



SLIPSTREAM FAST START KIT

Before you get started

There are a few decisions to make before assembling this kit.

Lithium Polymer or Nimh/Nicad flight battery ?

Lithium polymer (Lipo) cells offer greater capacity for weight than Nimh or Nicad cells. If you decide on Lipo cells, then a pack between 2200mah 3S and 2700mah 3S (11.1v) is ideal. If you decide on Nimh/Nicad cells then you will need a 8 cell pack (9.6v) between 1300mah and 2000mah.

The template on the Slipstream shows a selection of batteries, the most important note to take is achieving the "centre of gravity" ie the balance point of the model, which is 180mm back from the nose tip. If you use a very light battery you may need to add some lead ballast in front of the battery.

Brushed or Brushless system ?

The Slipstream work very well on both 400 sized brushed and brushless motors. If you are using a 3S Lipo cell, with a brushed motor, you will need a 400 size motor rated at 7.2v ie Graupner speed 400 7.2v. You will also need a Lipo friendly speed controller like the GWS 480Li. If you choose a 9.6v Nimh/nicad the use a standard speed controller with a 6v motor.

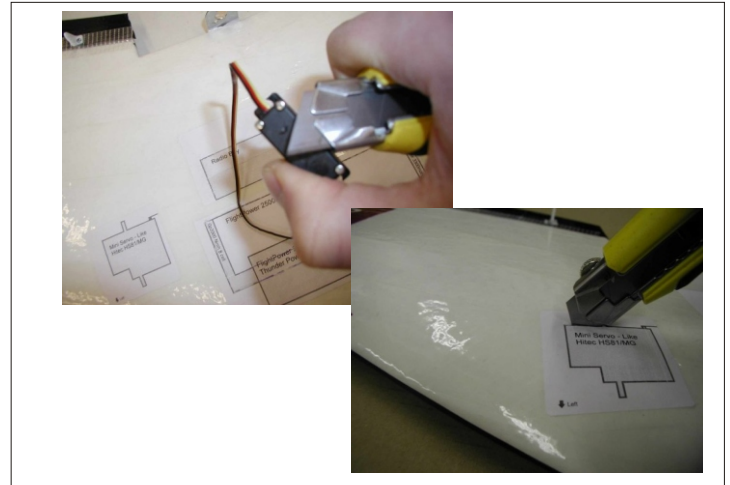
A brushless motor will require a brushless speed controller, a typical 3000kv brushless motor will need a 25Amp controller when used with a nimh/nicad pack and a 45Amp controller when used with a lipo 3S pack. Brushless motors such as the Himax 2815-300, Mega 16/15/3 or 16/15/4 work well. Exceeding 3000kv may not work well.

Radio Gear

You will need a transmitter capable of "elevon or delta" mixing, most modern transmitters have this feature. If you don't, the mixers are available from us. Servos should be "Mini" Size not micro, ie Hitec Hs81mg which have metal gears. The receiver should be mini size, micro is not necessary. You should use a full range receiver. A receiver battery is not required as the speed controller will power the receiver.



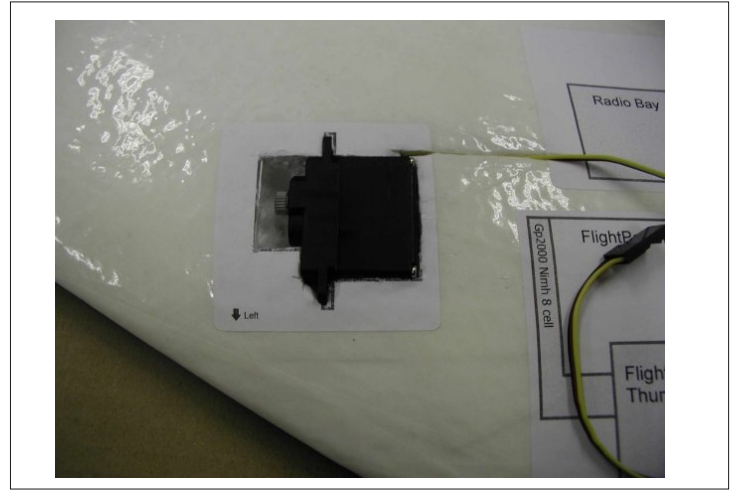
Step1:Here's all the items to build a EP version.



