

VECTORED THRUST OPTION

Squall!

VT **Vectored Thrust** ▶▶



Fitting the Squall! with the optional Vectored Thrust Unit opens up a whole new dimension in flying! Sensational slow-speed control and the potential for even more extreme 3D manoeuvres at high speed. You want the ultimate in control? You'll get it with Squall! VT - there's nothing else like it!

Fitting the optional VT Unit is quick and easy and there's no additional servos required. Here's how you convert the Squall!

FITTING VECTORED THRUST UNIT

Step VT1

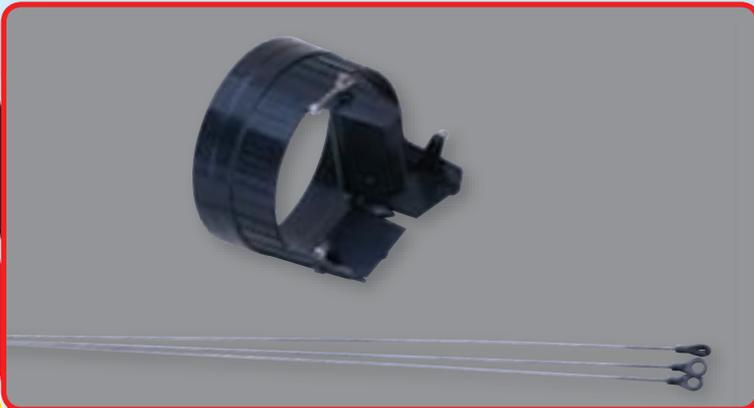
The optional Vectored Thrust Unit comprises two parts - the pre-assembled unit itself and a linkage set containing three pushrods and three ball links.

Step VT2

Mark a series of points 25mm back from the rear of the Squall! (note that the model should not have the moulded tailpipe installed).

Step VT3

Join the marks to create the line behind which you are going to cut the rear of the fuselage off. Use a sharp knife as shown



Step VT4

With the rear of the fuselage trimmed off, check the fit of the VT Unit. Use a sanding block to square up the rear of the fuselage if necessary. If necessary, sand down the foam as shown to clear the leading edge of the yaw (rudder) vector control when the unit is pushed up into place.



Step VT5

Mix up a quantity of rapid epoxy and run a bead of adhesive around the perimeter of the VT Unit.



Step VT6

Glue the VT Unit in position taking care to ensure that it is vertical and centralised. The larger yaw vector must be vertical with its ball link control at the top. Hold the VT Unit in place with strips of masking tape while the epoxy cures.



Step VT7

Snap a ball link onto the VT Unit's yaw control. Bend the pushrod as shown so that it runs parallel to the existing rudder pushrod.



Step VT8

Ensuring the rudder and yaw vector control are centred, mark the position the pushrod crosses the outer hole in the servo horn.





Step VT9

Form a z-bend at the marked point and cut off the excess pushrod wire as shown. Install the prepared z-bend in the rudder servo's outermost hole from the underside. This should be approximately 10mm out from the servo's centre.



Step VT10

Adjust the pushrod's length by screwing the ball link in or out until the yaw control is centred. Now snap the ball link in place.



Step VT11

Snap a ball link onto one of the VT Unit's elevon thrust control's mounted ball. Ensure that the elevons and the elevon thrust control is centred.



Step VT12

Now mark the position the pushrod crosses the hole in the servo horn that is one in from the outermost hole as shown.



Step VT13

Form a z-bend at the marked point and cut off the excess pushrod wire as shown.

Step VT14

Install the prepared z-bend one hole in from the elevon servo's outermost hole. This should be approximately 8.5mm out from the servo's centre. Note that it must connect on the opposite 'arm' to the elevon control.



Step VT15

Repeat the procedure for the second elevon vector thrust control. Check that both vector thrust controls rise when up elevator is applied.



Step VT16

When viewed from the rear, ensure that all control surfaces and vector controls are centred when the transmitter sticks and trims are at their neutral position.



Step VT17

Just the all-important Vectored Thrust decal to add now. Remove part of the backing paper and position on the rear of the fuselage as shown.



Step VT18

Squall! VT is now complete and ready to explore the limits of your capabilities!

