

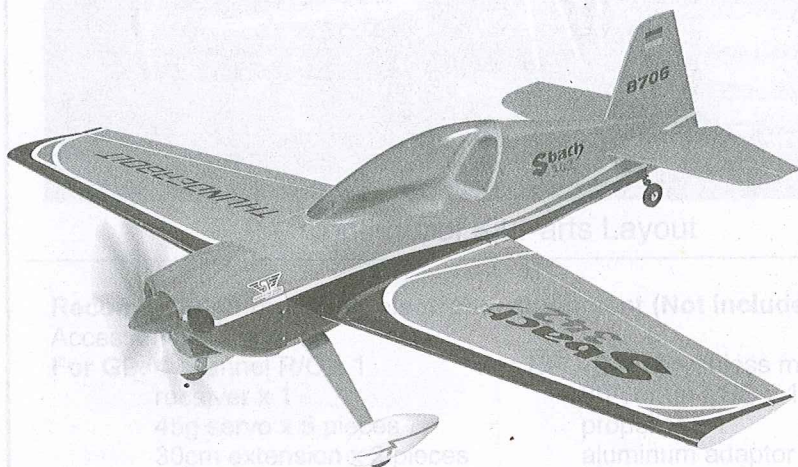


SUPER FLYING MODEL
MANUFACTURE

Sbach 342

THUNDERBLOT

EP/GP



No. 8706

SPECIFICATIONS

WING SPAN: 1600mm

WING AREA: 54.5 dm²

LENGTH: 1380mm

WEIGHT: 2800g

ENGINE: .60- .70

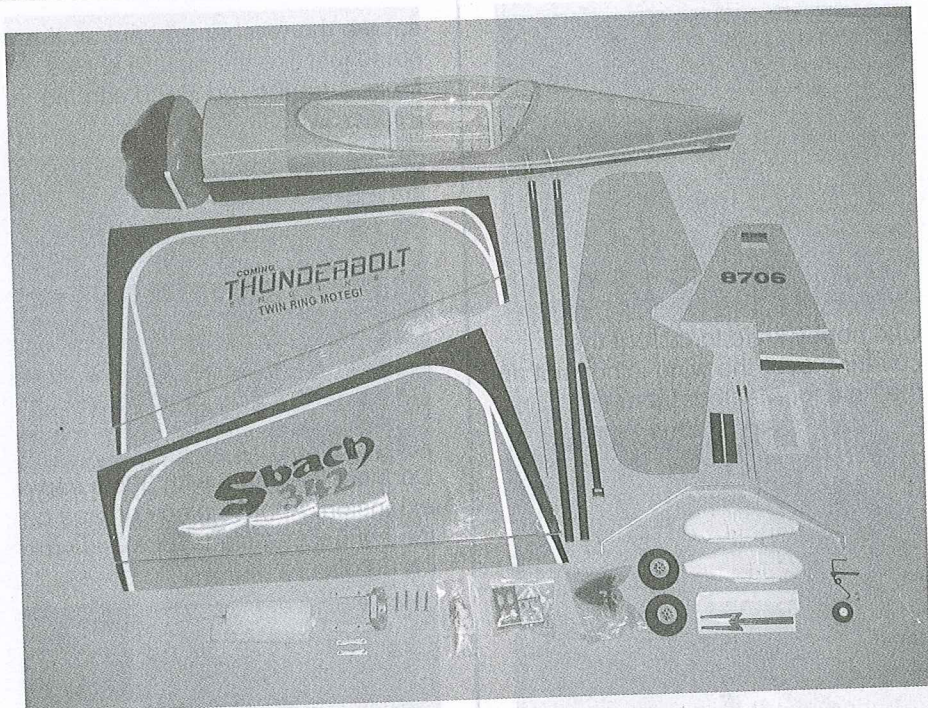
RADIO: 4 CHANNELS

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):

Accessories:

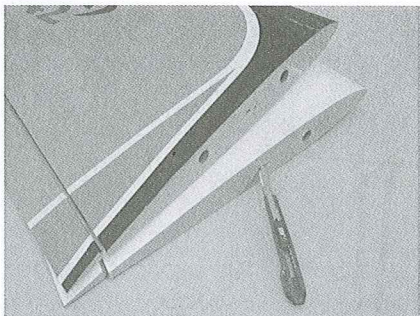
For GP: 4 channel R/C x 1
 receiver x 1
 45g servo x 5 pieces
 30cm extension x 2 pieces
 Y-harness x 1

For EP: 400kv brushless motor x 1
 80A or up ESC x 1
 propeller x 1
 aluminum adaptor x 1
 6 cells Li-Po 4000mAh or up x 1

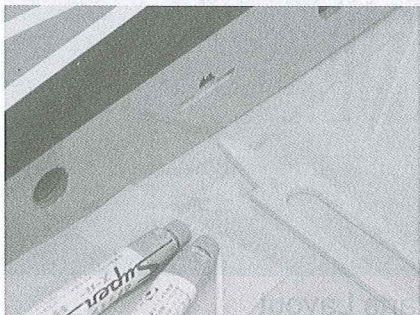
Tools and suppliers needed (not included in kit)

1.5mm hex wrench
 Cross wrench
 Curved scissors
 Tissue
 Nipple pliers
 Phillips driver and file

1.3mm/1.5mm/ 2mm drill
 Instant glue
 Tap
 Epoxy
 Foam glue and Z-bender



Use hobby knife to cut out the covering over the wing joiner slot and the hole for the fiber tube.

