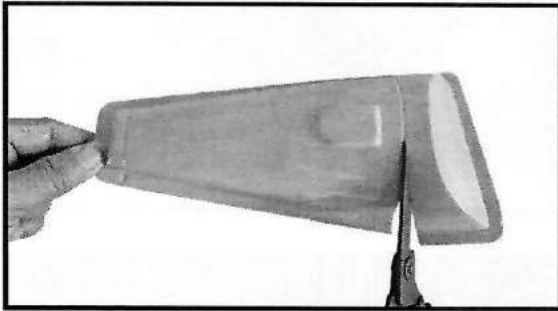
**RUDDER PUSHROD
INSTALLATION.**

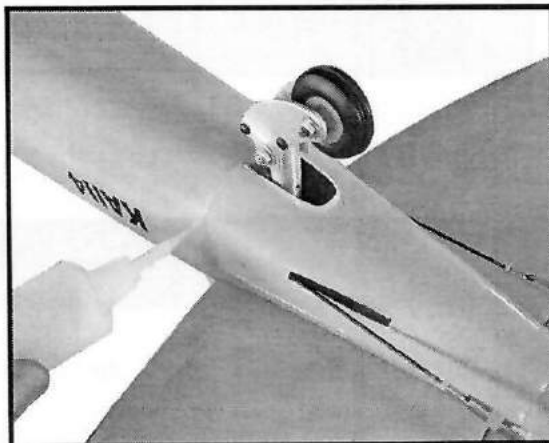
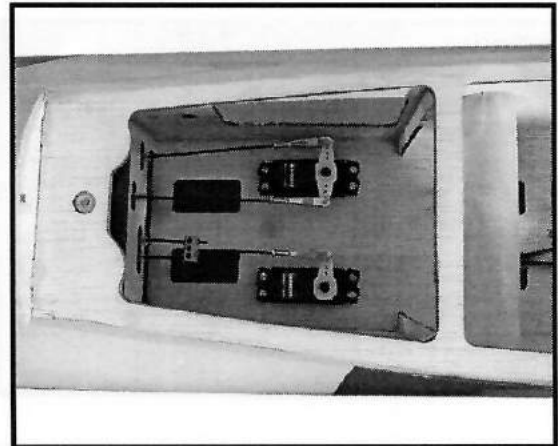
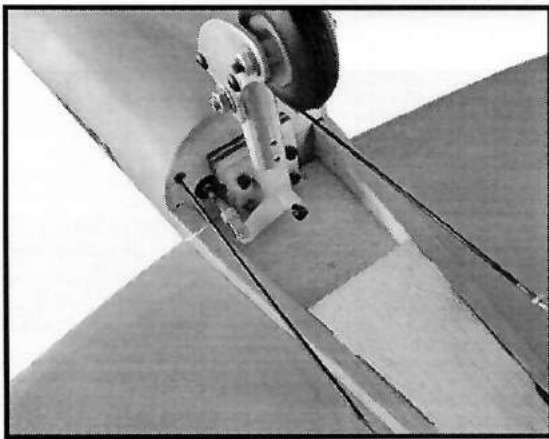
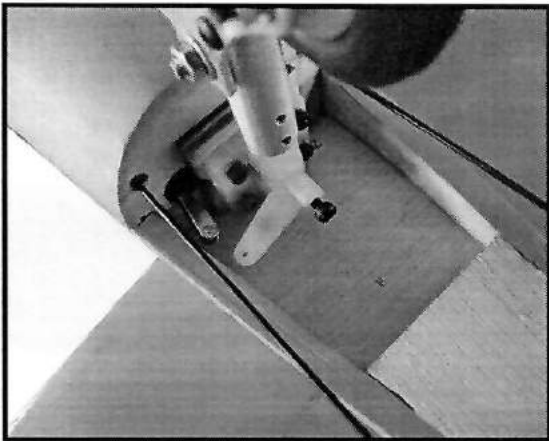
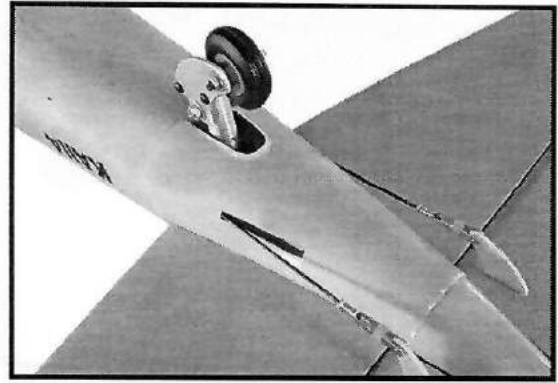
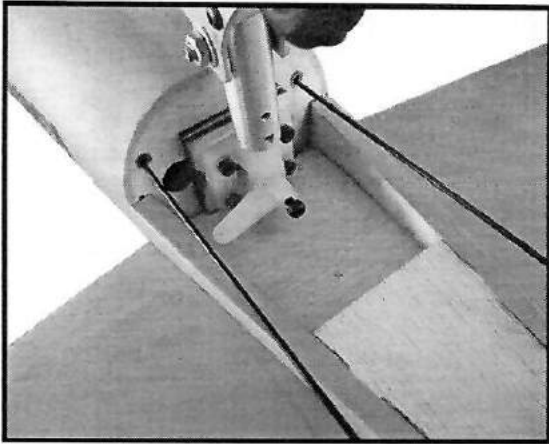
Repeat steps as same as steps done for
elevator.



