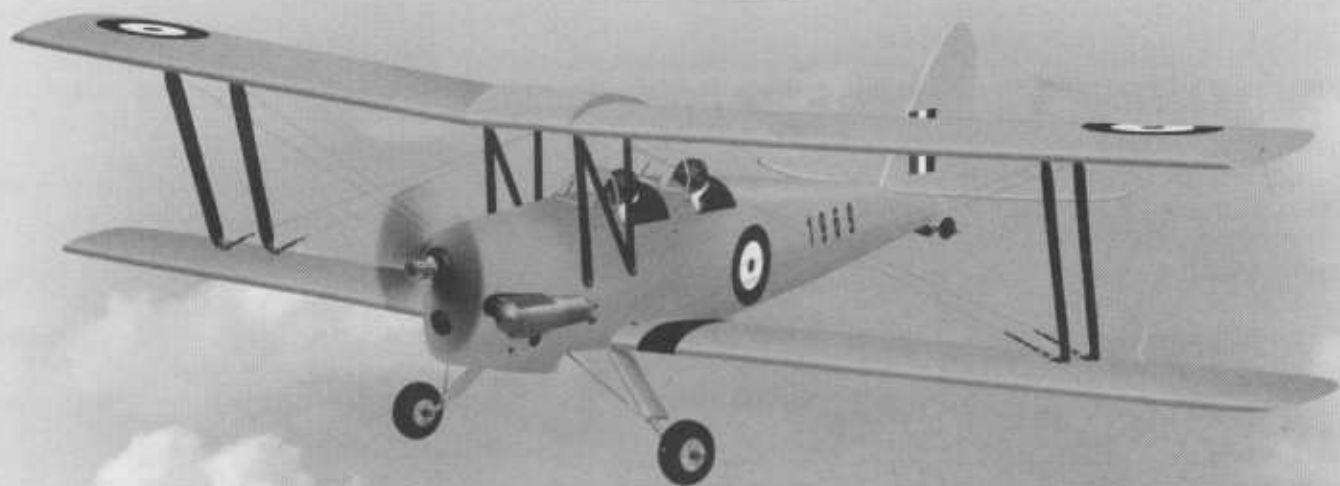


95% PRE-BUILT
ARF
ALUMINUM PRODUCT TECHNOLOGY



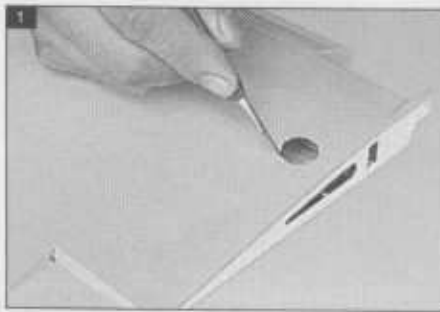
TIGER MOTH 40

Fly the Tiger Moth biplane - Phoenix Model' ARF version makes it economical and easy! Built from light weight, high - quality balsa. The fiber glass cowl painted by hand to match the trim scheme. Most part are cut by laser machine. Computer - designed for easy assembly. Semi - symmetrical clark Y-airfoils and ailerons on both wings give these scale versions the original's agility. Includes main and tail gear, wheels, fuel tank, linkage parts set and decals.

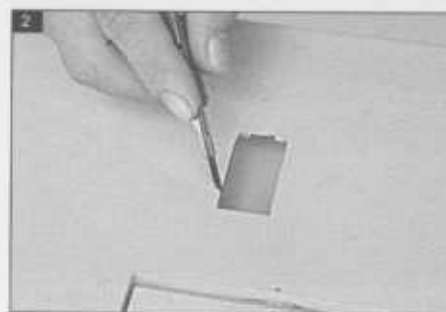
Specification:

- Wingspan : 144cm (56.7 in)
- Wing Area : 58 dm²
- Length : 112cm (44 in)
- Weight approx : 2600 - 2800g (5.7 - 6.2lb)
- Radio control : 4 channel / 5 servos
- Engine : 2 stroke. 40 class 4 stroke .48 - .53 class

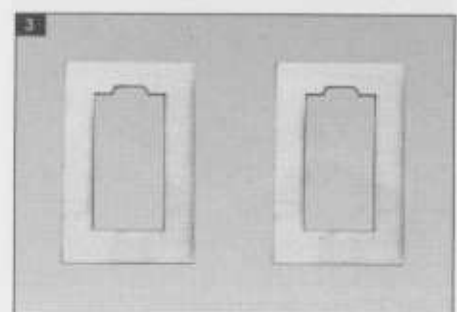
① Installing the aileron servos.



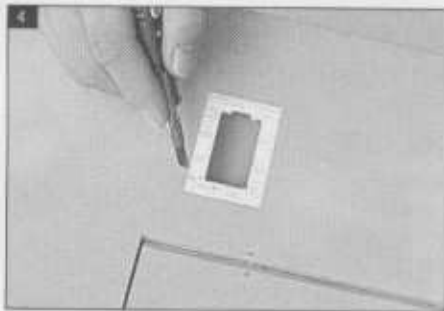
Remove the covering.



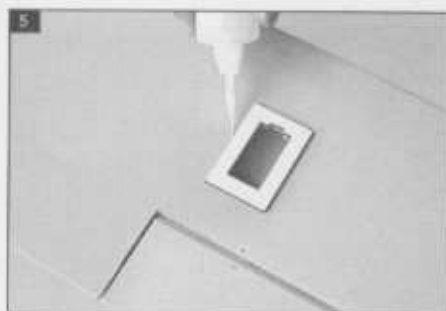
Remove the covering from the aileron servo box (at the bottom of the wing).



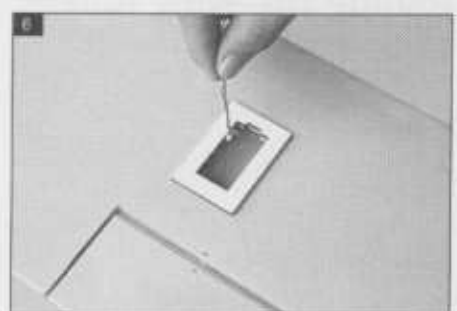
Two servo box.