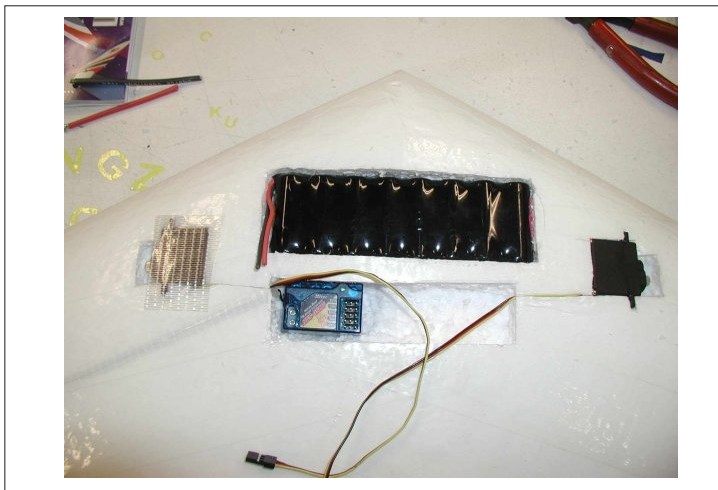
Step2:Measure the depth of you servos with you knife and cut round the template, if your servos don't match exactly, draw around them centrally on the template.



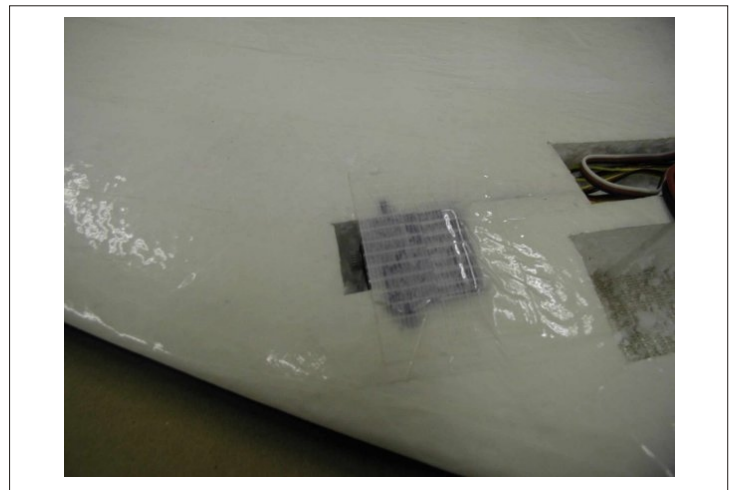
Step 3: Prise out the foam bit by bit, checking with the servo for a nice tight fit. The servo should lie flush with the top surface of the wing.



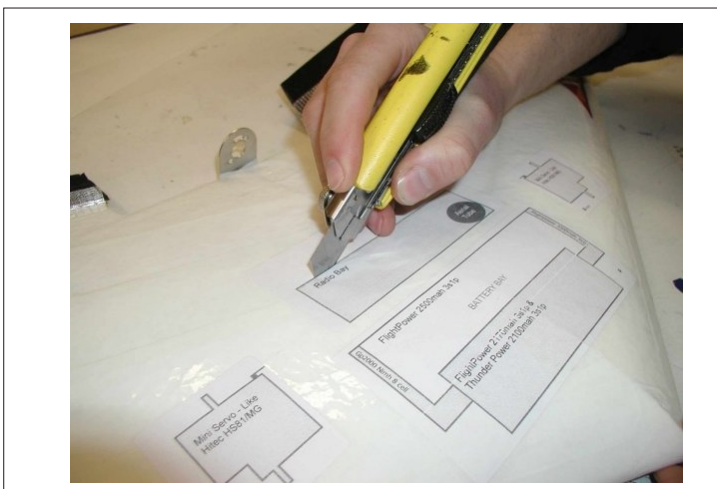
Step 4: Use some foam safe CA or hot glue to tack the servo down, only a small amount is needed.