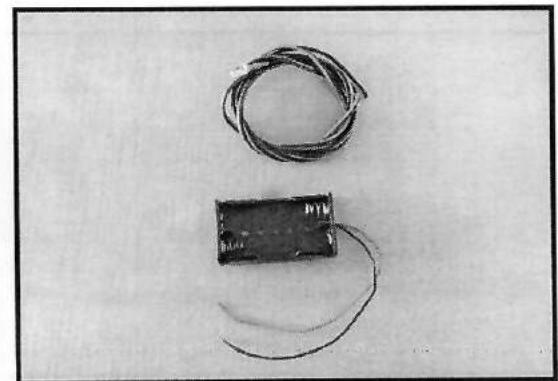
MOUNTING THE TAIL WHEEL.

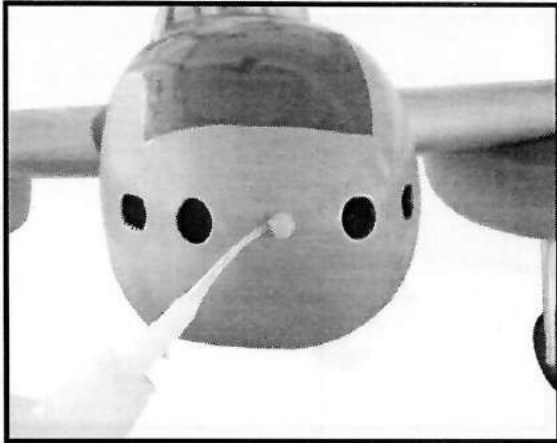
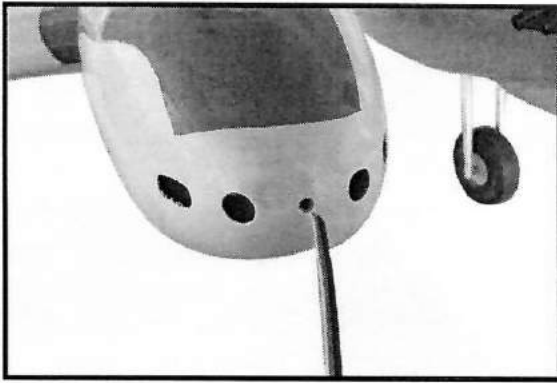
Locate items necessary to install tail wheel.