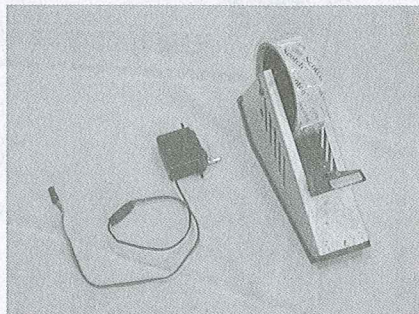


Take the wing joiners out of the hardware bag. Try to insert the wing joiners into the slot. If there is any flash, use sanding paper to remove it. Spread some epoxy on the wing joiner tip and secure it on place.



Take out the adjustable rod stand, M3 hex screw and washer from the hardware bag. Drill a 2mm hole on the servo arm. Install the hex screw on the stand. Use 1.5 hex pliers to

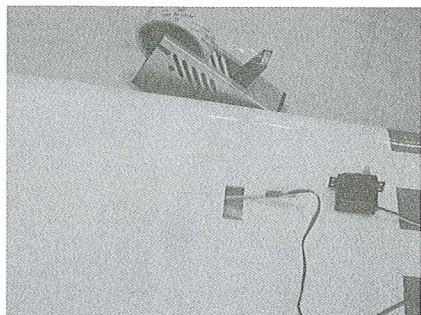
secure the washer and nut on the stand just like the picture shows. Make sure the rod stand can move freely.



Connect the servo with 30cm servo extension. Apply a piece of tape on the connecting place for avoiding losing off.

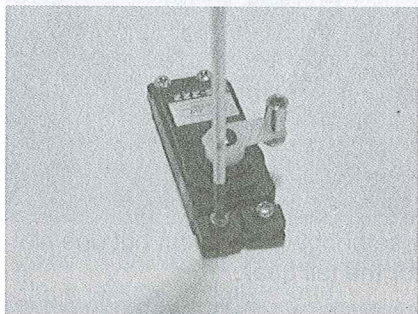


Find the pre-serving servo-mounting hole on the main wing. Use hobby knife to cut off the covering over the hole. Take the throttle out-tubing as a guide wire. Insert the tube from the second hole on the rib to the servo-mounting hole. Use pliers to pull out the tube.

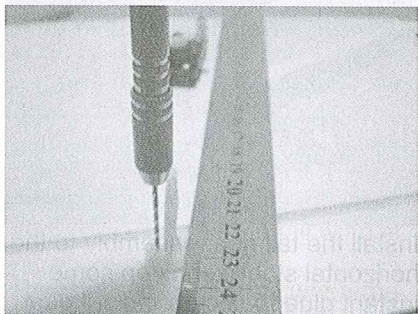


Use tape to secure the end of the servo extension on the throttle-out-tubing for temporarily. Pull the other end of tube until the servo extension is out of the rib.

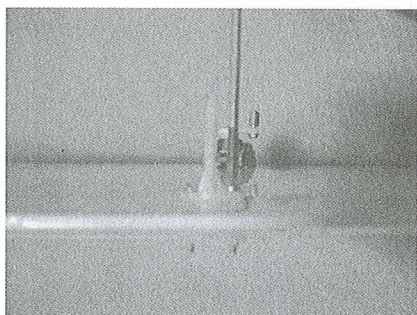
Remove the tape from the tube.



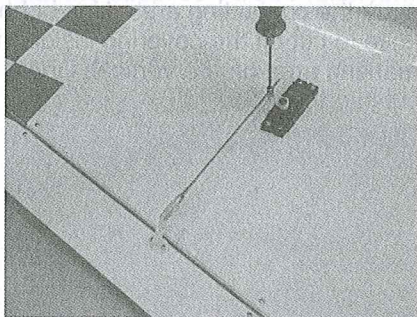
Install the servo on the main wing and secure it with the screw supplied.



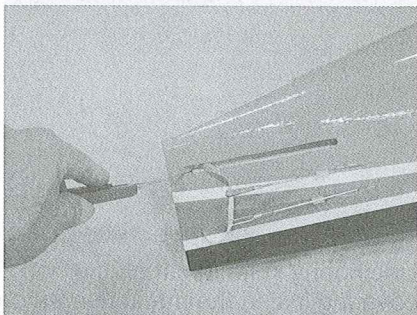
Set up the position for the control horn. Control horn and servo arm must on the straight line. Use 2mm drill to drill holes for securing the control horn.