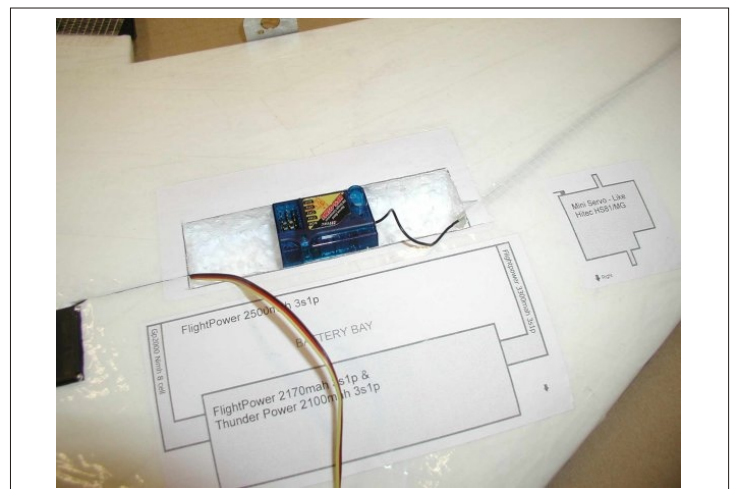
Step 5: Cut some pieces of strapping tape to hold down the servo,



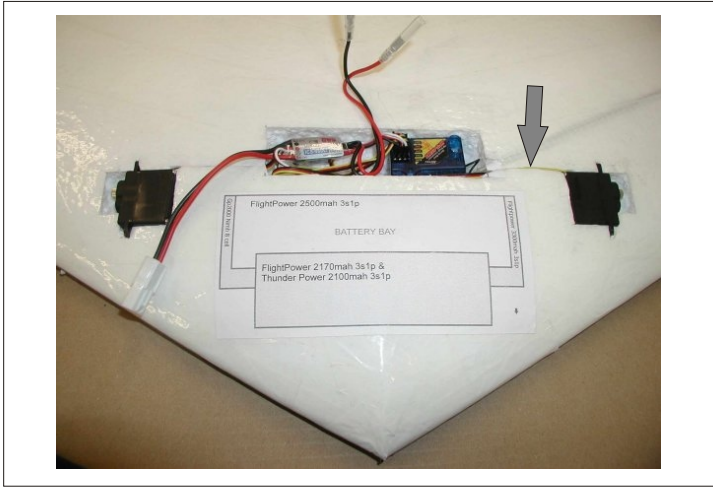
Step 6: Then cover with white vinyl supplied. Repeat for other servo.



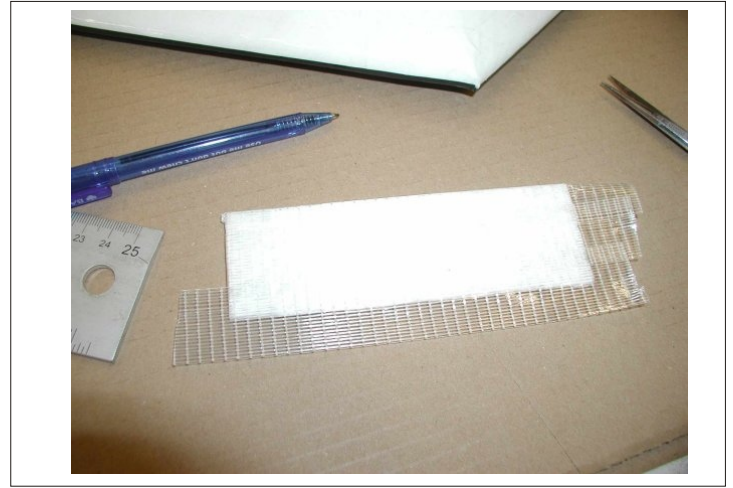
Step 7: Cut out the radio compartment, note that the aerial tube is already inserted, and exits inside this area.



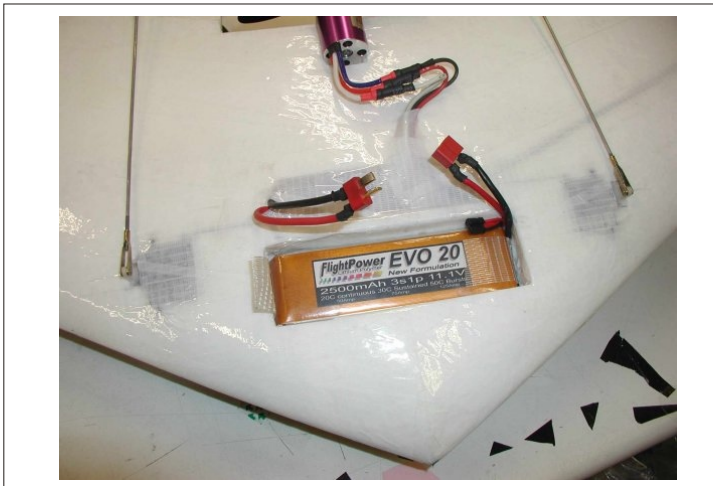
Step 8: Feed the aerial through the tube. Tip: some water of WD40 on the aerial helps it slide through better.



