

Items needed to complete:

4 ch. Computer Radio system w/ 3-4 micro servos

Electronic speed control

200 watt motor

Typhoon micro 15/10 recommended

suitable propeller 9 x 6 E

30 min epoxy

Micro-balloons

CA w/ accelerator

Canopy glue

Velcro

Battery 3S1P Cell Lithium Polymer

HIGH-END TECHNOLOGY RC

Available from: www.modelflight.com.au

Thank you for buying our Tucano,

before you start building the Tucano go through these instructions.

And study the pictures carefully, The plane is very easy to build.
And advances quickly.



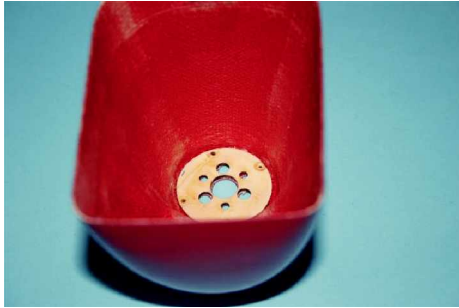
Drill template



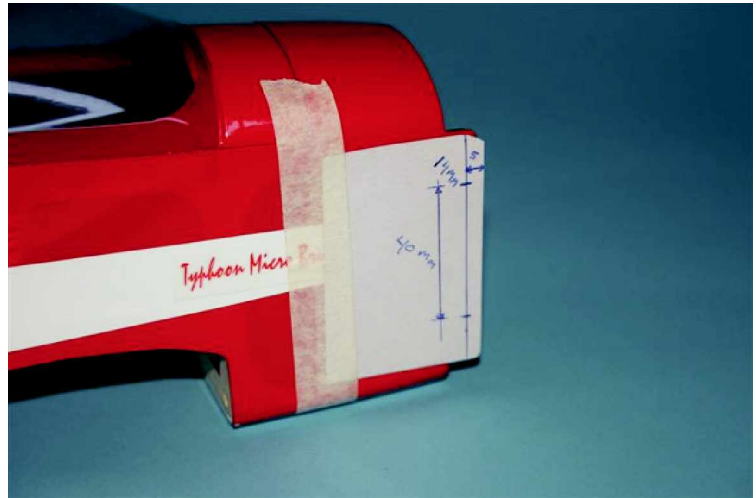
Mark the holes on the front of the cow with a pencil



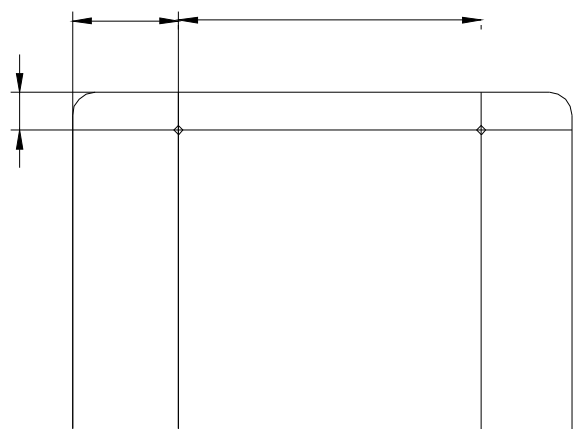
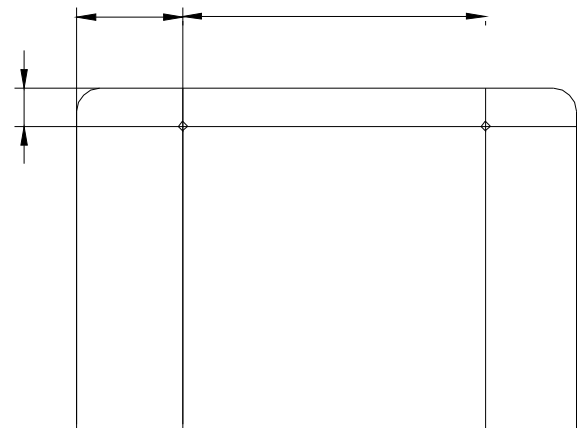
Use a dremel or a drill to make the holes.

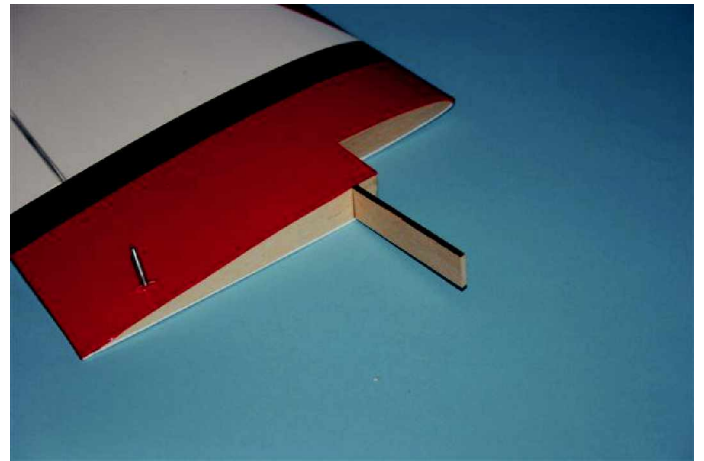
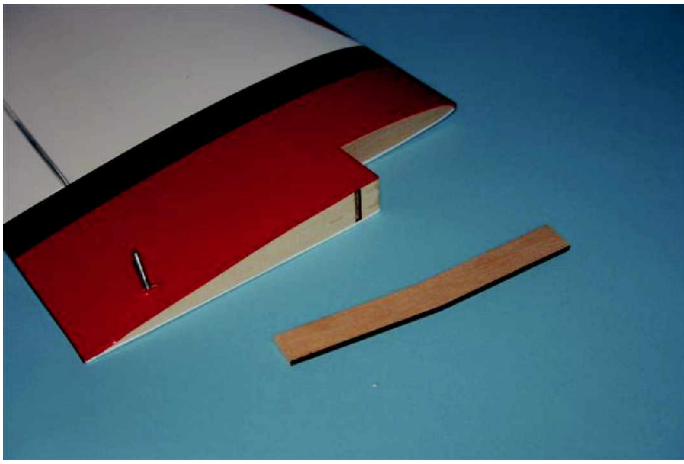