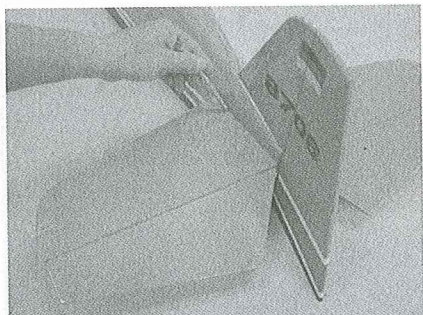
Secure the control horn with 2mm x 15 screws.



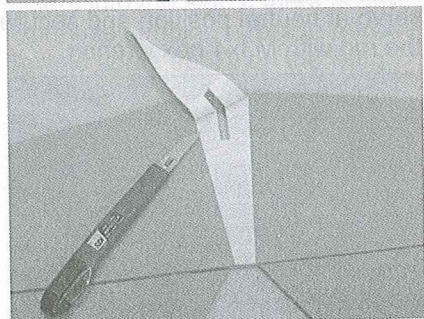
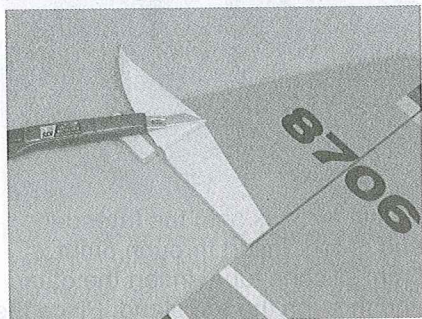
Screw a clevis onto the threaded end of rod. Insert through 5mm x 5mm silicone tube. Insert the other end through the rod stand. Place the servo at neutral position and secure the rod with M3x4 hex wrench.



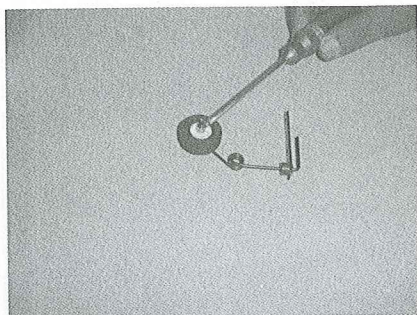
Use hobby knife to remove the covering over the slots for the horizontal and vertical.



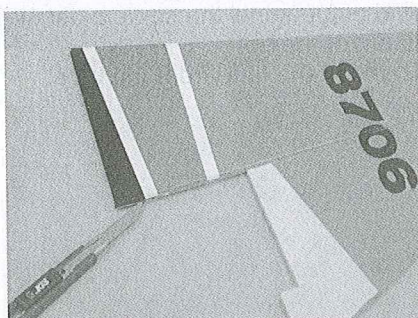
Try to locate the vertical and horizontal in place. Use pencil to mark the contacting area. Use hobby knife to cut off the covering inside the marking area on the vertical. Don't cut into the wood.



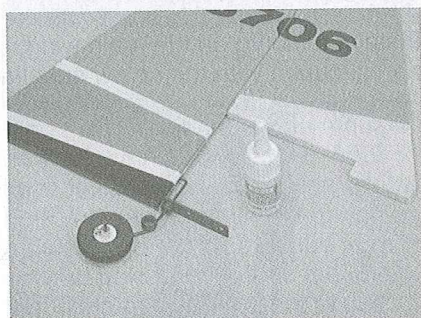
Use hobby knife to cut off the covering inside the marking area on the horizontal.



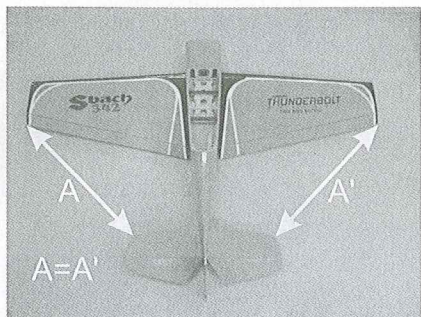
Install the tail wheel onto the tail gear and secure it with the supplied tail wheel collar and screw.



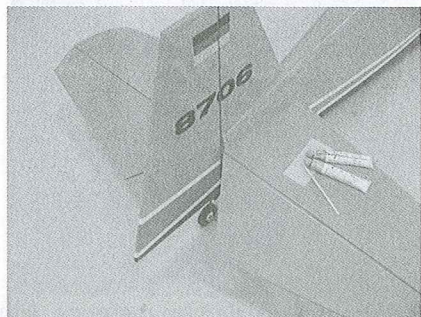
Use hobby knife to cut out one slot for the tail gear.



