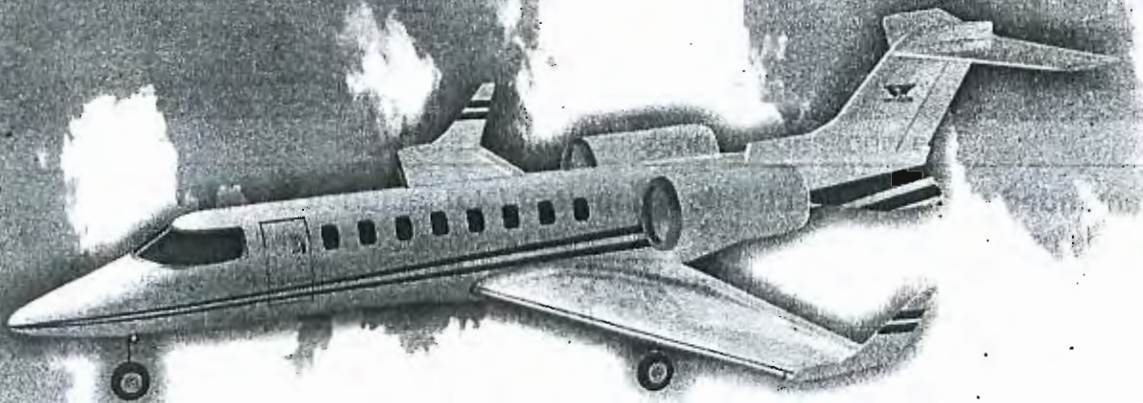




SUPERFLYINGMODEL

SF AIRWAYS-45



No. EP-29

SPECIFICATIONS

WING SPAN:1141 mm(50 in)

WING AREA:23.8 dm²(400 sq.in)

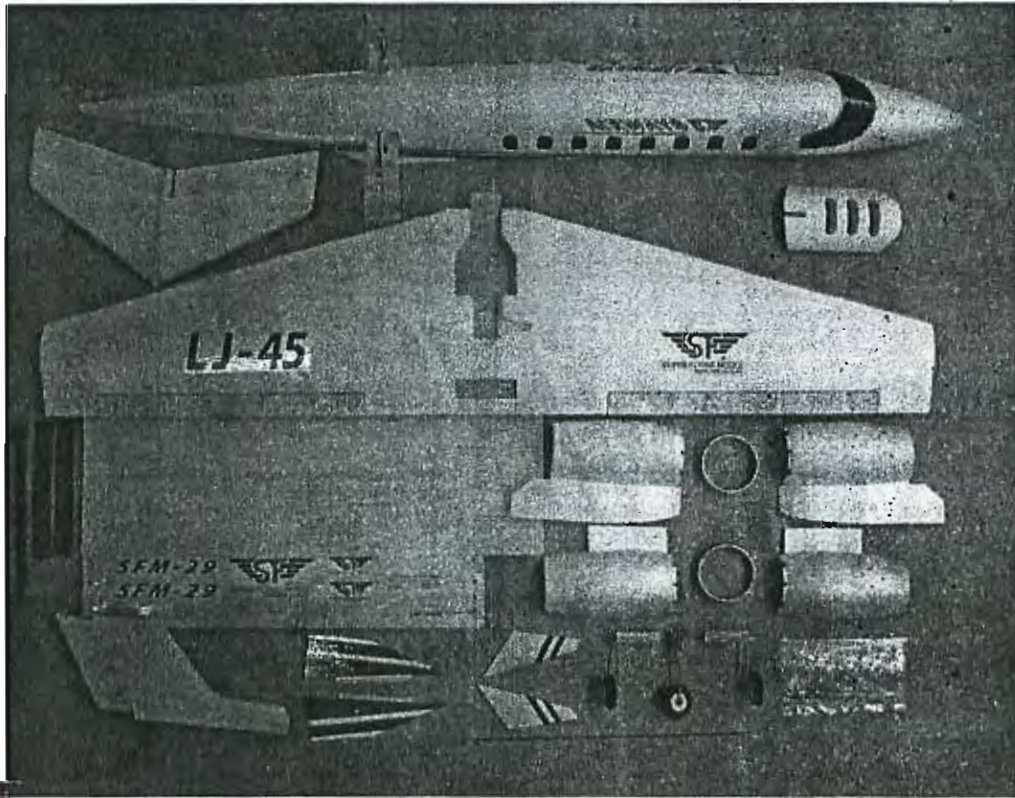
LENGTH:1290 mm(50.7 in)

WEIGHT:1100~1200g(2.4~2.6 lbs)

MOTOR:3500 KV BRUSHLESS

RADIO:4Ch

INSTRUCTION MANUAL



The whole accessories including in this kit.

Recommended radio and electronic equipment (Not included in kit)

- | | |
|---|---------------------------------------|
| 4 Channels or up Radio | 20A or up Speed Control x 2 pieces |
| Mini Servos 13g x 2 pieces (2KG torque) | Li-Po 1500-2100 3 cells battery pack |
| Retract x 2 pieces | 1. If equip with retract, please add: |
| Micro servo 9g x 2 pieces | Mini servo 13g x 2 pieces. |
| Y-Harness x 1 piece | Y-Harness x 1 piece |
| Receiver | Extention x 1 piece |

Optional accessories



#2421
30A brushless Speed Control



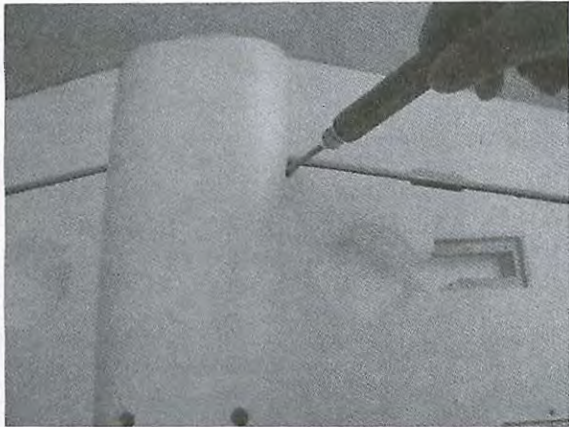
#2200-9-3500
3500KV brushless motor



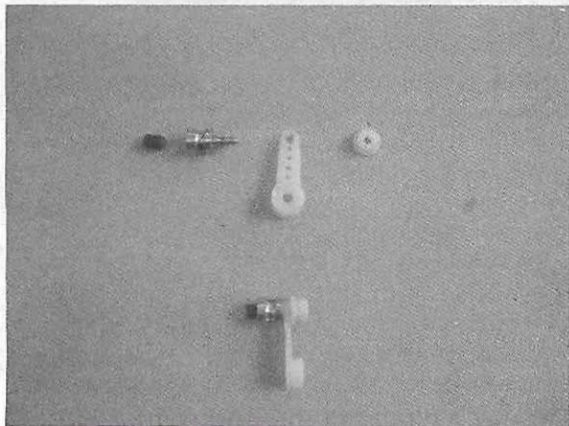
#3501-B
Retract

Required Tools and Adhesives

- | | | |
|----------------------|----------------------------|------------------------|
| Z bender | Ruler | Paper Tape |
| Thin Epoxy 10-minute | Small Phillips Screwdriver | Threadlock |
| Hobby Knife | 2mm drill | Foam Epoxy |
| 1.5mm Hex Wrench | Pen | Sanding Paper |
| Pliers | CA glue | Flat blade screwdriver |



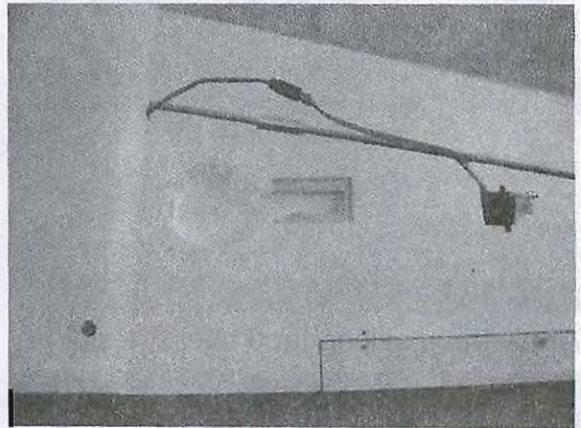
Drill a 10mm around 7mm under the carbon fibre stick. Insert the Y-Harness through the hole. The female end must be on the top of the main wing.



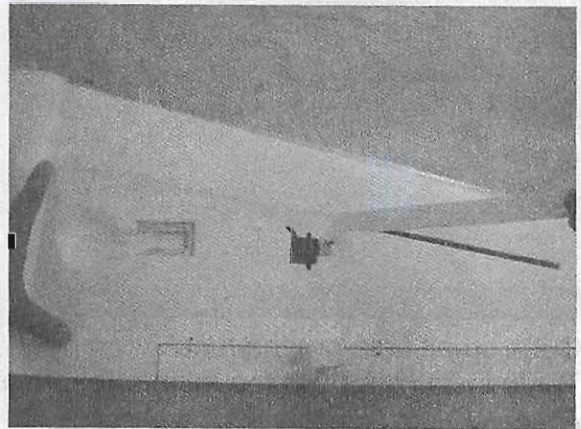
Take out the adjustable rod stand, M3 hex screw, and plastic nut from the hardware bag. Drill a 2mm hole on the servo arm. Install the hex screw on the stand. Use pliers to secure the plastic nut on the stand just like the picture. Make sure the rod stand can move freely.



