

# DH Vampire

Photo Number----- Associated text

vam01- Sort the Fuselage sides and formers F1 to F6

vam02- Glue F2 and F3 into position

vam03- Glue the other fuselage side into position

vam04- Glue the 50mm EDF unit into F4 using UHU contact adhesive or hot glue

vam05- Glue F4 into position

vam06- Glue F5 into position

vam07- Glue F6 into position

vam08- Using 12mm balsa triangle, make saw cuts (to aid bending) as shown on the plans

vam09- Glue into position, the 12mm balsa triangle

vam10- Sand the 12mm balsa triangle flush with the fuselage sides

vam11- Make up the thrust tube and tape along the overlapping seam with 3M tape

vam12- Glue the thrust tube in the location shown to secure

vam13- Wet the fuselage sides to aid bending

vam14- Working from F5 forward, glue the fuselage top sides on to the fuselage formers.

vam15-

vam16-

vam17- Glue F7 into position

vam18- Sand the top fuselage edges, flush with the tops of the formers

vam19- Glue into position F8, F9 and F10

vam20- Using a razor plane, begin shaping the fuselage

vam21-

vam22-

vam23- Using a sanding block, sand smooth the planed edges

vam24-

vam25-

## WINGS

vam26- Overlay cling film on the wing plan to protect against residual glue. Pin the main spar SP1 over the plans and add W1

vam27- Laminate W2 & W3 together and then fit

vam28- Glue into position the remaining formers and the leading edge

vam29- Add the 3mmSQ front top spar

vam30- Add the rear top spar

vam31- Add the stub spars between W1 & W2

vam32- remove the wing from the plan

vam33- Add W1A

vam34- Add the 3mmQS front bottom spar

vam35- Add the rear bottom spar and the stub spars between W1A & W2

vam36- Remove the wing jig tabs

vam37- Add the wing spars WS1 & WS2

vam38- Make up the other wing panel to the same stage

vam39- Slide the wing with the spars on, through the fuselage and then glue the other wing into position

## **TAIL BOOMS**

vam40- sort the boom pieces noting the part numbers to make a left and right hand boom

vam41- Make up the left boom first

vam42- Make saw cuts to aid bending of the 6mm SQ balsa

vam43-

vam44-

vam45-

vam46-

vam47-

vam48-

vam49-

## **WING SHEETING**

vam50- Chamfer the wing sheeting leading edge with a sanding block to give maximum glue adhesion against leading edge strip

vam51- begin sheeting the top wing as shown

vam52-

vam53- trim the sheeting trailing edge with a straight edge against the rib ends

vam54- Add SM1 and the aileron micro extension leads

vam55-Sheet the bottom of the wing as shown

vam56- Reveal the aileron servo opening in the underside of the wing sheeting and extract the extension lead socket. Add servo mount strengthener SM2.

vam57-

vam58- Run the elevator extension lead as shown, to allow connection to the servo lead in the boom.

vam59- Begin sheeting between W1A & W2

vam60-

vam61-

vam62-

vam63-

vam64-

vam65-Begin sheeting between W1 & W2

vam66-

vam67-

vam68-

vam69-

vam70-

vam71-

vam72-

vam73- Glue laminates of WT1 into position and sand to a smooth profile

vam74-

vam75-

vam76- Make any angle adjustments in the boom slot angle so that both booms are square and parallel to each other

vam77- Glue the tail plane into position. Chamfer the elevator leading edge, with a Razor plane. Using knife, make slots in the tailplane and elevator and trial fit the hinges

vam78- Finally glue the booms into position on the wings

vam79- Make up the battery hatch by glueing F13 onto the top edge of F14 and then glueing this onto F15. Sink one 5mm dia magnet into the cut hole in F7, and recess by 1mm. Add the second magnet to the underside of F15

## **AILERONS**

Using the 20mm Trailing edge stock as ailerons, cut each aileron to shape and chamfer the LE as pictured on the plans.

Using a knife, make slots in the wing and aileron for the hinges

Test fit the Ailerons but only attach after covering the model

## **Putting together**

The VAC formed nose cone can be roughly trimmed and F12 glued in. Once dry, any overlap can be trimmed and the surface sanded flat. The nose cone can now be glued onto F6. Using a sanding block, blend the fuselage smoothly into the plastic nose cone.

The canopy can be trimmed and glued into position after internal detailing is done.

Vam80-The model can now be covered with a proprietary iron on film. Note; only overlap the film onto the nose cone by 5mm or so to avoid the plastic being distorted by the iron. The nose cone will need painting with enamel/acrylic matching paints

Vam81- Install the servo and control horn on the elevator.

Pass Z-bend side through control horn and other side of pushrod through E z connector mounted on servo horn. Use thin cyano to secure the hinges.

Vam82- Install the servos and the control horns on the ailerons.

Pass Z-bend side through control horns and other side of pushrods through E z connectors mounted on servo horn. Use thin cyano to secure the hinges.

Vam83- Add the speed controller, using the underneath vent hole to access. Add the receiver and secure this on the end of F11. Set up the control throws as detailed on the plan.

### **Flying Notes:**

The Balance point shown on the plan should not be deviated from and should be achieved with the battery pack suggested, in the positions shown.

The movements for the elevator and ailerons are shown on the plans. Use these values and adjust to suit your flying style. The model is designed for the more advanced pilot who has previous experience with flying EDF jets

The model is quite light in weight and should only be flown when wind conditions are between 0-10 Knotts. The calmer the better.

The model should be hand launched (on full power) with a good throw and the nose pointing slightly upwards.

As with all EDF jets, after launching, keep the model tracking straight and level while allowing the flying speed to build up. Once this is done, begin to ease in up elevator, to achieve a scale climb out.

Gain height and throttle back to about half power and then trim the model for level flight.

The model will have sufficient power to carryout mild scale aerobatic manoeuvres, but keep them smooth and jet like...

Landings can be achieved with either power on or off....the model has a very good glide rate and will remain stable and controllable as long as the flight speed is maintained.

We do hope you Enjoy building and flying your EDF Vampire.