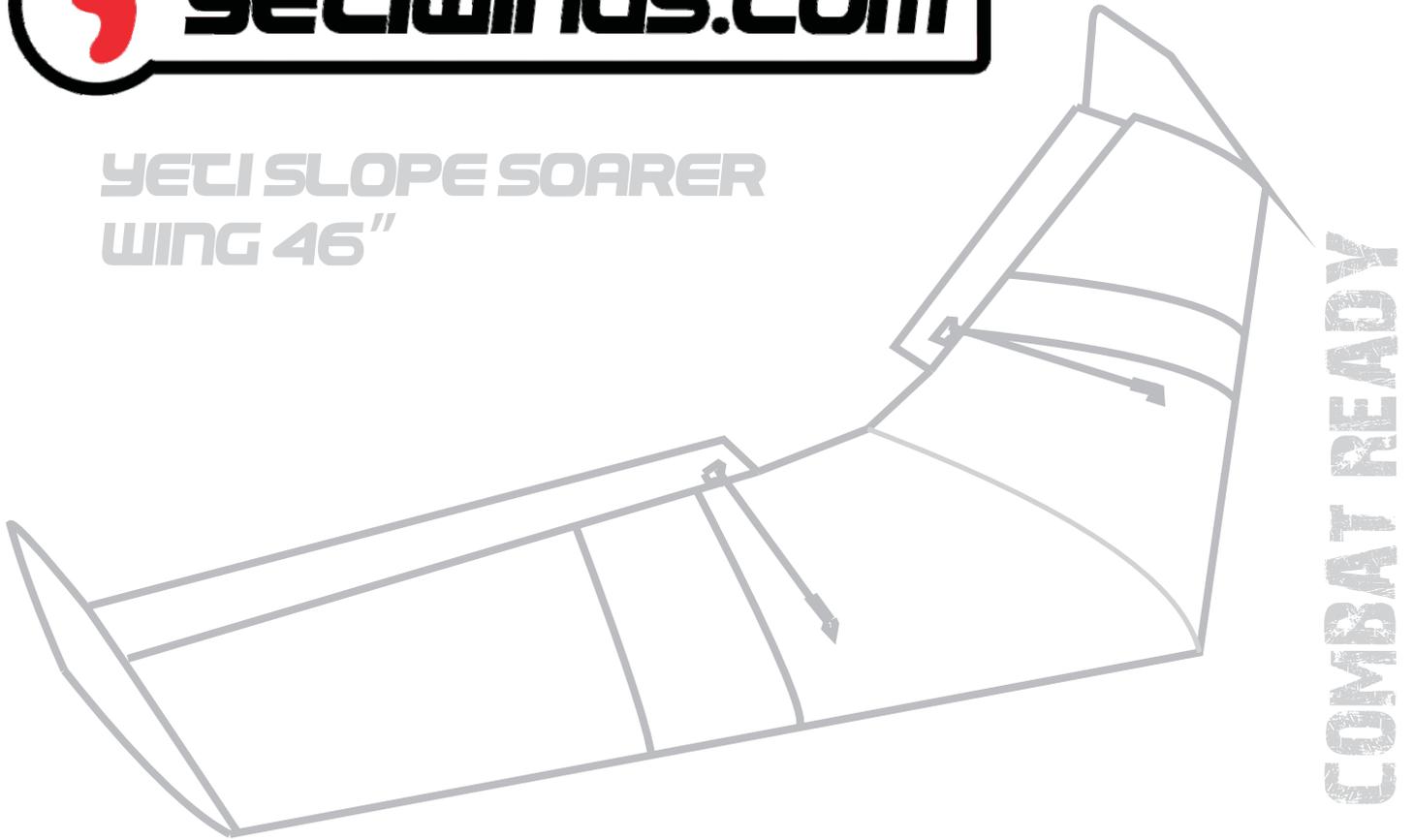




YETI SLOPE SOARER WING 46"



Thank you for purchasing the Yeti electric wing.

The Yeti electric wing is capable of stable flight, yet capable of aerobatics, its also tough and rugged.

The Yeti can be flown from rough ground in challenging weather where others would be grounded.

Kit Contents:

- > 100% EPP wing panels
- > Laser cut Correx elevons & wing tips
- > Full Hardware pack
- > Picture Manual

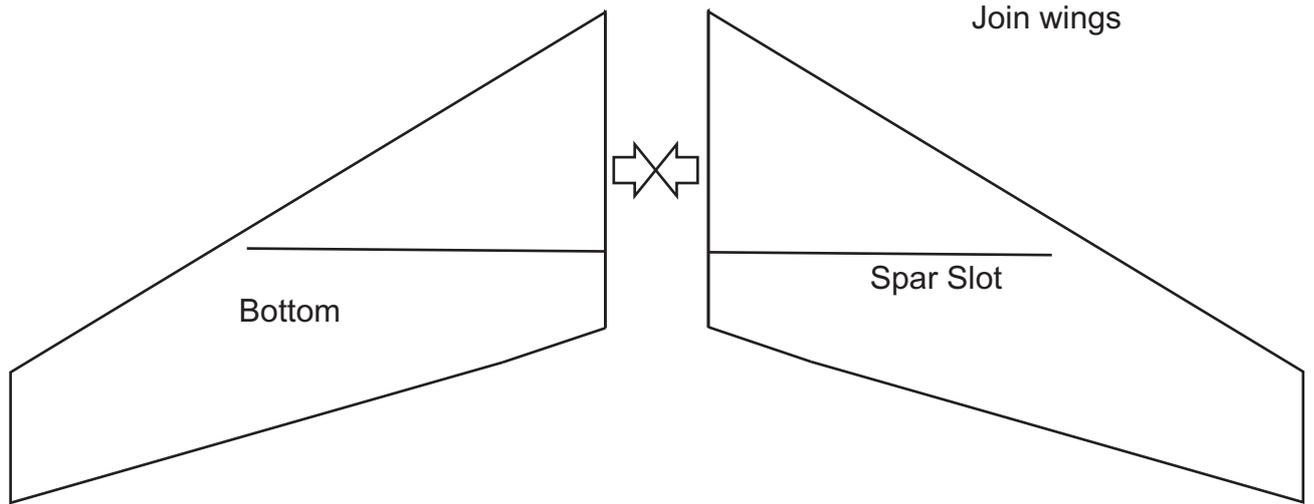
Required to finish:

- > Covering Pack + Glues
- > 2 x Standard size servos , approx 43g
- > RC transmitter capable of elevon mixing with at least 3 ch receiver
- > 2600mah 4.8V Nimh battery pack (flat)
- > Suitable charger for battery