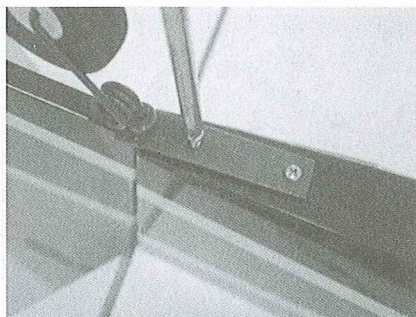
Install the tail gear assembly to the horizontal stabilizer. Drop some instant glue to secure the tail gear inside the slot.



Place the wing onto the wing saddle of the fuselage, approximately aligning the wing center with the centerline of fuselage.

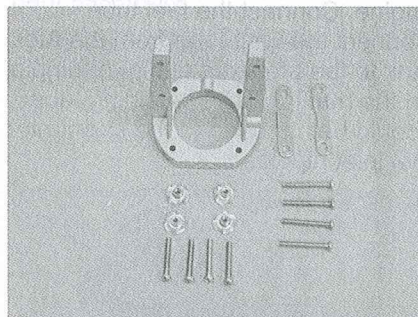


Place vertical stabilizer and horizontal stabilizer on the fuselage. Align the horizontal stabilizer by measuring from a fixed point on the wing to the outside of the trailing edge tip of the horizontal stabilizer. Be sure that the leading edge stays on its center mark. Adjust the stabilizer until you have an equal distance on both the right and left sides of the stabilizer to the wing. Use epoxy to glue the tail wing in place. Remove the main wing when the glue dries completely



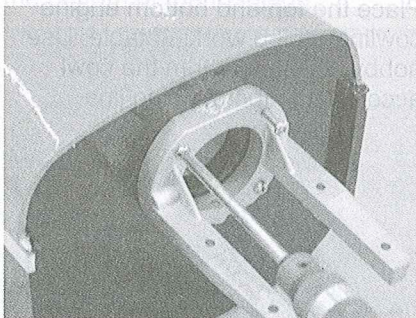
Secure the tail gear onto the fuselage with the supplied screws (2.6x10mm tapping screws).

For the 2-stroke GP Version

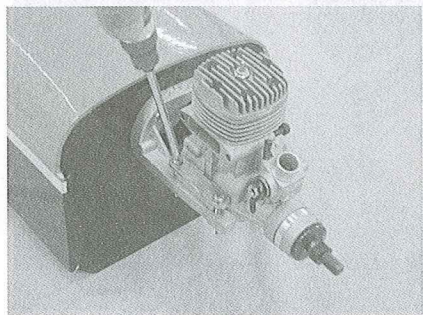


Take the following accessories out of the hardware:

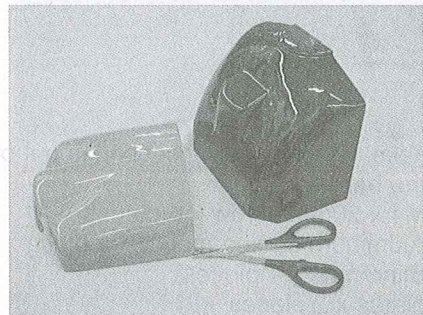
- M4 x 20mm screw x 4 pieces
- Aluminum engine mount x 1 piece
- Blind nuts x 4 pieces
- plates x 2 pieces



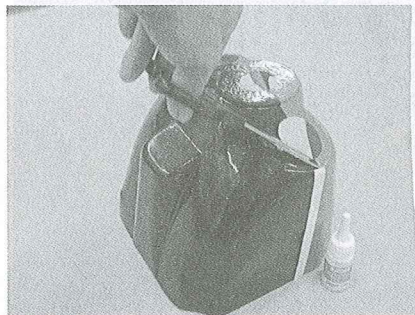
Place the engine mount on the firewall as indicated on the picture and secure it in place with the screws and nuts supplied.



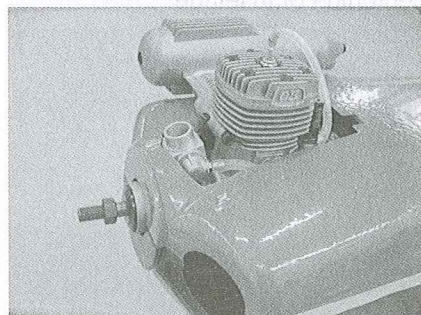
Secure the engine on the engine mount with plates, M4x30mm screw and 4mm nuts. Install the muffler per the instruction included with the engine. Connect the fuel tube. Connect the vent tube from the fuel tank to the pressure fitting, or nipple, on the muffler. The remaining tube should be attached to the carburetor fuel inlet nipple.