Glue the template inside the cow make sure the holes align. Use 5 or 30 minute epoxy

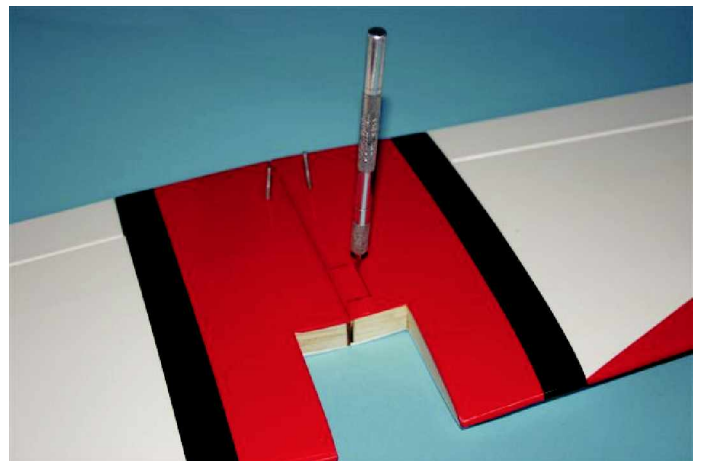
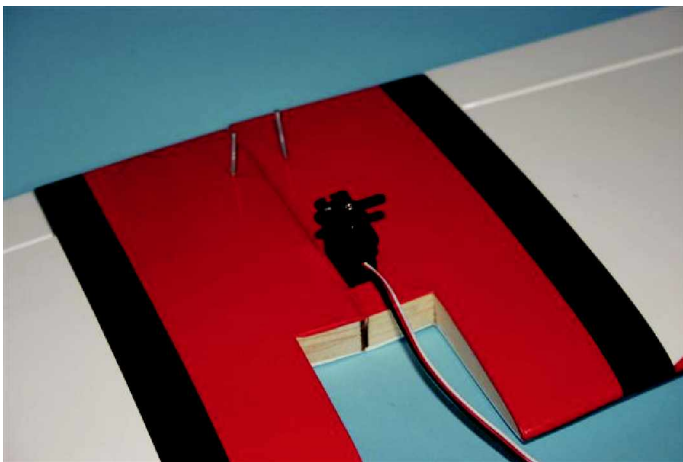


The Above picture shows the drill template below you see the drill template copy it or cut this out. Align the cowling with the fuselage, tape it temporarily in place and drill 1 or 1.5 mm holes

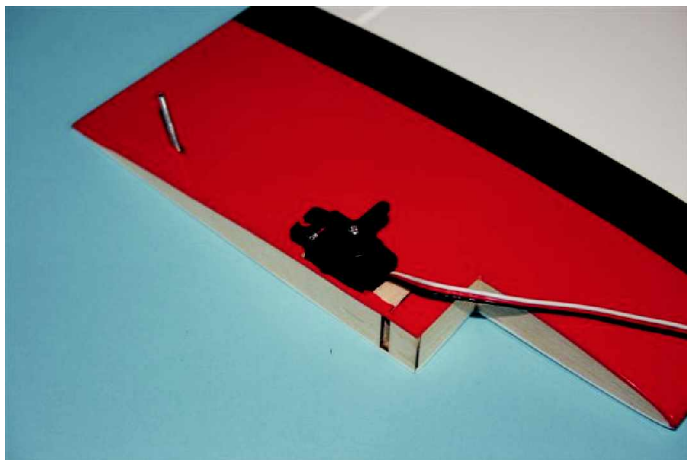




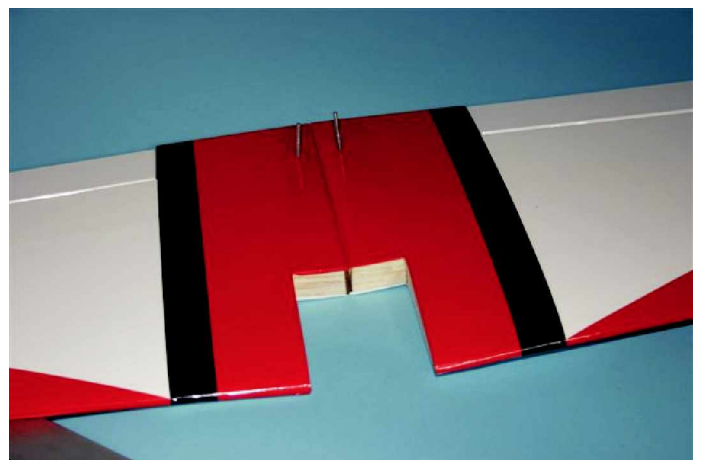
Glue the wing joiner in its slot with 5 minute epoxy remove excess glue and leave it to set