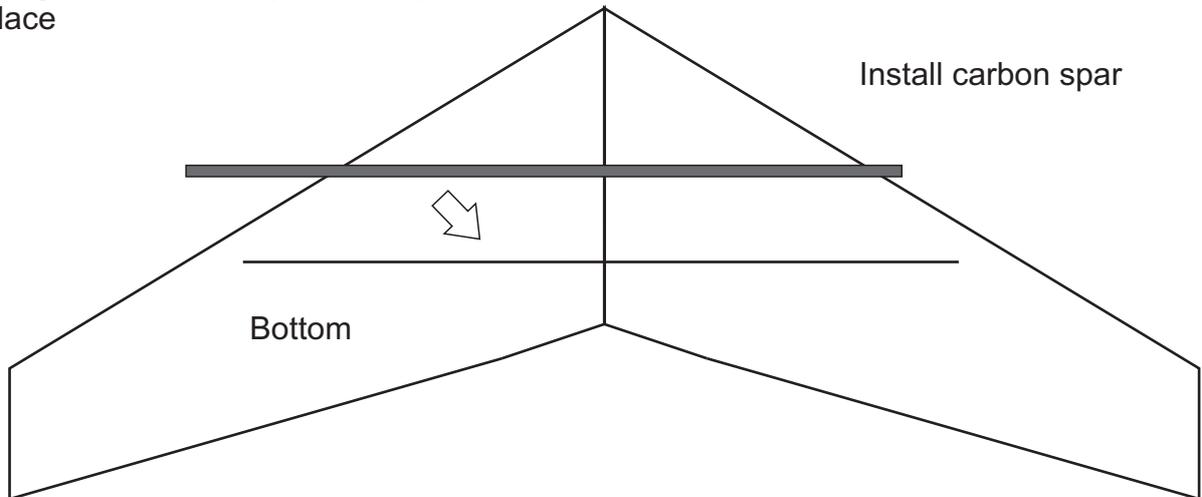
Yetiwings encourages you to get insurance at www.bmfa.org

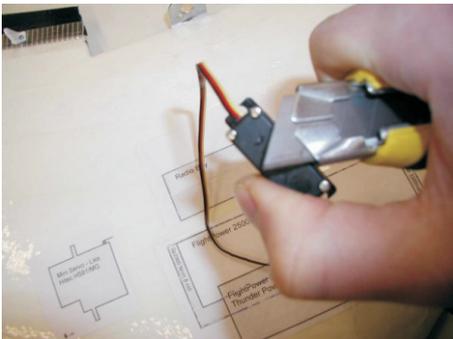
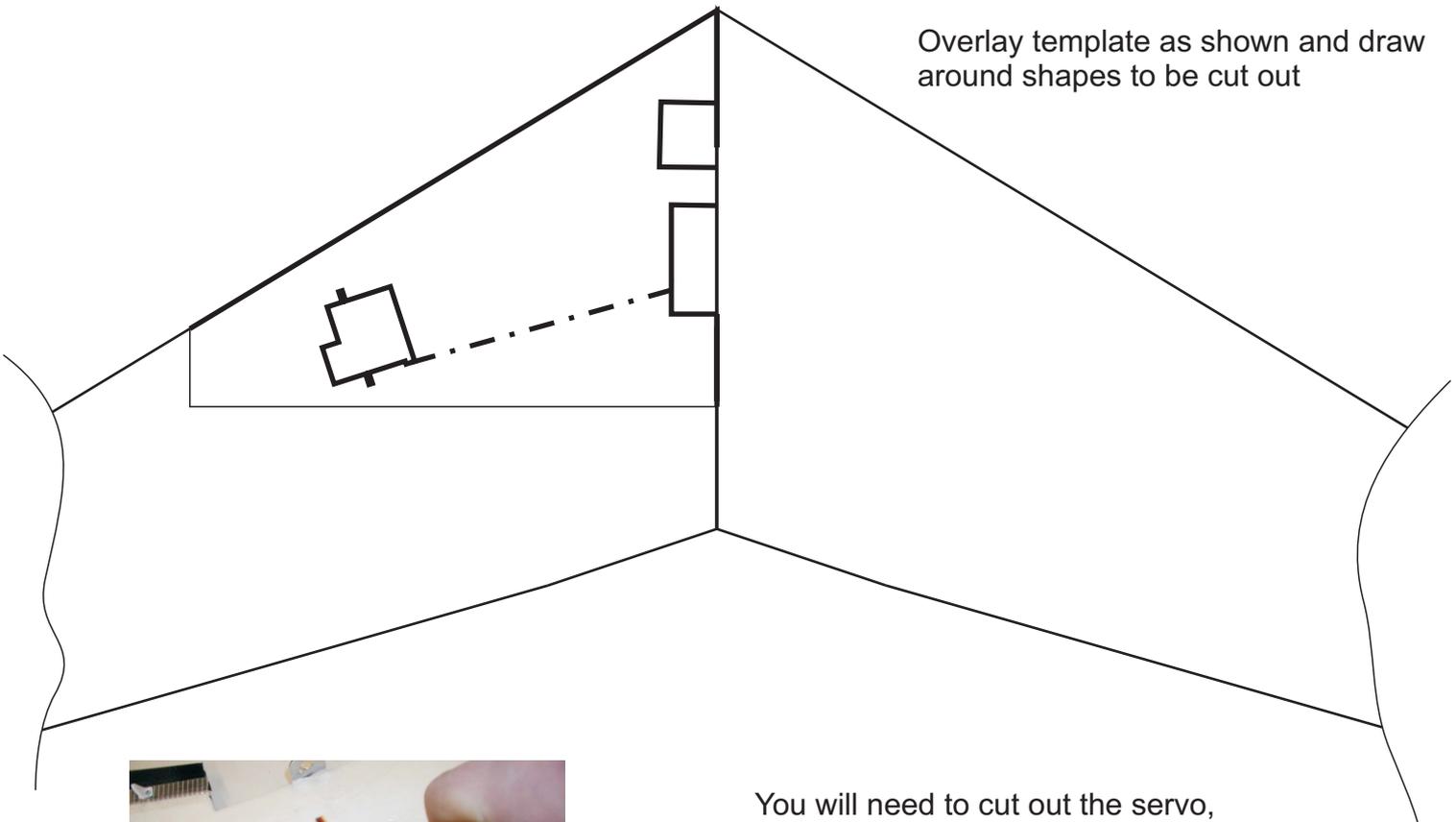
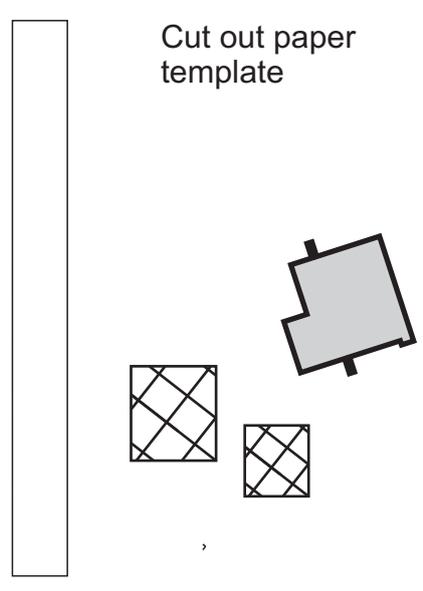
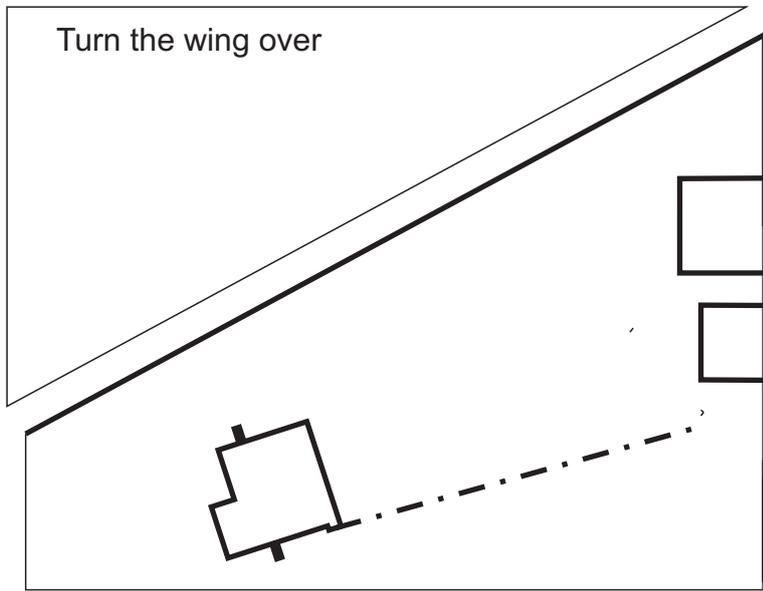


