

FIN JIG

ASSEMBLY INSTRUCTIONS:

The accuracy of the fin guide will depend upon how well you cut it out and assemble it. Take your time and read the instructions.

Dotted lines indicate score lines. Solid lines indicate cut lines. Except do not cut the lines in the centering circles. Use a sharp razor blade and a metal straight edge for all cutting and scoring.

Cut out pattern along outer edges.

Cut "T" slots in pattern where shown.

Slightly cut through the top layer of cardboard on all dotted lines. Do not cut through the cardboard.

With printed side up, carefully fold sides of pattern up until a box is formed. Bend sides further than their required position so that when they are released they will return to their proper position.

Fold the flaps the same way.

Glue corners together with flaps on outside. Allow to dry.

At "T" slot, slightly fold pattern in at dotted lines. This fold will be varied later to fit thickness of fins.

Glue an expended engine casing of size desired, or a coupler, in the center of the pattern. Use the rings drawn on the pattern to center it properly. Different fin guides can be made if desired for each size of body tube by using couplers or CMR slip fit body tube for body holders. Allow to dry.

For best results, and a more accurate installation, the fin guide should be glued to a flat piece of wood. 3/4" plywood is recommended.

INSTRUCTIONS FOR USE:

Slip body tube over body holder and mark position of fins at bottom of body tube. For a good fit it may be necessary to add tape to the body holder. An engine mount will be needed for any body tubes larger than the engine casing.

Remove the body tube and place in the "V" notch of a drawer, door frame or CMR Body Tube Cutter. Align the mark with the edge of the notch and draw lines parallel to the body at each mark. Make the line a little longer than the fin. Using a fin as a pattern mark location of fin.

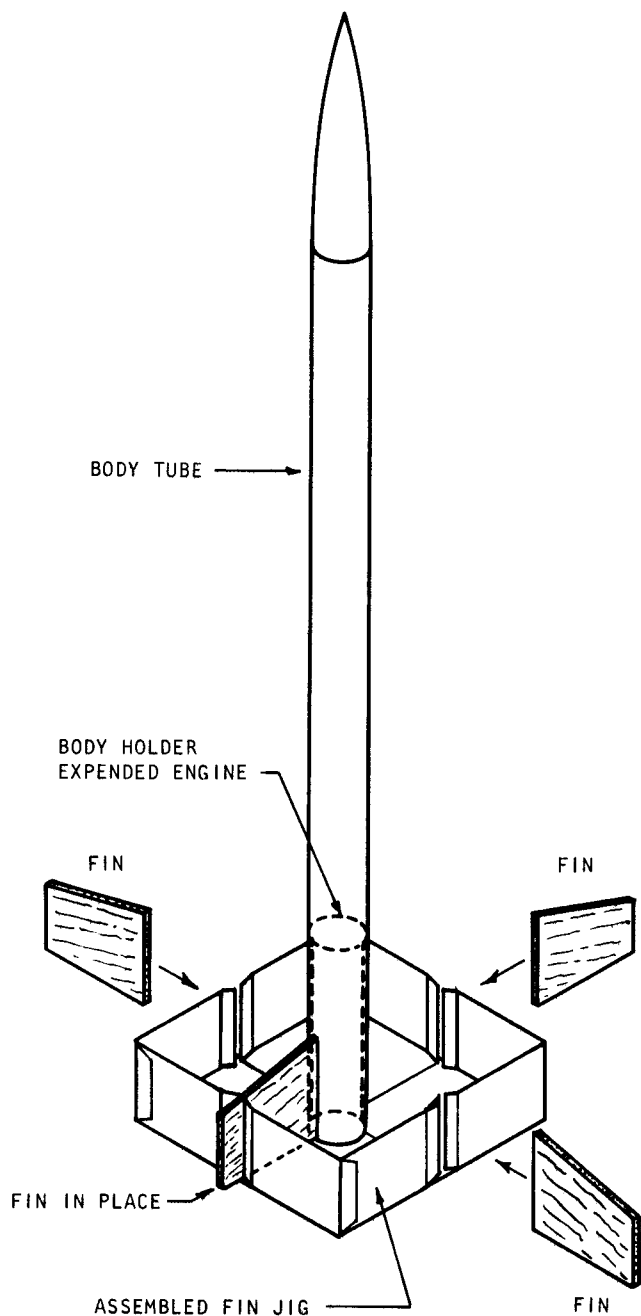
Replace body tube on body holder and align fin lines on body tube with fin lines on fin guide.