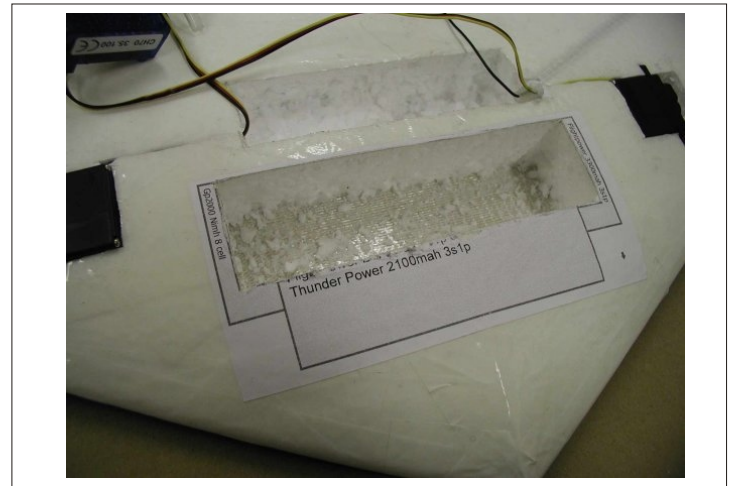
Step 9: Cut a slot from the servos to the radio compartment.



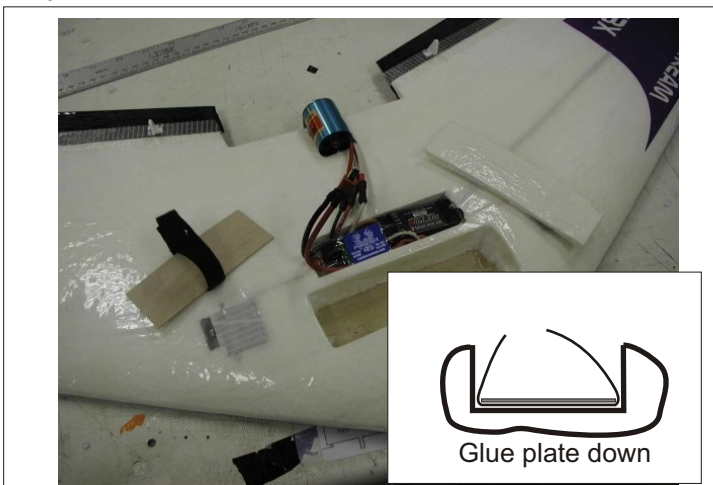
Step 10: Cut a piece of EPP sheet to the size of the radio compartment. Cover with strips of filament tape and then white tape.



Step 11: Place your flight battery, where you wish to insert it, check the centre of gravity, the plane should balance 180cm from the nose, don't position the battery any further forward than the template.



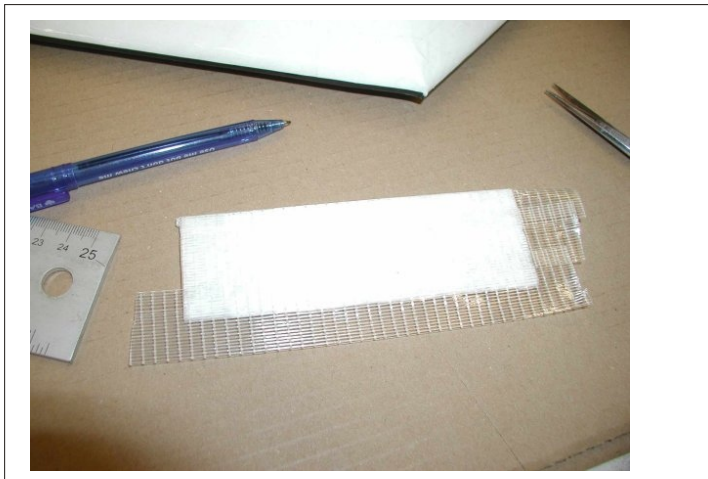
Step 12: You want to cut a slot so that the battery fits snugly, and you can get the EPP hatch on. You can cut down to the ply plate.