Join the wing halves accurately with UHU por or hot glue, avoid epoxy.



Fill the pre-cut spar slot with UHU por glue, insert the spar and tape in place

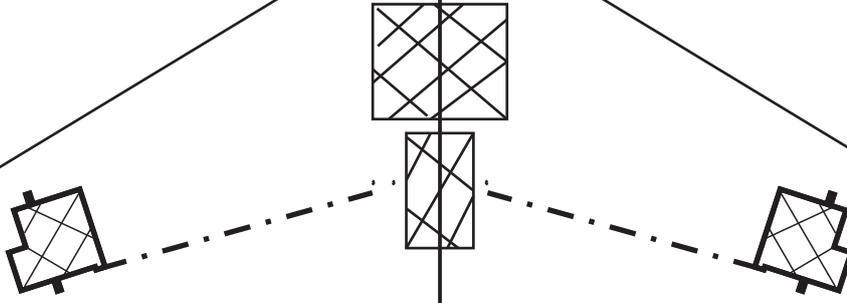




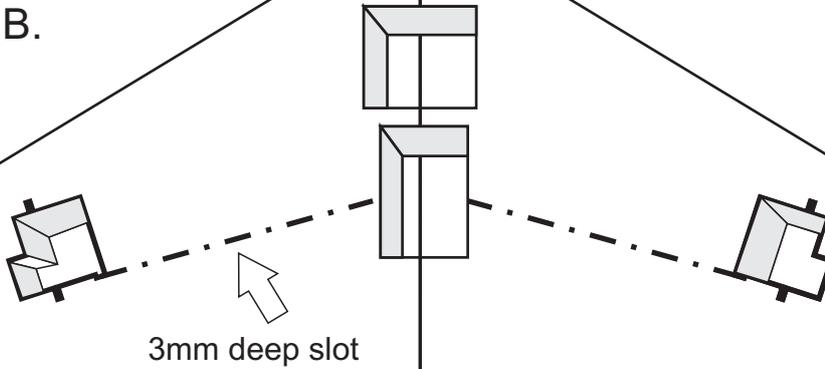
You will need to cut out the servo, battery and receiver apertures.

Its best to set the depth of the cut using an adjustable knife so that you do not cut too deep

A.



B.



A. Draw around your servos and cut to the correct depth, make “criss cross” patterns and lever out the foam carefully with a screwdriver, checking for fit as you go.

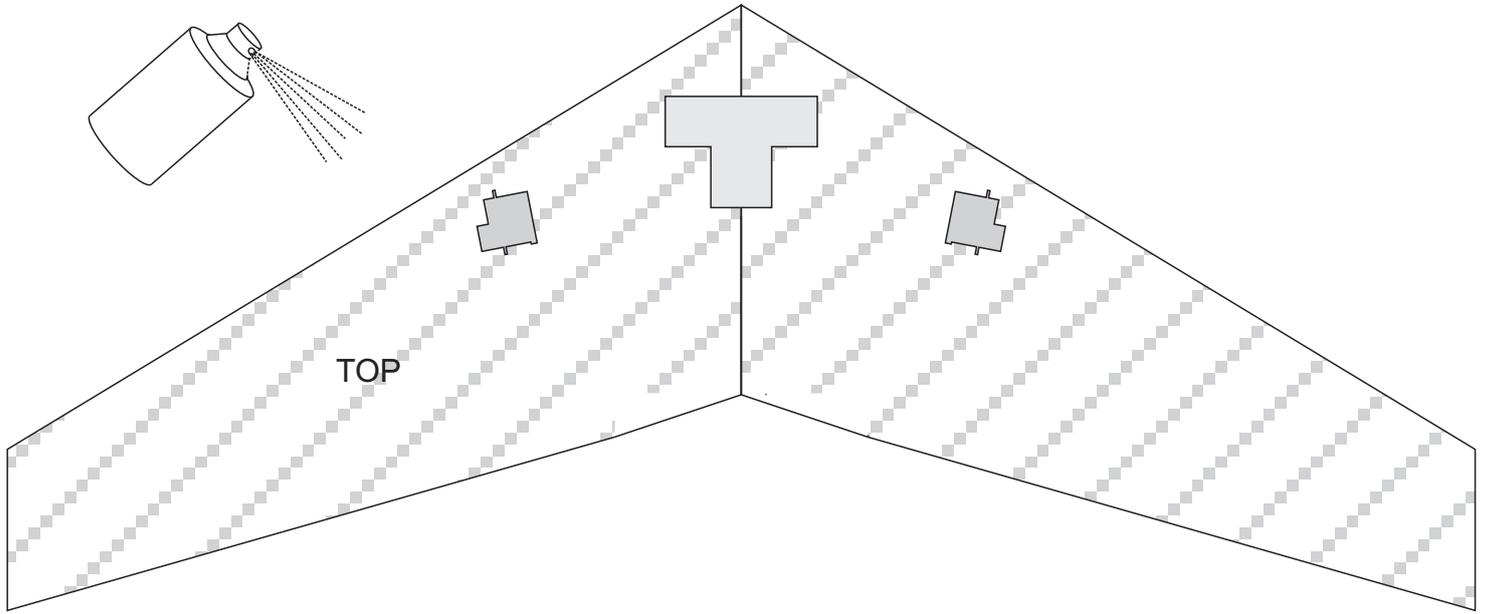
B. Insert the servos, they should sit flush with the top of the wing, cut a shallow (3mm) deep channel from the servo cable exit to the radio bay.

Also check that your chosen receiver fits with the servo plugs in.

