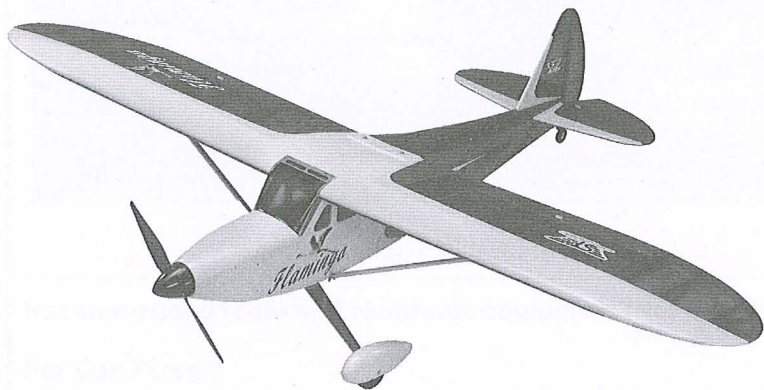




SUPER FLYING MODEL  
MANUFACTURE

**No.8624**

# Flamingo GP/EP



## **SPECIFICATIONS**

WING SPAN: 1640mm

LENGTH: 1246mm

WING AREA: 38.2 dm<sup>2</sup>

WEIGHT: 2200g

RADIO: 4ch

ENGINE: .46-.55(2C)

.60-.90(4C)

## **EP**

THRUST POWER: 2.5KGS AND UP

Recommended Battery: Li-Po 4-6 cells  
3000mAh and up

Recommended Motor: 600-900KV

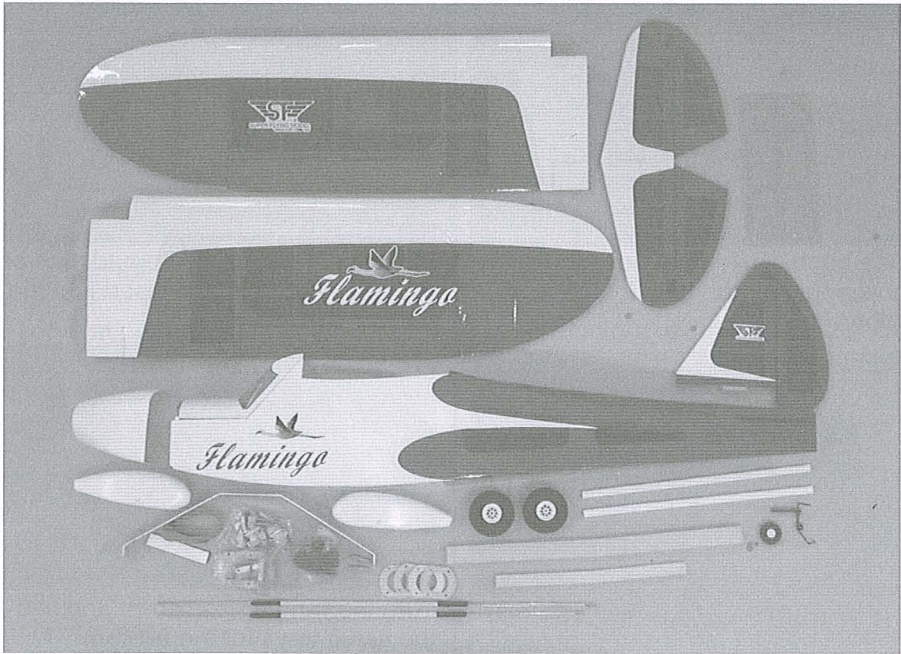
Recommended ESC: 70-80A

## **Warning**

An RC aircraft is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, following all instructions included with your radio.

Before beginning the assembly, remove each part from its bag for inspection. Closely inspect the fuselage, wing panels, rudder and stabilizer for damage. If you find any damaged or missing parts, contact the place of purchase.

INSTRUCTION MANUAL



Contents of Kit / Parts Layout

**Recommended radio and electronic equipment (Not included in kit):**

**For Gas Power:**

4 channels radio x 1 piece / Receiver x 1 piece / 45g servo x 4 pieces  
30cm extension x 2 piece  
Y-harness x 1 piece  
Engine: .46-.55(2C) or.60-.90(4C) / Receiver battery 4.8V x 1 piece  
Switch x 1 piece

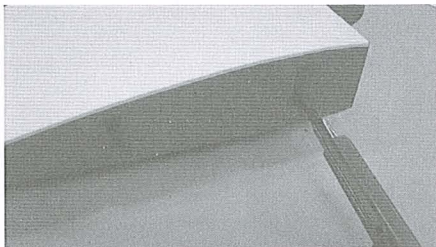
**For Electric Power:**

700 type brushless motor / Thrust power: 4 KGS and up  
Battery: Li-Po 6 cells 3000mAh and up / ESC: 70A-80A  
Alu. adaptor (must match the shaft of the motor)

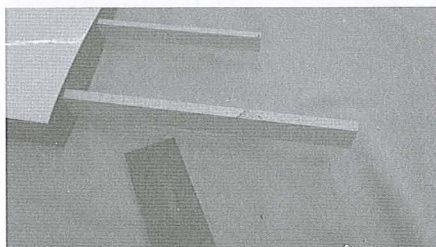
**Tools and suppliers needed (not included in kit):**

Phillips screws driver #0/#1 / 1.2/1.5/2.0/5.2mm drill / Curved scissors  
Hex wrench 1.5/2.0mm / Hobby knife / Ruler / Pliers / Z-bender  
Sanding Paper / Epoxy 5-10 minutes / Maker / CA glue / UHU foam glue  
Cross wrench / Tape Reamer / Solder Iron and solder / Heat gun  
Thread lock / Side Cutter/ Iron / Reamer / Brush

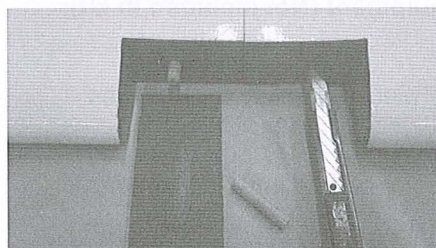




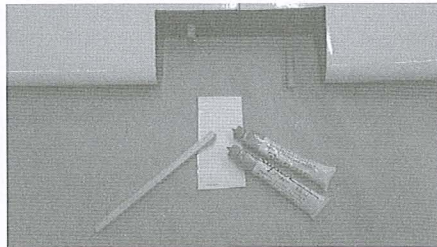
Use hobby knife to remove the covering over the hole for the wing joiner.