Check fin fit by inserting in slot. Adjust slot size as required by folding flaps.

Smear glue on the root edge of a fin. Make sure the glue does not run as it will glue the body tube to the fin guide. A little wax or wax pencil around bottom of body tube holder will help keep the glue from sticking to the fin guide.

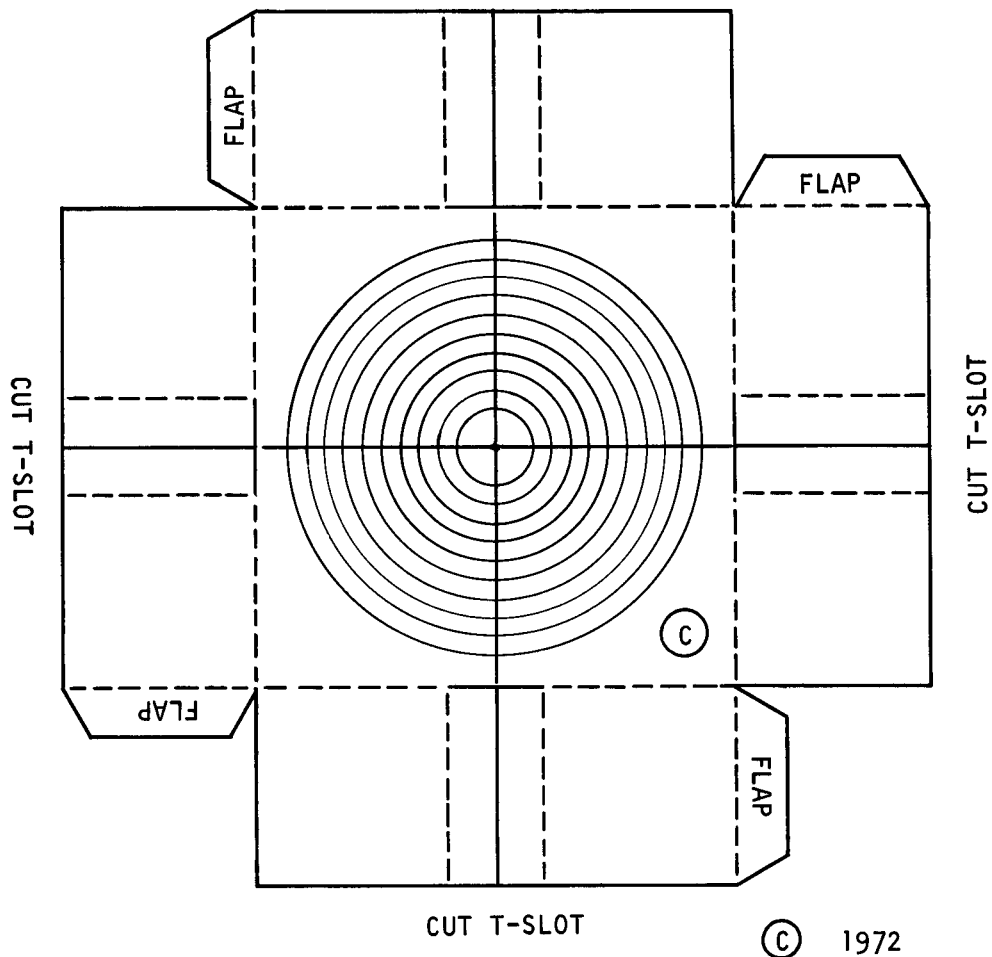
Place the fin into the slot in the fin guide and push it against the line of the body tube. Align the fins with the pencil lines.

After all fins are glued on, check alignment from the side and by sighting down the body tube. Check to see that all fins are the same distance from the end of the body tube. Adjust as necessary.



Allow fins to dry thoroughly before removing body tube from fin jig.

Note: Illustrations only show the assembled 4 fin guide. Instructions and use are the same for the 3 fin guide. The only difference is that the shape of the 3 fin guide is triangular instead of square.



Dotted lines indicate where to cut partially through (score) the cardboard. Solid lines are where to cut through the cardboard. Do Not Cut Solid Lines Within The Center Circles.