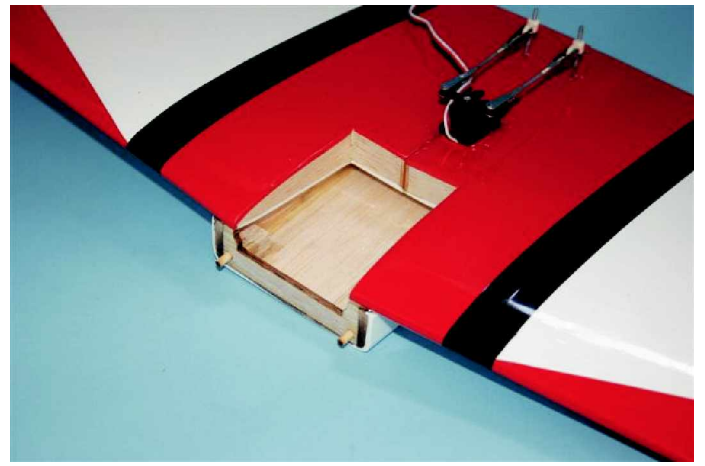
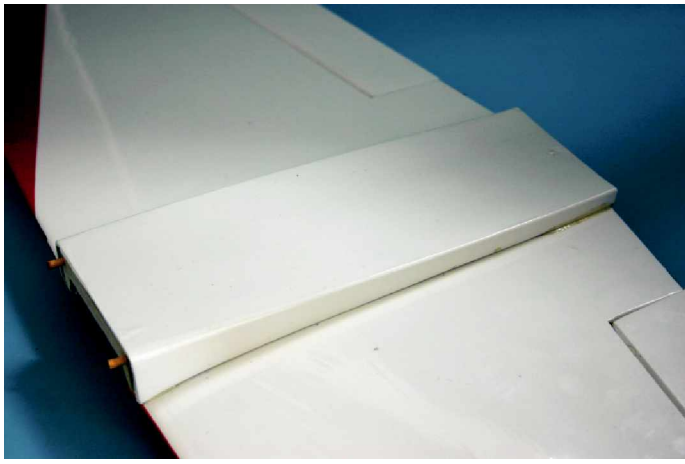
Mark the servo location and cut it out with a sharp knife.



You can just glue the servo in place with some 5 minute epoxy.



Glue the wing panels together don't forget to glue in the wing joiner by putting glue in the slot. Use 5 minute epoxy you can use tape to hold de wings together while the glue cures.



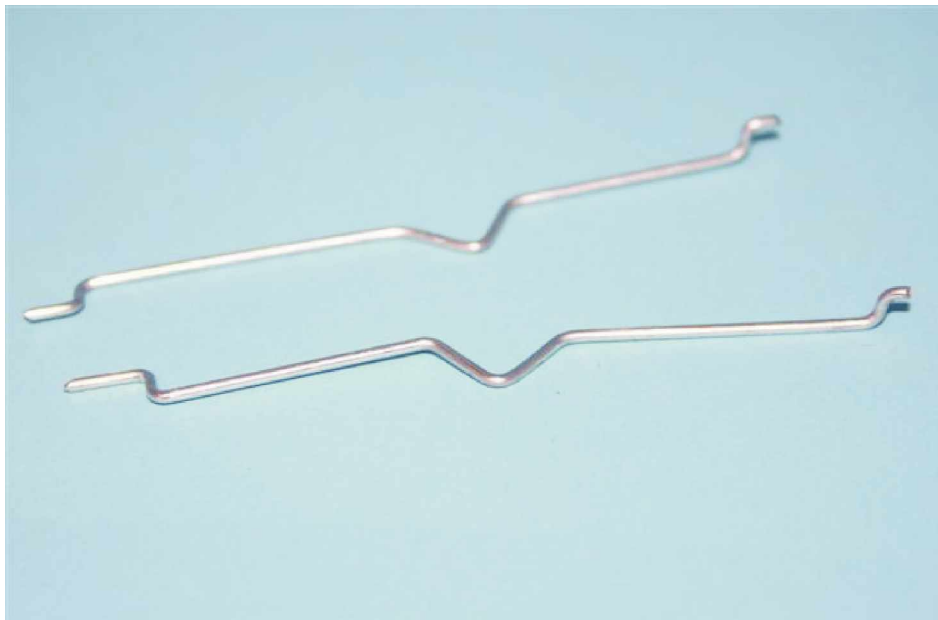
Glue the belly pan in place.
Make sure it is in the middle

you could mark its location before glueing . Leading edge 80 mm / trailingedge 70 mm.



You can make the aileron
pushrod like this

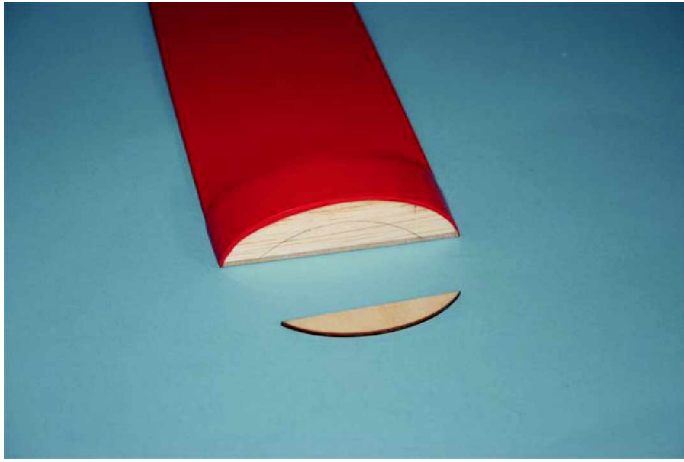
Cut the treaded end to length
and make a Z-bend for the
control horn