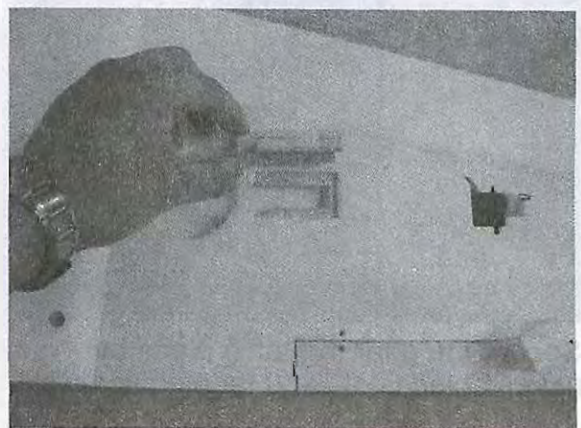
Set the servo in neutral position and secure the servo on the main wing using Epoxy.



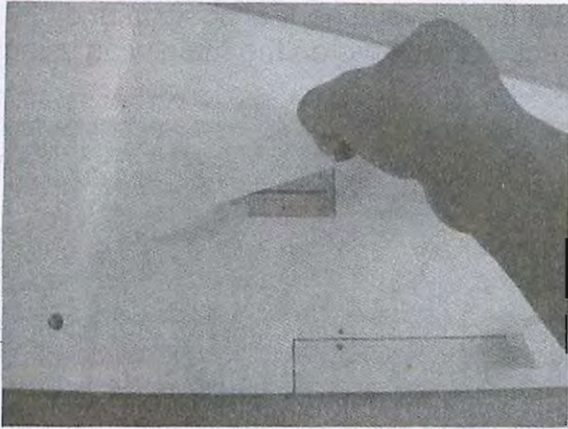
Connect the cable with the servo.



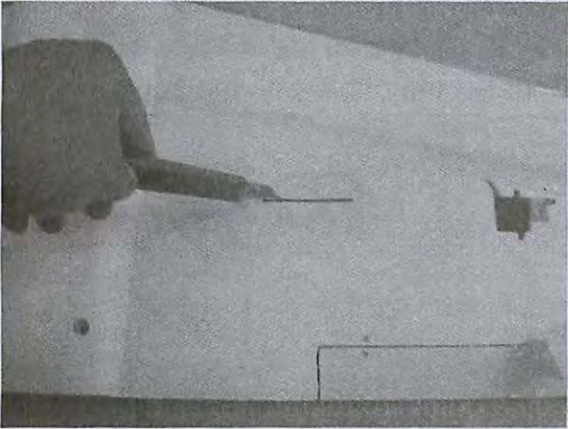
Hide the excess cable in slot and apply the masking tape to cover the slot.



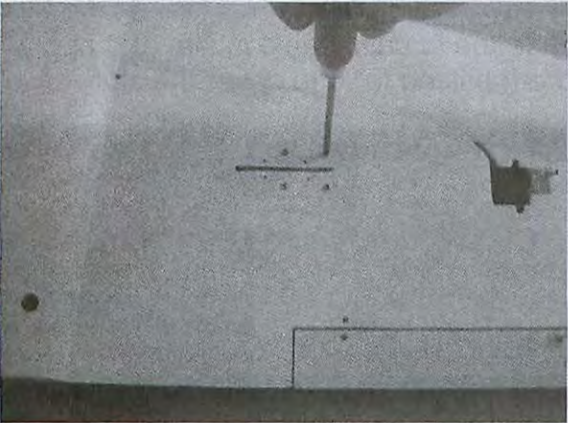
Place the gear mount block into the mount slot.



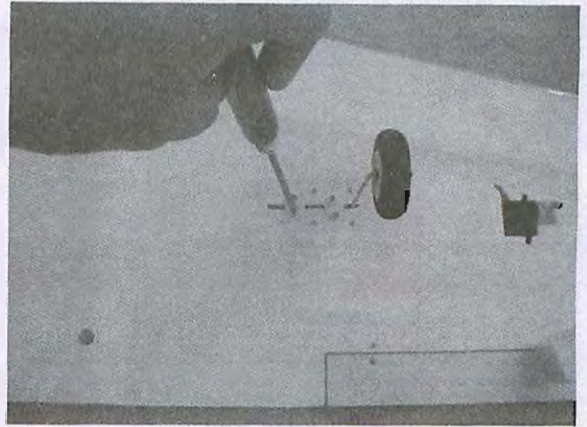
Apply the masking tape over the slot.



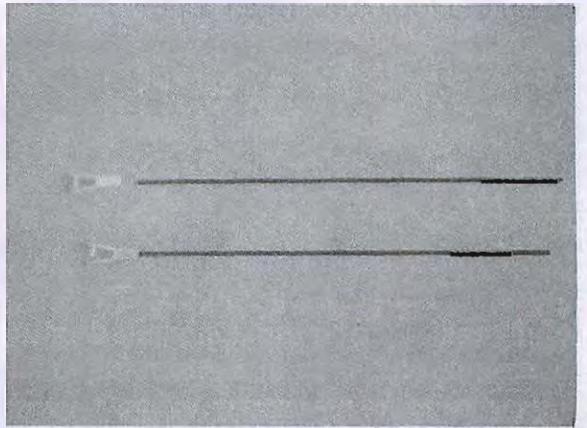
Cut a small hole on the masking tape
Try to install the gear mount into the hole.



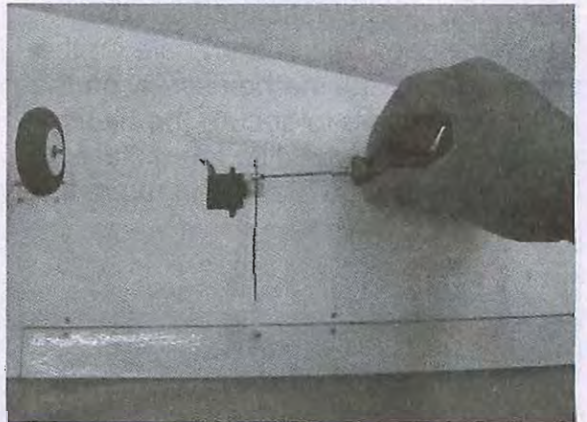
Secure the gear mount in place by
using 4 pieces of 2x10 tapping screws.



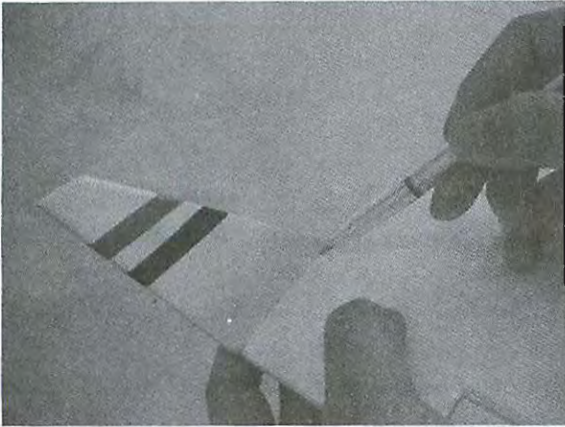
Install the main gear. Place the plates
over the main gear and secure the plates
using the screws.



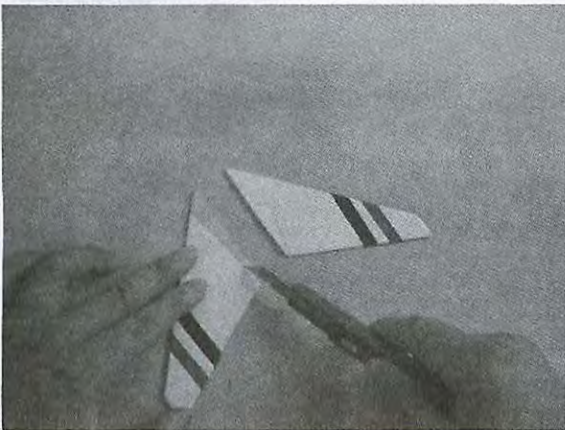
Thread a clevis at the end of the
1.2mm x 120mm rods.