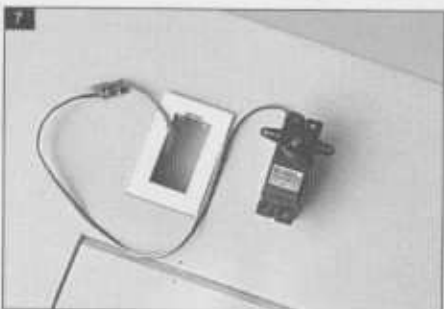
Remove the covering.



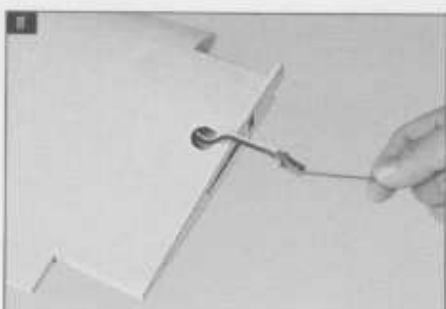
Glue the two servo box by C.A glue.



Insert the thread into the wing.



Tape the servo lead into the end of the thread.



Pull the servo lead out.



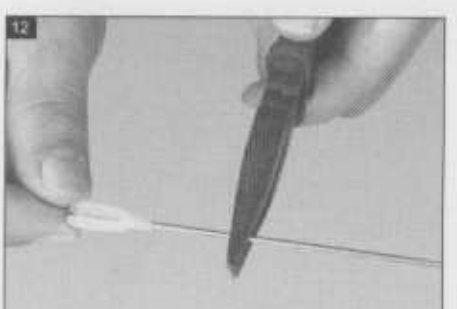
Using the masking tape, tape the servo lead onto the top of the wing.



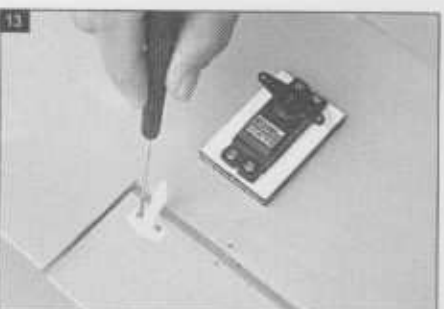
Secure the servo.



The control horn and the pushrod of the aileron.



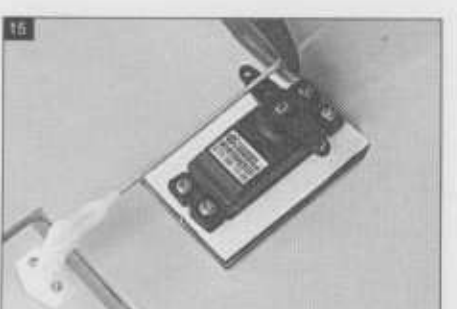
Install the clevis to the aileron pushrod.



Install the control horn.



Attach the clevis to the control horn.



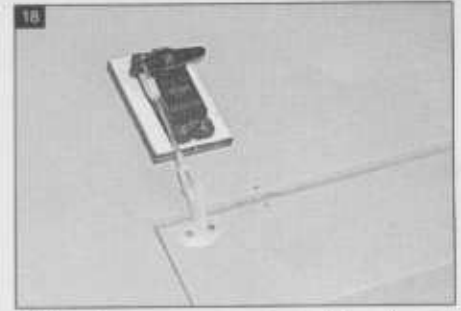
Cut away the aileron pushrod.



16 Bend "L" the aileron pushrod.

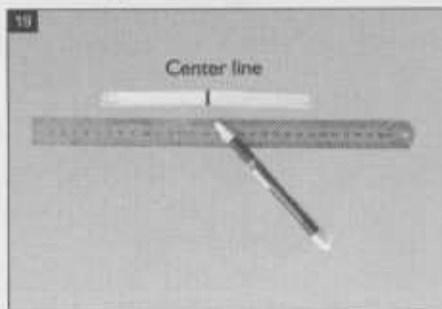


17 Attach the nylon clasp.

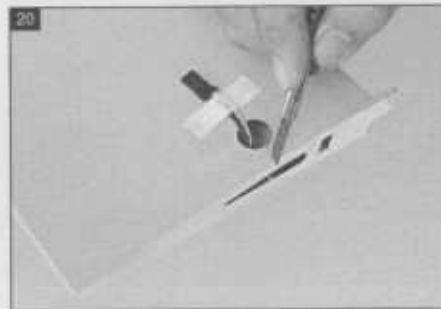


18 Make the same way to install the aileron servo for the second wing.

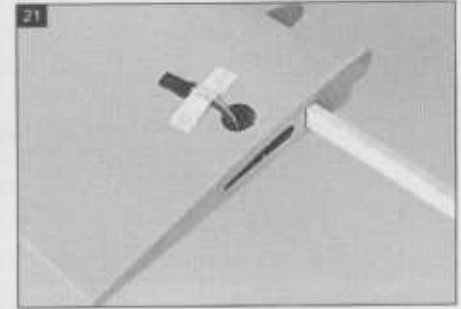
2 Joining the wing halves.



19 Draw a center line.



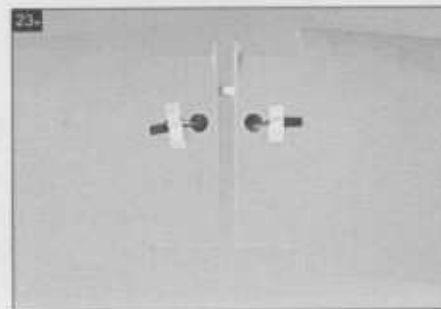
20 Remove the covering.



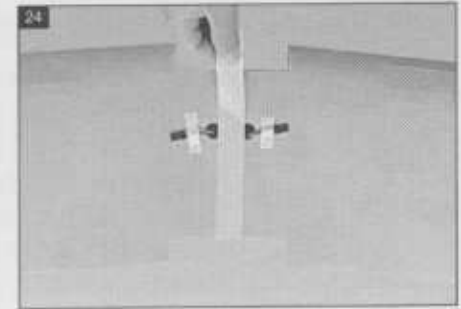
21 Glue the wing joiner to the wing, using the epoxy glue.



