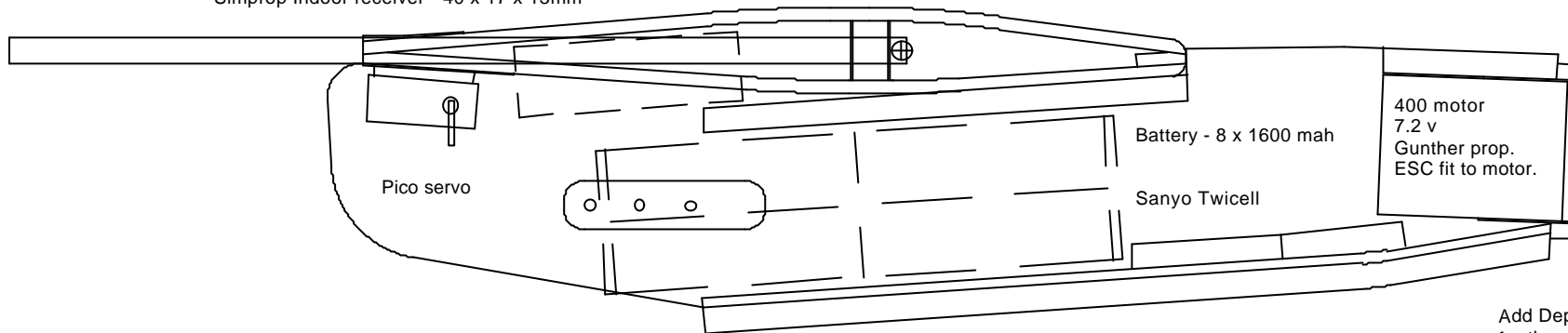


Schulze 4 channel reciver
 Simprop Indoor receiver - 40 x 17 x 13mm

C of G - 57mm behind LE, try up to 10 mm further forward for initial flights.



Motor Mount
 0.4mm ply 20mm wide wrapped around the motor twice. 2 laminations of 1.5 mm balsa - 3mm wide. The motor should be a push fit add additional PVA glue to the inside of the tube if it is too loose.

Slide into the Depron fuselage and glue in place.

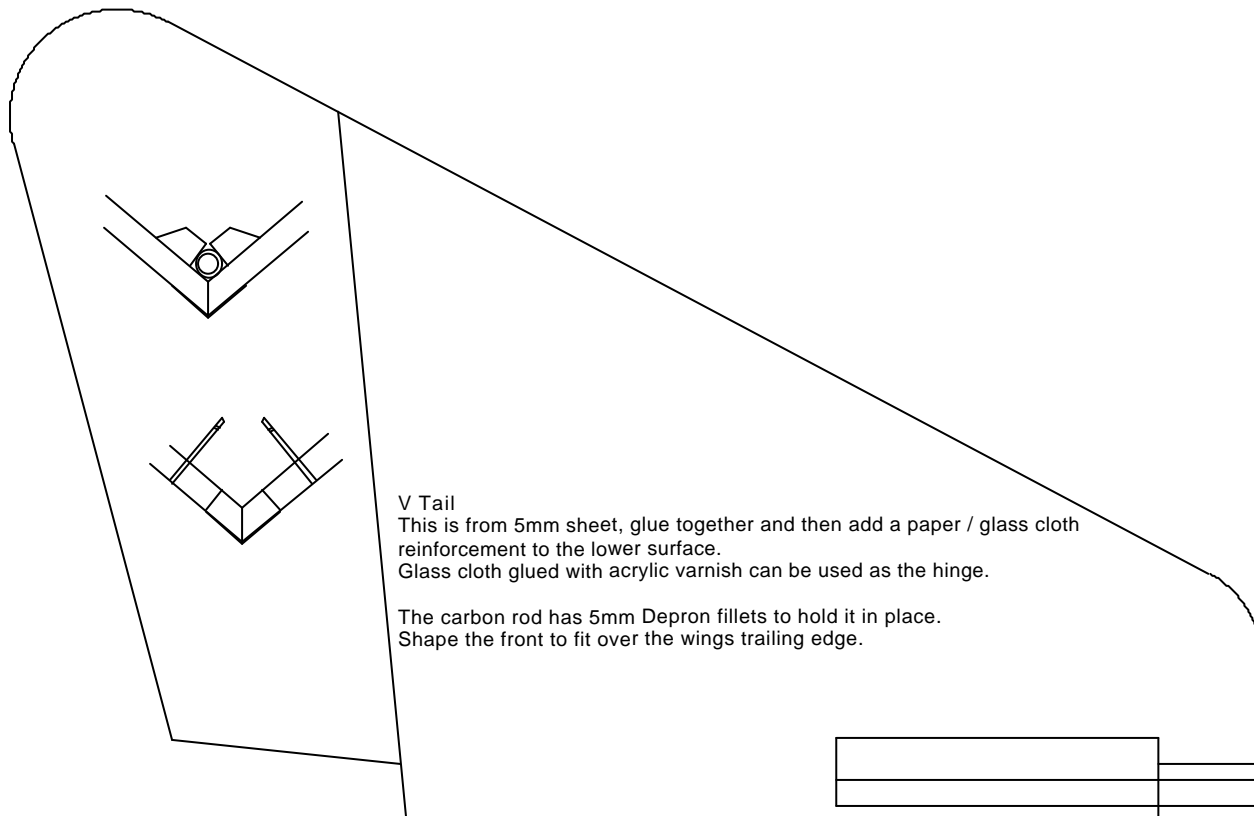
Add Depron fillets to the corners for the motor mount.