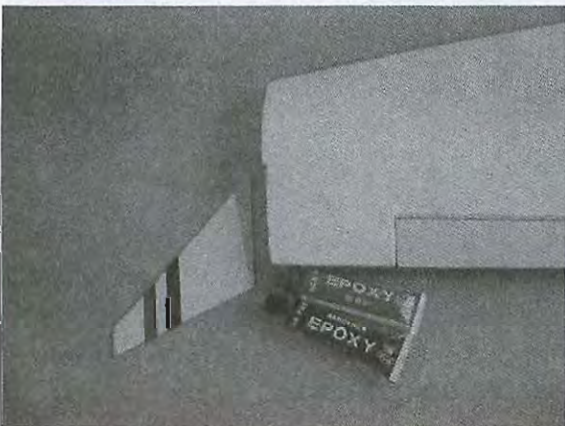
Install the clevis with attached linkage to
the aileron control. Centered the servo
horn and aileron. Using a felt tipped pen
to make a mark on the linkage where the
rod will be inserted into the horn.
Cut off the excess linkage.



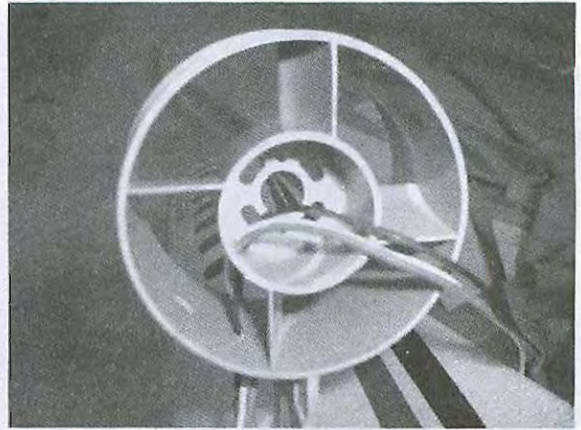
Place the wing tip to the end of the main wing. Use pencil to mark the line where the wing tip meets the main wing.
(Note: there are left and right wing tips.)



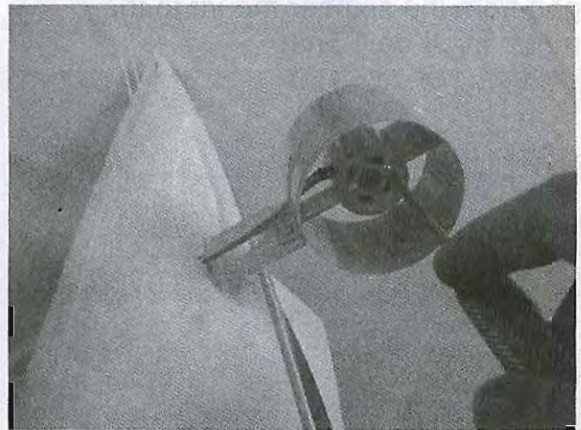
Use hobby knife to cut off the marking area. Please note not to cut into the balsa wood.



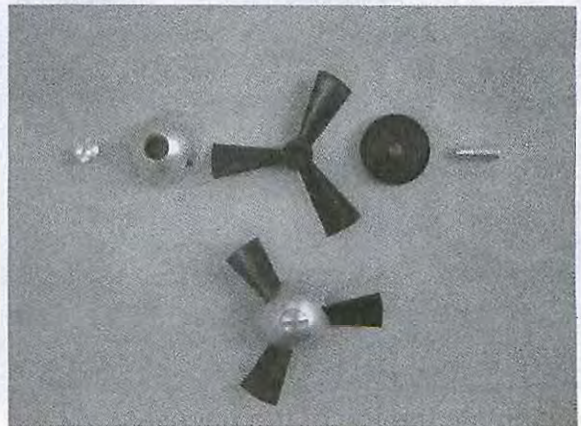
Mix small amount of epoxy and spread to the base of the wing tip. Glue the wing tip on the end of main wing.



Route the motor wires through the pre-drilled holes in the fan housing.



Take out the motor cable from the duct fan and then insert into the fuselage. Drop some threadlock on the screws. Secure the motor by screwing the M2.6 screws.



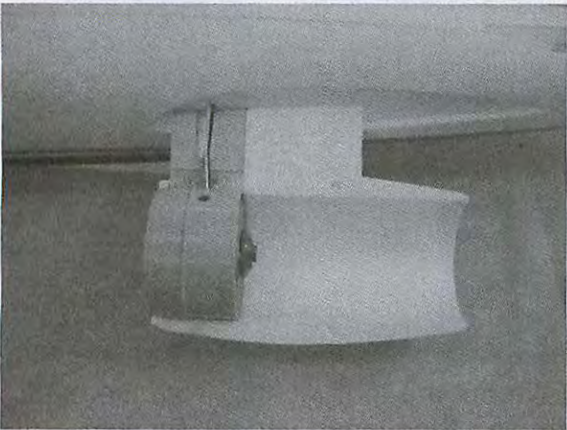
Assemble the blade with spinner.



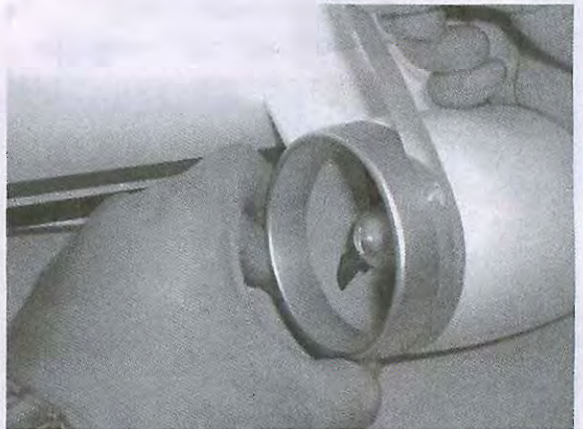
Using the flat blade screwdriver to secure the fan on the motor. Please note the gap from the spinner mount to the motor must be 1.5mm.



Assemble the intake ring. The intake ring must fit perfect with the fan unit.



Assemble the bottom of nacelles There are left and right nacelles..



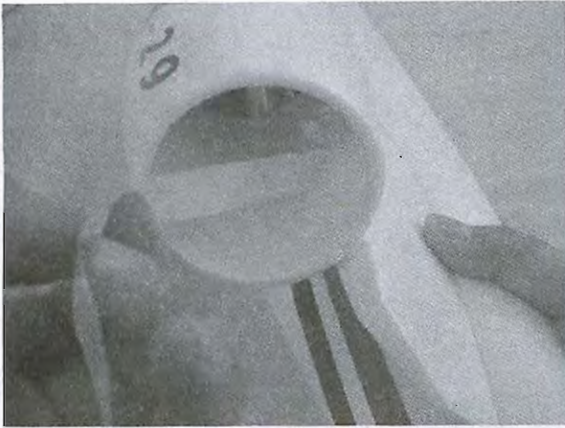
Apply the silver masking tape on the intake ring.



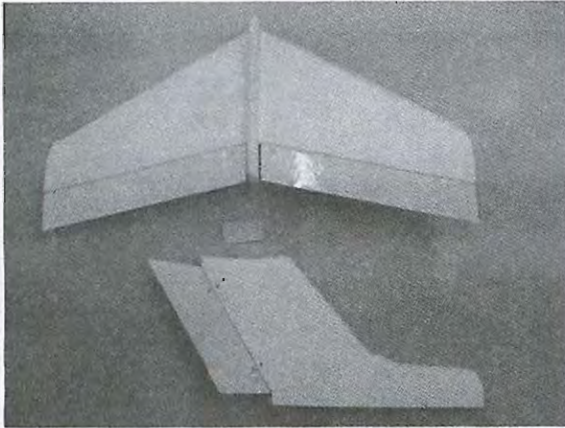
Assemble the top of the nacelles.



Apply the sticker "**SFM-29**" on the out side of the nacelles.



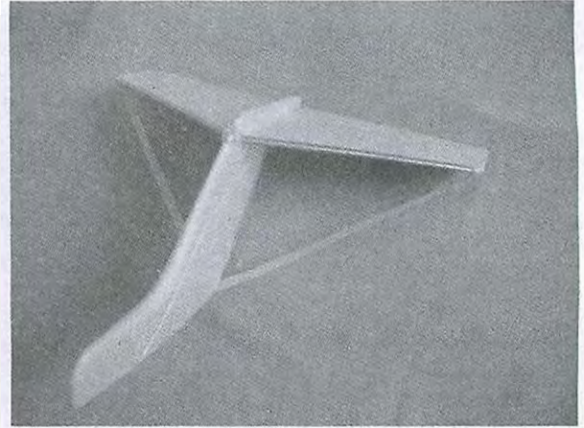
Apply the white tape inside the nacelles.



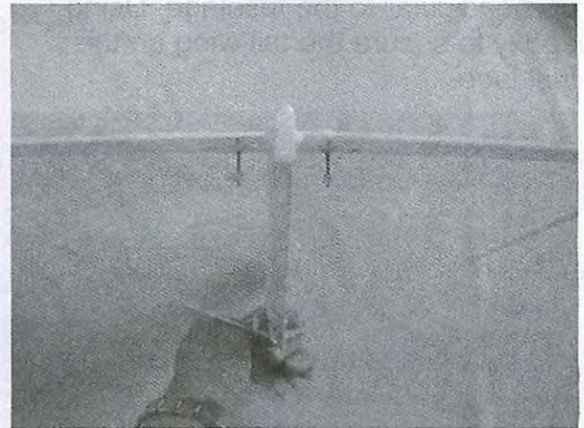
Place vertical, horizontal and 3mm reinforcement plywood on the desk.