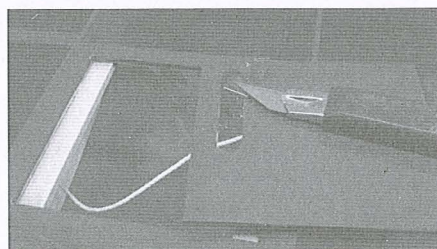
Try to insert the wing joiner into one of the wing panels. It should insert smoothly. If the fit is overly tight, it may be necessary to lightly sand the wing joiner.



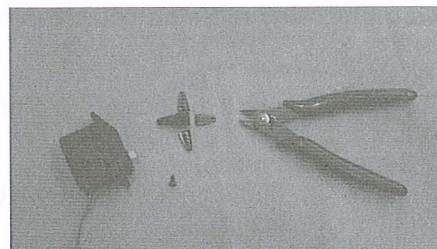
Try to find the holes on the front main wing. They are for the dowels. Take the dowels out of the hardware bag. Sanding both ends for inserting into the holes easily.



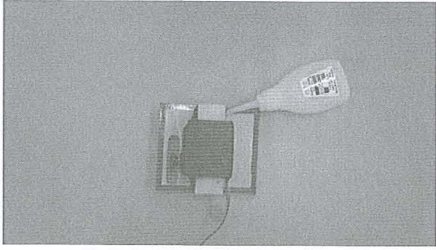
Mixed some AB glue. Spread glue on the end of dowels and insert into the holes.



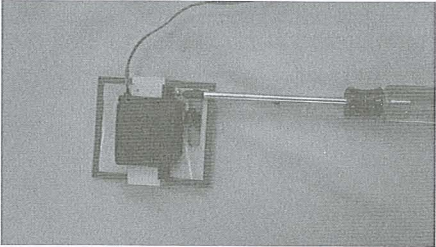
Turn the wing upside down and find the servo trays for the aileron. Using a sharp hobby knife, carefully remove the covering over the exit hold for the servo arm.



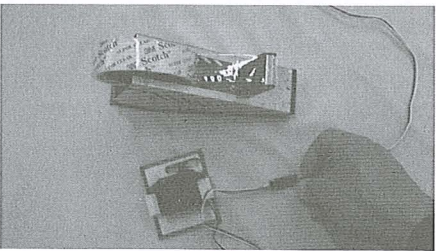
Place a 45g servo on the working table. Use side cutter to remove the extra part of the servo arm as shown.



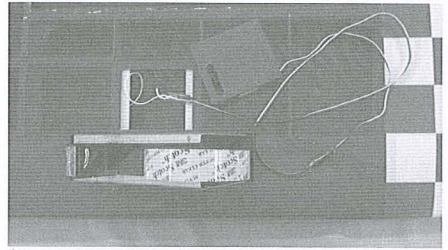
Turn on the radio. Connect the servo with battery and servo plug. Set the servo at neutral position. Secure the servo arm on the servo with the screws supplied with the servo. Take 2 pieces of 10x20x20mm block out of the hardware bag. Place the servo on the servo tray with the servo arm facing the center of exit hole. Spread some glue on one side of both block and place the blocks on two sides of servo for securing the servo on the servo tray.



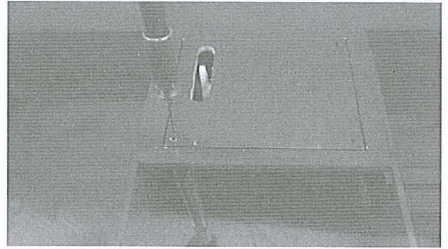
Secure the servo on the servo tray with the screws supplied with the servo.



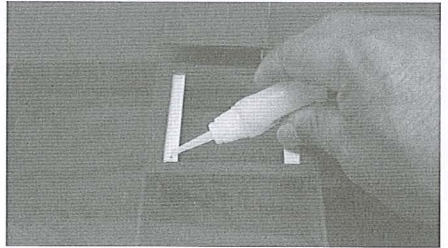
Connect the servo plug with 30cm extension. Apply some tape on the jointing place for avoiding losing off.



Use tape to connect the wire with cotton string temporary. Pull the extension out of the hole on the root of the rib. Use hobby knife to cut off the tape.

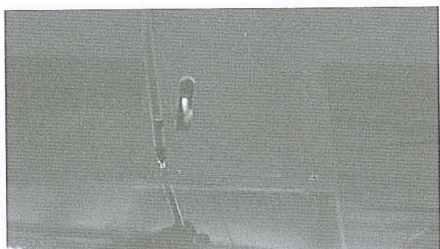


Use 1.5mm drill drill holes according to the mark on the servo tray.

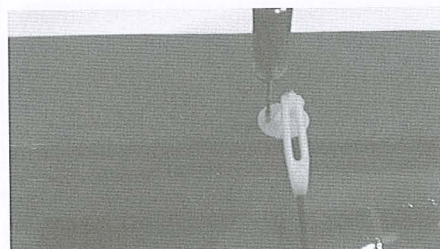


Drop some instant glue into the holes.