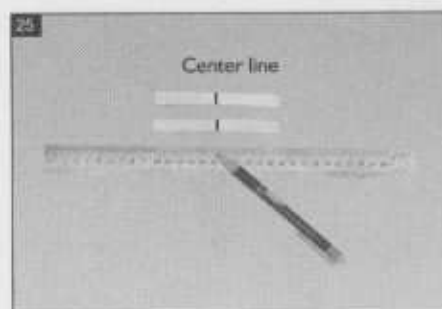
22 Apply the epoxy to the wing section.



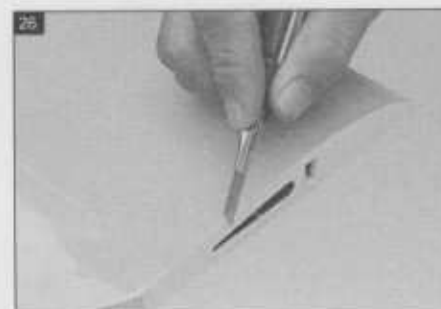
23 Joining the wing.



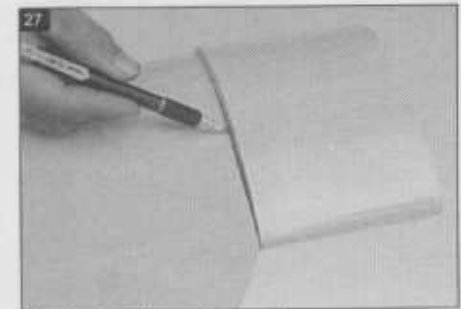
24 Apply the trim tape to the center section of the wing where they join.



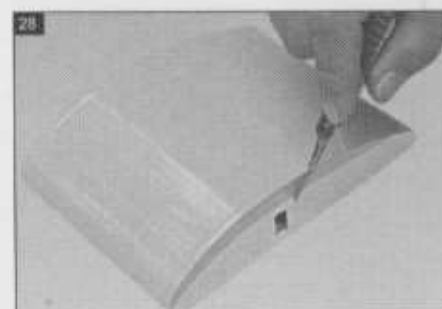
25 Draw a center line.



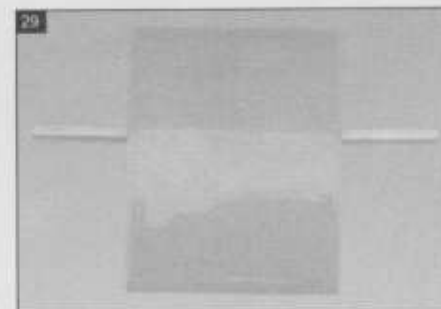
26 Remove the covering.



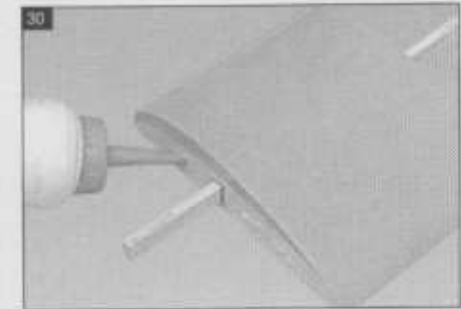
27 Mark the shape of the wing.



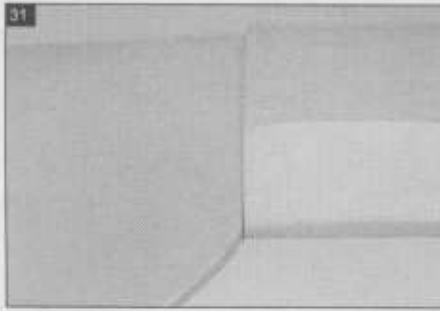
28 Remove the covering.



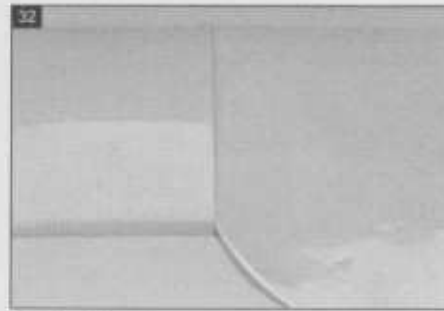
29 Glue the wing joiner to the wing, using the epoxy glue.



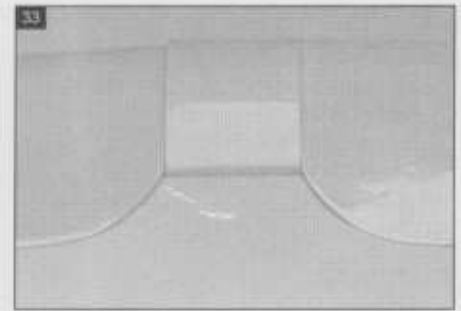
30 Apply the epoxy to the wing section.



31 Joining the wing.

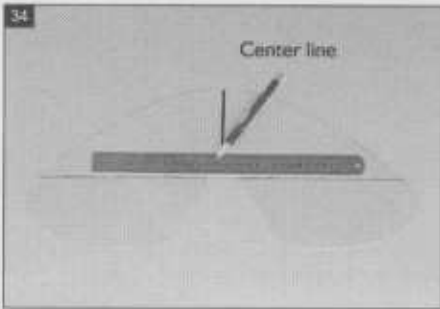


32 Joining the wing.

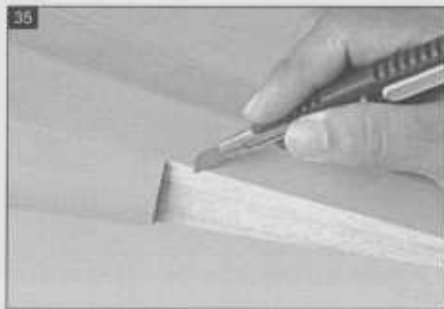


33 Joining the wing.

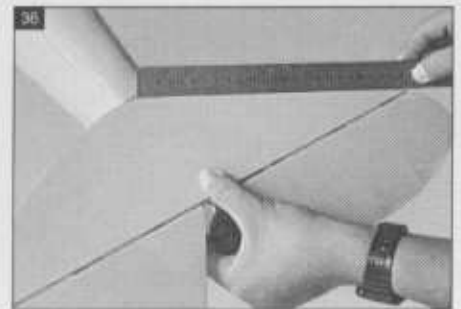
3 Installing the horizontal stabilizer, vertical stabilizer and tail gear.



