



Canopy bubble.



Position on fuselage. Supplied pre-cut at front and rear.

NOTE: Photo was taken with the canopy tube installed.

CHECK: **190mm** front edge of canopy to firewall rivet line. (on aircraft center line = top middle of forward top skin).



CHECK: Edge of canopy rests on the fuselage and forward top skin.

canopy is pre-cut to fit the curvature of the rear fuselage



CHECK: Canopy is centered: equal space between bottom edge and fuselage on left and right side.

NOTE: Side are uneven: the bottom of the canopy slopes forwards.



NOTE: Install the rubber trim before fitting the tube frames 6C3-1 and 6C3-2

insert the rubber trim along the front.



Insert rubber trim around rear edge of bubble.
For now, wait to trim the ends of the rubber trim. Do not glue the rubber trim in place at this time.



Clamp the tube frame to the plywood, line up center lines.

Mark a center line square to the bottom edge of the plywood sheet.



Wrap a piece of aluminum sheet around the outside of the tube.



Clamp or hold the sheet against the tube.



Trace around the aluminum sheet.



Plywood template.



Line around the tube frame on the plywood.



Use a jig saw to cut on the line. The critical part is the outside blank, if you have too cut small on the inside of the line, then go back and cut on the line.



Try to have a smooth cut with minimum cuts on the outside of the line.



Trial fit. Line up center lines.



Compare the left and right side, one side may look better.



Look for the side that has minimum separate between the bubble and the plywood template.



1st trial fit

Rear view. Also try rotating the template left and right to find the best fit. Lining up center line is not critical at this point. If you rotate the template and find a better fit on one side, then remark the center line and identify the side with the best fit.



Clamp along the straight edge of the template to assure symmetrical alignment when the template is flipped.

2nd trial fit: Lay the template on a new sheet of plywood, mark center line. Position clamps along the straight side of the template. Trace along the best fit half, turn the template over, line up against the clamps, line up center lines and trace the best fit template on the other half.



Difference between the first template and the 3rd template.

If a third attempt is required, the line can be moved up on the first template.



Mark the bottom of the canopy side frame on the template, left and right.

Note: if the plywood is too flexible, screw a 1x2 furring strip along the top edge.

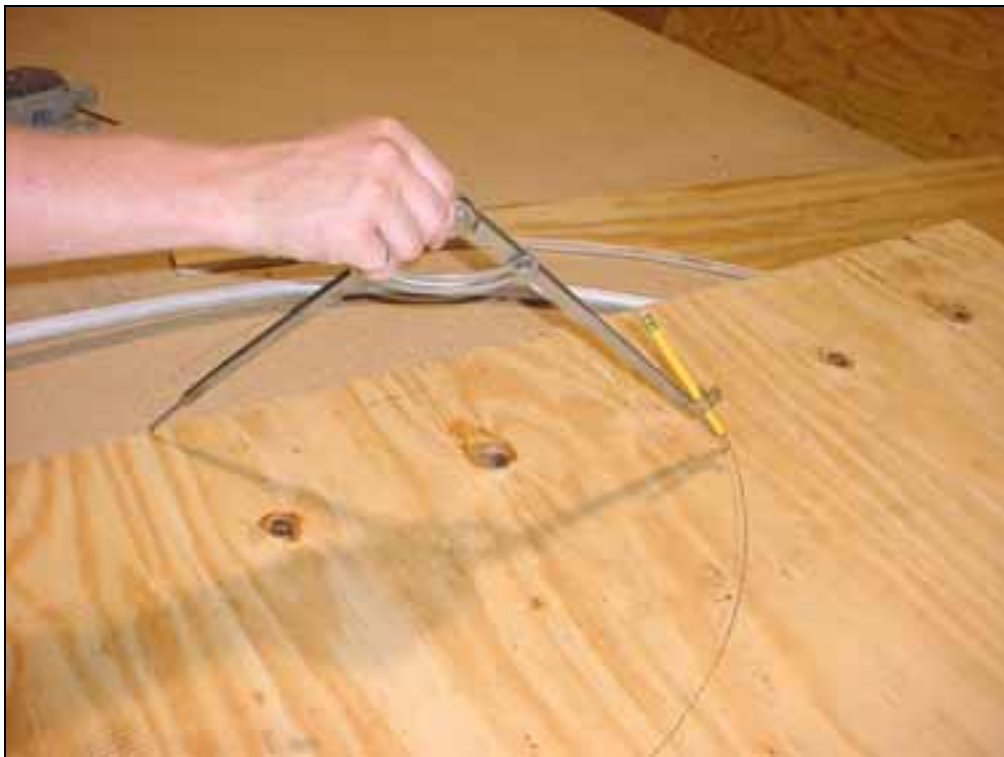
Plywood template fits the curvature of the bubble canopy.



Cut the side of the plywood template (even with the bottom of the canopy frame).

Wait to cut the tube to length until after it makes a perfect fit inside the template.

Now that the plywood template fits the canopy, check that the tube frame fits the template.



R=350mm



cut a semi circle (approximately) $R=350\text{mm}$



Made from middle cutout.



Plywood bending form.



Raise the plywood bending form off the workbench – position small pieces of plywood underneath the bending form and screw to the workbench. The center of the tube should line up with the center of the bending form. Position the tube against the form block, push a 1x2 furring strip against the tube and screw to the workbench.



Open the tube by pushing out.

Determine where the tube need to be bent, position the tube between the furring strip and the bending form and push the tube around the bending form.



Photo of left side.

With a hand grinder, cut a slot on the inboard side of the 7/8" tube welded at the rear of the canopy side frame 6C2-3. Length = from the top to approximately 12mm from the bottom.



Photo of right side.
Insert the tube frame in the 7/8" tube. Use a rubber mallet to drive the steel tube over the canopy tube.

With a hand grinder, cut a slot on the inboard side of the 6/8" tube welded at the rear of the canopy side frame 6C2-3. Length = from the top to approximately 12mm from the bottom.