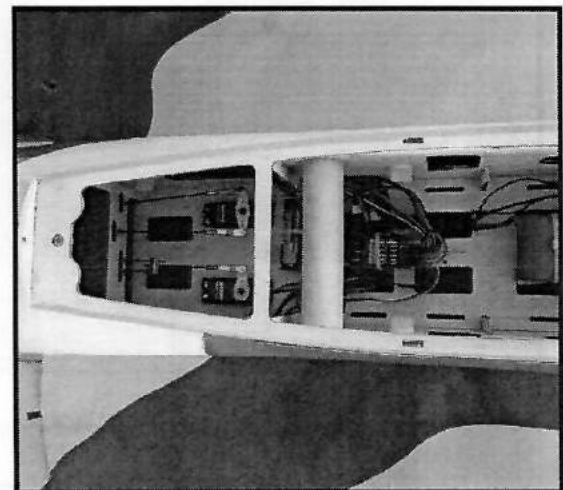
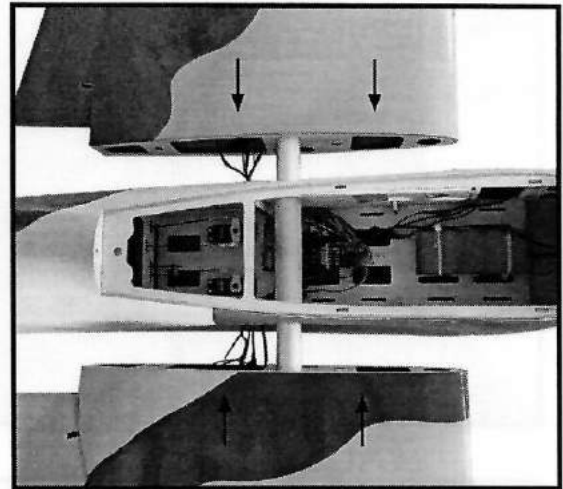
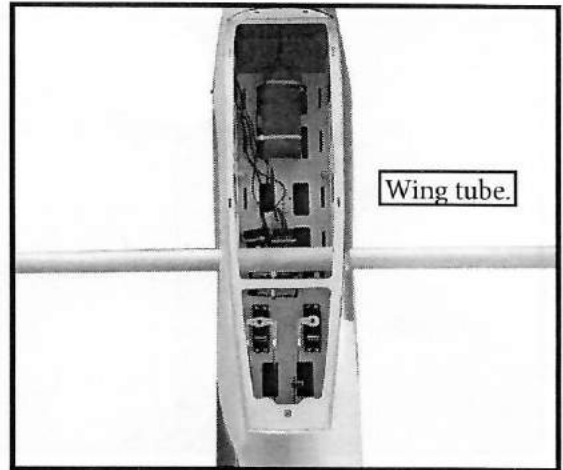
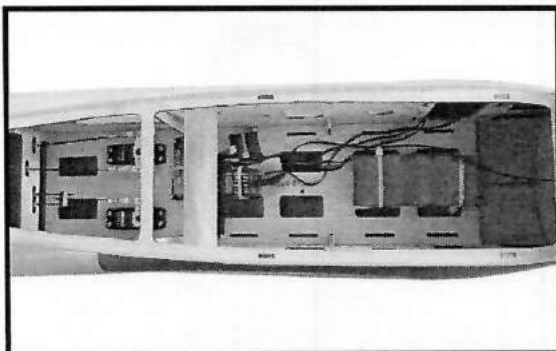
LED LIGHT.