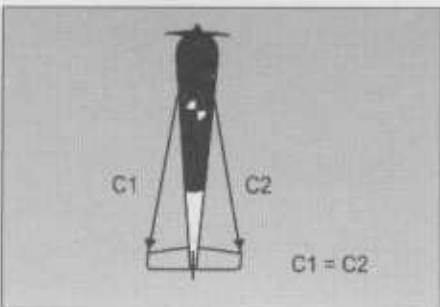
34 Make a center line onto the horizontal.



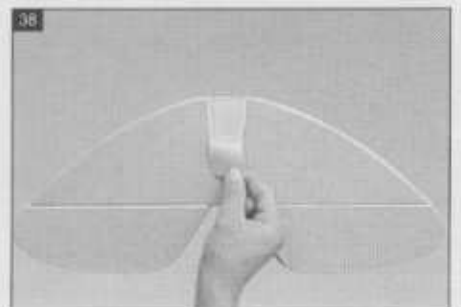
35 Remove the covering from the rear of the fuselage.



36 Attach the horizontal to the fuselage and check it.



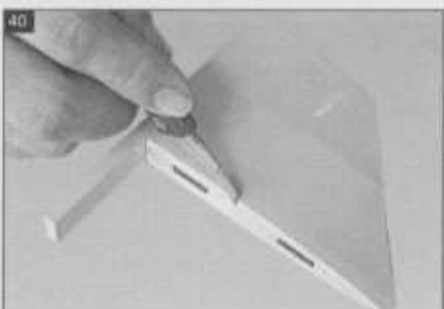
37 Mark the shape of the fuselage onto the bottom of the horizontal.



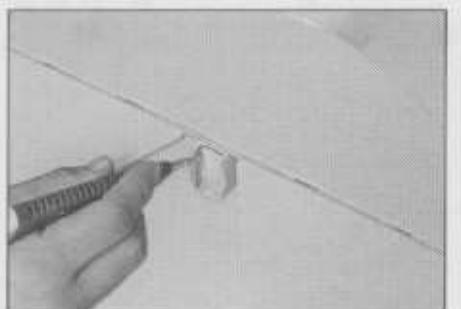
38 Remove the covering from the bottom of the horizontal.



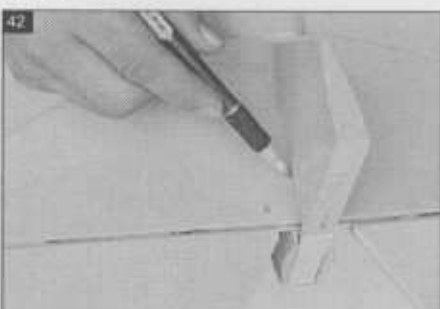
39 Glue the horizontal and fuselage by epoxy.



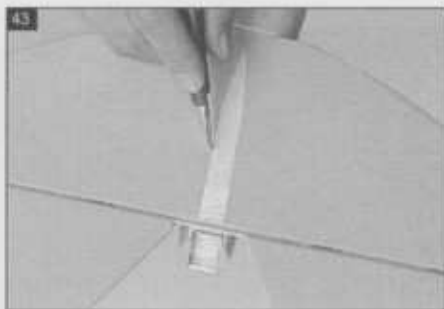
40 Remove the covering of the vertical.



41 Remove the covering from the fuselage.



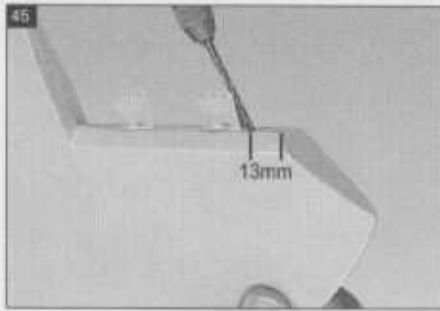
42 Mark the shape of the vertical onto the top of the horizontal.



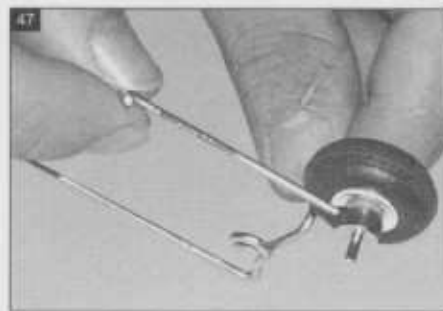
43 Remove the covering.



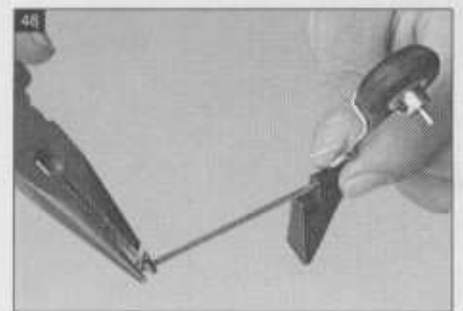
44 Make the slot for the tail gear.



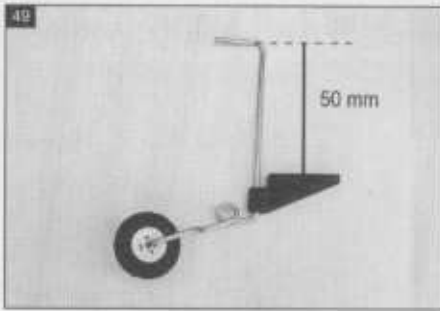
46 Drill 2mm hole for tail gear.