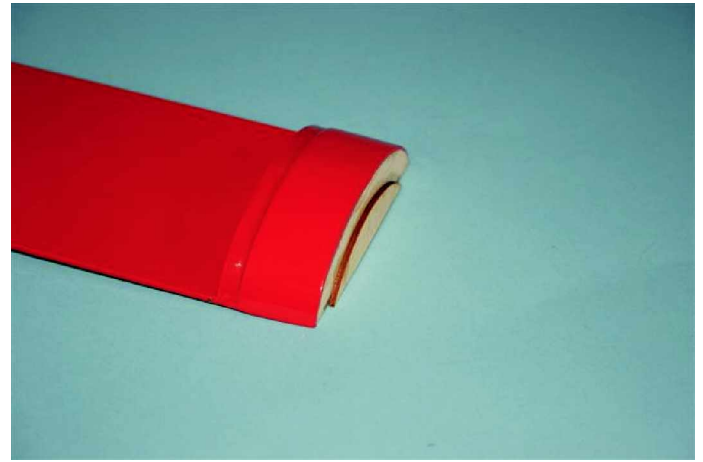
If you want a lighter setup
you could make this.

Two Z bends and a V bend
in the middle to adjust the length.

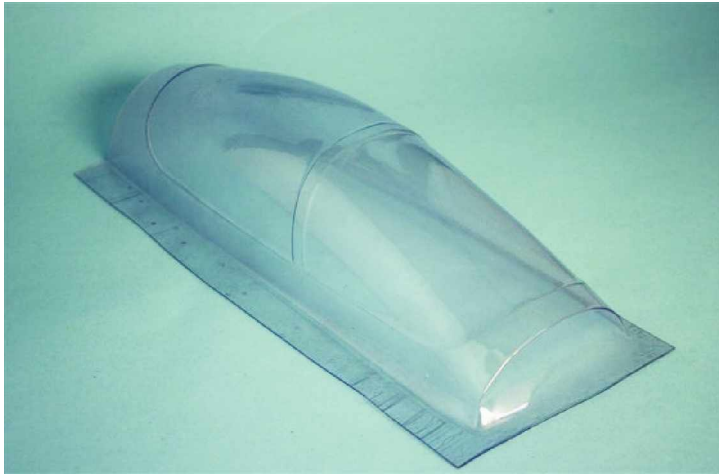
Use 1MM piano wire if you want to
to this control.



Mark the crescent shaped plywood on the cockpit floor front



Glue it with CA in place.



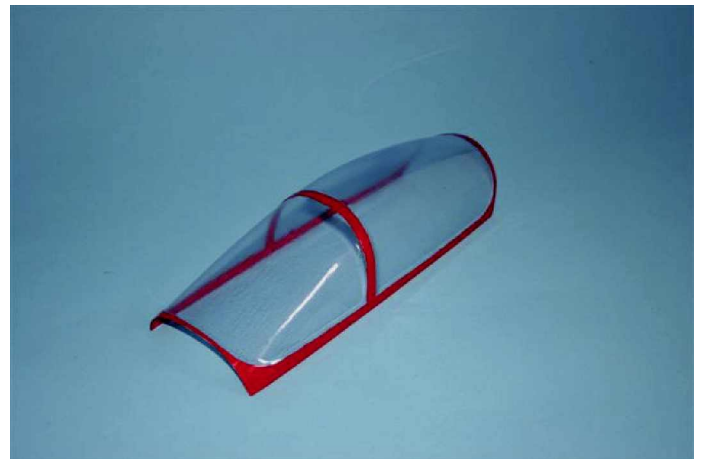
Cut the front and back vacuum formed piece on the edges. When you have done that tape the canopy with cockpit floor on the fuselage. Like in the next picture



Mark the outline of the cockpit hatch on the vacuum formed canopy. Carrefully cut out the canopy .



Paint the panelines in the color you want.

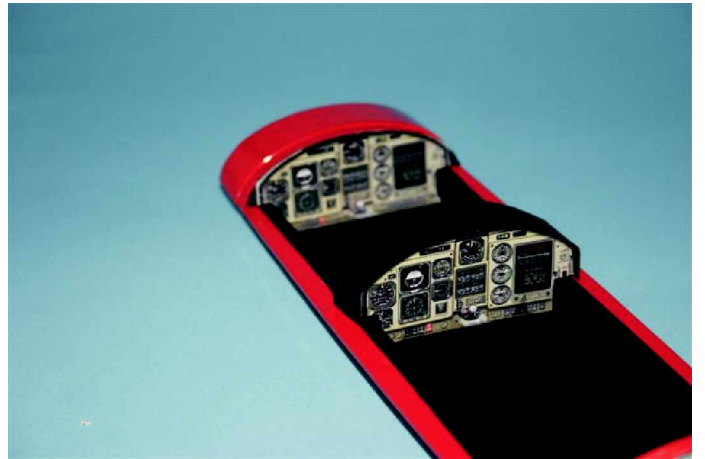
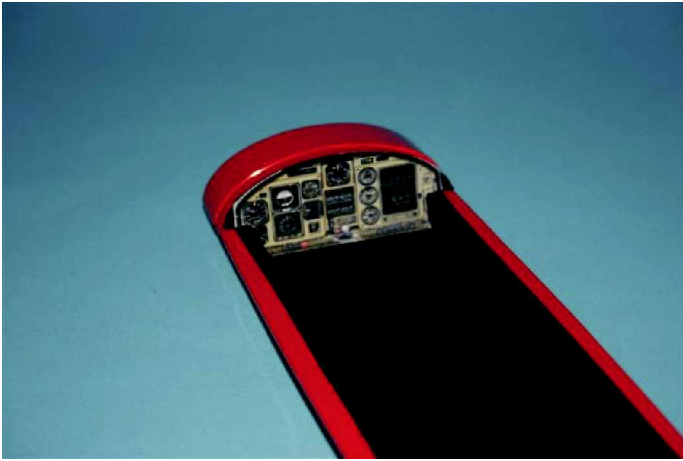




You can leave the cockpit like this or you can make a more scale like cockpit like in the pictures on this page.