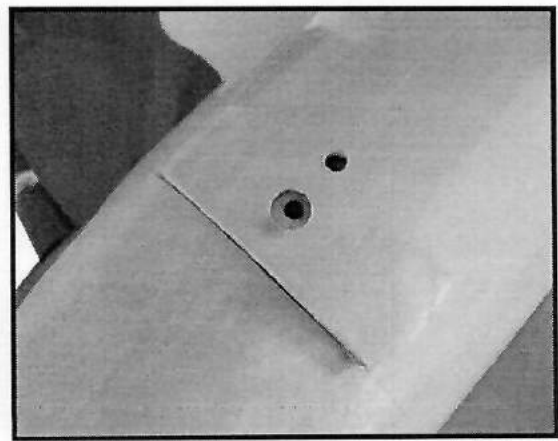
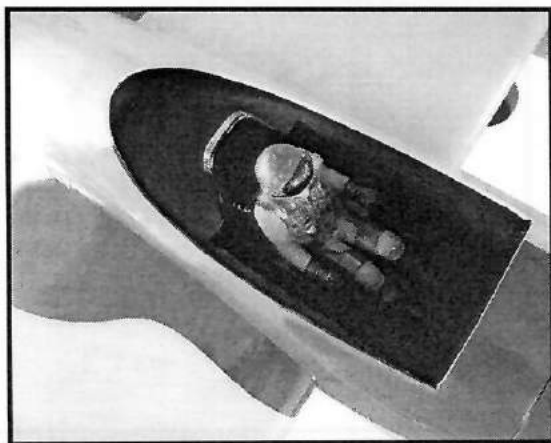
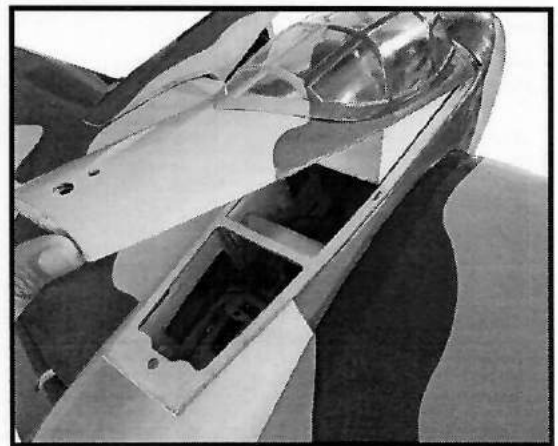
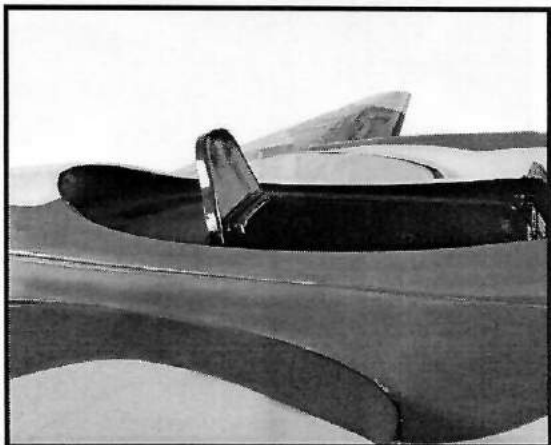
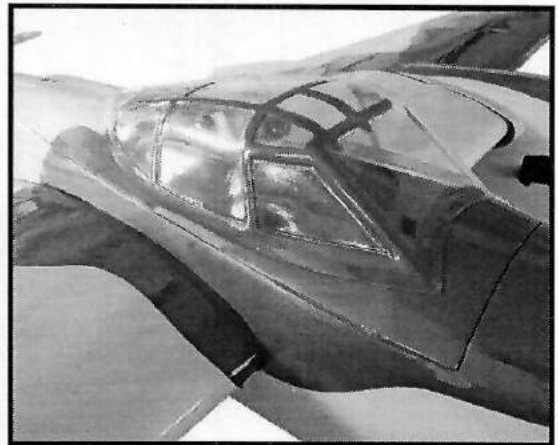
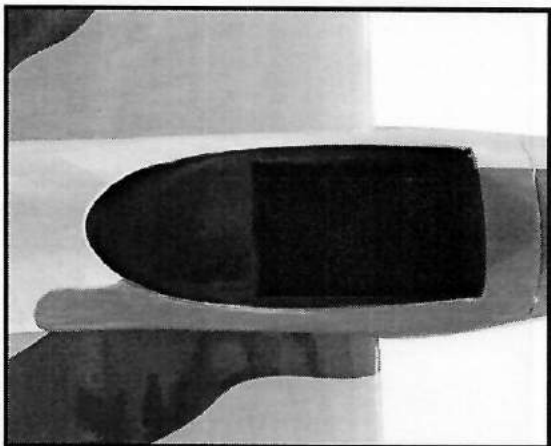
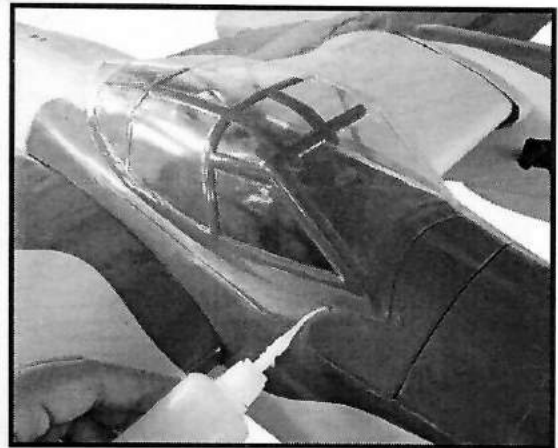
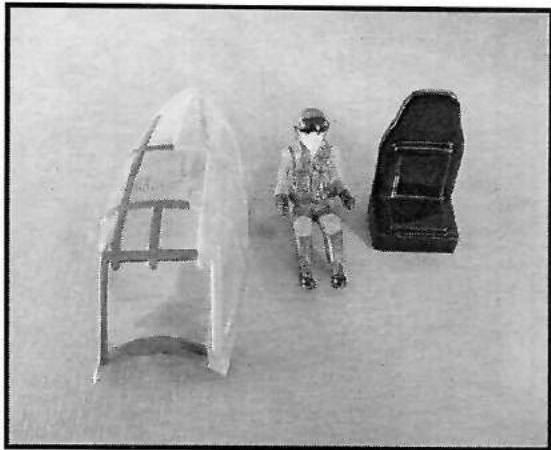
ATTACHMENT WING-FUSELAGE.