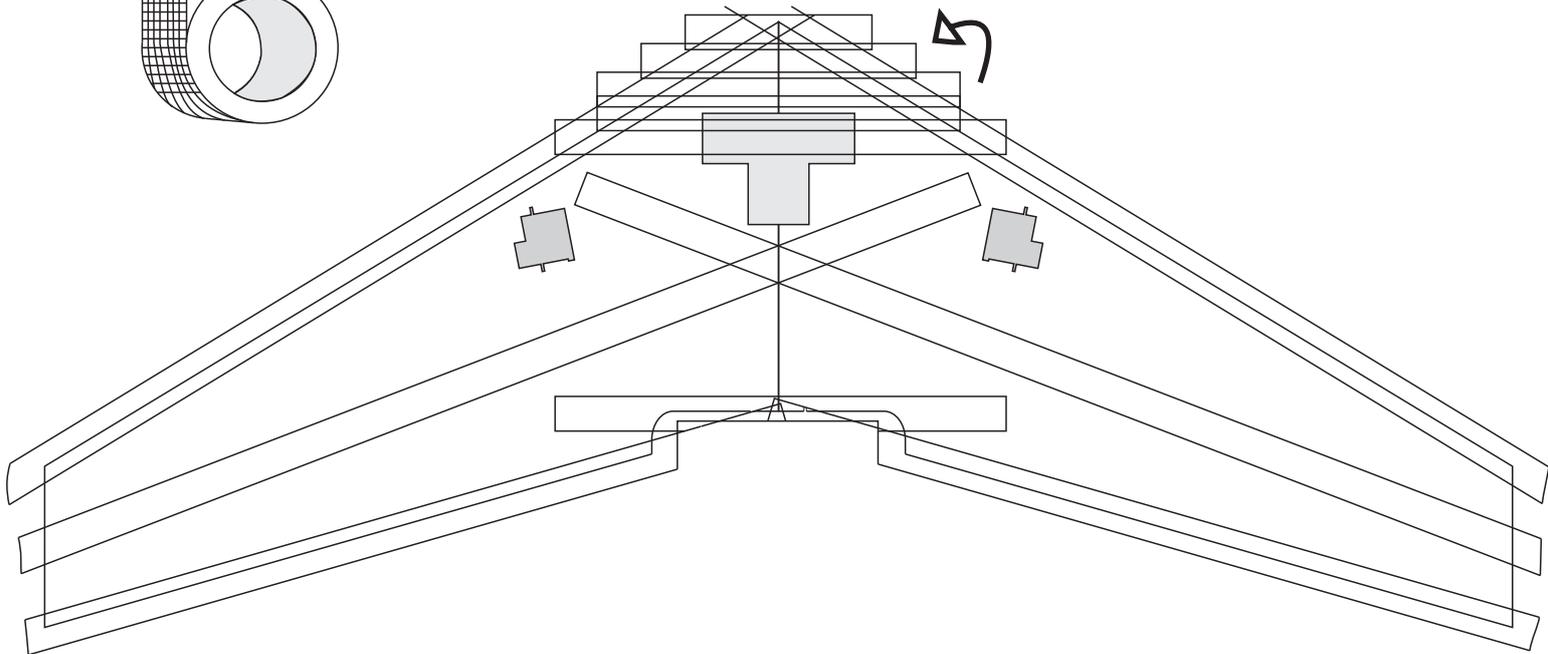
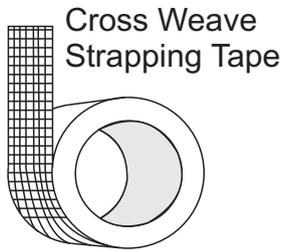
Now remove all servos and receiver

Covering Stage 1 - Spray glue and Cross Weave Tape

Give the top surface of the wing a generous coat of spray glue, allow to dry for 5-10 mins



Apply the 50mm cross weave tape as shown, take care to wrap the overlaps around to the bottom of the wing, trim where necessary.



Repeat for the bottom of the wing

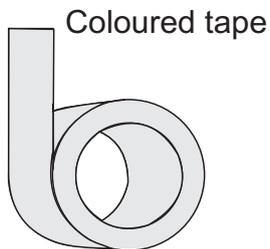
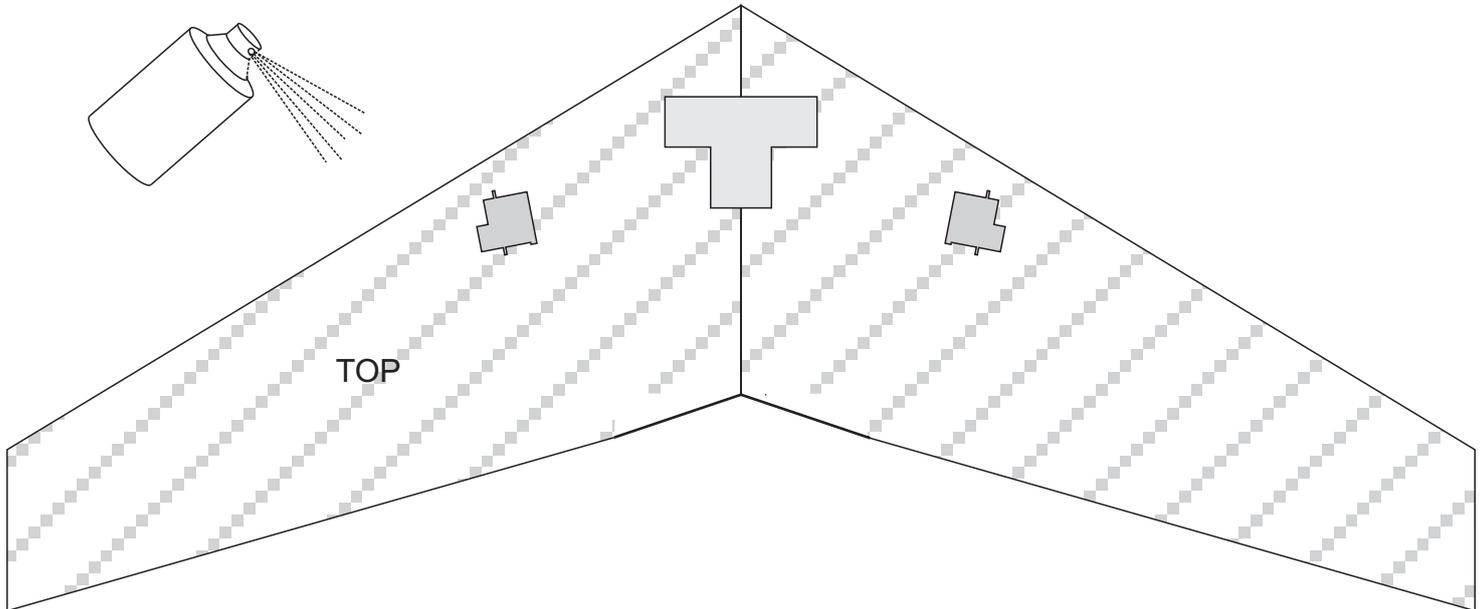
DO NOT COVER THE WHOLE WING IN STRAPPING TAPE. This will cause balance problems later in the build