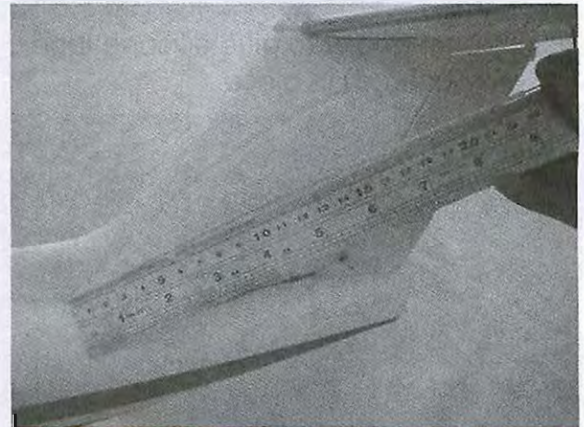
Glue the horizontal on the vertical using Epoxy.



Apply the paper tape to hold the tail wing together securely while the epoxy cured.



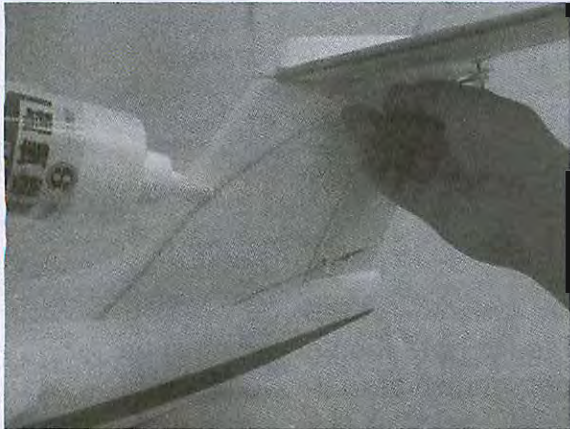
Please note the vertical must be perpendicular to the horizontal.



Take 15mm wire as the rudder pushrod.



Try to fit the tail wing set on the fuselage and note the vertical must be perpendicular to the fuselage. Using epoxy to secure the tail wing on the fuselage.



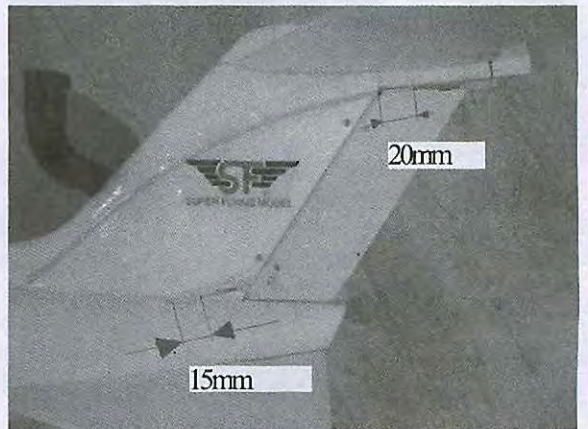
Using foam epoxy to glue silicone tube (for the pushrod) in place.



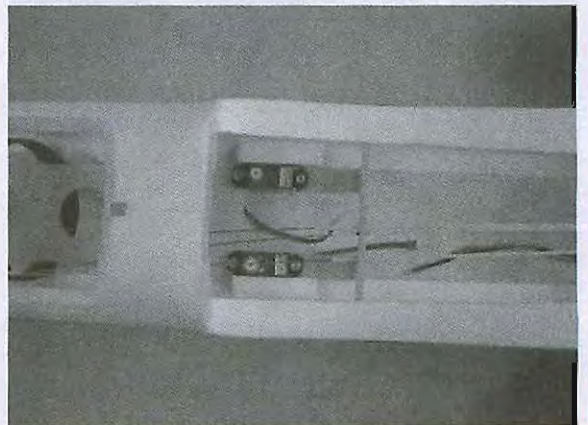
Apply the masking tape to cover the out tube.



Connect the rod connector on the control horn.



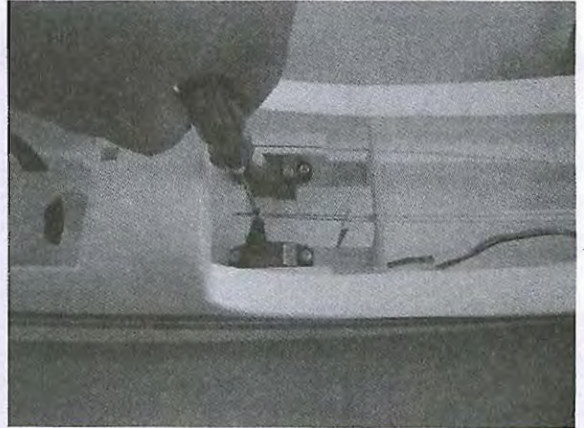
The preserving length for the out tube of elevator and rudder pushrod.



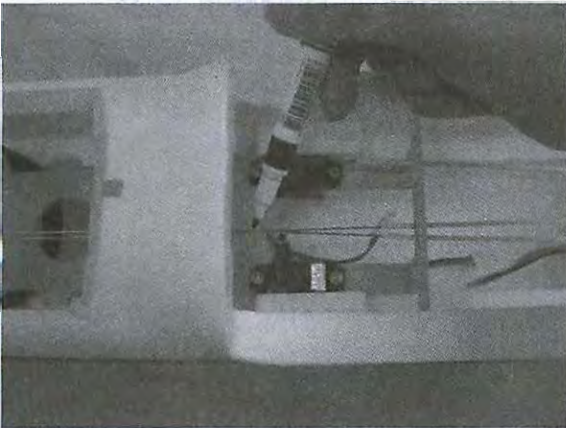
Install 2 pcs of 13g servos inside the fuselage.



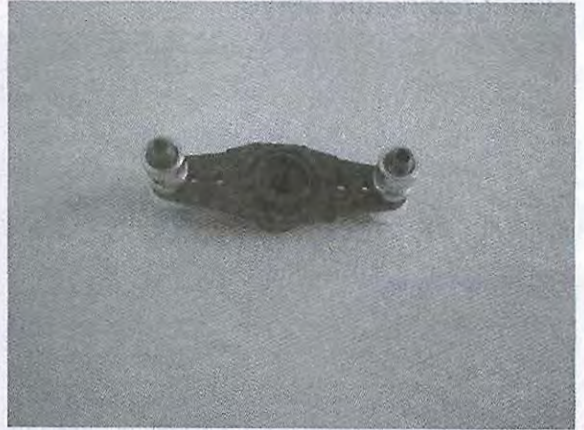
Assemble 2mm adjustable rod connector on the servo arm of 13g servo.



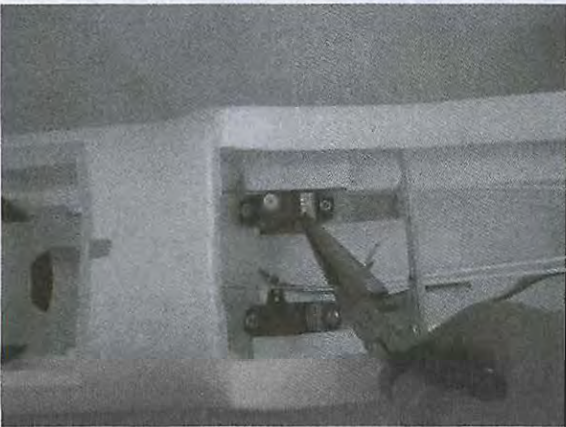
Connecting the rod on the rod connector.



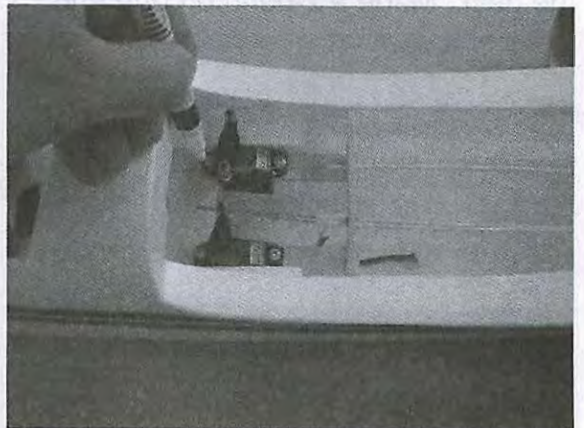
Center the servo arm, using felt tipped pen, make a mark on the rod where the rod will be 7-10mm longer than the contacting place with the servo arm.