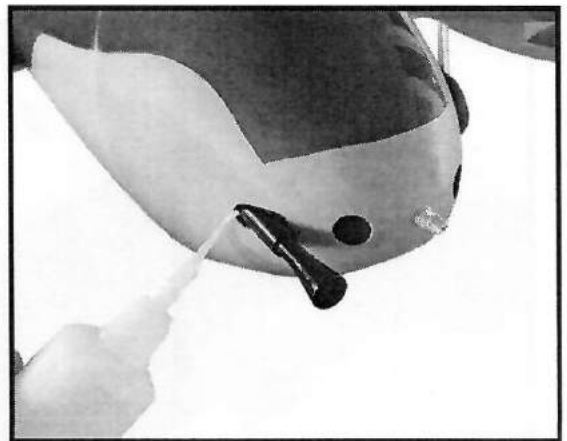
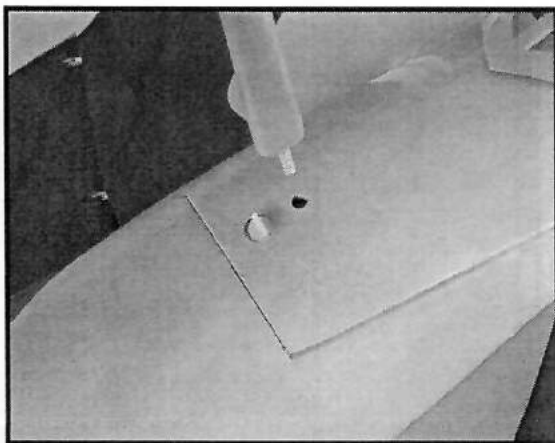
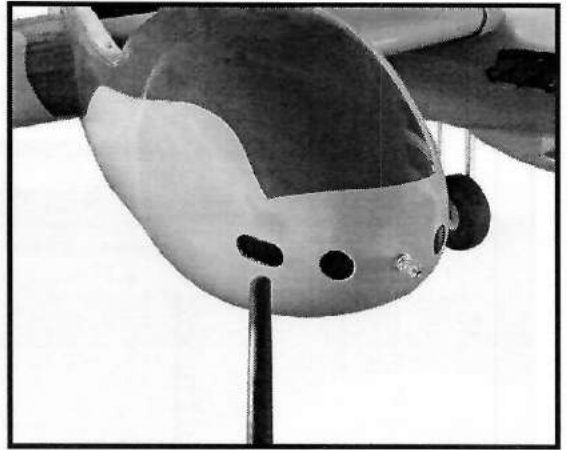
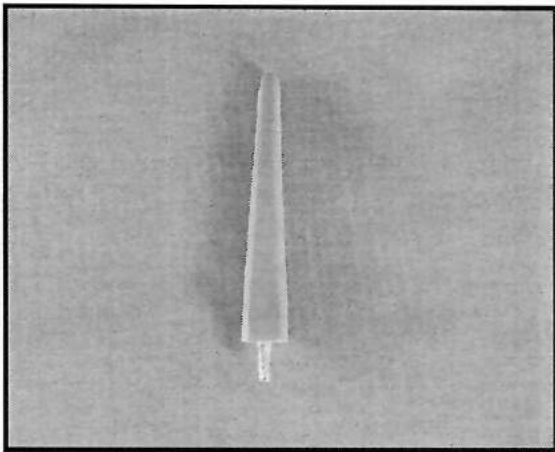
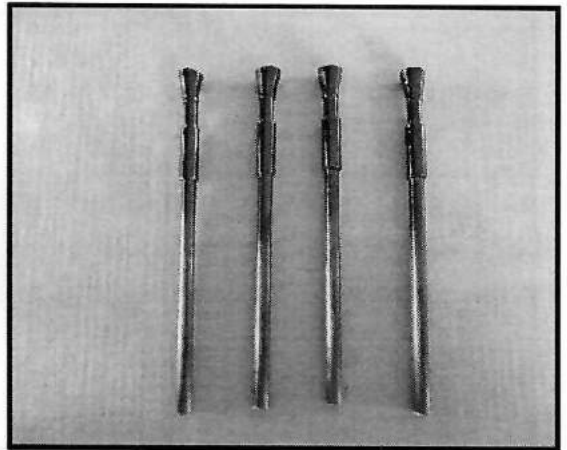