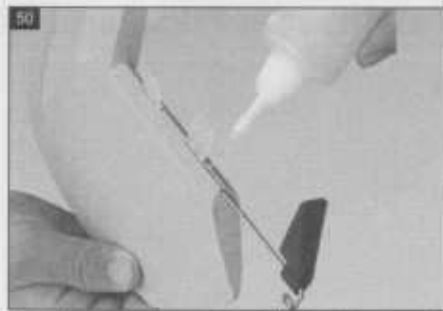
47 Install the wheel and secure it.



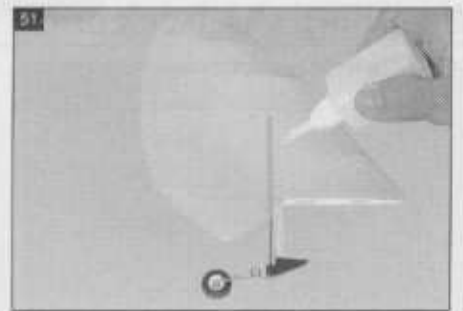
48 Bend "L" as shown.



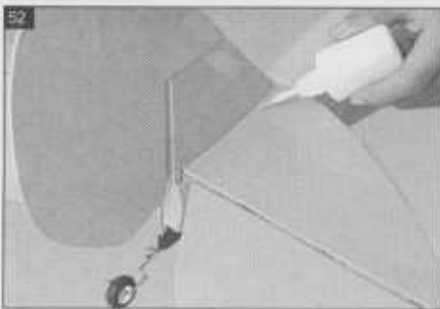
49 Prepare the tail gear as shown.



50 Attach the tail gear into the rudder and glue it.



51 Glue the rudder hinge by C.A glue.



52 Glue the vertical stabilizer to the fuselage.

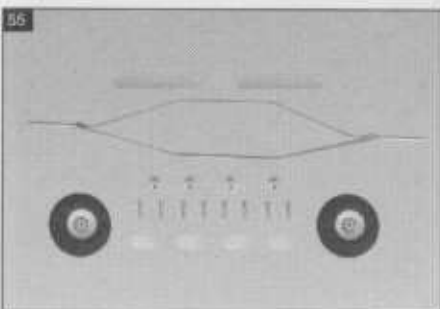


53 Secure the tail gear.

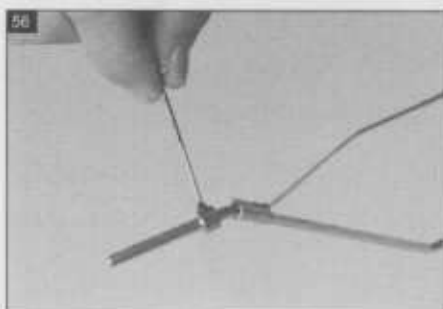


54 Finishing.

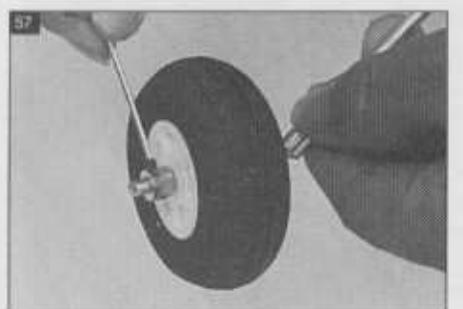
4 Installing the landing gear.



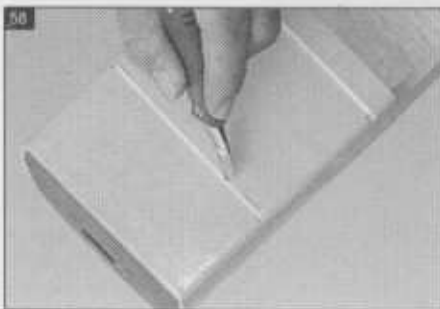
55 The full set of landing gear.



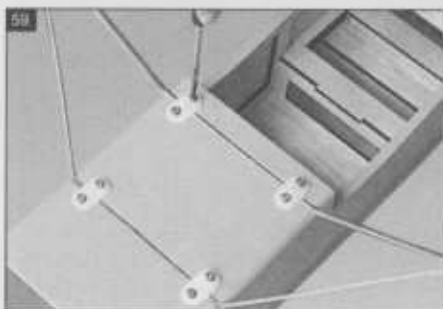
56 Install the collar.



57 Install the wheel and secure it.



58 Remove the covering.



59 Install the landing gear and secure it.



60 Attach the plastic cover for landing gear.

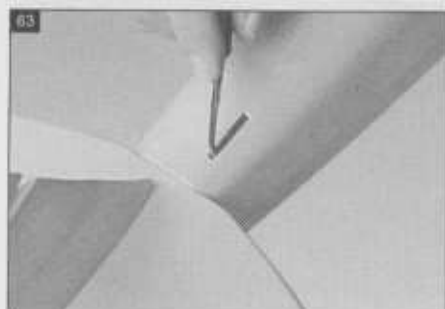
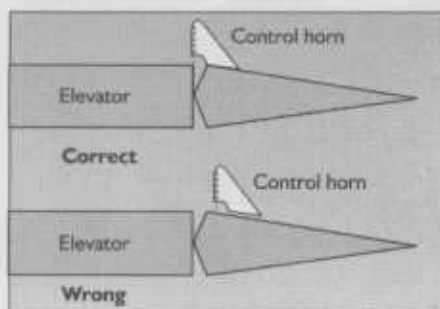
5 Installing the elevator and rudder linkages.



The full set of the elevator and rudder linkages.



Install the control horn.



Remove the covering.



Slide the pushrod and attach the clevis to the elevator pushrod.



Attach the clevis to the control horn.



Install the control horn.



Remove the covering.



Slide the pushrod and attach the clevis to the rudder pushrod.



Attach the clevis to the control horn.



Install the elevator servo.



Cut away the elevator pushrod.



Bend "L" the elevator pushrod.



Attach the nylon clasp to the servo arm.



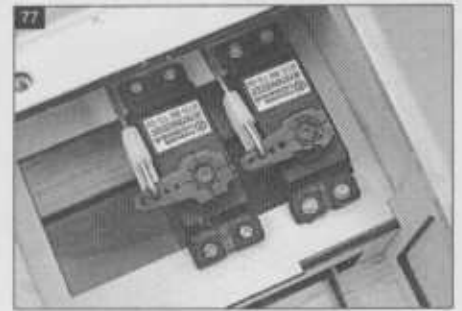
Install the rudder servo.



