

## ***Pre-Paint>Wings>Fit wing tips***

### **Materials required:**

Epoxy resin and flock

### **Fit the wing tips**

If you intend to fit strobe lights to the wingtips, drill a hole in the wing root and use a long rod to route the strobe wiring along behind the leading edge and out of the wing root. The wiring will need to be routed out through the strobe mount before fitting the wingtips.

Pre-fit the wing tip to the end of the wing and make sure that the tip sits firmly over the wing and that the leading edge of the tip is level with the leading edge of the wing.

Make adjustments as required – some material may need to be removed from inside the very front of the wing tip. The wing tip should fit up hard against the joggle step.



Hold the wing tip in position and fix in place with 6G self-tapping screws, then remove the wing tip. Remove the peel cloth from the end of the wing and sand the surfaces to be joined. Mix a batch of resin and coat the surfaces then add flock to the remainder. Apply a 2mm layer of flock to the wing and fit the wing tip into place: hold the wing tip slightly open as you place it over the end of the wing and then let the wing tip close onto the wing so that the flock is not pushed ahead of the wing tip. Fix in place with the 6G self-tapping screws.

Wipe away any excess flock with a clean mixing stick and leave overnight to cure.

Next day remove the self-tapping screws – apply heat if required to loosen the screws.

## Pre-fit the winglets

With the wing inverted, clip the winglet into place on the end of the wing, then place a set square against the leading edge of the wing and measure back 990mm from the leading edge as shown below.



This is the position of the back of the winglet. Move the winglet to this position then push the winglet firmly onto the wing and pre-fit the winglet with 2 x 6G self-tapping screws (shown circled on the pictures below): place one in front of the winglet facing in to the centre of the wing then turn the wing right way up and place one near the rear of the winglet on top. Mark around the winglet with a marker pen.



Remove the winglet and sand away all of the gel coat from inside the marked area on the wing tip. Take care not to sand anything more than just the gel coat.

## **Fit the winglets**

Remove the peel cloth from the inside of each winglet and lightly sand to remove any roughness.

Mix a batch of resin and coat the surfaces to be joined. Add flock to the mix and apply a 2-3mm layer of flock to the inside of the winglet. Clip the winglet into place and fix with the 2 self-tapping screws that were used to pre-fit the winglet, then, working from the front to the back, drill and fit self-tapping screws one at a time at approximately 50mm spacing around the top of the curve only (as shown on the previous page) and slightly wider spacing along the straight section. There is no need to screw the underside of the winglet/wing.

Wipe away any excess flock with a clean mixing stick.

Leave to cure overnight and then remove the screws. The screw holes will be filled later as part of the *Pre-Paint preparation* task.

## **Fit the strobes (optional)**

Should you elect to fit strobe lights to the wingtips you will find a shaped fibreglass strobe mounting base in with the strobe packing. Decide exactly where you want the strobe to fit: on the wingtip or on the winglet and in what position, and then shape the underside of the strobe mount so that it will fit in the desired location and fix it in position with flock and hold it with 2 self-tapping screws until the flock has cured.

You will then need to route the wires out through the strobe base *before* fitting the wingtip and winglet.

This completes the *Pre-Paint>Wings>Fit wing tips* task.