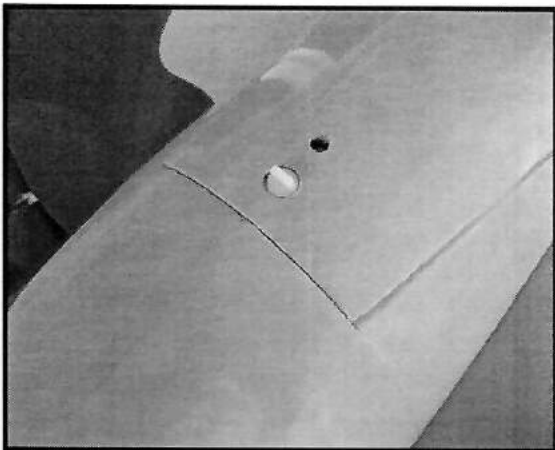
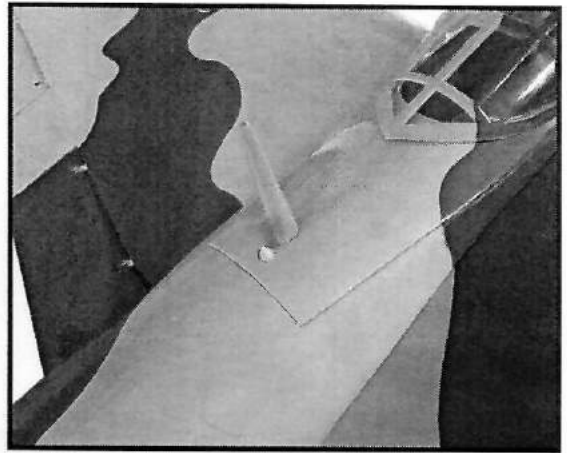
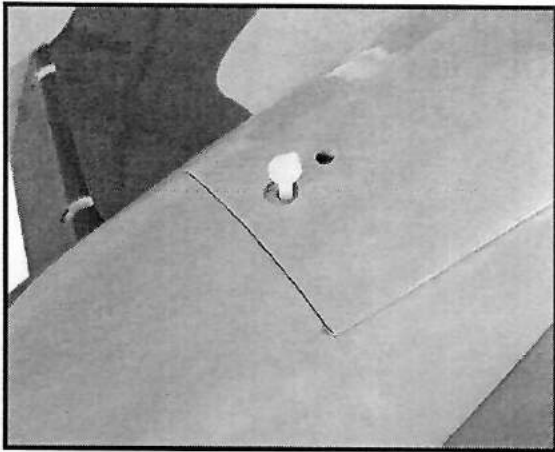
Attach the aluminium tube into fuselage.