76 Cut away the rudder pushrod.

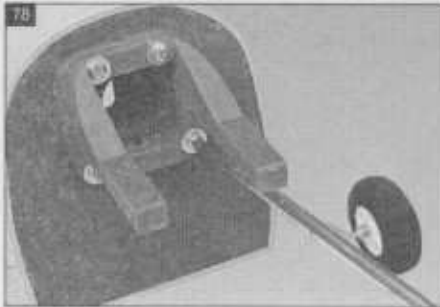


76 Bend "L" the rudder pushrod.



77 Attach the nylon clasp to the servo arm.

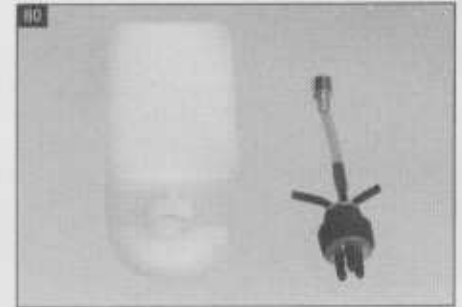
6 Installing the engine and fuel tank.



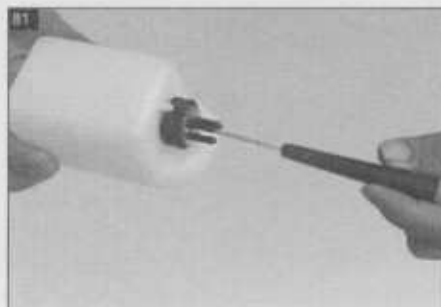
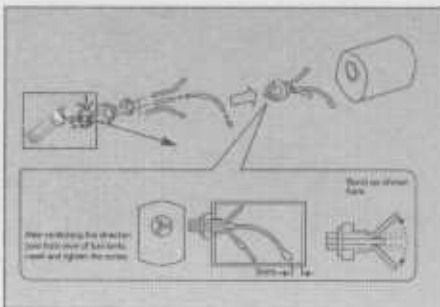
78 Install the engine mount



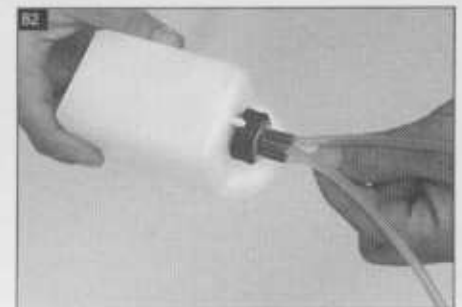
79 Install the throttle rod.



80 The fuel tank.



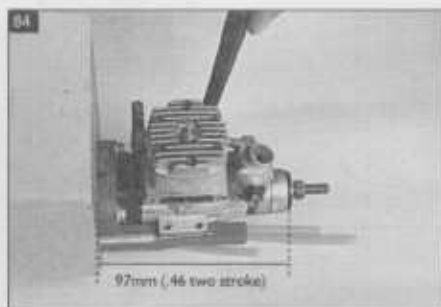
81 Secure the stopper.



82 Install the silicon tube of the tank (not included).



83 Secure the fuel tank in place



84 Attach the engine to the engine mount and mark four holes.



85 Drill four holes onto the engine mount.

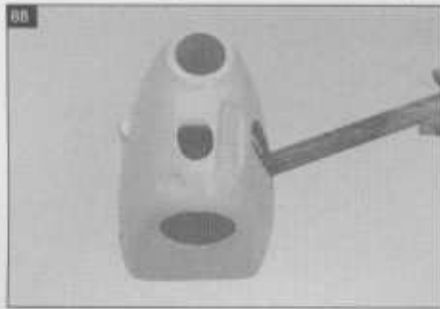


86 Attach the throttle rod to the arm of the carburetor.

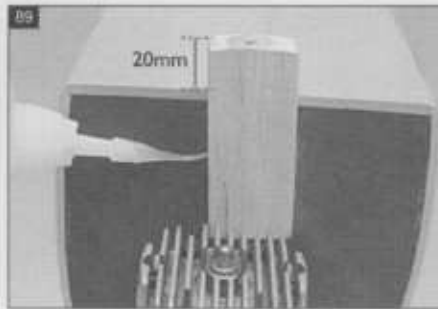


87 Secure the engine.

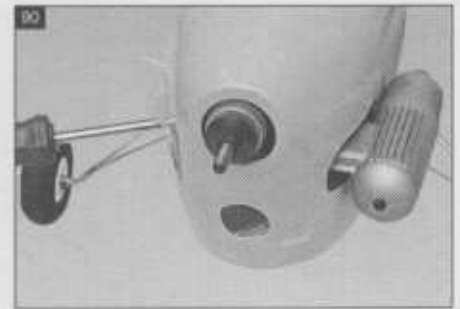
7 Installing the cowling and propeller



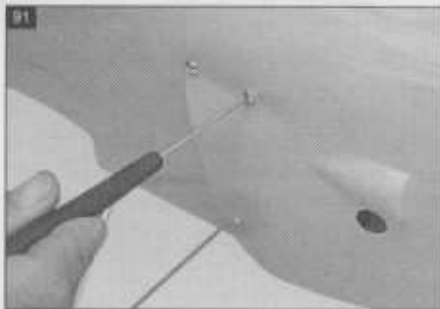
Prepare the cowling.



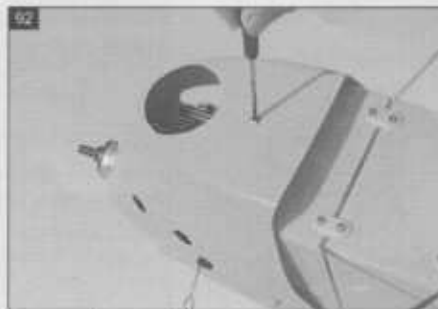
Glue the wood.



Secure the muffler.



Secure the cowling.



Secure the cowling.