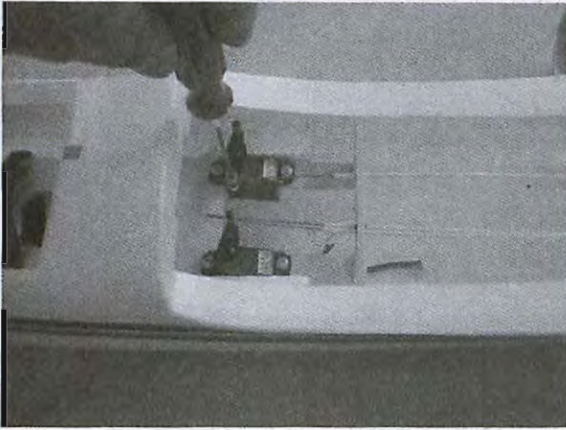
Assemble 2 pieces of adjustable rod connectors on the 13g servo arm.



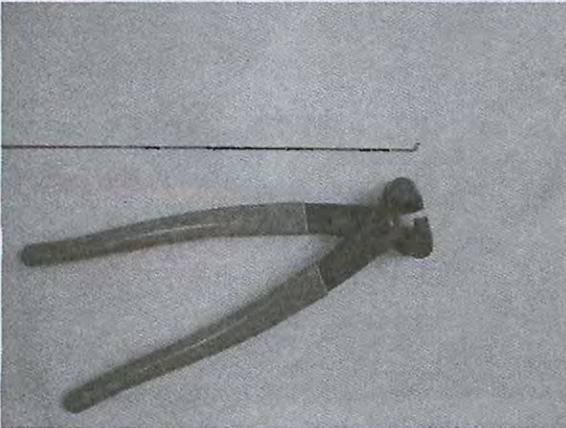
Cut off the excess elevator rod on the marking place.



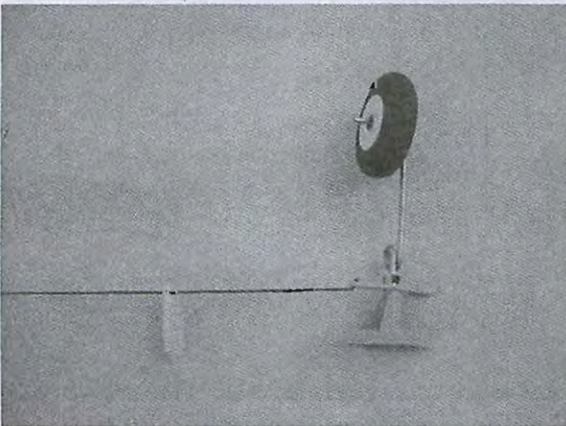
Center the servo arm, using felt tipped pen, make a mark on the rod where the rod contacts with the servo arm. Cut off the excess rod on the marking place.



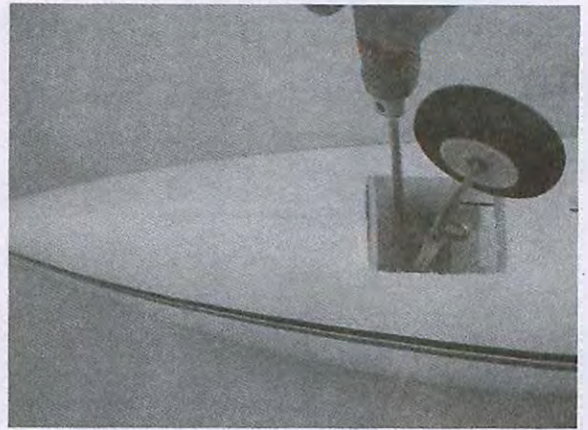
Use 1.5mm hex wrench to secure the rudder rod on the servo.



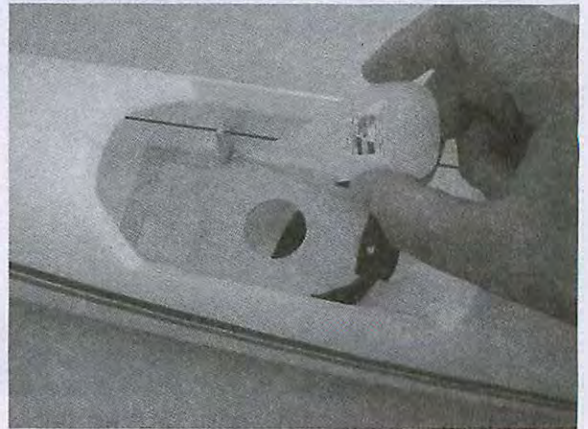
Place one pc of 1.2mm x 420mm rod on the desk. Made a z-bend on one end.



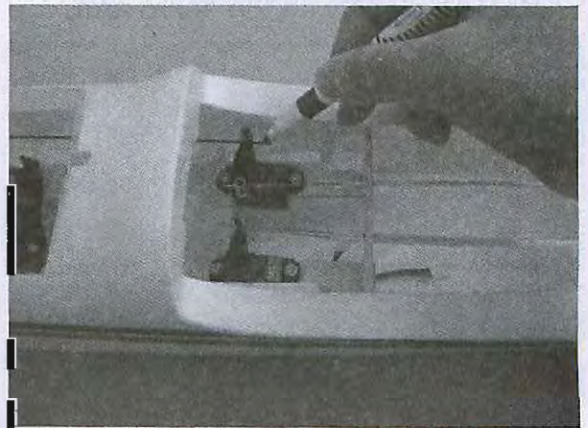
Install the Z-bend end into the hole of nose gear arm. Insert one piece of plate.



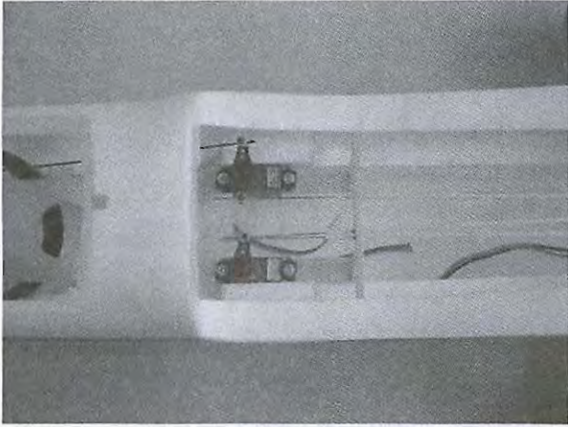
Insert the gear rod through the fuselage. Screwing 4 pieces of 2x10 tapping screws to secure the nose gear in place.



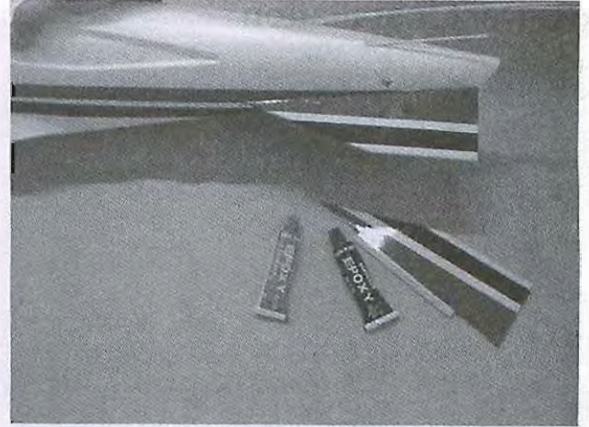
Fix the rod on the battery plate using CA glue.



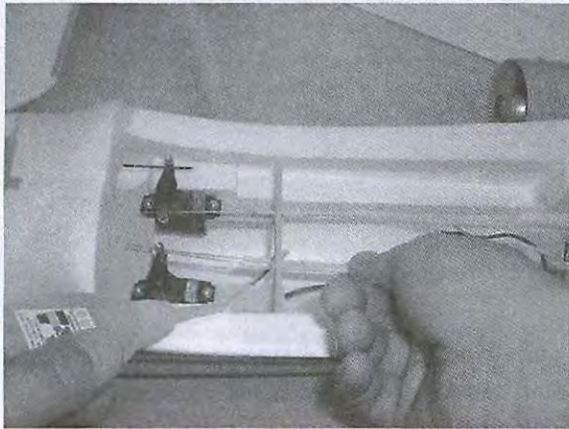
Center the nose gear and use felt tipped pen to make a mark on the nose gear pushrod.



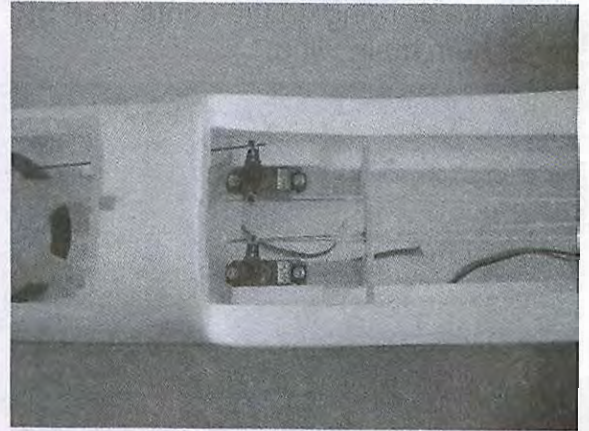
Cut off the pushrod on the marking place. Secure the rod on the servo.



