

Pre-Paint>Fuselage>Interior>Fit seatbelt anchors

Objectives of this task:

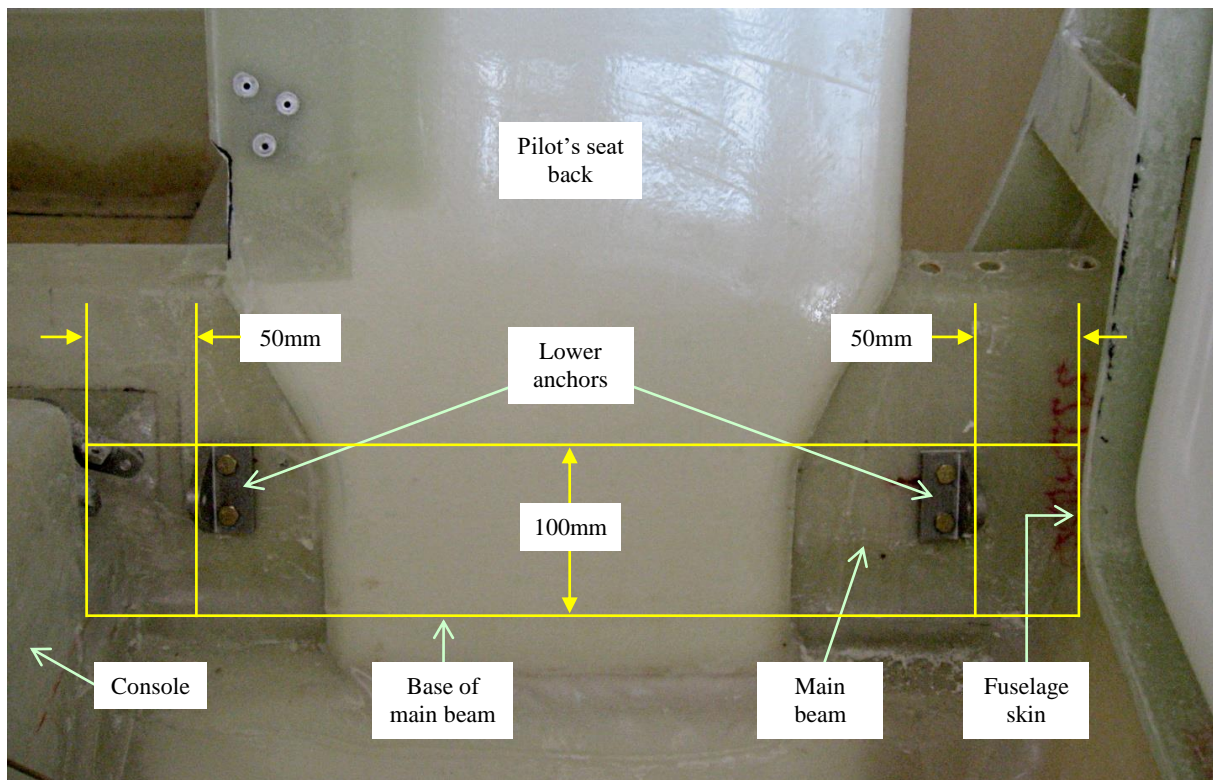
This task shows how to fit the seatbelt anchors. While this is quite a simple task it is also an extremely important one – the seat belts *must* be anchored correctly because if you ever *really* need your seat belt (and here's hoping that you never do) it has to be attached to the airframe in the designed manner for maximum safety.

Materials required:

Card # J9 'Seatbelts'

Bottom anchor brackets: front seat

Both bottom anchor brackets are attached to the main beam that runs behind the seats.



Start by marking a horizontal line 100mm up from the base of the main beam on each side of each seat, and then mark a vertical line 50mm out from each side of the centre console. Mark another vertical line 50mm in from the fuselage skin.

Hold a bottom bracket inside and below where each pair of lines meet and drill a 3/16" hole through the top hole and slip a bolt through and then check each anchor bracket for square and drill the bottom hole.

Fix each anchor bracket in place with AN3 bolts through the bracket, the beam, the rectangular backing plate, a washer and a Nyloc nut. Tighten firmly.

Top anchor brackets: front seat

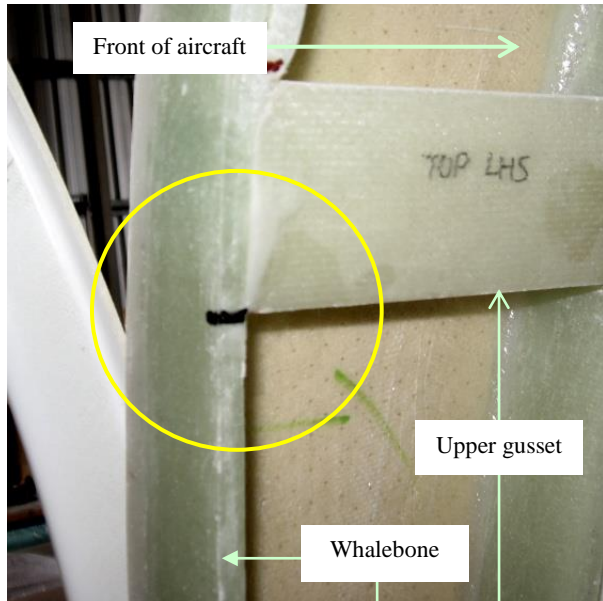
The top anchor brackets mount behind the whalebone with the centre of the bracket precisely level with the bottom of the upper door compression gusset. Mark as shown in the photo at right.