Covering Stage 2 - Spray glue and Coloured Tape

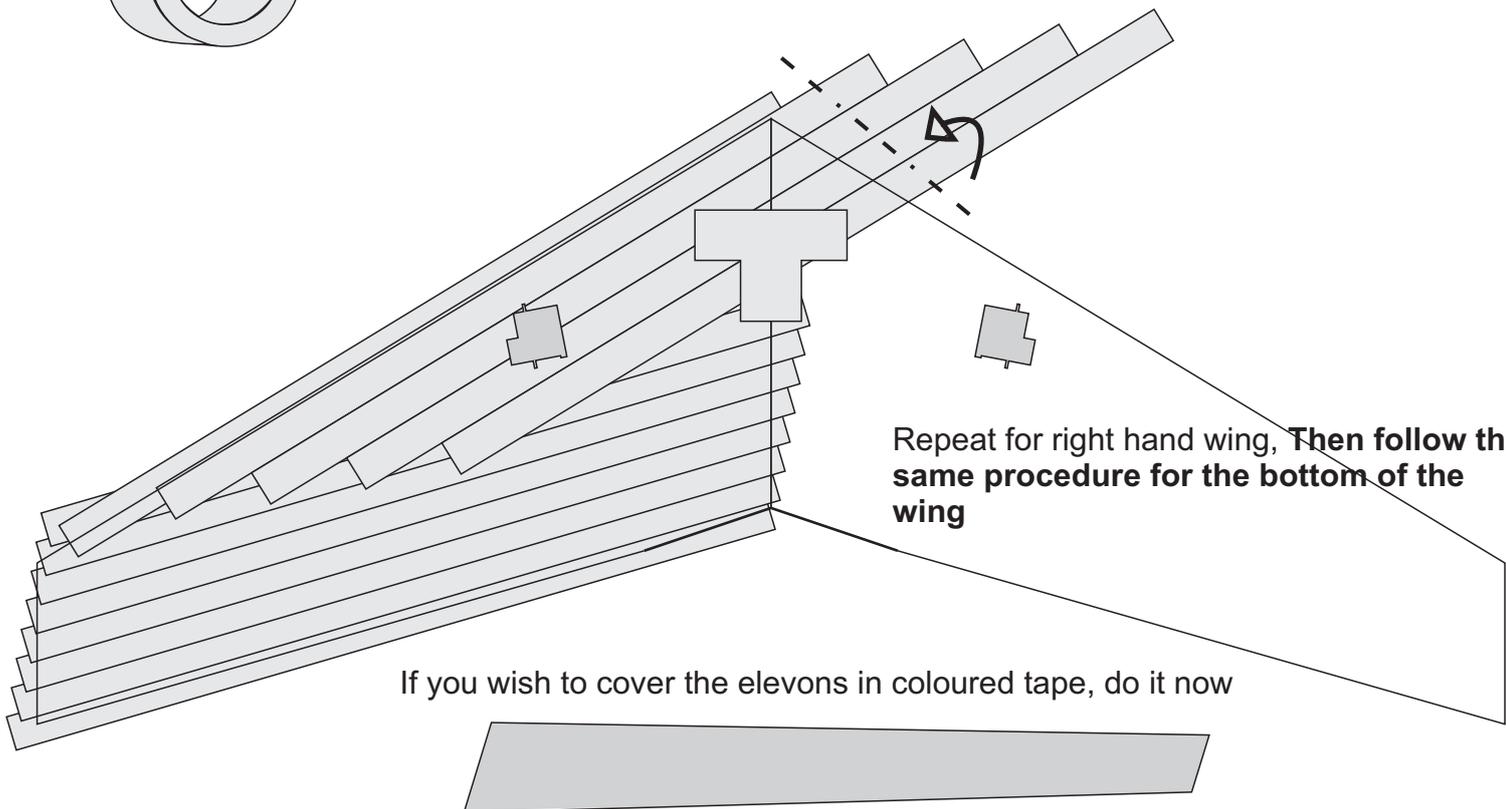
Turn the wing over, to show the top

Find a clean flat surface for the next stages

Give the wing another lighter coat of spray glue, and allow to dry for 5-10 mins



Starting at the back edge of the wing, apply the coloured tape, working forward in strips, overlapping by approx 3mm or 1/8" inch, smooth each strip down as you go.

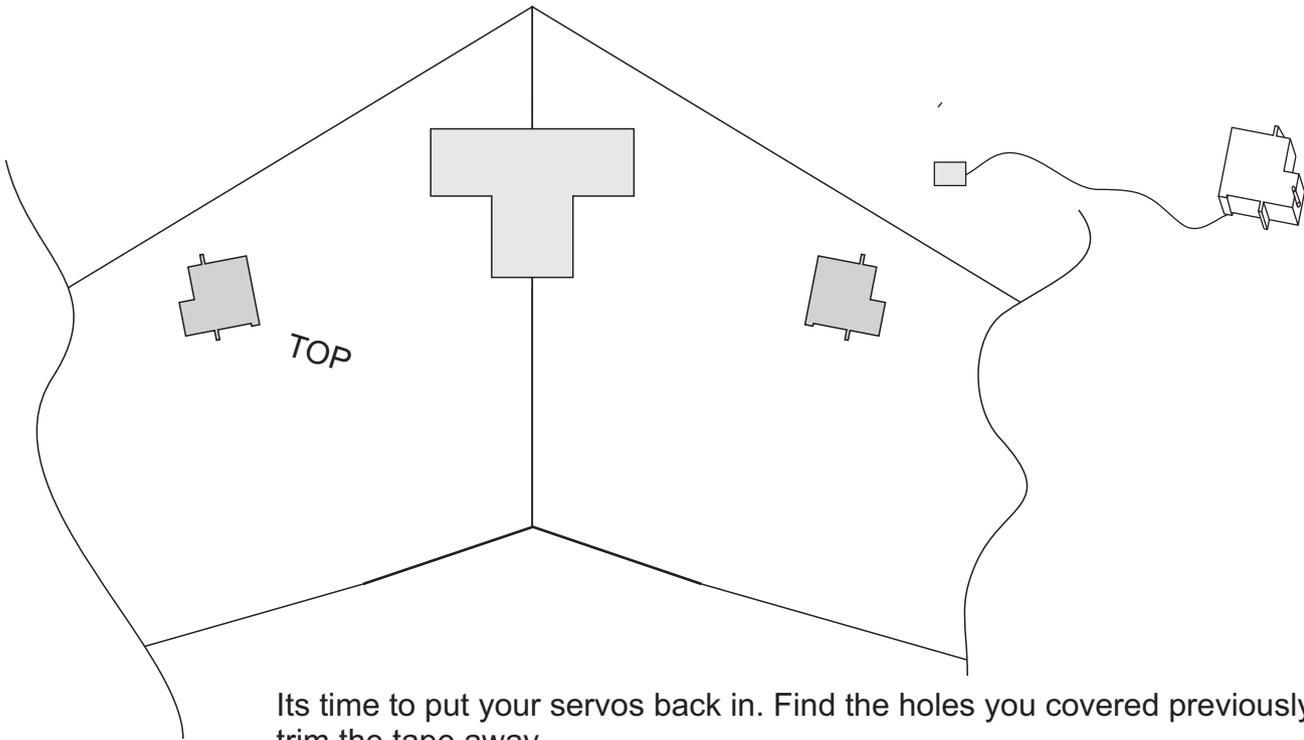


Repeat for right hand wing, **Then follow the same procedure for the bottom of the wing**

If you wish to cover the elevons in coloured tape, do it now

Note, you will be judged by your friends on how many wrinkles you make :-)