Use epoxy to secure the tail fin in place.

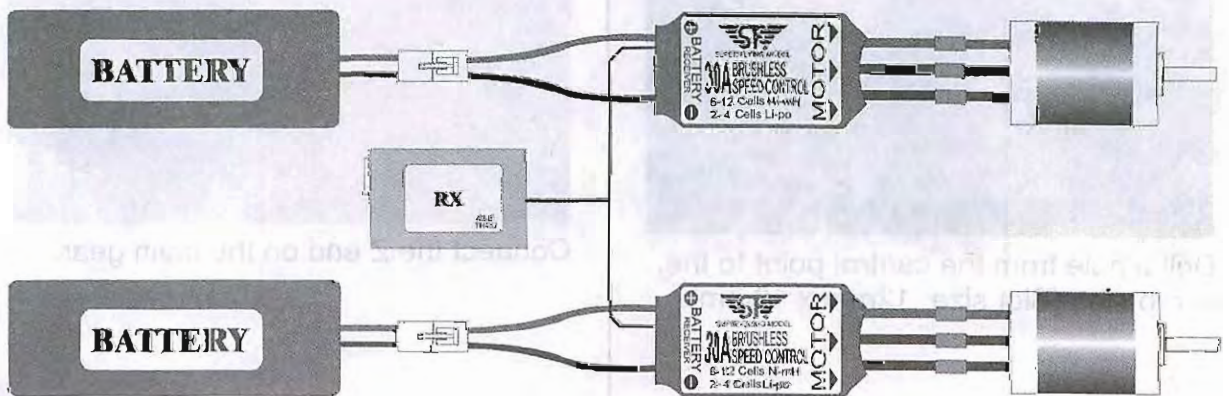


Please pull the out tube tight and glue it in place.

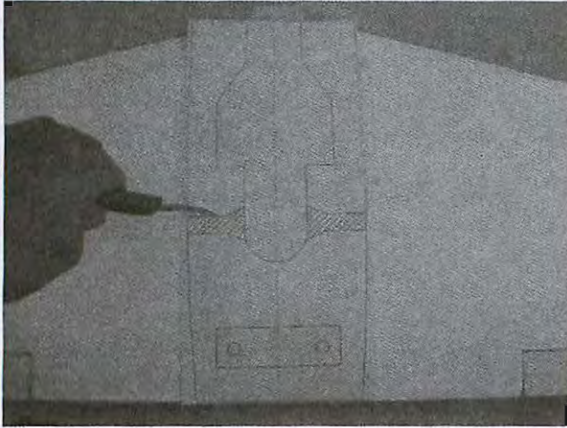


Secure the rod on the 1.5mm adjustable rod connector.

Wiring connection diagram



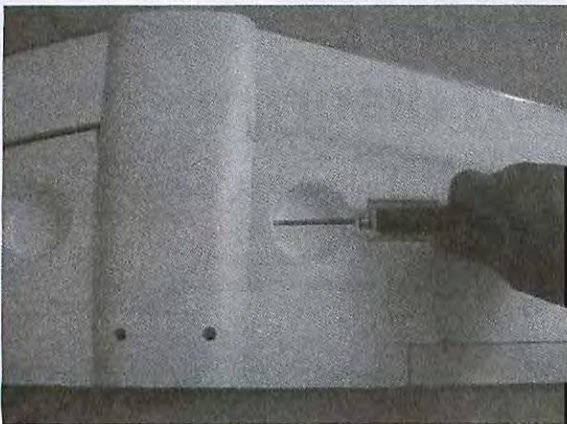
Retract Installation



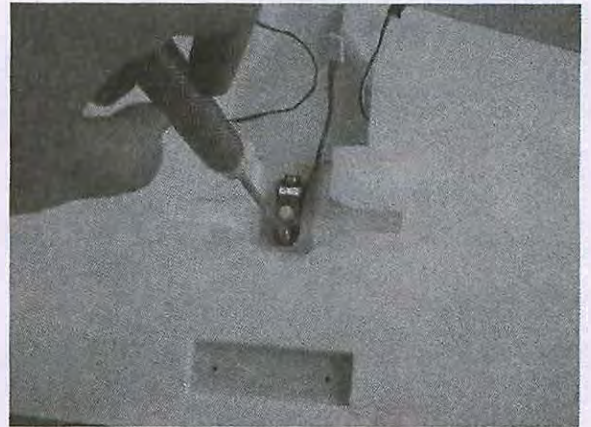
Place the drawing on the center part of the bottom main wing.



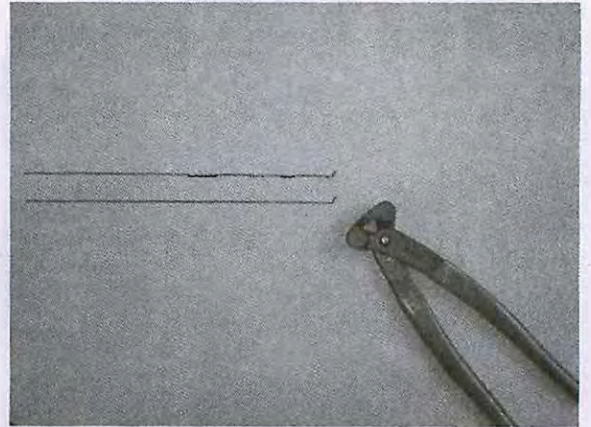
Cut out the marking area.



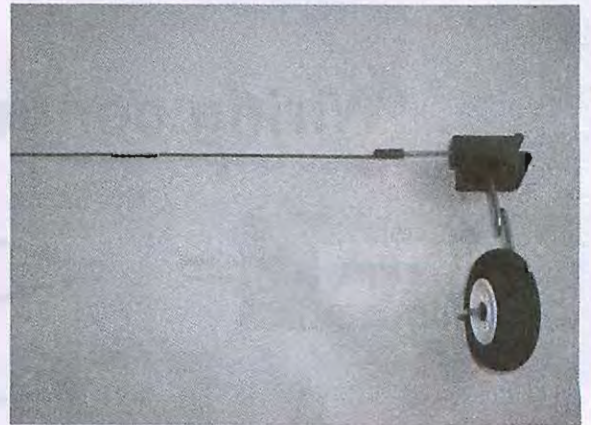
Drill a hole from the central point to the servo slot. (Slot size: 12mm x 10mm).



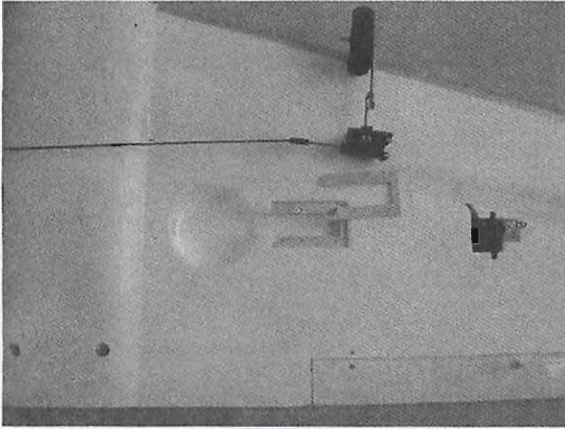
Assemble 13g servo.



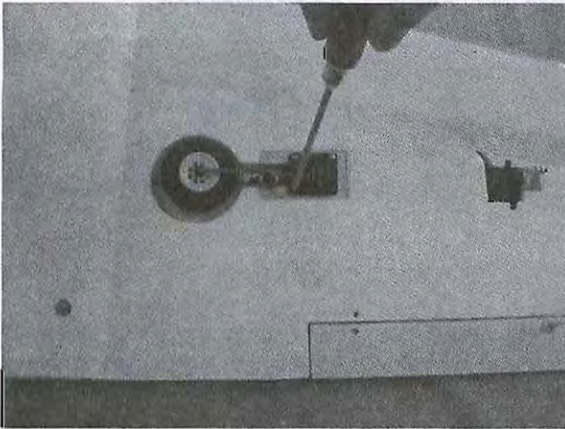
Take out two pcs of 1.2mm x 240mm wires from the hardware bag. Make a Z-bend on one end of the wire.



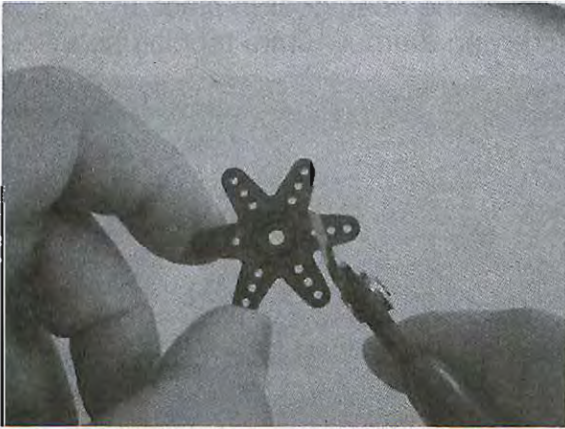
Connect the Z end on the main gear.