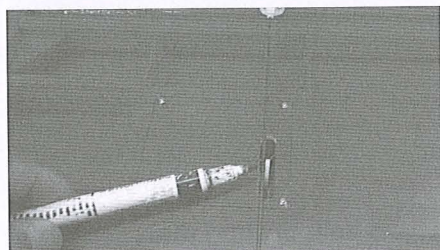




Take 4 pieces of 2.8mm tapping screws and secure the servo tray in position.



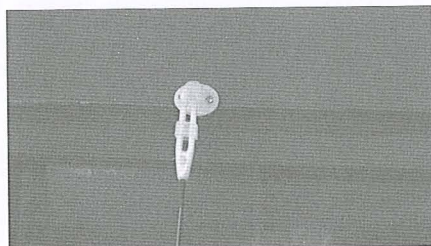
Take one piece of rod and insert through 5mm long silicone tube. Screw in the clip and connect with control horn temporary. Place the control horn on the leading edge of aileron. Adjust the rod to the center of the servo arm. Use 2mm drill to drill holes on the control horn.



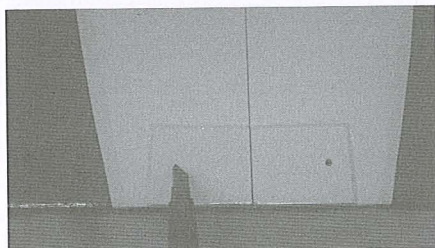
Connect the clip with control horn. Use marker to mark the position where rod contact with servo arm.



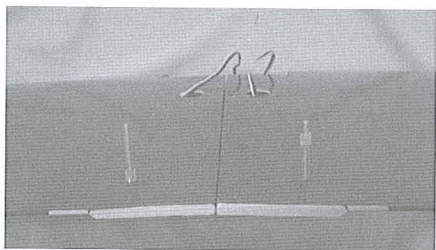
Use Z-bender to make a Z bend on the marked position. Connect the servo with battery, set the servo at neutral position. Connect the Z end with servo arm and another end with control horn.



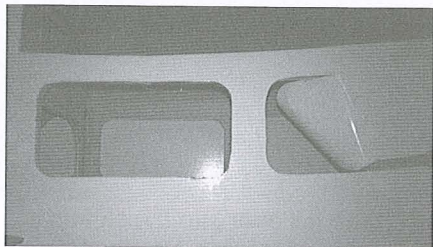
Remove the silicone tube to the clip.



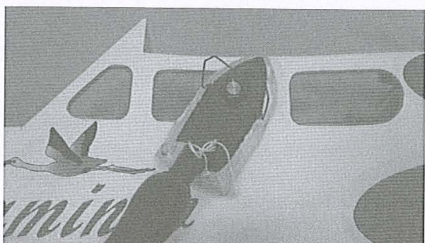
Try to find two pre-drilled holes on the rear edge of main wing. These holes are for the main wing bolts. Use a sharp hobby knife carefully to cut off the covering over the holes.



Insert the 4x40mm main wing bolts and washers through the holes. Insert 5mm silicone to the screws for avoiding losing off.



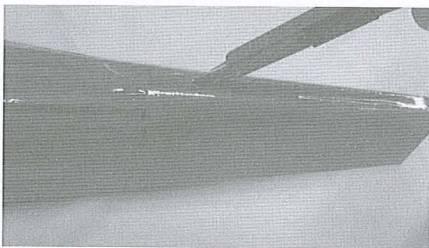
Use a sharp hobby knife carefully cut out the covering over the windows. Please keep 7mm covering on the edges.



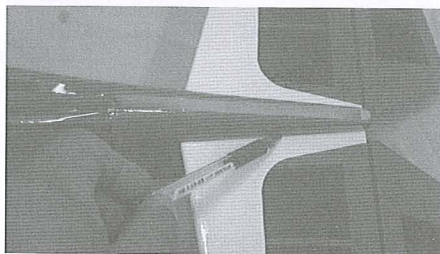
Adjust the temperature of the sealing iron to 140°C and iron the covering on the windows edges.



Use a sharp hobby knife to remove the covering over the slot for the elevator and the wood on the tail edge.

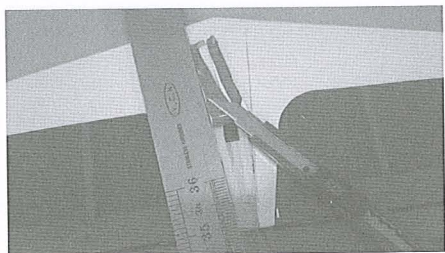


Use a sharp hobby knife to remove the covering over the slot for the vertical fin.



Place the elevator on the working table. Use ruler to measure the center position. Try to install the elevator into the tail slot and set up the center position to the center of the fuselage. When satisfy the location, use pen to mark the outline of the fuselage on the elevator.





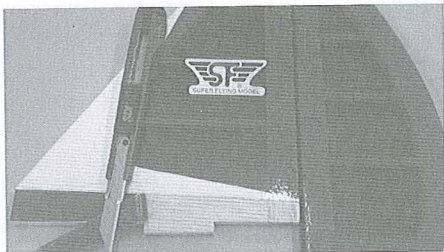
Use a sharp hobby knife to remove the elevator covering inside the marking area. Please note don't cut into the wood.



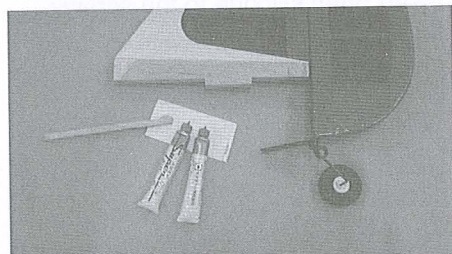
Mix some AB glue to secure the horizontal..