On the last page the cockpit floorplan is shown.



2 Instrument panels and a ejection seat installed.



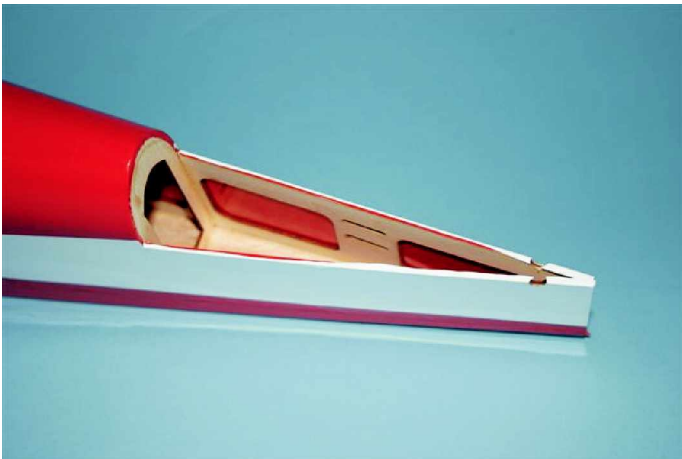
This is just an example how you can dress up your cockpit.



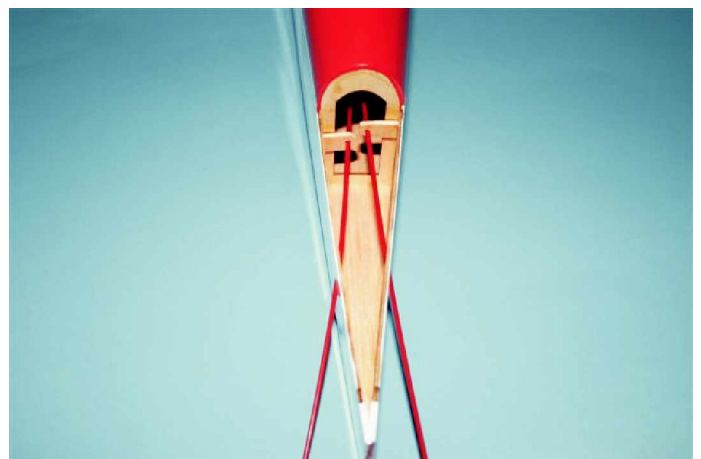
Fuselage is made of liteply and balsa



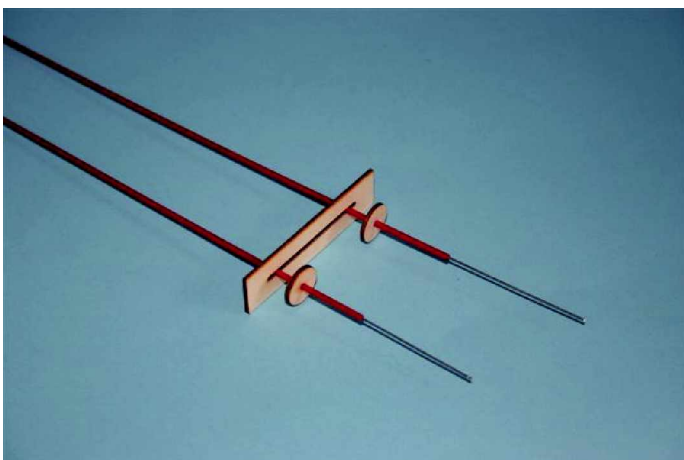
Servo- tray shown for rudder and elevator servo.



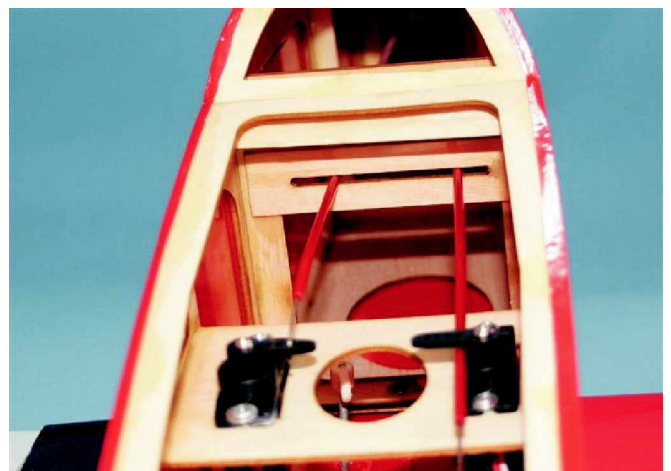
Note the 2 slots for for the bowden cable tubes. These slots are both sides. Top slot is for elevator. Bottom slot is for rudder. E.g. Put elevator right and rudder left.