Hold the bracket in position and drill a 3/16" hole at the top of the bracket and slip a bolt through then line up the bottom of the bracket and drill the second hole.

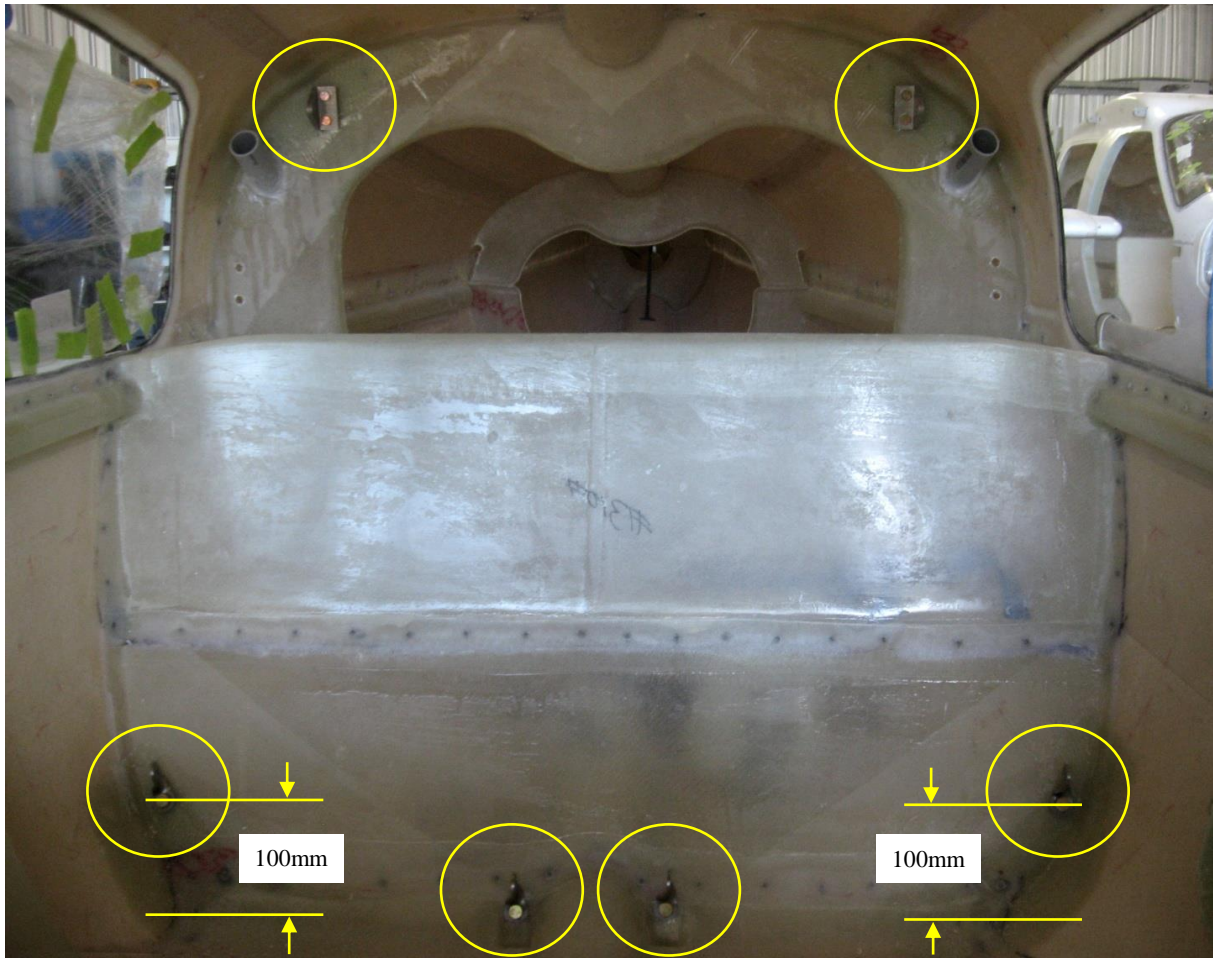
The top bracket will not be finally fitted until the aircraft has been painted and the upholstery has been installed.

Pre-fit the top bracket with an AN3 bolt through the bracket, the whalebone, the backing washer and a Nyloc nut as shown at right.

Remove and store the top brackets or later fitting.



Rear seat anchor brackets



Fit the rear seat anchor brackets (all circled in yellow above) in the locations shown above.

The outer bottom brackets are mounted 100mm above the seat bottom while the inner brackets are mounted 25mm from the longitudinal rib.

Each bottom bracket should be mounted 25mm in from the fuselage skin and fixed in place with AN3 bolts through the brackets and fuselage with penny washers and Nyloc nuts behind and tightened firmly.

The top brackets should be mounted 50mm inside the fuel line conduits, 25mm below the “stripes” in the top of the fuselage skin, and fixed in place with AN3 bolts through the brackets and fuselage then the backing plates, with flat washers and Nyloc nuts behind and tightened firmly.

This completes the *Pre-Paint>Fuselage>Interior>Fit seatbelt anchors* task.