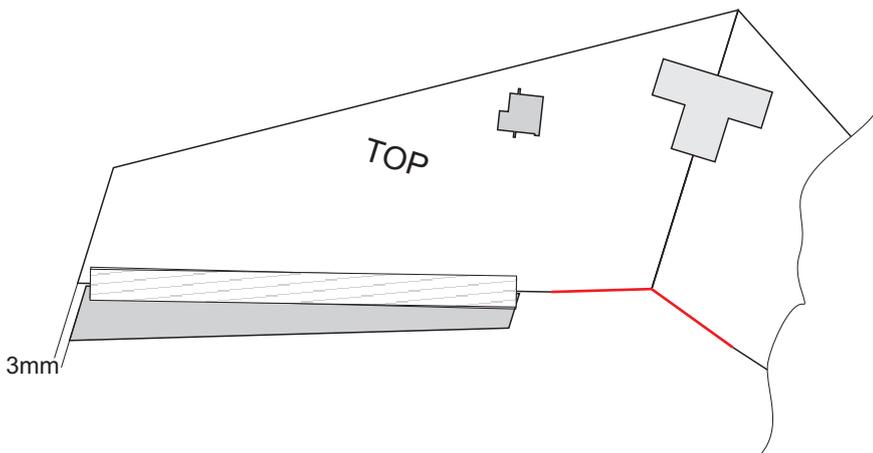
You can make a hatches out of the sheet of EPP foam supplied



Its time to put your servos back in. Find the holes you covered previously and trim the tape away,

Seat the servos and use Cross weave tape to hold them in place, don't forget to put some coloured tape over to make it tidy.

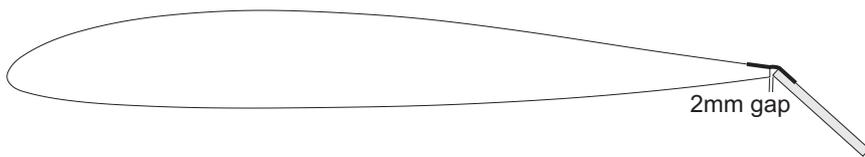
Do the same for the servo cables, push them into the slot and re-cover



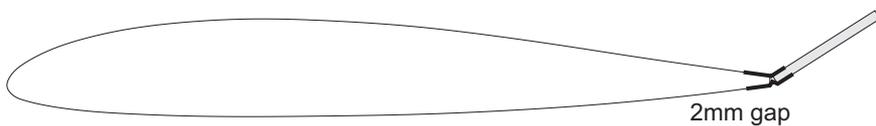
Pop the elevons out of the holder.

Cut some 50mm cross weave tape down the middle to give you some 25mm lengths.

Run a strip of tape along the rear of the wing, half on half off.



Attach the elevon, noting the 3mm gap to the tip of the wing and the 2mm gap. Angle it down.



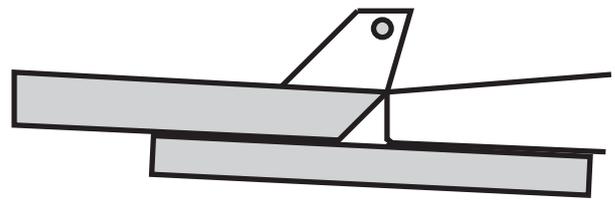
Turn the wing over and repeat, the elevon should move quite freely up and down

Installing the horns & pushrods.

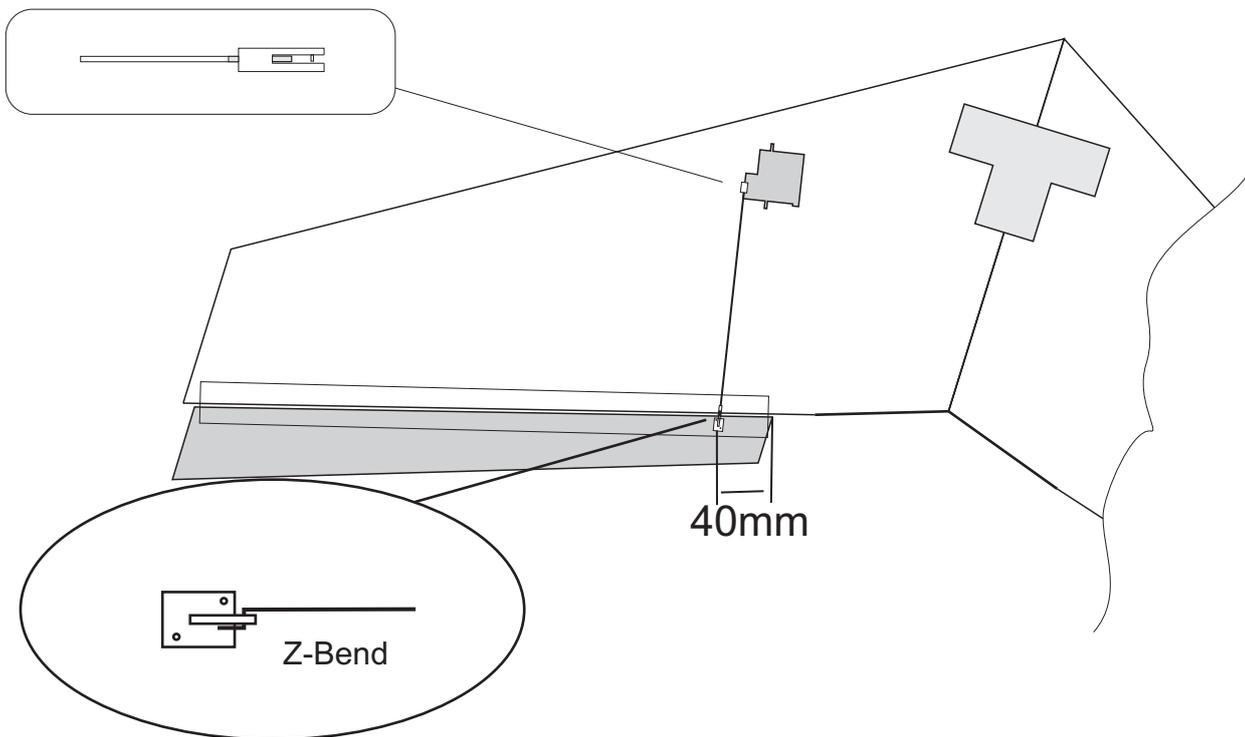
SWITCH ON YOUR RADIO AND CANCEL ALL SUB TRIM
SET TRIMS TO NEUTRAL

Screw the screws into the horns so that the points of the screws are just proud, Line up the horns as shown in FIG 5C, press down the horns, then screw them right down, get the bottom part of the horn, align screws and screw down until the horns grip the elevon, but not too tight.