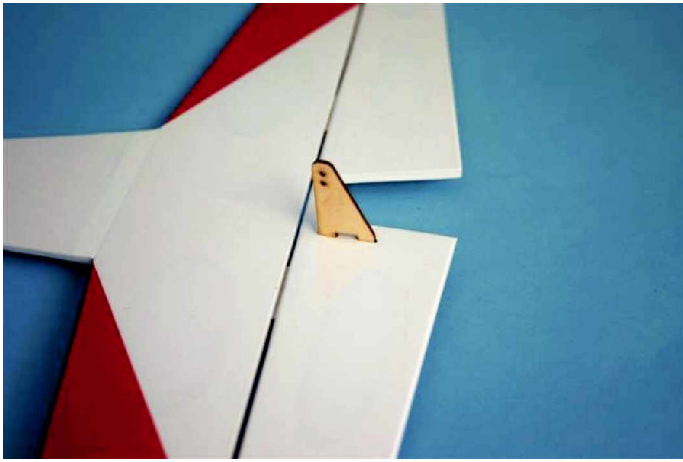
Use the 2 wooden supports for the tubes. These supports are used to prevent flutter. An minimize saqqing of the tube



These 3 wooden support pieces are use to support the tubes in the front of the fuselage



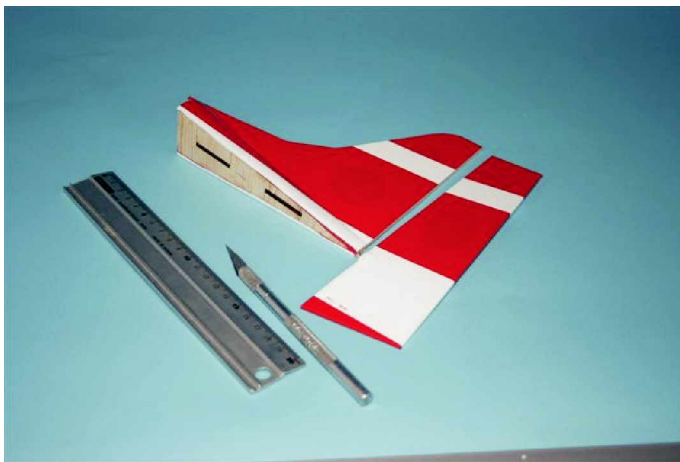
First align the pushrods with the servo arms than glue the support pieces in place against the back former (bulkhead) under nead the canopy.



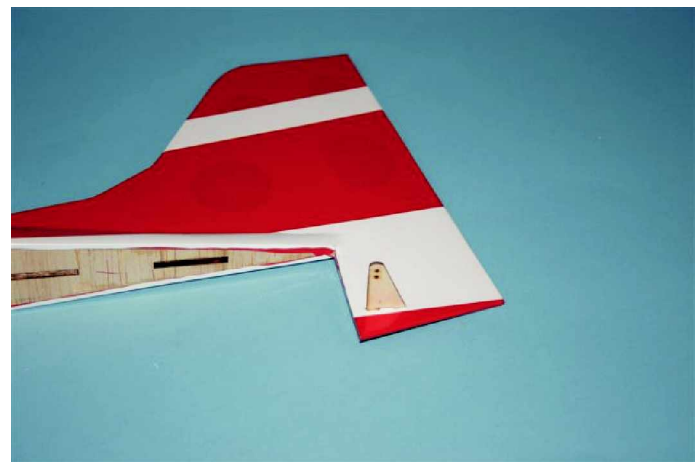
Locate the holes for the control horns and cut them open. You can rub with your nail over the covering to find the 2 holes. Glue the horn in place with 5 minute epoxy.



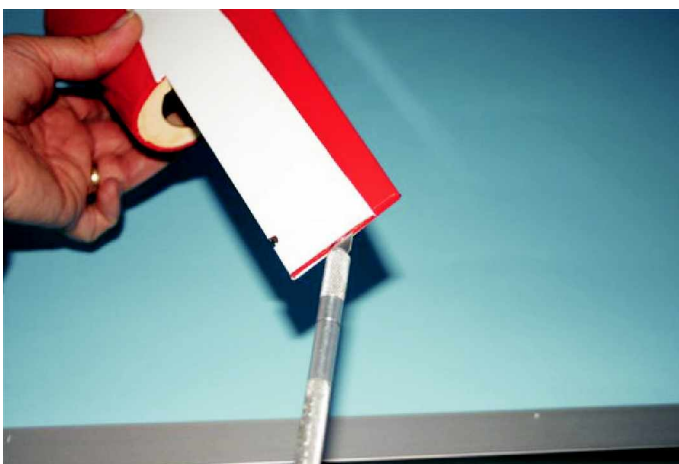
If you want to use a rudder, which we recommend you should cut off the rudder from the fin



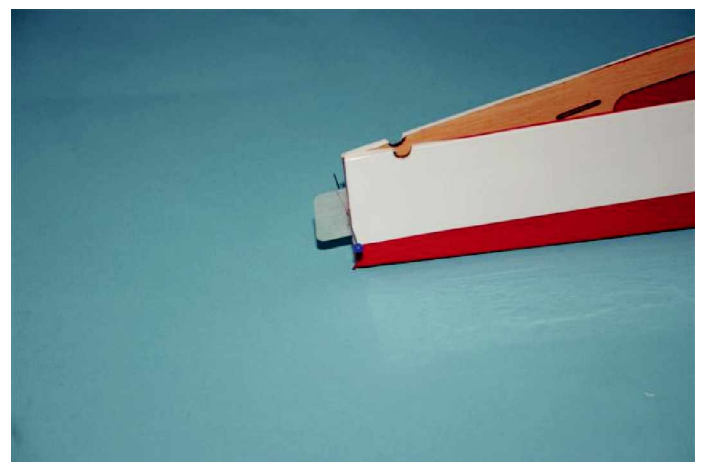
After you have cut off the rudder you apply some clear tape around the leading edge of the rudder. To prevent that the covering coming loose when flying.