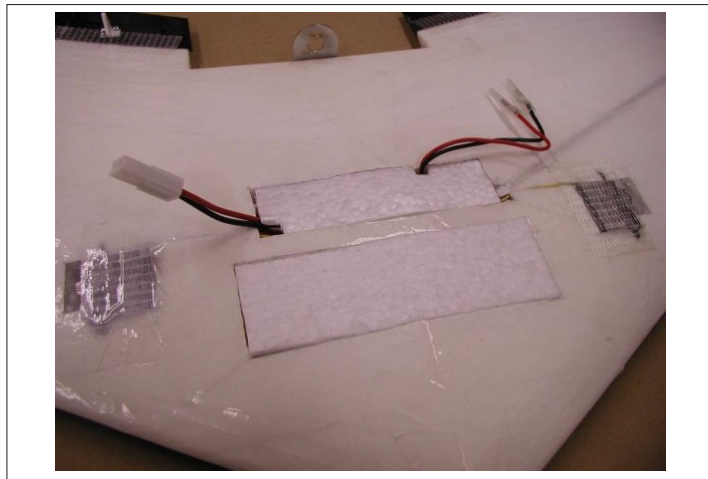
Step 13: Glue in the battery retaining plate with the velcro tie trapped beneath, check for fit before glueing. Use epoxy or hot melt glue.



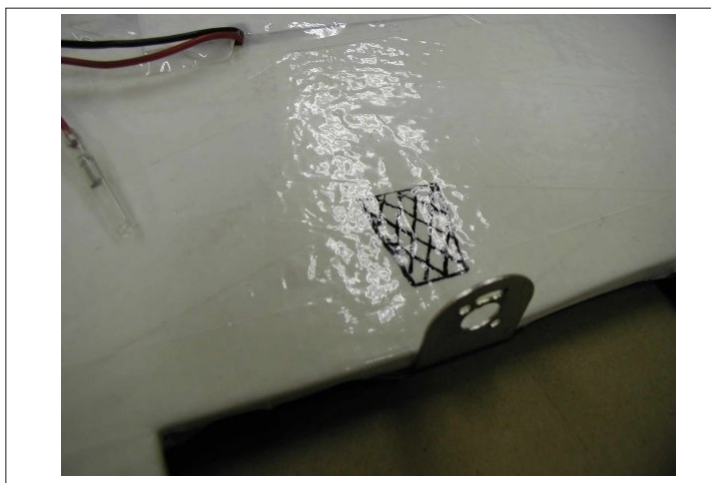
Step 14: Use the velcro to keep the hatch on.



Step 15: Cut the hatch out for a tight fit, cover in filament tape and then white tape



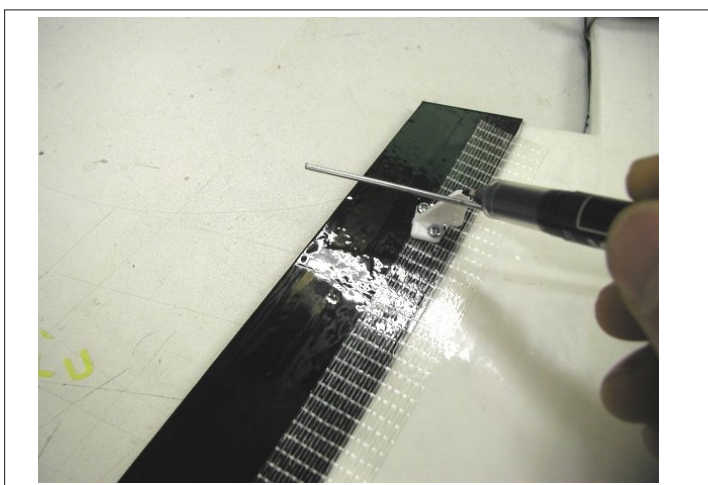
Step 16: Tape over the radio compartment hatch. Use the velcro to attach the battery hatch to the strapped in battery.



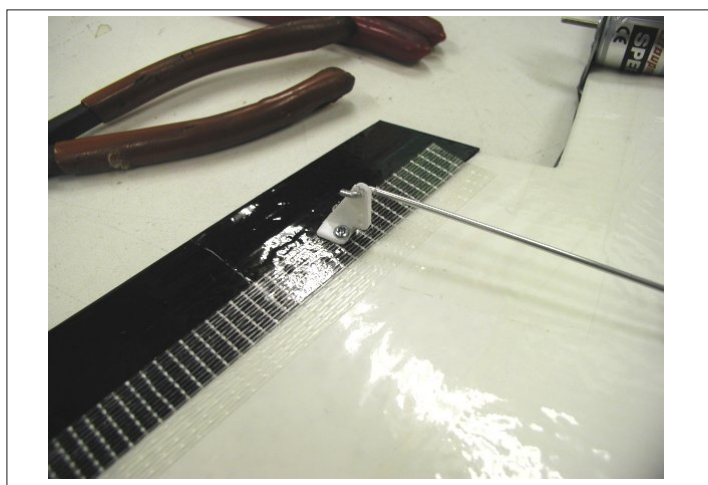
Step 17: To mount the motor, you need to create a slot for the back of the motor to sit in. The motor should fit to the mount without bending it.