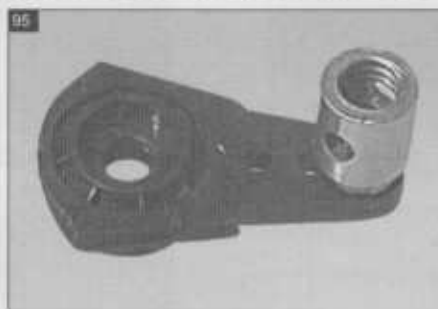


Install the propeller.

8 Installing the throttle servos, receiver, battery and switch.



Install the throttle servo.



Install the metal connector.



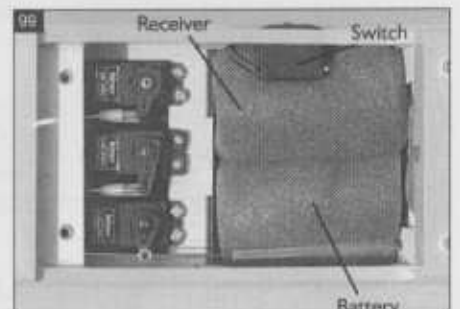
Install the servo arm.



Secure the throttle rod.

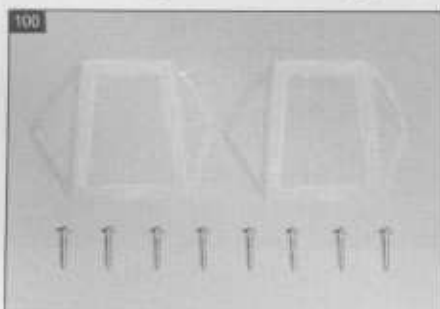


Cut a way the throttle rod.



Install the receiver, battery and switch.

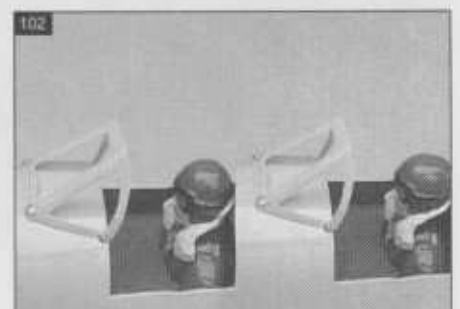
9 Installing the canopy.



The full set of canopy.

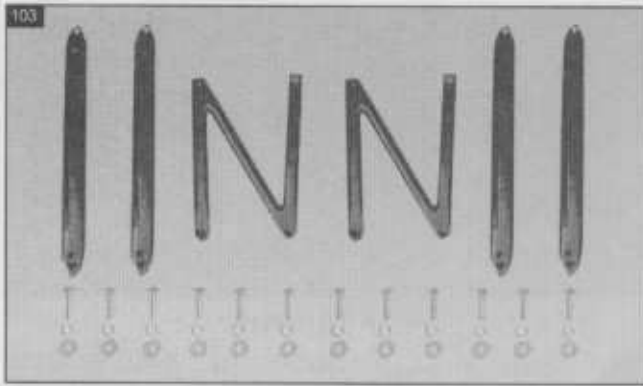


Install the canopy.

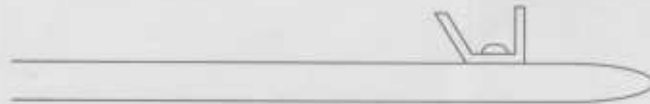


Install the canopy.

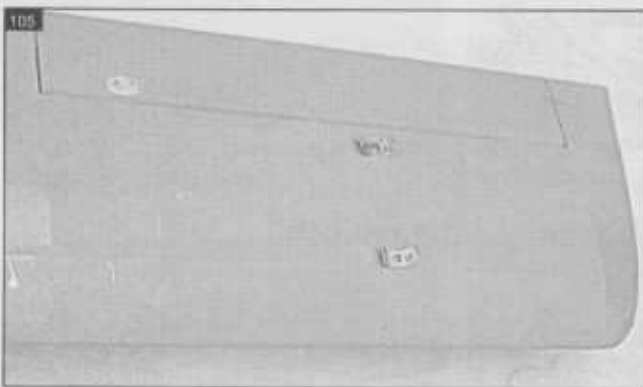
10 Installing the struts.



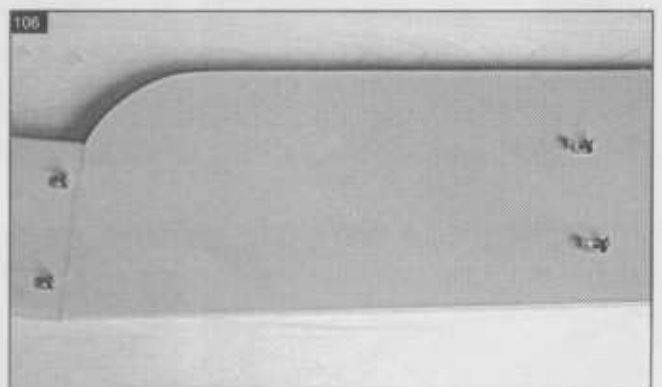
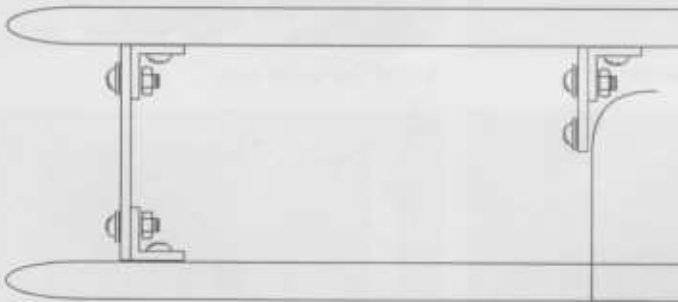
The full set of the struts.