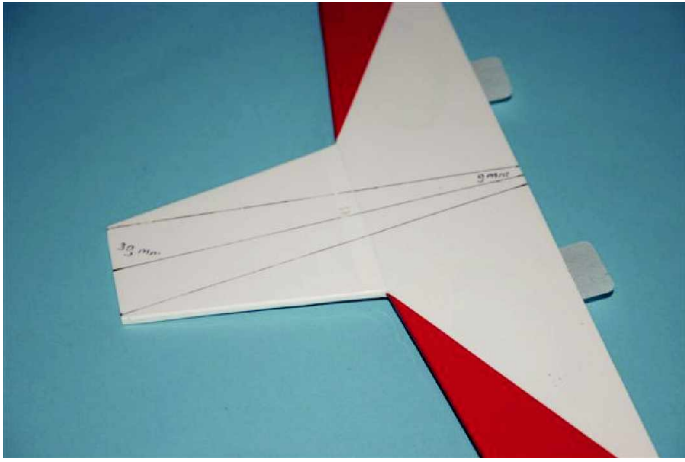
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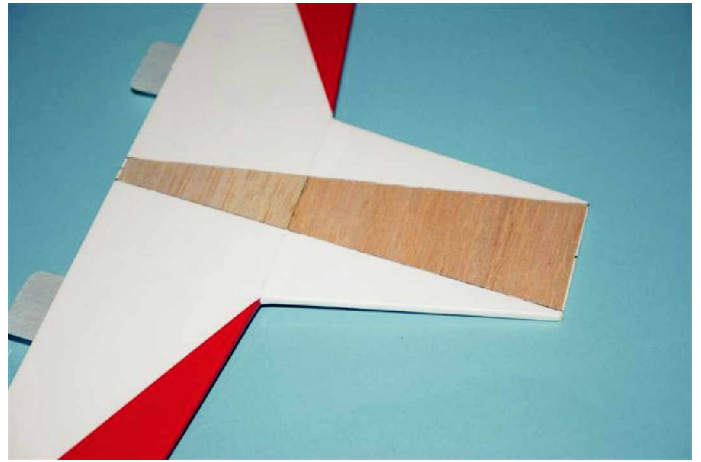
Make a slot for the rudder hinge, also you must cut the slots for the hinges in the Rudder and fin.



Glue the hinge in place



Mark with a pencil or marker the outline of the fuselage, front about 39mm back about 9mm.



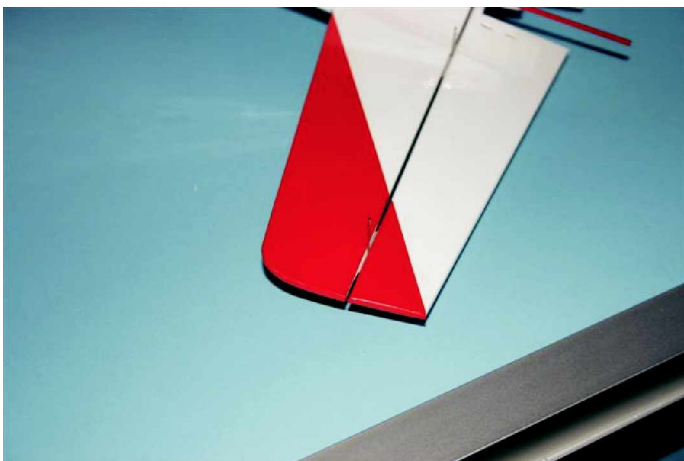
Remove the covering with a sharp knife. Don't cut the balsa.



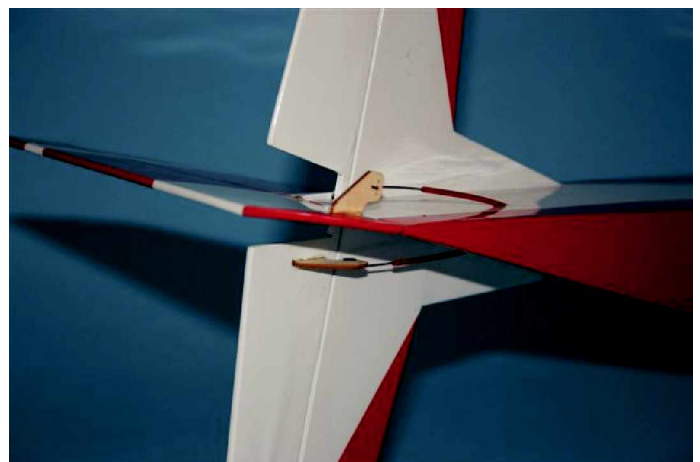
Before you glue the stabilizer in place, remove the covering from the fuselage (top edge). Use 5-minute epoxy or thick CA. Mark the top of the stabilizer and remove the covering like you have done with the bottom.



Now glue the fin in place with 5-minute epoxy. Use a cloth with cleaning alcohol to remove excess glue. Use needles (pins) to keep the fin in place.



Use pins in the middle of the hinge to have an equal distance between the elevator and stabilizer. Use thin CS glue to hinge in place. Remove excess glue with CA remover or acetone.