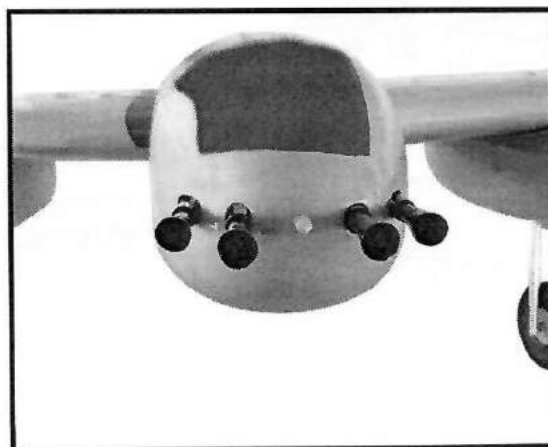
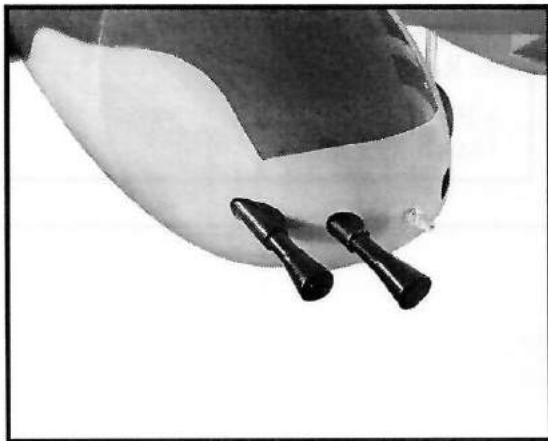
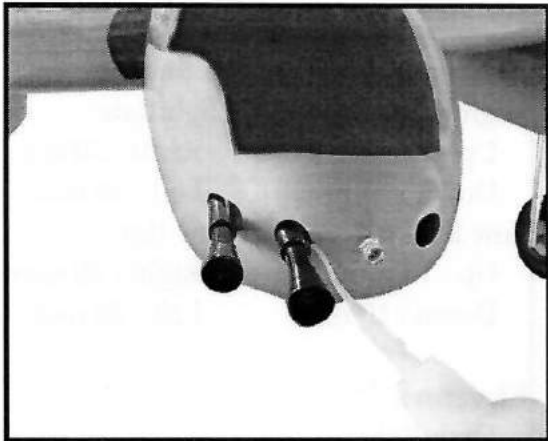
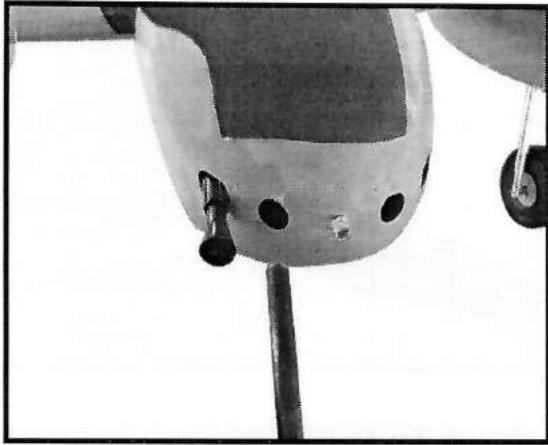