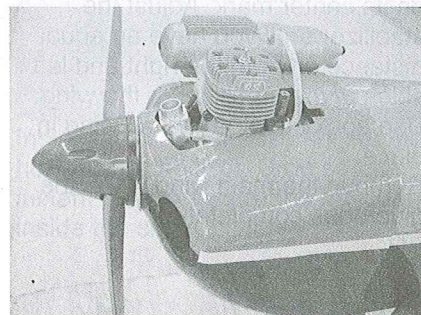
Place the top and bottom engine cowlings on the working table. Use hobby scissors to trim the cowl according to the molding line.



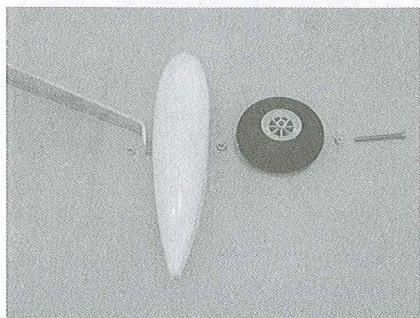
Cut opens the in-take. Use instant glue to secure the top and bottom cowlings together.



Secure the cowlings on the nose with 2 x 6 mm screws. Please leave 1mm space between the cowlings and spinner back plate. Try to fit the cowlings over the engine. Then mark the openings for the engine parts. Use hobby scissors to cut off the marked area.

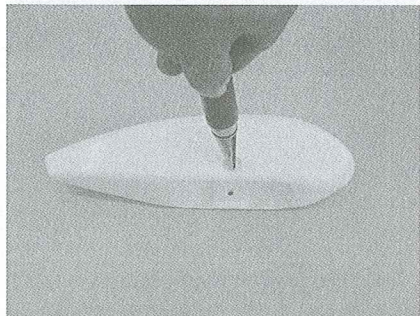


Install the spinner set w/propeller. Secure the spinner with 3 x 10 screws.

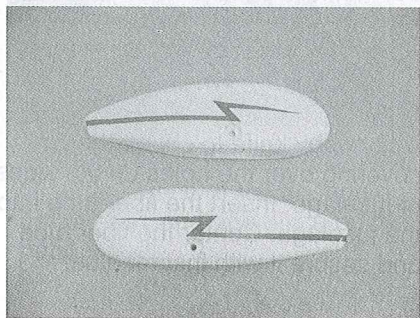


Take out the landing gear accessories (as following) from the hardware bag:

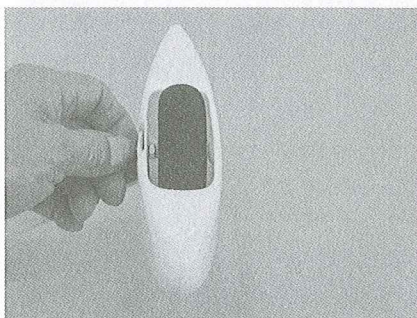
Aluminum landing gear	x 1 pc
wheel pants	x 2 pcs
M4 x 40mm screw	x 2 pcs
4mm nuts	x 6 pcs



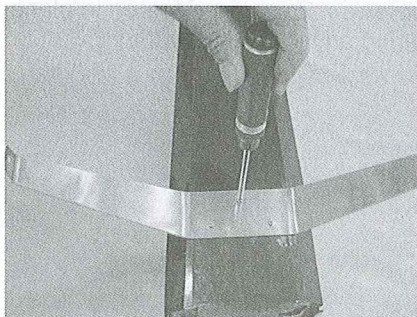
There is a "dimple" in each side. Use these dimples as a guide to drill a 4mm hole completely through the wheel pant using reamer.



Apply the decal sheet on the wheel pants.



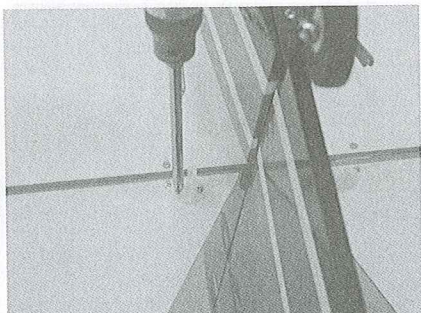
Using M4 nut to secure the wheel pant assembly on the aluminum landing gear. Repeat the same procedure on another side of wheel pant assembly.



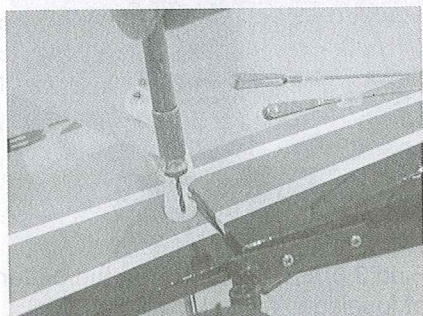
Find 3 pre-drilled holes on the bottom of fuselage. Try to locate the aluminum landing gear over it and use 3 x 12mm tapping screws to secure the aluminum landing gear on the bottom of the fuselage.