Try to install the vertical into the vertical slot on the fuselage. When satisfy the location, use pen to mark the outline of the fuselage on the vertical..



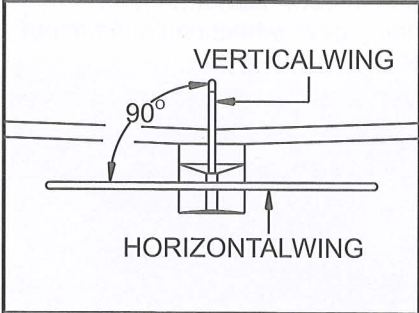
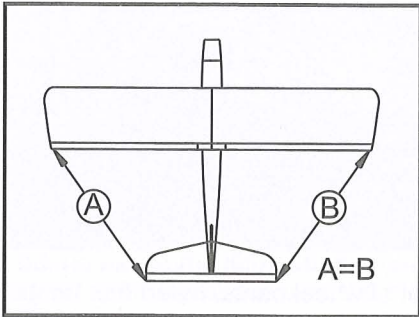
Use a sharp hobby knife to remove the covering inside the marking area.



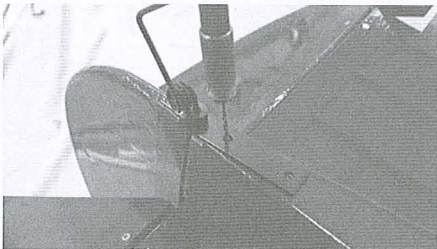
Insert the tail gear into the slot on the rudder. Mix some AB glue to secure the vertical on the fuselage.



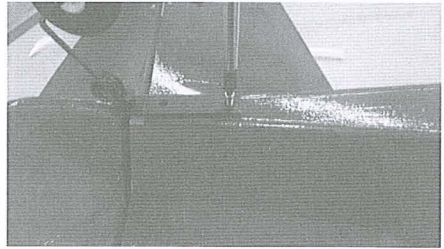
Try to install the main wing onto the fuselage. Please note the distance of both wing tips to the tail wing must be the same ( $A=B$ ). Spread some glue on the bottom of the rudder and install onto the fuselage. Please note the rudder must be perpendicular to the elevator. Apply some tapes on the rudder for holding the rudder in place before the glue dried.



Assemble the horizontal and vertical wing on the fuselage and use epoxy



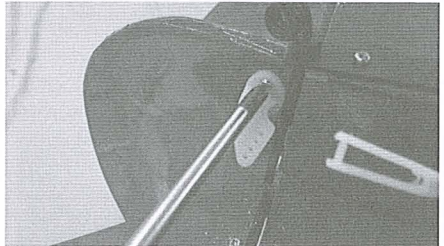
Place the tail wheel assembling on the bottom of tail. There is 1mm space between the collar and the tail end. Use 2mm driller to drill the holes to securing the tail wheel assembling.



Use 2.5x10mm tapping screws to secure the tail wheel mount in place.

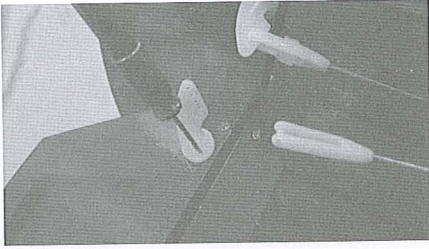


Try to place a control horn on the rudder. This control horn must face the rod for the rudder. When satisfy the location. Use 2mm driller to drill the holes for securing the control horn.

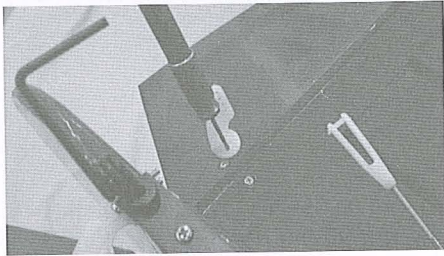


Use 2x15mm screws to secure the control horn and plate in place.

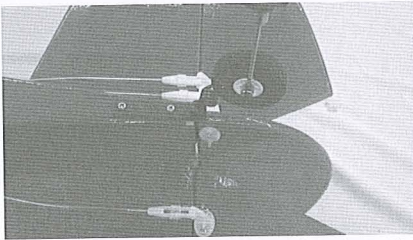




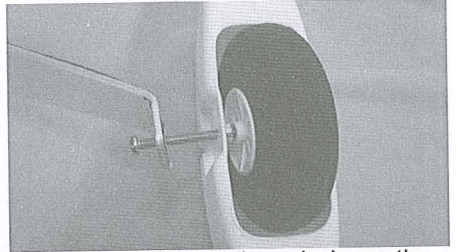
Place a control horn on the elevator. This control horn must face the elevator rod. When satisfy the location. Use 2mm driller to drill the holes for securing the control horn.



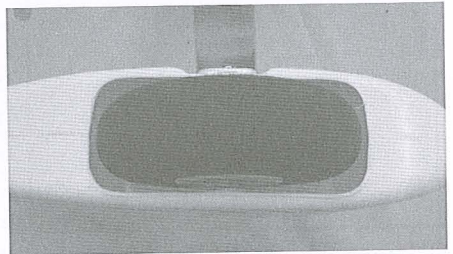
Use 2x15mm screws to secure the control horn and plate on the elevator.



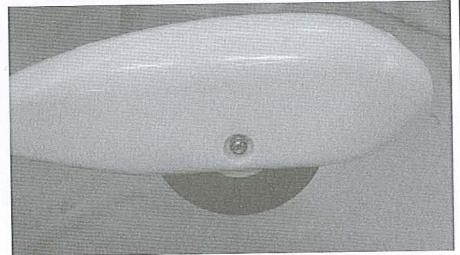
Assembling the tail wheel set as the picture shown. Insert the bended end of the tail wire into the wheel. Place a collar onto the wheel and secure the collar with 3x4mm hex-screw.



