

## ***Post-Paint>Fuselage>Interior>Fit the instrument panel***

### **Objectives of this task:**

To pre- and final fit the instrument panel to the panel housing. This task will require 2 people so have a friend come over and help you for an hour or so.

### **Pre-fit the panel**

Remove the throttle knobs from the throttle input shafts.

Both people should sit in the aircraft with the panel held between them. The person in the right-hand seat should reach over the top of the panel and push all of the multi-pin connectors, instrument tubing, radio and GPS wiring from the panel back inside the panel housing.

Working together, offer the panel up to the housing. Lift the bottom of the panel over the carburettor heat and choke knobs, then carefully ease the top into place. You may need to grind small amounts out of the housing to clear items such as the mag switches, so use a pen to mark what needs trimming and remove the panel. Trim away the marked areas, vacuum away any debris from the grinding process and refit the panel until it slips neatly into place.



### **Fit the panel**

Refit the panel as before, but this time the person in the right-hand seat should reach over the top and connect the panel. Each multi-pin connector should have been clearly marked ("A", "B", "C", "D" or "E"): join each connector pair by pushing them together firmly until the safety clip clicks into place. Connect the VHF antenna cable and transponder cable.

Fit the panel into the housing and secure it in place with machine screws.

Now you will need to work from under the panel: connect the static line and pitot line with brass tube joiners and plug in the radio wiring plug.

If you are using a panel mounted GPS, lower the antenna to the floor and then route the antenna and cable out the bottom right of the panel and back up until the antenna can be velcroed to the top right of the panel housing near the right corner of the windscreen. The antenna wire can be tucked back into the small gap between the housing and the firewall and the excess cable length can be coiled up and zip tied up inside the housing.

Refit the throttle knobs and tighten them firmly.

At this point there will be a large amount of wiring and tubing emerging from the access hole in the lower front of the console and going up into the panel. In the upholstery kit there is a piece of upholstery fabric with a Velcro strip at each end: hold the wiring bundle together and wrap this fabric around it and let the Velcro strip hold it in place: this will tidy things up.

Ideally no loose wiring should hang down under the panel housing, so tuck up any wires that need tidying and zip tie them into place.

This completes the *Post-Paint>Fuselage>Interior>Fit the instrument panel* task.