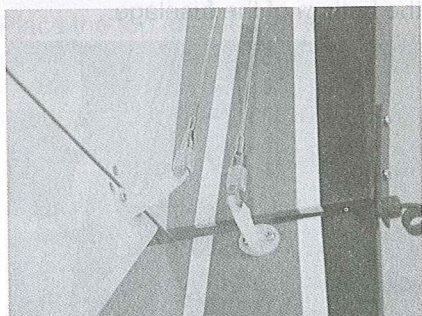
Use driller to drill 2mm hole on the elevator



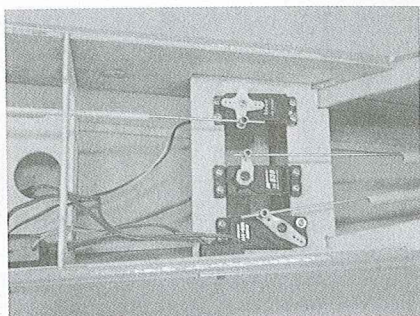
Place the center of the control horn on the elevator at the hold drilled in the previous step. Attached the elevator control horn using the hardware provided (M2 x 12mm screws x 2 pcs) and fasten in place using a Phillips screwdriver.



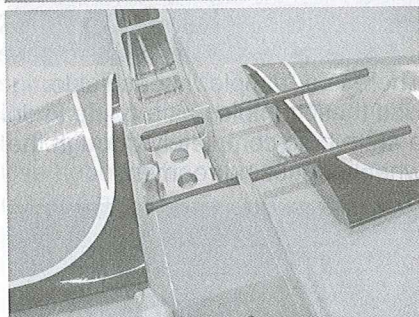
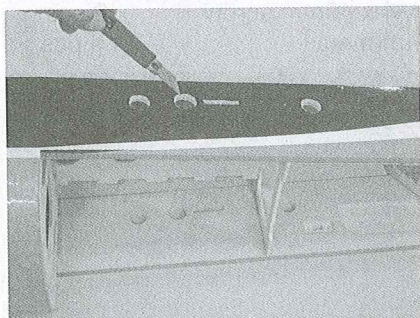
Drill 2mm holes on the rudder. Repeat the same procedure to attach the rudder.



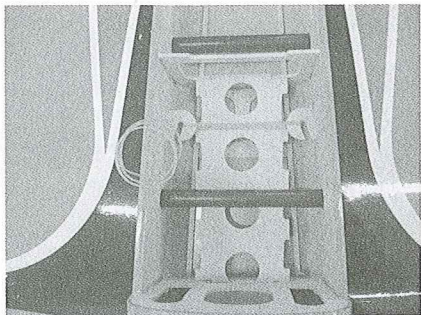
Place a piece of silicone tubing over the clevis as extra insurance to prevent the clevis from accidentally coming open.



Install the servos for rudder, elevator and throttle. Please note that the servos must be in neutral position. Install the battery pack



Use hobby knife to cut off the covering over the holes on the sides of fuselage. Insert the fiber tube into the fuselage. Center the fiber tube and secure it with instant glue.



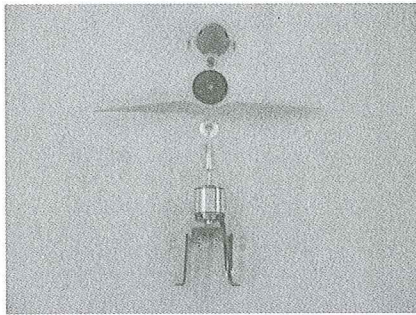
Install the wing halves. Use rubber band (1.5-2.0mm, 40-50mm length) to secure the wing halves together.



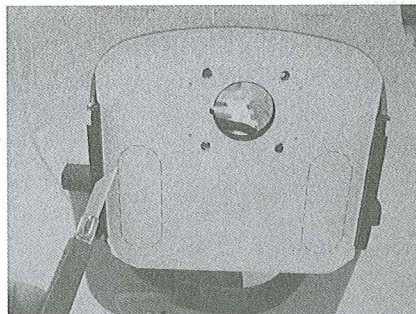
Use hobby knife to cut off the planking according to laser-cutting line for installing the fuel tank.



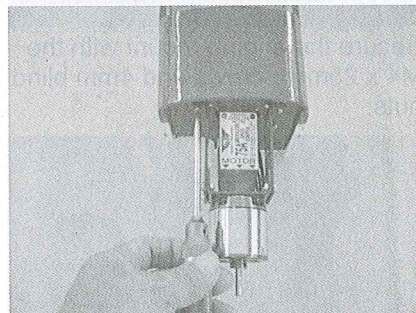
Glue one piece of Velcro tape on the battery tray and one piece on the battery pack.



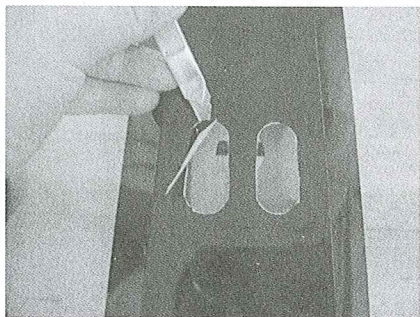
Assemble the power unit as indicated in the picture.