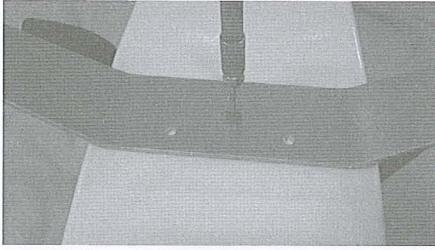
Use reamer to drill 4mm hole on the slot of wheel pants. Insert the 4mmx45mm screw insert through the landing gear, wheel pants, 4mm nut and sponge wheel.



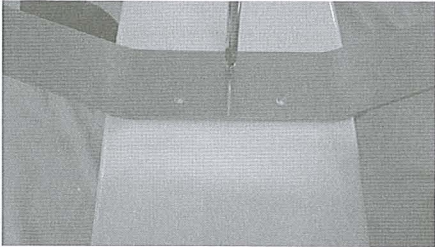
Screw the nut tightly to secure the wheel pants.



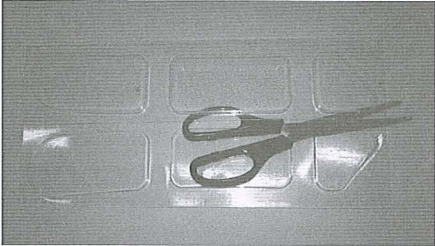
Drop some UHU glue on another nut and secure the screw. Don't screw too tight for the wheel moving freely.



Install the main gear assembling. Place the fixing plates over the main gear. Use 2mm driller to drill holes for securing the main gear.



Use 3x12mm tapping screws to secure the main gear in place.



Take the molding plastic parts (side windows) out of the hardware bag. Use the scissors to cut it from the center as picture shown. Leave 5mm edge around the windows.



Spread UHU glue over the edges of the plastic side windows and glue the side windows in place. Apply tapes over the edges to hold the windows in place and wait for the glue to dry completely.



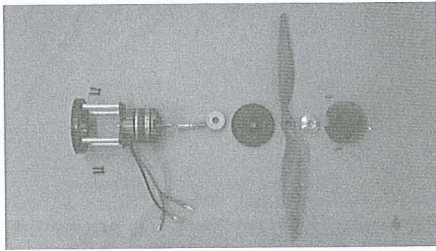
Take 4 pieces of eye-screws and rubber eyelets out of the hardware bag. Stuff the eyelets into the eye-screws.



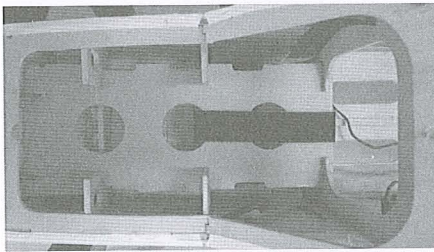
Screw the eye-screw into the drilled hole.



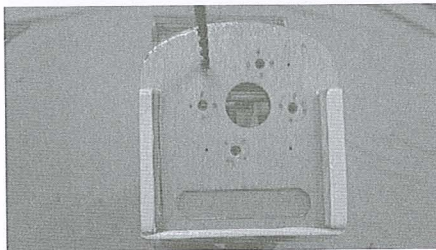
## FOR THE EP VERSION



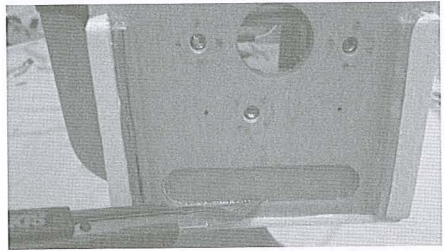
Assemble the motor with motor mount aluminum adaptor, spinner, and propeller. (The motor in this picture is HIMAX motor No:HC5018-530).



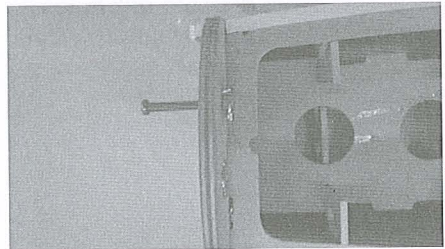
Insert the hook and loop strap through the holes on the two sides of the battery tray. Apply the strap between the battery and battery tray.



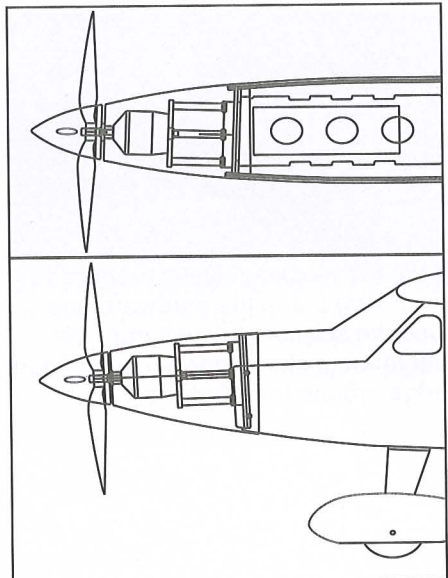
Place the motor mount on the fire wall. Centre the motor mount with the hole. Use pen to mark the position. If you are using HIMAX motor; it's no need to make any mark. The position already be marked on the fire wall. Use 5.2mm driller to drill holes on these marked position.



Use hobby knife to cut open the vent on the bottom of the fire wall.



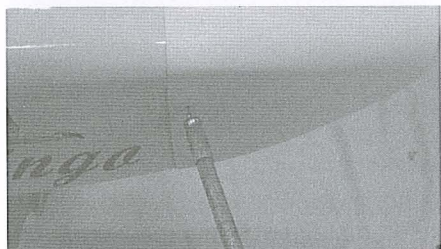
Insert the 4x30mm screw and place the blind nut on the back. Screw in the blind nut until it fix on the fire wall. Remove the screw.