Step 18: Its best to solder the motor to the speed controller before screwing to the mount.

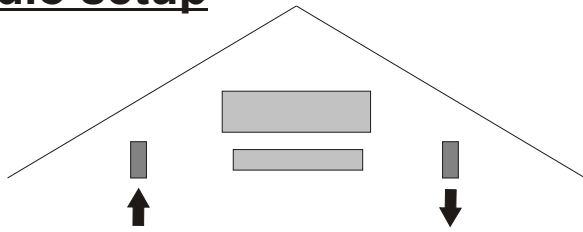


Step 19: Lay the model flat, the edge of the elevon should be raised up 8mm from the surface. This is the neutral position.

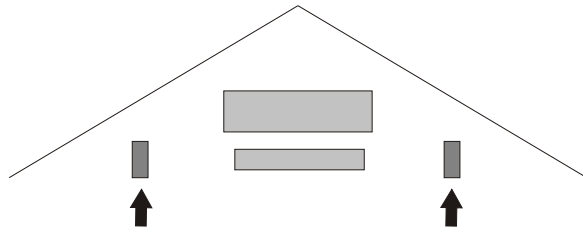
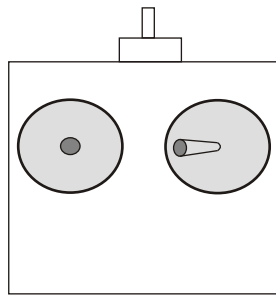


Step 20: Switch on the radio and model, clip on the clevis and mark the rod to the hole in the elevon horn. Create a z-bend with pliers. Take off clevis attach z-bend and re-attach clevis, adjust accordingly.

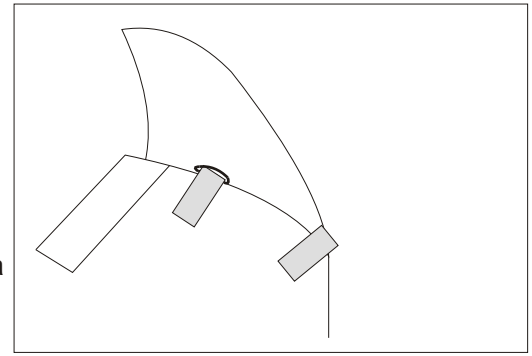
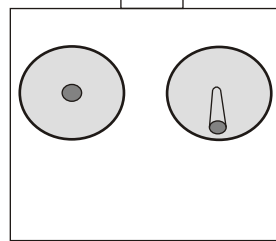
Radio setup



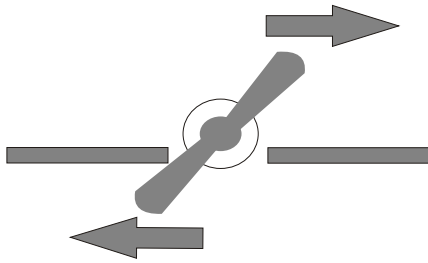
Left Aileron: right servo travels back, left travels forward & vice versa



Up Elevator: right servo travels back, left travels back & vice versa



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.



Viewing the model from the rear, the motor should run clockwise with propeller put on backwards.

Flying the Slipstream

Recommended control throws measured at trailing edge of elevon.
Up/Down +/- 12mm , Left/Right +/- 12mm

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%

The Slipstream is capable of flying in most winds from zero to galeforce. Pick a day with light winds to start. You may want to start by some test throws without power, to test trim. We recommend launching the model into wind without power and then applying power. Contact with the propeller can cause serious injury.

Shut the throttle on, or before landing, the speed controller may be damaged if the motor is on when the model is on the ground.

The Slipstream will glide for some time, so plan you landing, by reducing height some distance from the landing site and glide it in with a little throttle if required.

For launching, hold the nose with your fingers below and your thumb around the top of the nose, A good firm (not hard) launch over head into wind.

Help Line 01908 615163
Email help_sales@flyingwings.co.uk

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