Use hobby knife to open the in-take on the firewall.

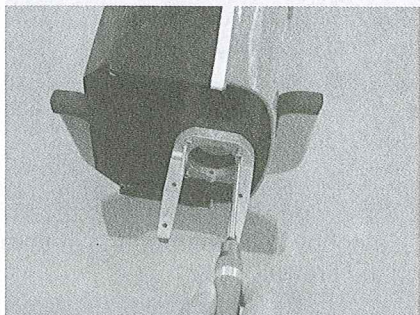


Find 4 holes (1.5mm) on the firewall. Secure the motor mount on the firewall using 3x10mm tapping screw. Assembling the power unit on the motor mount.

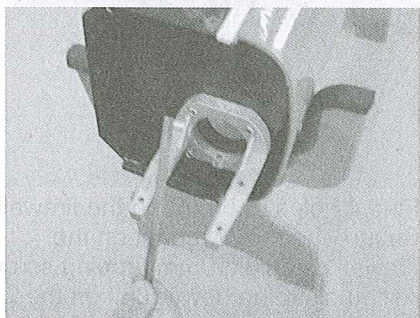


b Use hobby knife to cut off the in-take and cooling hole on the bottom of fuselage.

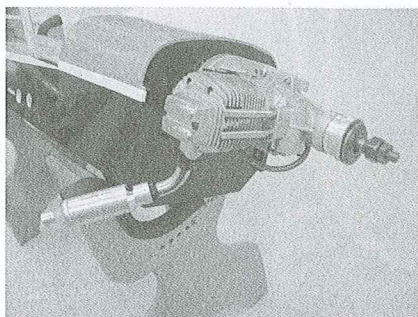
FOR THE GP VERSION, 4 CYCLE ENGINE



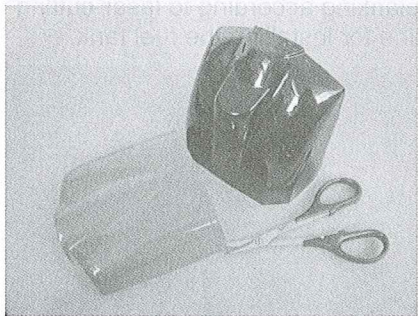
Secure the engine mount with the M4 x 25mm screws and 4mm blind nuts.



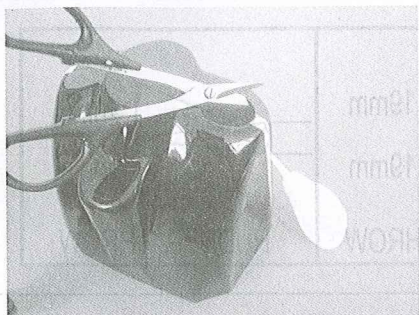
The engine of .90-.120 is larger and cannot be fitted into the engine mount. Please use file to trim the engine mount for fitting the larger engine.



Secure the engine on the engine mount with 4x30mm screws and nuts. Use Z-bend pliers; make a Z-bend at one end of the throttle rod and insert into carburetor. Attached the clevis to the throttle lever of the carburetor. Place the silicone tube inside the carburetor. Install the muffler per the instructions included with the engine. Connect the fuel tube. Connect the vent tube from the fuel tank to the pressure fitting, or nipple, on the muffler. The remaining tube should be attached to the carburetor fuel inlet nipple.



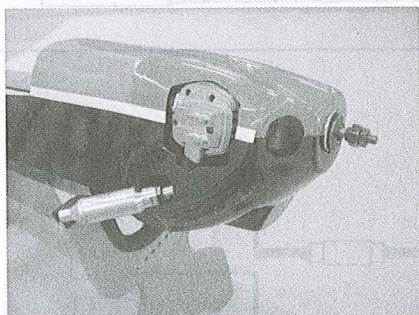
Place the top and bottom engine cowl on the working table. Use hobby scissors to trim the cowl according to the molding line.



Cut opens the in-take. Use instant glue to secure the top and bottom cowlings together.



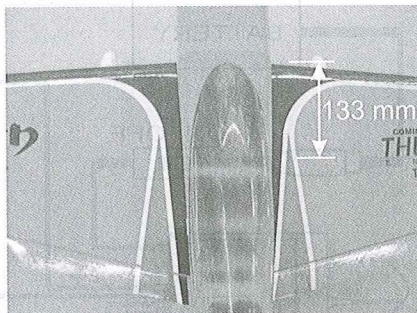
Apply the white decal strap on the conjunction place.