After fixing the blind nut on the back of fire wall, secure the motor on the fire wall.



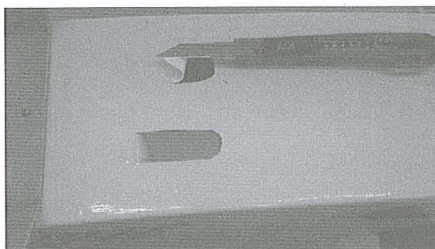
Connect the ESC with the receiver throttle. Secure the battery on the battery tray (via the hook and look strap). Connect with battery and switch the power on for checking the moving direction of the motor and ESC function.



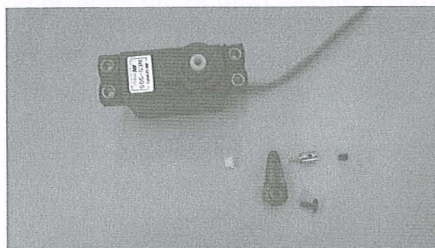
Install the cowling on the fuselage. Assemble the spinner with propeller and aluminum adaptor. Please leave 1.5mm space between the spinner mount and the cowling. It may be necessary to trim the cowling shorter if it is too long for your operation. When satisfy the installing, use 1.2mm driller to drill 2 holes on both sides of cowling.



Use 2x8mm tapping screws to secure the cowling in place.



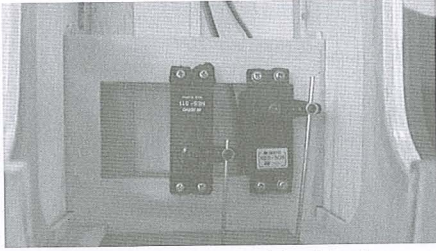
Use a sharp hobby knife to cut the vent on the bottom of the fuselage.



Take rod connectors, plastic nuts and 3x4mm hex-screws out of the hardware bag and place on the working table. Place the servo and servo arm that you purchased on the table. Drill the outer hold in a servo arm using a 2mm drill bit. Attach the rod connector to the servo arm using 3x4mm screw and nut. Don't screw too tight and make sure the servo arm can move freely.

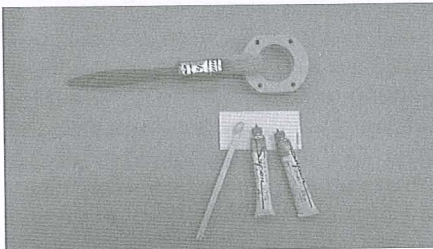
Set the servo at the neutral position and installs the servo on the servo mount. Secure the servo onto the servo mount with the screws supplied with servo.





Install the servo mount inside the fuselage and secure in place with epoxy. Please refer to the drawing B for the rods assembling. Connect the servo with receiver and test the operation and use 1.5mm hex wrench to secure the 3x4mm hex-screws. Move the silicone tubing over the connector for avoiding losing off during flying.

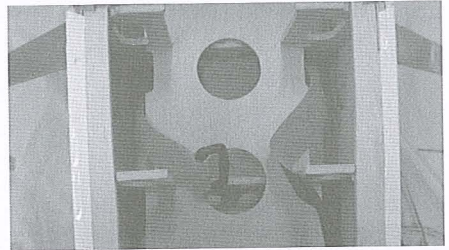
#### FOR GP FLYING



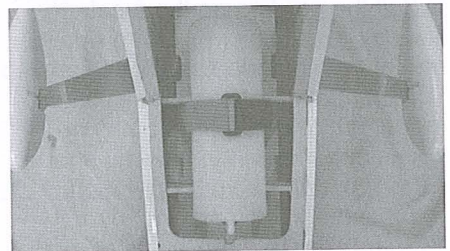
Take 3 pieces of planking out of the hardware bag. Use epoxy to glue them together and place on the fire wall (center the pre-serving holes on the fire wall). Spread some epoxy (30 minutus) on the outside for preventing oil during flying.



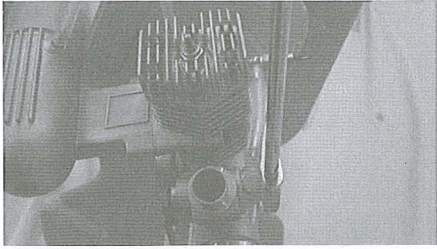
Place engine mount on the firewall and match the holes of the engine mount to the 4mm screw holes on the firewall. Secure the engine mount in place with 4x30mm screws and blind nut.



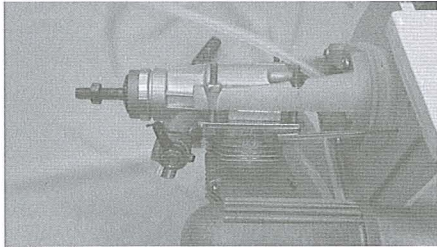
Insert a piece of hook and loop strap through the battery tray.



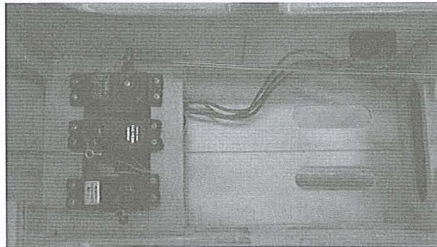
Place the fuel tank after the firewall and use hook and loop strap to secure the fuel tank in place.



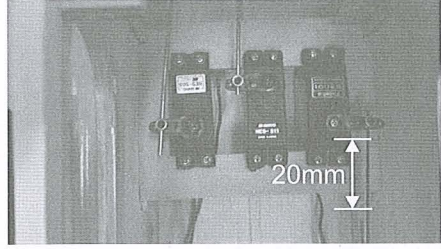
Install the engine on the engine mount and secure it in place with engine mount plates, 4x30mm screws and 4mm nuts.