INSTALLATION CANOPY, PANEL AND SEATS.

1) Locate items necessary to install canopy and seats.







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 **150MM** BACK FROM THE LEADING EDGE OF THE WING AT THE WING ROOT.

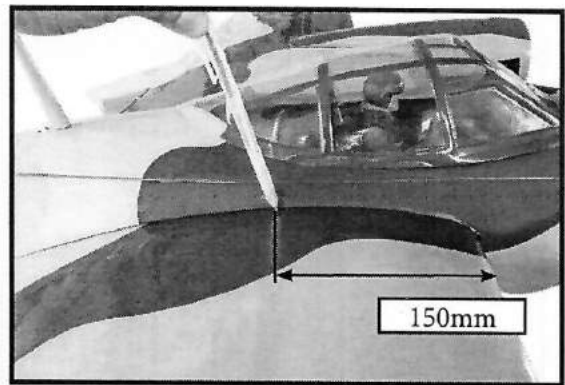
2) Mount the wing to the fuselage. Place a piece of masking tape on the top of each wing 150mm back from the leading edge at the wing root.

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.

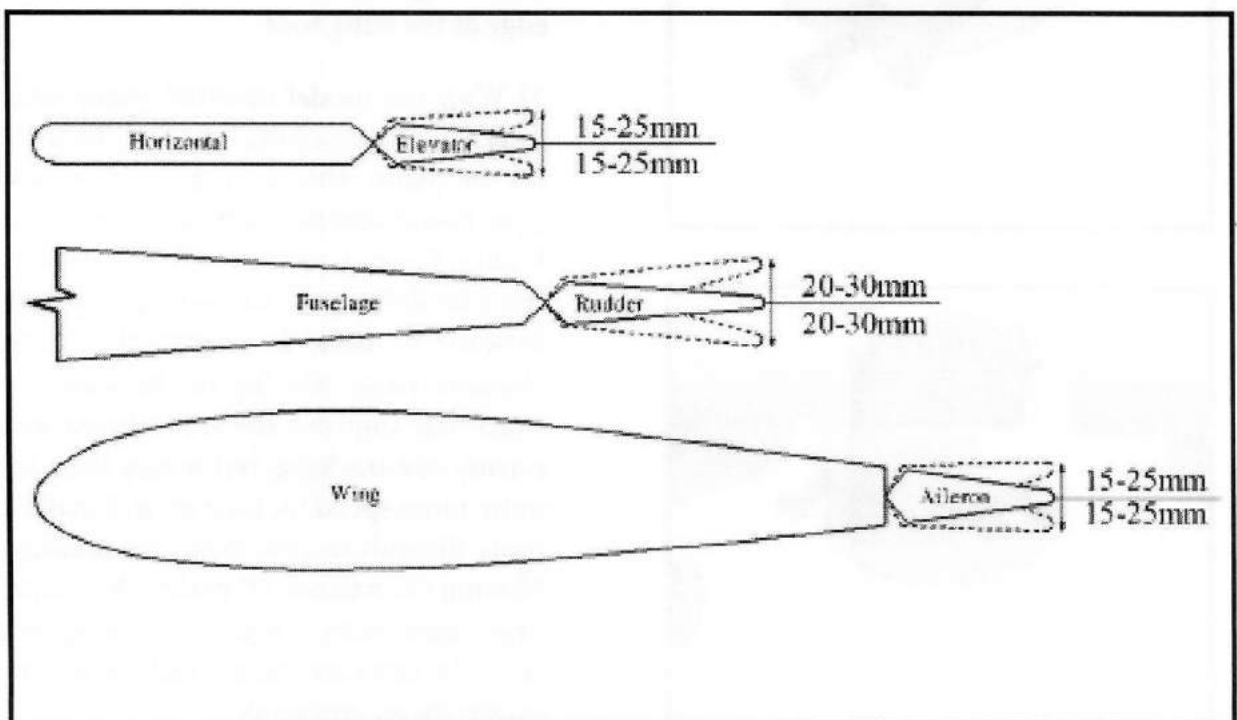


CONTROL THROWS.

Ailerons:	Rudder:
High Rate :	High Rate :
Up : 25 mm	Right : 30 mm
Down : 25 mm	Left : 30 mm
Low Rate :	Low Rate :
Up : 15 mm	Right : 20 mm
Down : 15 mm	Left : 20 mm

Elevator:

High Rate :
Up : 25 mm
Down : 25 mm
Low Rate :
Up : 15 mm
Down : 15 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 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 RANS S-20 RAVEN 20cc 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 RANS S-20 RAVEN 20cc.*

*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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