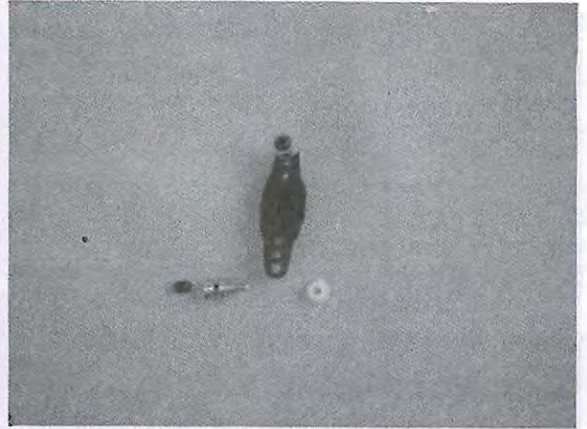
Assemble the main gear plate. Insert the rod through the main wing.



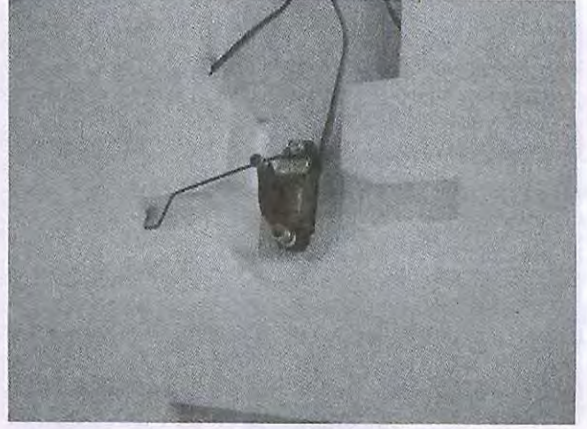
Secure the main gear by screwing the 2x10mm tapping screws.



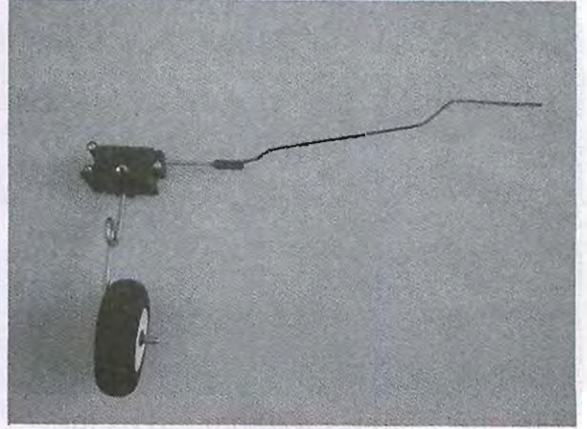
Trim the servo arm.



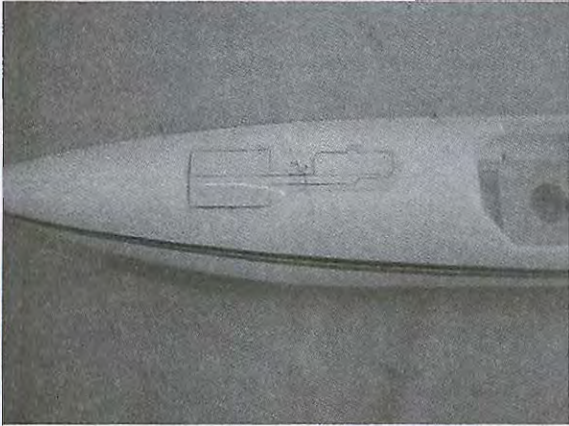
Assemble 2 sets of the adjustable rod stands.



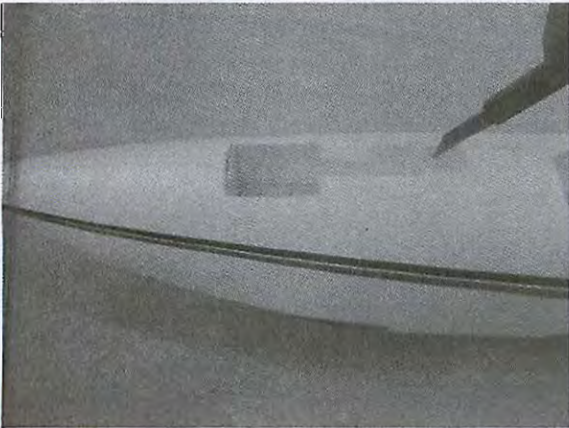
Connect the bending rod on the adjustable rod stand.



Turn on the radio and test the movement. If satisfy the movement, use 1.5mm hex wrench to secure the screw.



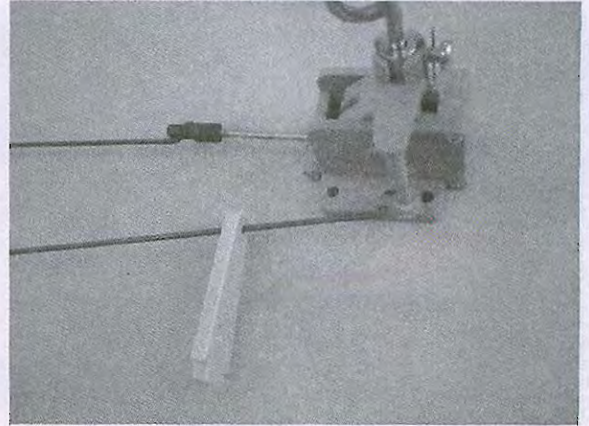
Apply the nose gear retract drawing sticker on the nose.



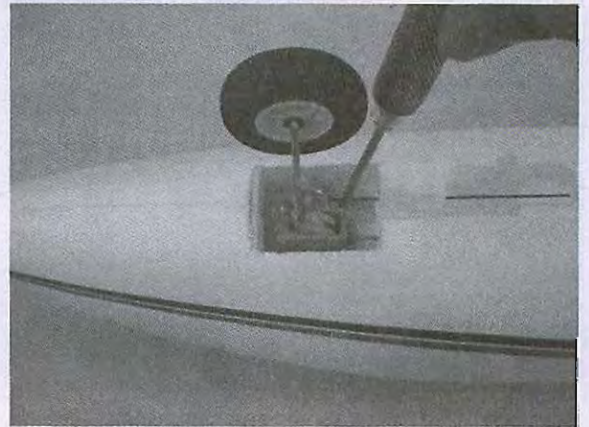
Cut off the marking area.



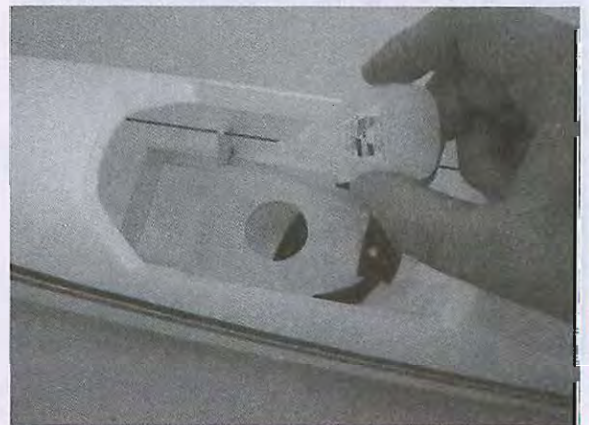
Take one 1.2mm x 420mm rod as the nose gear control rod. Take one 1.2mm x 160mm rod as the retract rod. Make Z-bend on one end.



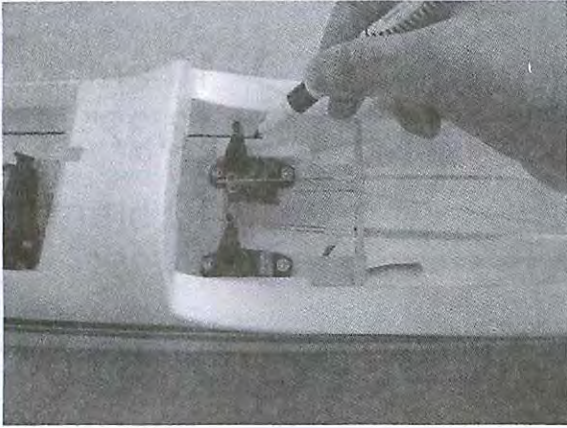
Install the Z-bend end into the hole on the nose gear mount. Insert nose gear plate into the nose gear control rod.