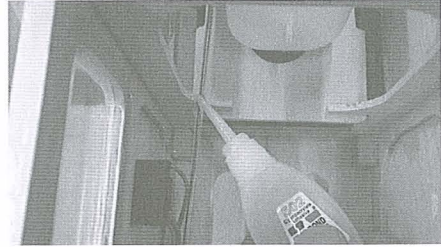
Use Z bender and make a Z bend on the throttle rod and connect with throttle control arm. Connect the fuel tubing which attached with clunk with the carburetor.



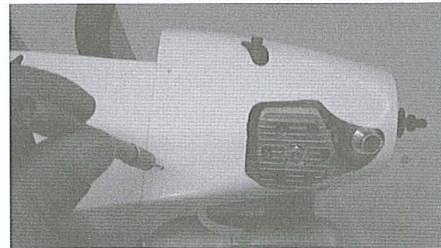
The first servo connect with throttle rod. The second servo with connect with elevator rod. The third servo with connect with rudderrod and tail gear.



Keep 20mm space between throttle out-tubing and push rod.



Secure the out tubing on the side of fuselage with instant glue



Apply the muffler sticker around the plastic muffler on the cowling. Try to fit the cowling on the fuselage. Adjust the location of cowling. When satisfy the location, use a hobby scissors to open the exits for muffler and carburetor. Use 1.5mm drill bit to drill two holes on two sides of cowling.





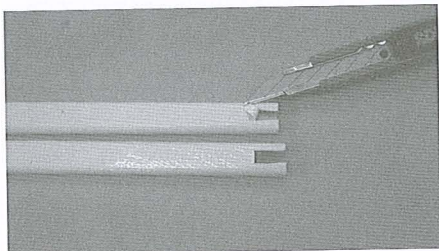
Use 2x8mm tapping screws to secure the cowling in place.



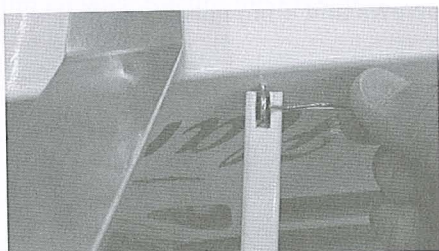
Install the muffler and contact the fuel tube.



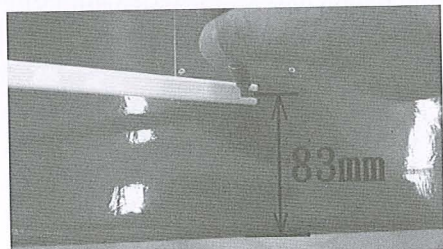
Install the main shaft of engine into the spinner mount. Place the APC 11x6 propeller (propeller for .46 engine.). Secure it in place with washer, nut. Place the spinner on the top and secure it in place with 3x12mm tapping screws.



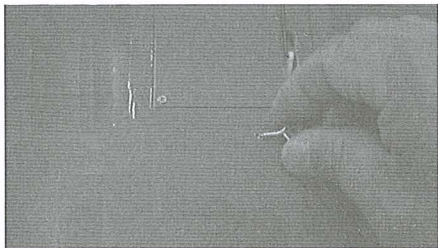
Take the main wing strut on the working table. Use a hobby knife to cut off the covering over the slot.



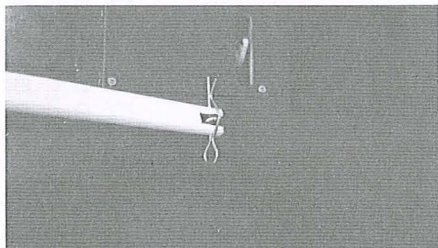
Install the main wing onto the fuselage. Connect one end of the main wing strut with eye screw on the fuselage and secure with R pin.



Place the other end on the main wing around 83mm back from the leading edge. Use 1.5mm drill bit to drill hole.



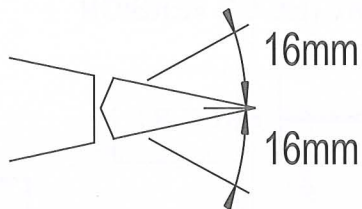
Screw in one eye screw on the hole.



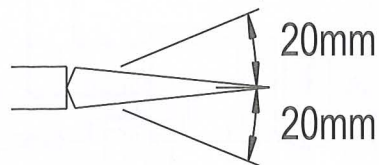
Connect the end of wing strut with eye screw on the main wing and secure with R pin.



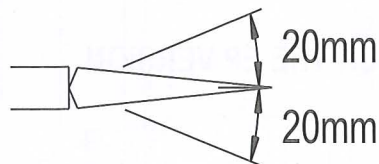
The recommended Center of Gravity location is 84mm back from the leading edge.