5mm spacer Depron to alter the CofG.

You may need a piece of 2mm Depron above the battery to hold it firm.

Fuselage construction

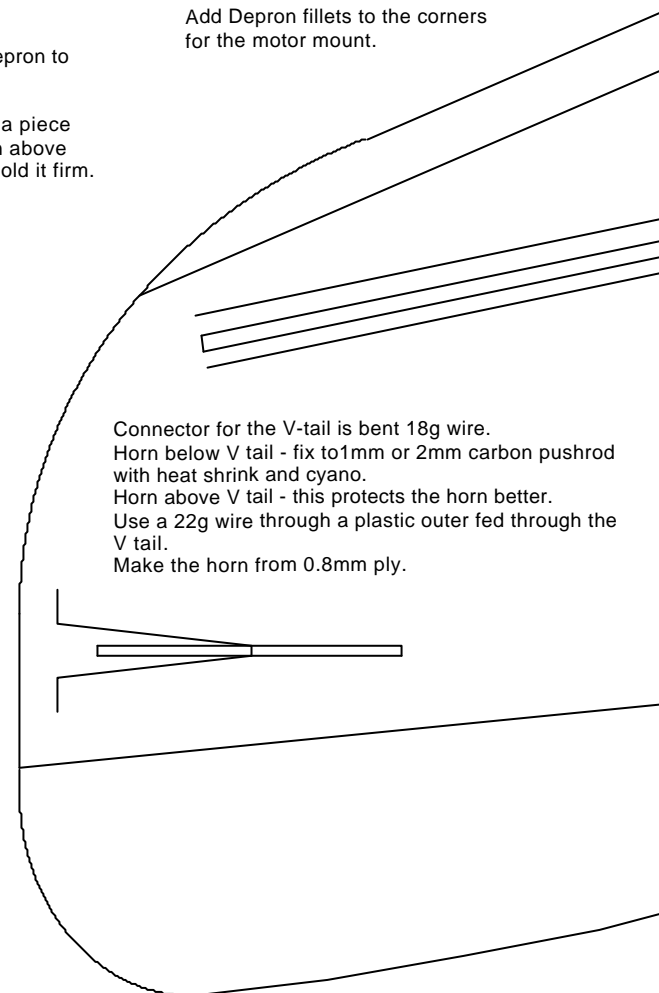
Cut the sides from 5mm Depron, the internal Depron parts from 5mm sheet and the external base. From 2mm sheet cut the lower internal base. Glue the sides to the form the battery box and then fit the external base. Trim to fit snugly to the fuselage. Add fillets to th motor area for the motor tube to fit into. Sand the corners and when complete cover with glass cloth using acrylic 2 hour wood varnish. Glue to wing. Add the 0.4mm ply plates to hold the battery in place, use a 2mm carbon rod pushed through the sides to retain the battery.