Screw the clevises onto the pushrods halfway, attach the clevis to the servo horn, Set the elevon position slightly upwards as shown, mark the pushrod with a felt tip and make your z-bend at this point. Note the horn holes may need to be enlarged slightly,



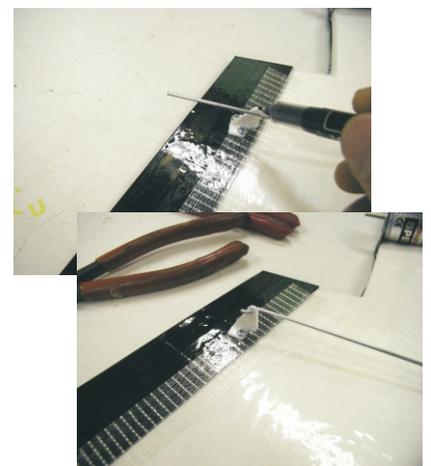
Use a ruler to set neutral position

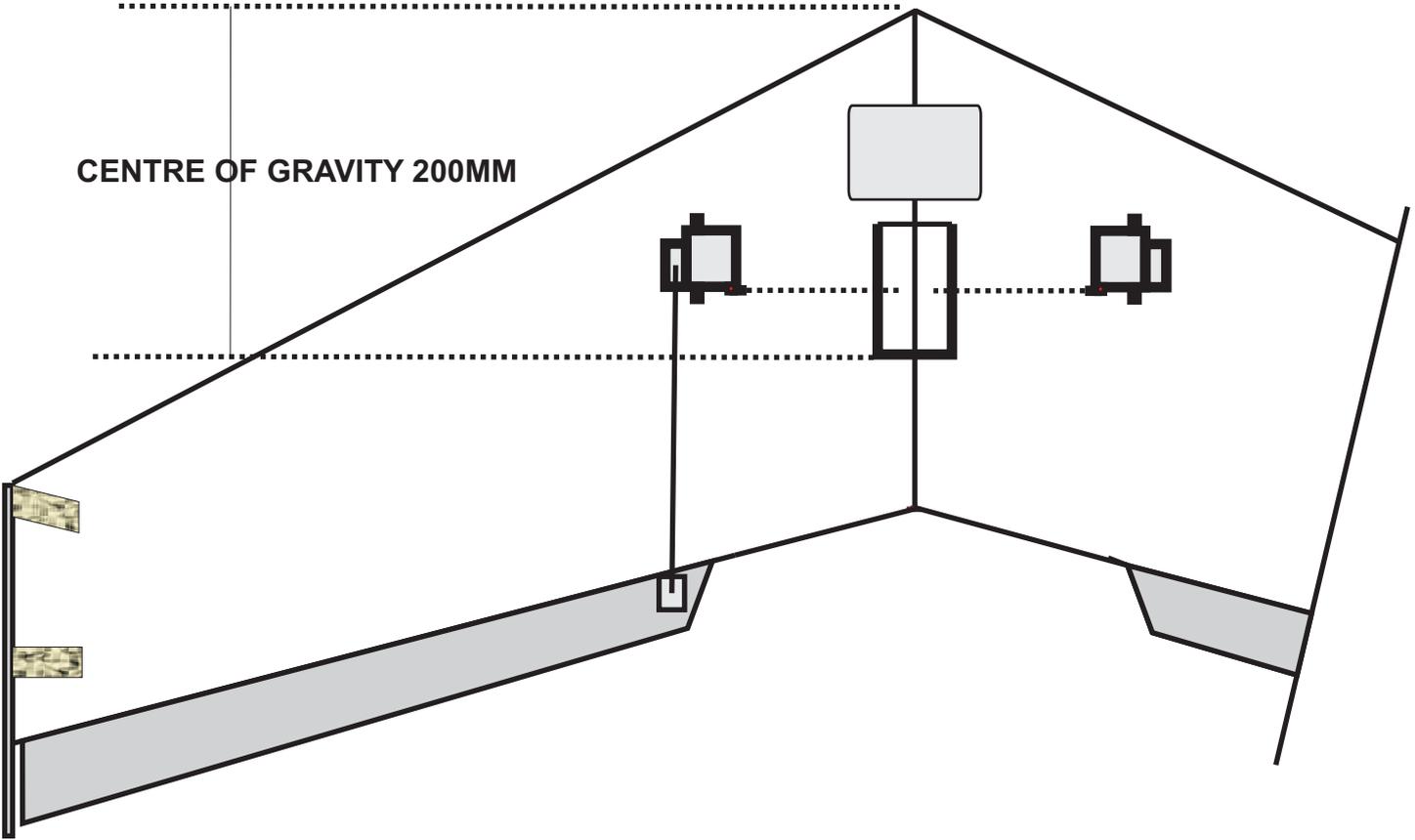


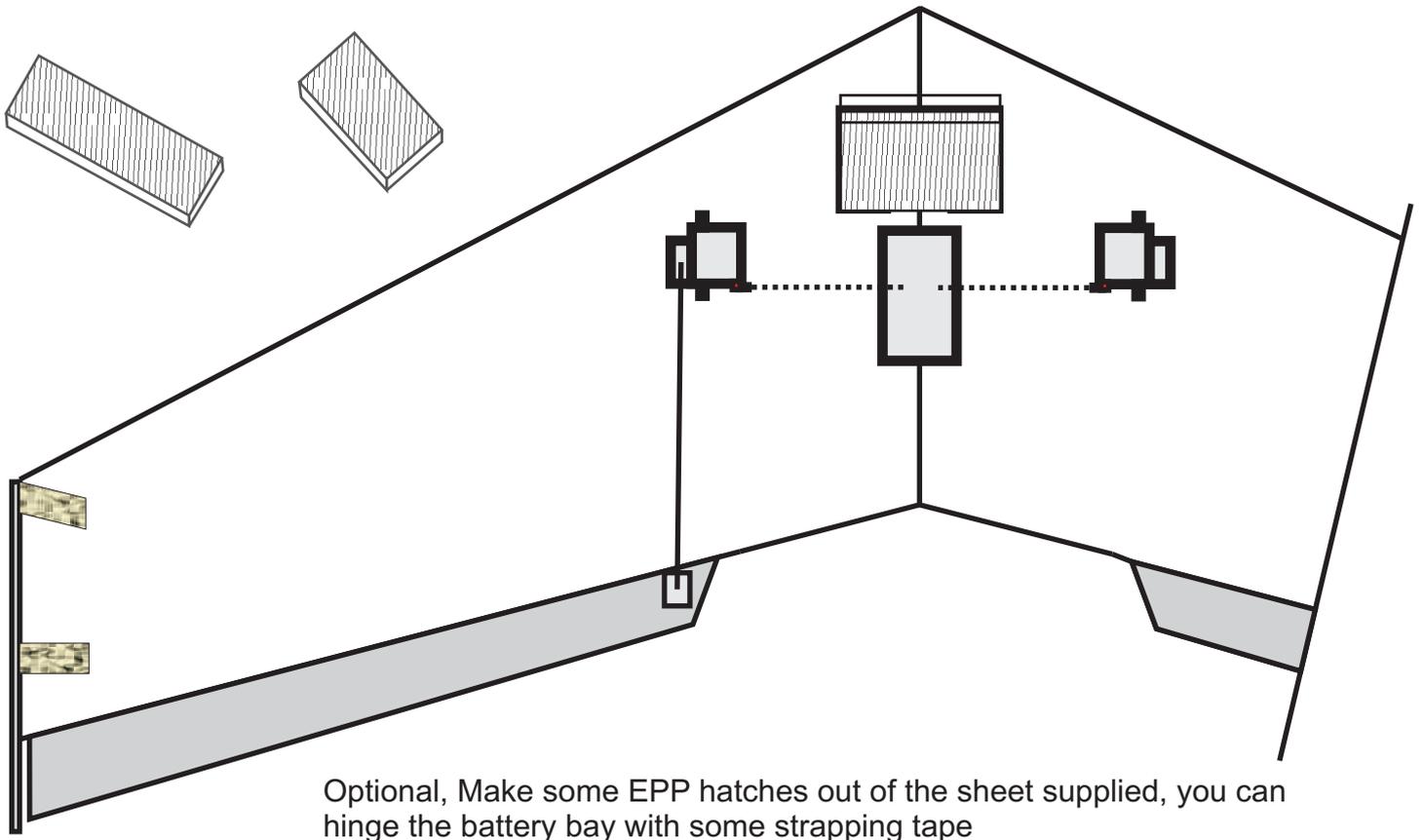
Use a ruler to mark the positions of the horn, put the screws into the horns so that the point of the screws stick through by approx 1mm. Push the horn onto the elevon in the correct place and screw down. Align the horn bottom plate up with the screws and re-tighten, do not over tighten, just enough to grip the elevon firmly.