**AILERONS THROW**



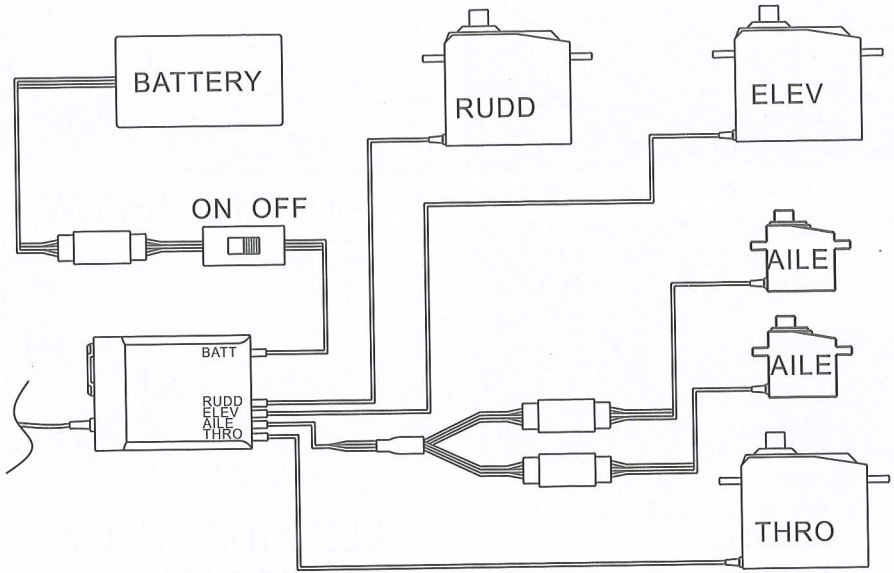
**ELEVATOR THROW**



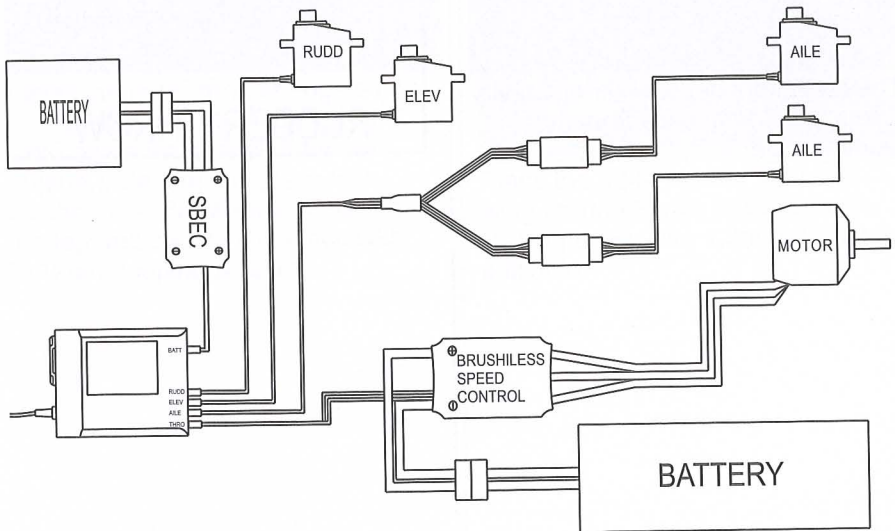
**RUDDER THROW**



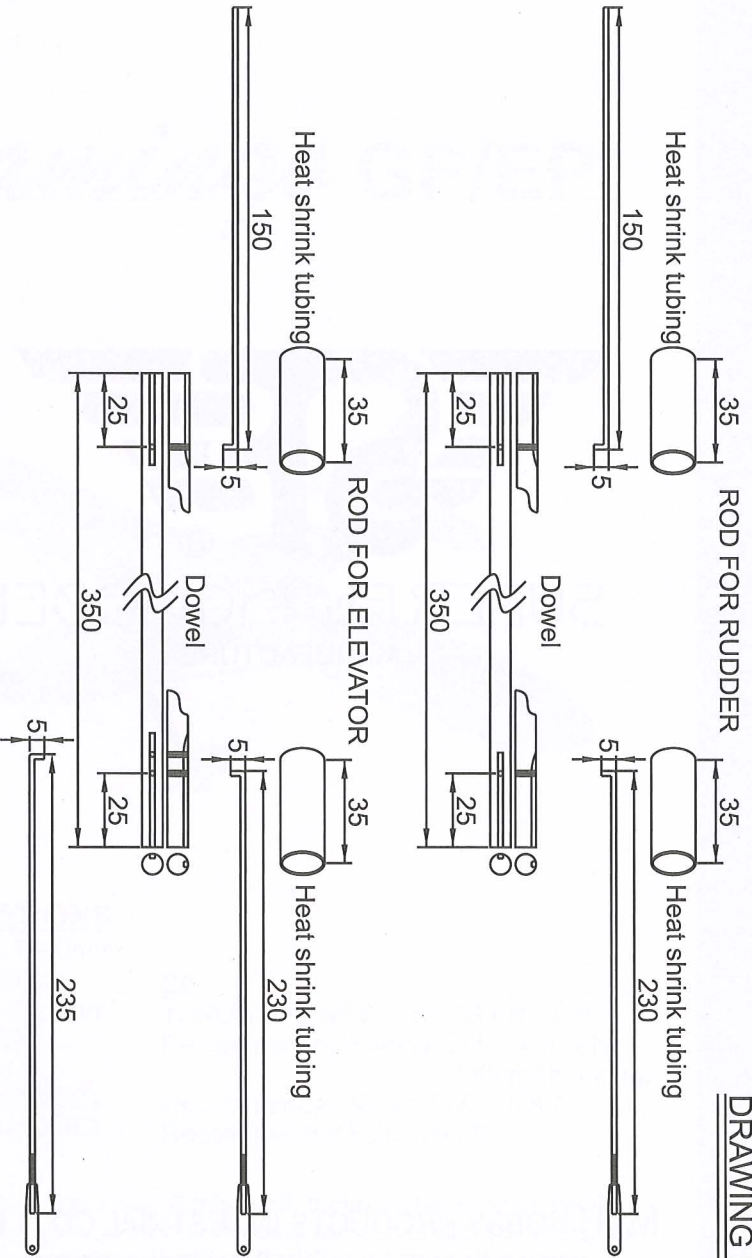
## FOR THE GP VERSION



## FOR THE EP VERSION



## DRAWING B



Use nipple pliers to cut the rod as the sizes indicated on the drawing. Bend the threaded end into 90 degrees and insert into the slot on the dowel. Secure it on the place with instant glue. Slide a piece of 35mm heat shrink tubing over the end of dowel and shrink it in place using a heat gun.