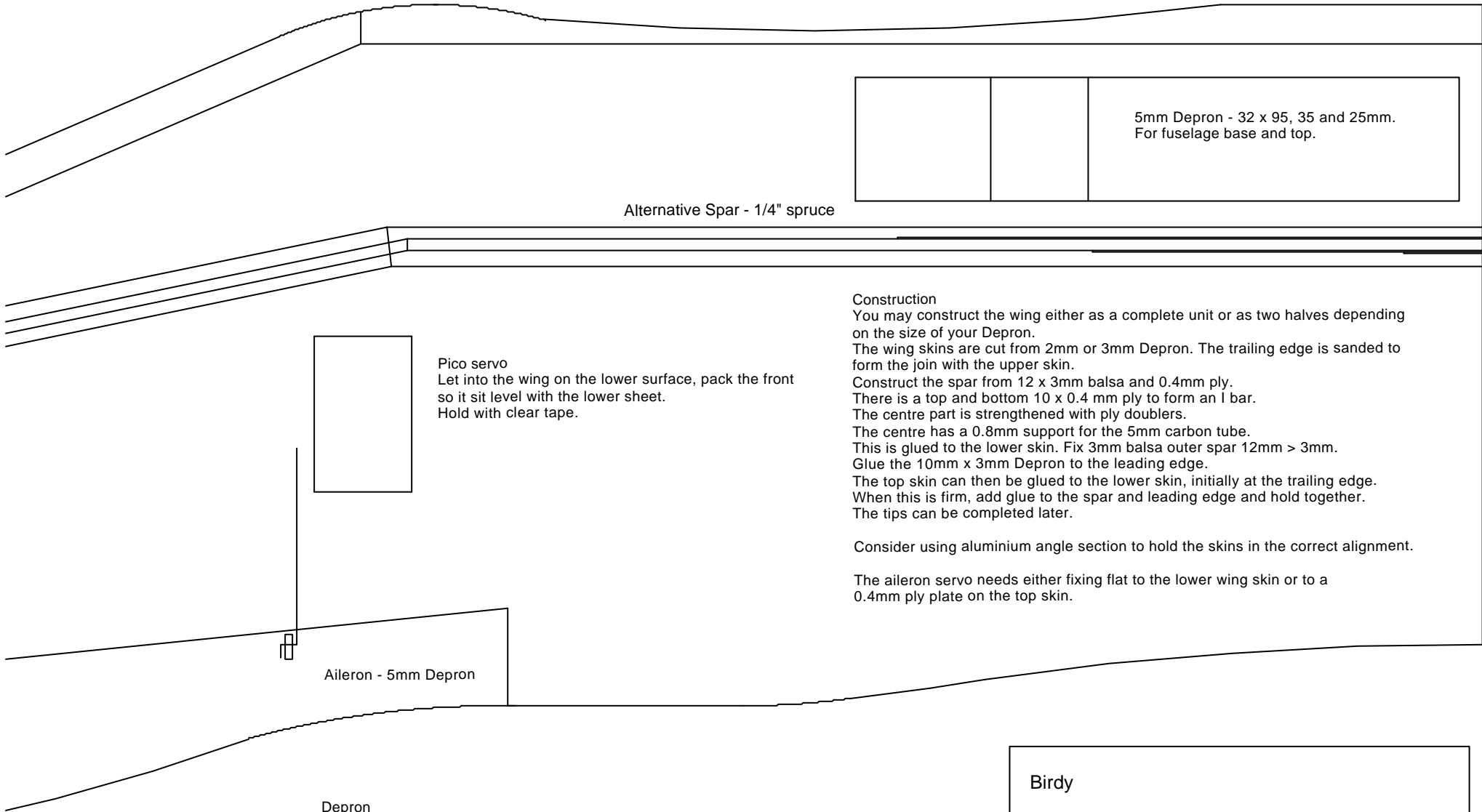
V Tail
 This is from 5mm sheet, glue together and then add a paper / glass cloth reinforcement to the lower surface. Glass cloth glued with acrylic varnish can be used as the hinge.

The carbon rod has 5mm Depron fillets to hold it in place. Shape the front to fit over the wings trailing edge.

180 x 5mm Carbon tube

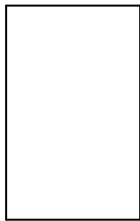


Connector for the V-tail is bent 18g wire.
 Horn below V tail - fix to 1mm or 2mm carbon pushrod with heat shrink and cyano.
 Horn above V tail - this protects the horn better.
 Use a 22g wire through a plastic outer fed through the V tail.
 Make the horn from 0.8mm ply.

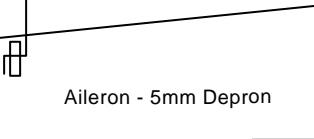


5mm Depron - 32 x 95, 35 and 25mm.
For fuselage base and top.

Alternative Spar - 1/4" spruce



Pico servo
Let into the wing on the lower surface, pack the front
so it sit level with the lower sheet.
Hold with clear tape.



Aileron - 5mm Depron

Construction
You may construct the wing either as a complete unit or as two halves depending
on the size of your Depron.
The wing skins are cut from 2mm or 3mm Depron. The trailing edge is sanded to
form the join with the upper skin.

Construct the spar from 12 x 3mm balsa and 0.4mm ply.
There is a top and bottom 10 x 0.4 mm ply to form an I bar.
The centre part is strengthened with ply doublers.
The centre has a 0.8mm support for the 5mm carbon tube.
This is glued to the lower skin. Fix 3mm balsa outer spar 12mm > 3mm.
Glue the 10mm x 3mm Depron to the leading edge.

The top skin can then be glued to the lower skin, initially at the trailing edge.
When this is firm, add glue to the spar and leading edge and hold together.
The tips can be completed later.

Consider using aluminium angle section to hold the skins in the correct alignment.

The aileron servo needs either fixing flat to the lower wing skin or to a
0.4mm ply plate on the top skin.

Depron
Use Bison Clear adhesive or PVA.
Acrylic varnish is good for fixing paper or
glass cloth to Depron for hinges or
strengthening joints.

Birdy
Depron model for 400 motor - 8 x1600mah cells
990mm, 215g + 200g battery
Mike Payne March 2002