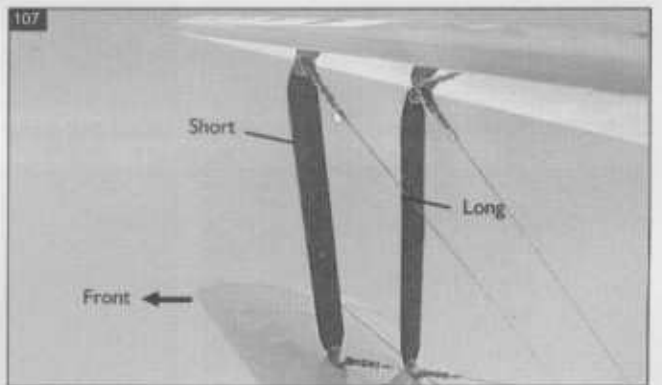
Install the metal strap.



Install the metal strap.



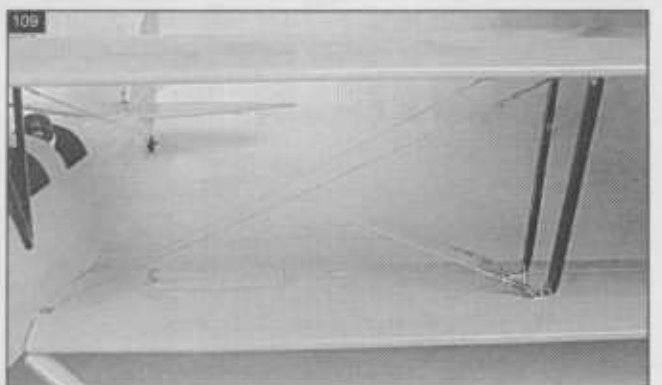
Install the metal strap.



Install the struts.



Install the struts.



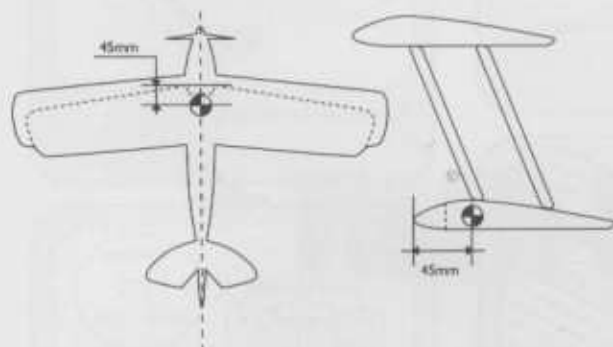
Install the cable.

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 45 mm BACK FROM THE LEADING EDGE OF THE WING, AT THE FUSELAGE.

2. Mount the wing to the fuselage. Using a couple of pieces of masking tape, place them on the top side of the wing 45mm back from the leading edge, at the fuselage sides.
3. Turn the airplane upside down. Place your fingers on the masking tape and carefully lift the plane.
4. If the nose of the plane falls, the plane is heavy nose. To correct this first move the battery pack further back in the fuselage. If this is not possible or does not correct it, stick small amounts of lead weight on the fuselage under the horizontal stabilizer. If the tail of the plane falls, the plane is tail heavy. To correct this, move the battery and receiver forward or if this is not possible, stick weight into the firewall. When balanced correctly, the airplane should sit level or slightly nose down when you lift it up with your fingers.



LATERAL BALANCE

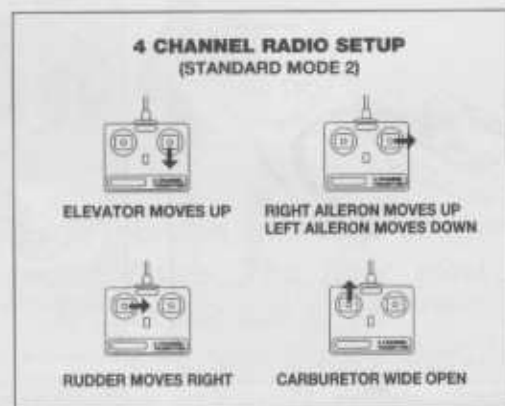
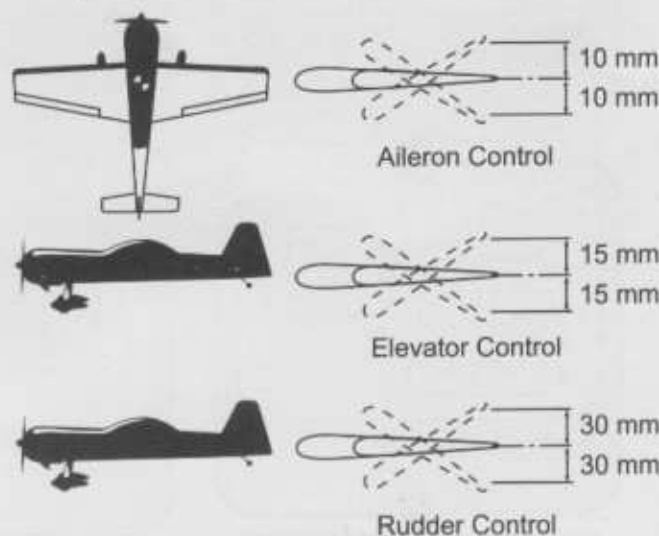
After you have balanced a plane on the C.G. You should laterally balance it. Doing this will help the airplane track straighter

1. Turn the airplane upside down. Attach one loop of heavy string to the engine crankshaft and one to the tail wheel wire. With the wings level, carefully lift the airplane by the string. This may require two people to make it easier.
2. If one side of the wing fall, that side is heavier than the opposite. Add small amounts of lead weight to the bottom side of the lighter wing half's wing tip. Follow this procedure until the wing stays level when you lift the airplane.

CONTROL THROWS

1. We highly recommend setting up a plane using the control throws listed.
2. The control throws should be measured at the widest point of each control surface.
3. Check to be sure the control surfaces move in the correct directions.

Ailerons : 10 mm up	10 mm down
Elevator : 15 mm up	15 mm down
Rudder : 30 mm right	30 mm left



FLIGHT PREPARATION PRE FLIGHT CHECK

1. Completely charge your transmitter and receiver batteries before your first day of flying.
2. Check every bolt and every glue joint in your plane to ensure that everything is tight and well bonded.
3. Double check the balance of the airplane
4. Check the control surface
5. Check the receiver antenna. It should be fully extended and not coiled up inside the fuselage.
6. Properly balance the propeller.