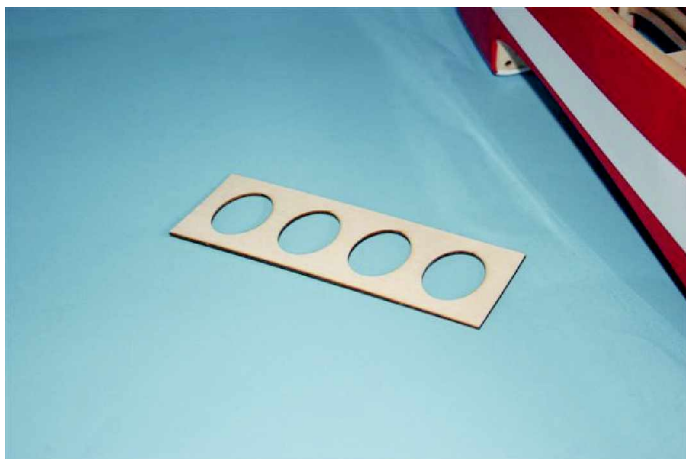
Cut out a piece of the supplied covering and iron in place . Make sure it aligns with the stripe on the fuselage.



Now trim the excess covering with a sharp knife and ruler. Use a cotton cloth around your ironing tool to avoid scratches



This is the hatch release , just 2 magnets to hold the canopy on the fuse make sure. You make the slots in the middle to fit the magnets. Make also sure that they attract each other

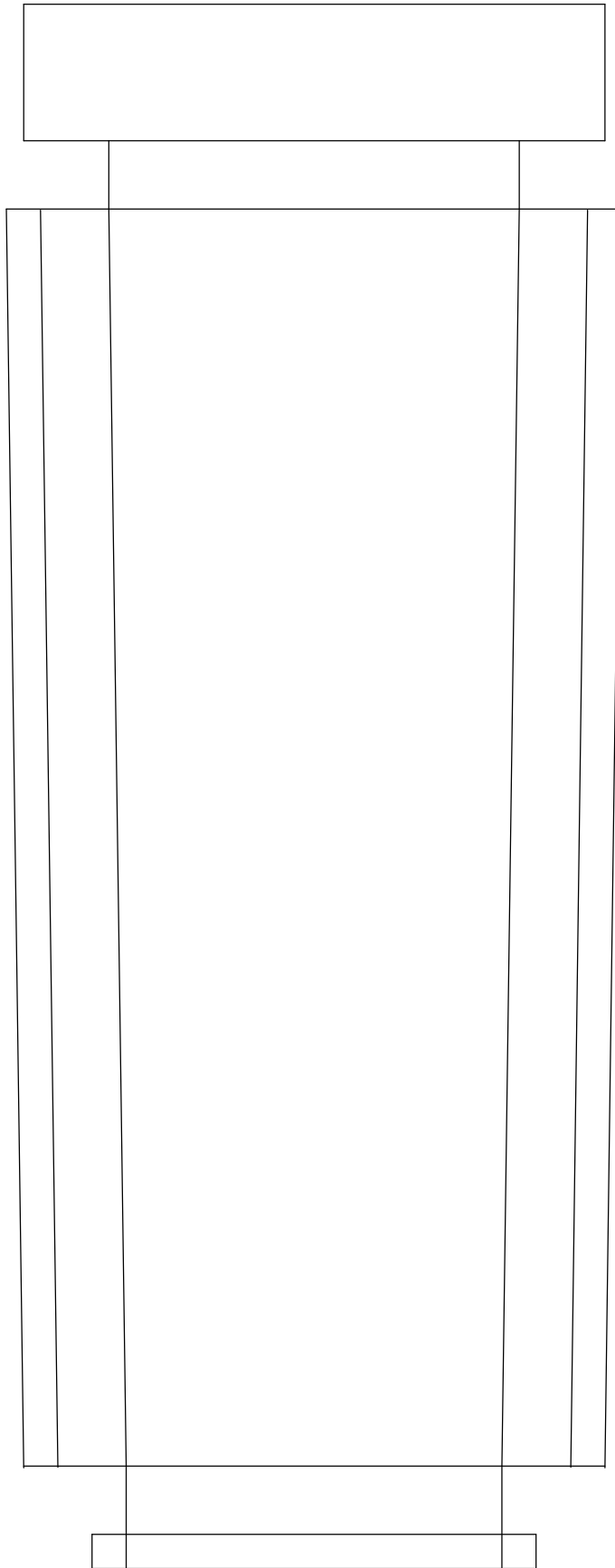


Battery tray



Glue the battery tray in place. Put velcro on top of the tray to keep the battery in place

Cockipt floorplan



If you want to add a floor

and instrument pannels you can use
this template. Folding lines are
shown . Just print this out .

SETTINGS.

CG. 62 mm from leading edge
elevator throw 10 mm up 5 mm down
Ailerons 12 mm up 6mm down
Rudder as much as possible
Use a computer radio if possible with 50-60%
exponential on elevator.

If you feel comfortable with the plane you can
the CG further backward.

FLYING

You will find the airplane is very nimble and has excellent stability..

Just remember to land level; as to avoid damage to the plane .

Happy Flying.

WARNING!

Although The Tucano is a stable airplane, if the plane is out of control can cause serious personal injury and property damage. We strongly urge you to seek the help of an AMA approved instructor if this is your first aircraft.

Please use common sense

High-end Technology Holland assumes no liability for the operation or performance of this product. It is the responsibility of the operator to use this product in a safe and responsible manner