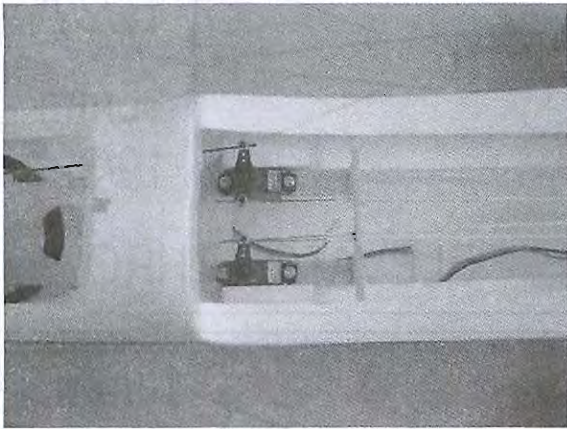
Insert the rod through the fuselage. Secure the nose gear in place by screwing 2mm x 10mm tapping screws.



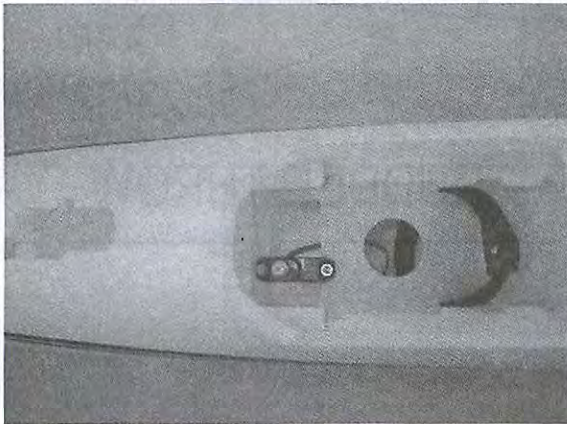
Fix the nose gear plate on the battery plank using CA glue.



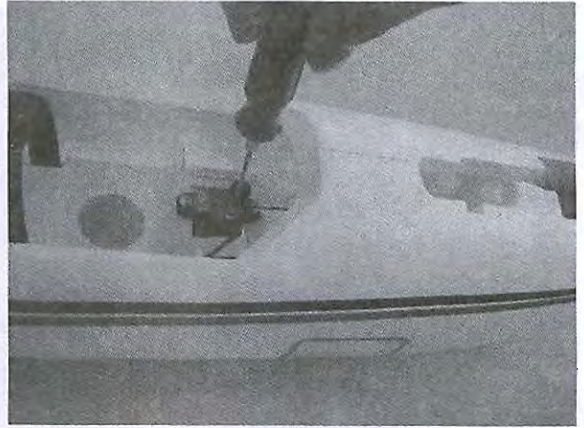
Centered the nose gear; make a mark on the rod where the rod contact with servo arm.



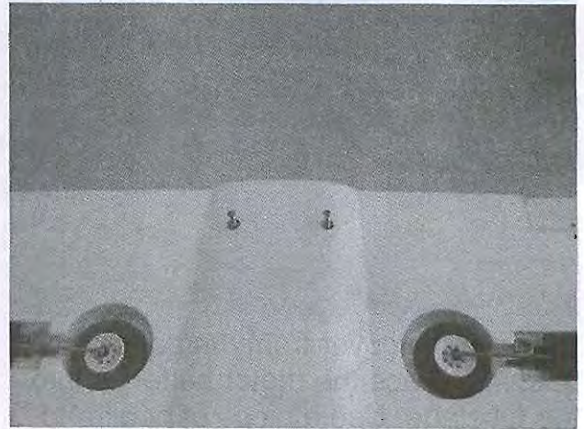
Cut off the pushrod on the marking place. Secure the rod on the servo.



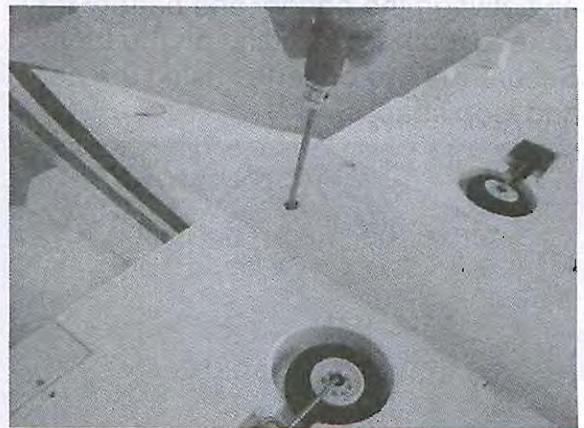
Install nose gear retract servo.



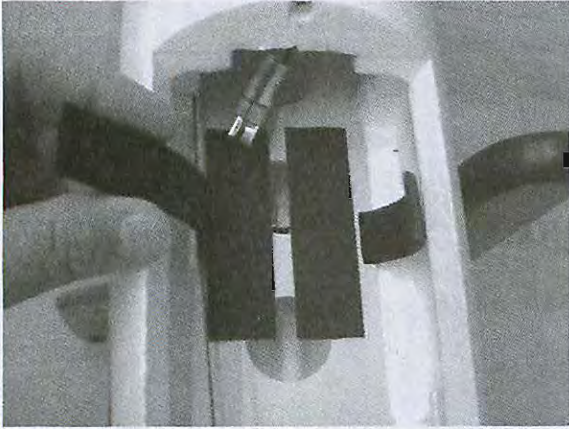
Adjust the nose gear retract rod by screwing the adjustable rod connector. Turn on the radio and test the movement.



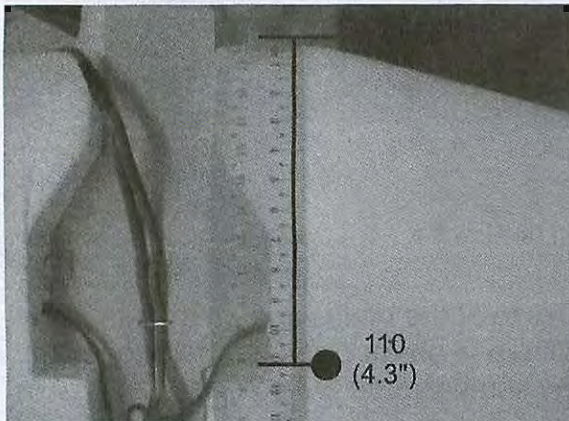
Place 2 pcs of M3 screws on the fuselage.



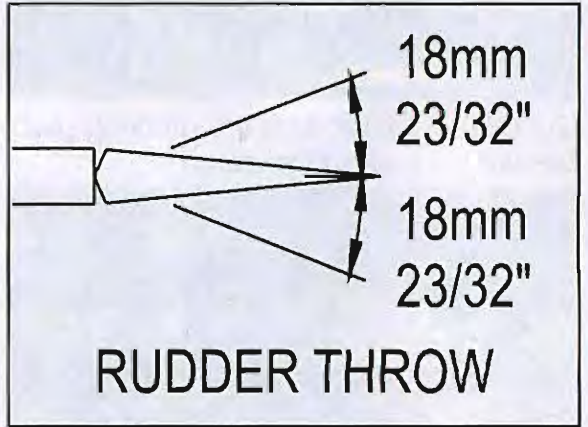
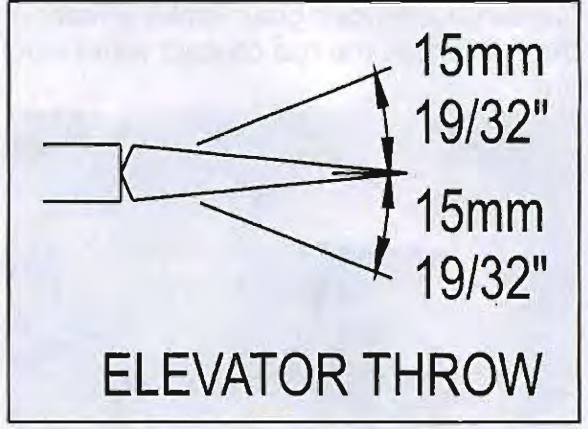
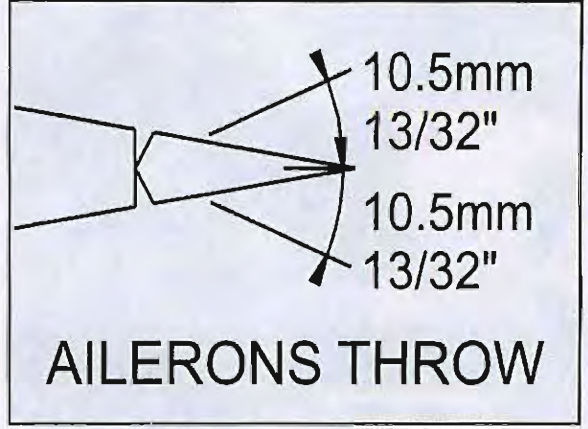
Try to fit the main wing on the fuselage. When fit perfect, secure them together by screwing the M3 screws.



Remove the cover from the battery opening. Place the motor batteries into the fuselage. Use a piece of hook and loop between the two batteries as well as between the battery and battery tray to keep them from sliding on the tray. Secure the two batteries using the hook and loop strap.



The recommended Center of Gravity location for this jet is 110mm(4.3") back from the leading edge against the fuselage.



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