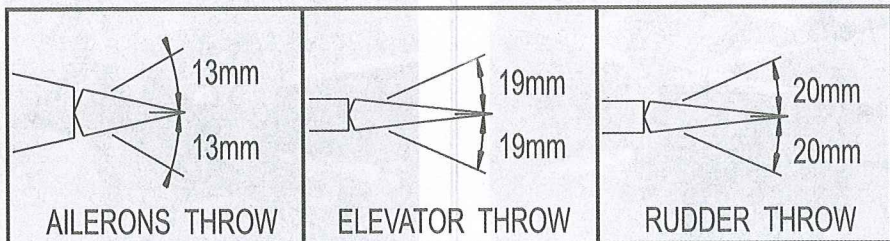
Use curved scissors to cut the openings according to the engine. Try to fit the cowl over the engine. When satisfy the location, use tape to hold the cowl in position, then mark two screw holes location on each side of the cowl.



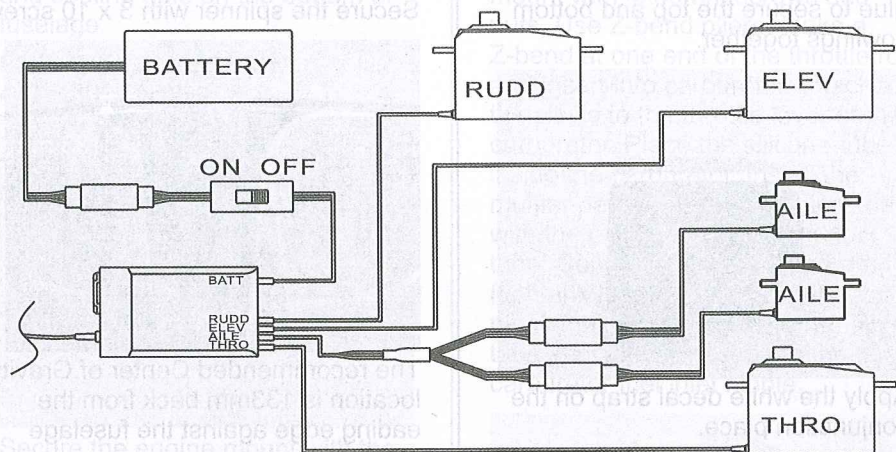
Install the spinner set w/propeller. Secure the spinner with 3 x 10 screw.



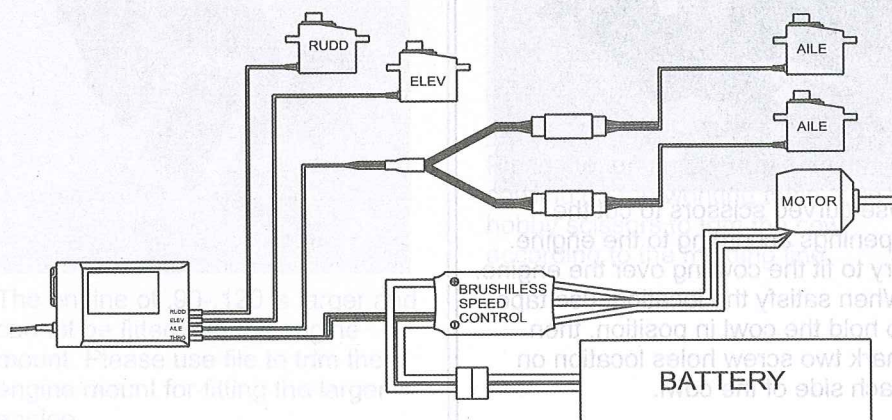
The recommended Center of Gravity location is 133mm back from the leading edge against the fuselage

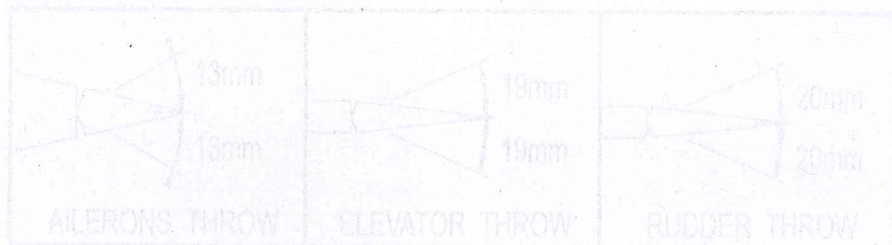


FOR THE GP VERSION

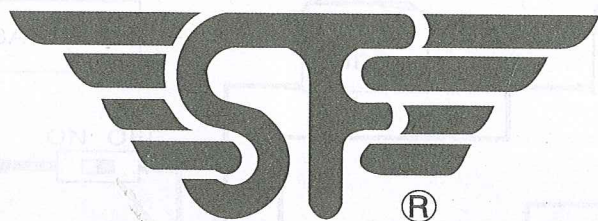


FOR THE EP VERSION





FOR THE GP VERSION



SUPER FLYING MODEL
MANUFACTURE

FOR THE EP VERSION

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