Switch on the radio system, neutralise all trims, check the horn is as vertical as it will allow. Lay the model flat, the edge of the elevon should be raised up 8mm from the surface. This is the neutral position.

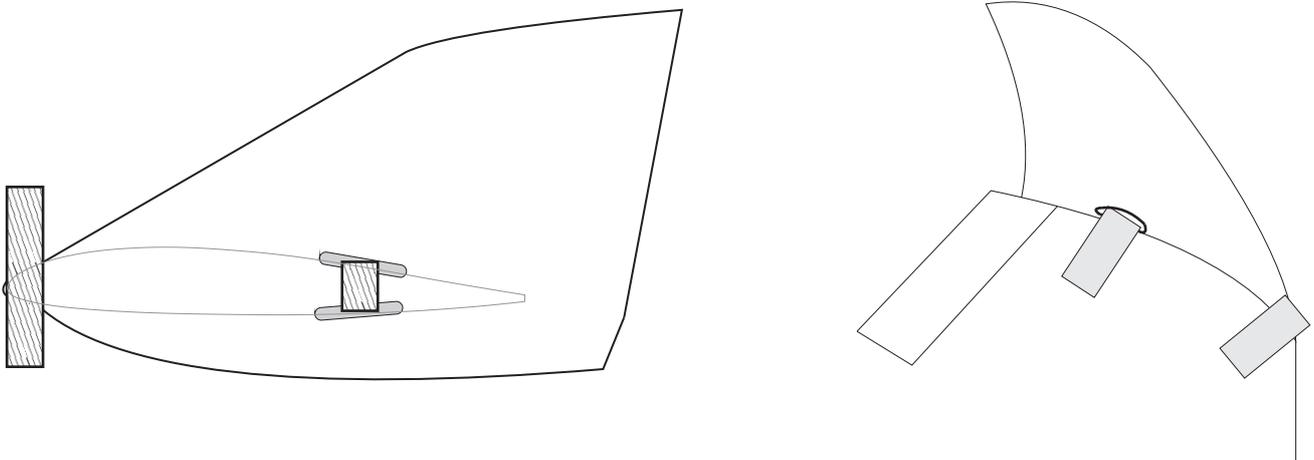
Create a z-bend with pliers. Take off clevis attach z-bend and re-attach clevis, adjust accordingly.







Optional, Make some EPP hatches out of the sheet supplied, you can hinge the battery bay with some strapping tape



Attach Wingtips with filament tape, thread 5" of filament tape through the pre-cut slots and tape to top and bottom of wing tip. Secure the front with another piece.

Applying the vinyl graphics: Last job to be done

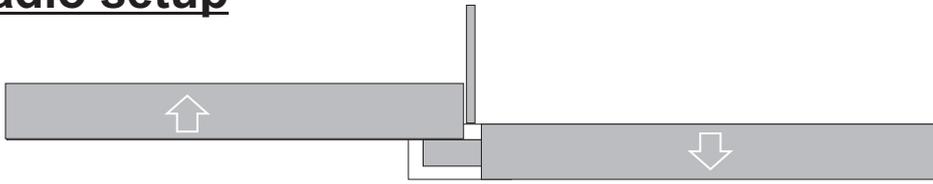
Step1: Carefully peel the white paper away from the backing paper (the sticky paper that resembles masking tape) leaving the vinyl graphic on the backing paper. If any part refuses to stick to the backing paper, press it down between your fingers until it does.

Step2: Align the backing paper with vinyl onto the model where you wish to apply it, rub it down firmly and peel back the backing paper to reveal the graphic

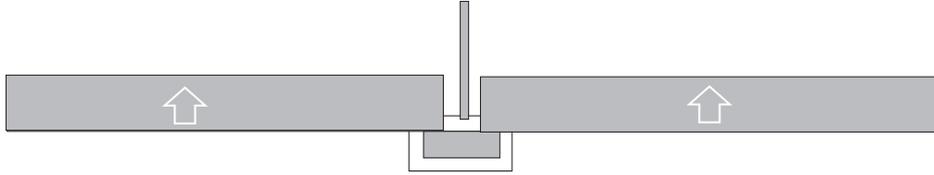


Radio setup

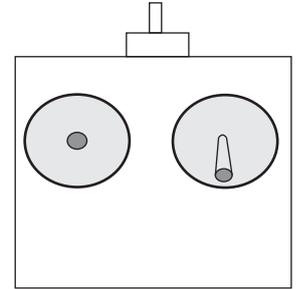
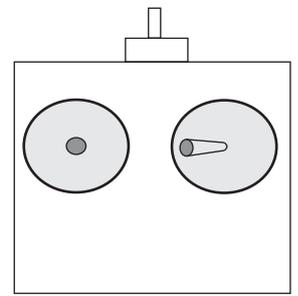
View from rear of plane



Left stick should make the right elevon go down and the right one to go up and vice versa



Back stick should make both elevon go up equally and vice versa

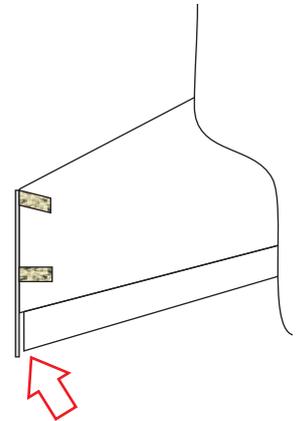


Radio notes: Select “wing type” Delta or elevon on a computer radio, or use a v-tail mixer unit.

Recommended control throws measured at trailing edge of elevon.
Up/Down +/- 20mm, Left/Right +/- 20mm, measure from the point shown by the arrow >>

Important : When setting control throws, note that all 4 settings (up,down,left,right) are the same whatever value. Ie all 75% or all 65%

We also suggest if available, to use Exponential on the elevons (Aileron & Elevator) at 30%



IMPORTANT **CENTRE OF GRAVITY**

Measure back from the nose point 200mm, make a small mark.
With all the parts assembled and the battery in, the wing should balance at this point. If the nose slightly tips forward that's OK, If however the wing tips back, place some lead into the nose, until balance is achieved, failing to do this may render the aircraft unflyable.

trouble shooting

Everyone likes model aircraft to handle differently, but we list some common problems

Q. The wing is very twitchy in roll (Aileron)

A. Reduce the travel limits down

Q. The wing is too sensitive in Pitch (up and down), check centre of gravity, or add some more Exponential.

