

INSTRUCTIONS FOR ASSEMBLING AND MOUNTING  
BAGGAGE PODS  
FOR THE  
VARIEZE, LONG-EZ, & COZY

ASSEMBLING THE PODS

1. The two tail cones marked 1 and 2 go together.
2. Sand the finish dull in the recessed seam area on the outside of each half of the pods and the tail cones. Also, sand 2" in from the edge on the inside of each half of the pods and the tail cones, and on the pylons 2" from the front and rear edges, both inside and outside. You must cut bid on a 45 for outside pylon T-edge.
3. Cut the edges of the tail cones to the trim line for length after they're together.
4. When putting the halves of the pods and tail cones together, duct tape the outside and bondo to hold the halves together while doing the layup on the inside. Hot glue also works very well.
5. Assemble the tail cones first, and with the pods duct taped together, trail fit the tail cones to the pods.
6. Lay up 2-ply BID cloth inside and 3 plies outside of each seam of the pods, tail cones and pylons (use peel ply).
7. "C" clamp two pieces of thin plywood to hold the pylons in shape when they are filled with foam.
8. Duct tape a piece of poster board over the opening of the pylon inside of the pod.
9. Mix approximately 1/2 cup (?) each of A and B portions of 40X foam and pour into the pylons. Hold the poster board on top while the foam cures.
10. After the foam has hardened, remove the poster board from inside and top of the pylons, sand the foam flush with the inside of the pods, sand the glass dull around the foam, micro the foam and lay up 2 plies BID lapping over 1" onto the pod's glass. Peel ply the lay-up.
11. Fit the tail cones to the pods lining up the top and bottom seams. Be sure the tail cone is mounted properly to maintain the airfoil. Drill three 3/16" holes in the 2, 6 and 10 o'clock positions for mounting camloc fasteners. Use a #4 camloc in the 2 and the 10 o'clock positions, and a #7 camloc in the 6 o'clock position.

14. After mounting the first pod, run a piece of 1/4" clear plastic tubing from its nose to the nose of the second pod. Fill the tube with water and adjust the second pod until the water is level. Repeat the process on the tail cones. The wings must be level when mounting second pod.
15. With the mounting strip in place, drill six 3/16" holes through each mounting strip and wing: two on top of the wing 1-3/4" back from the leading edge, 2" on either side of the center line; two on the bottom of the wing in front of the spar-cap and two 1/2" in front of the trailing edge (where fiber nut plates are to be mounted in the aileron cavity - EZ only) 4-5" behind the pylon on LONG-EZ and COZY.
16. Remove the pod from the wing, using paint stir sticks so that the paint job is not ruined. Trim the 7 ply mounting strip to a 6" width and feather the edges smooth.
17. Fabricate 8 aluminum inserts for EZ and 12 for LONG-EZ and COZY for 3/16" screws. DO NOT drill the hole all the way through the insert. (Shown below)
18. Drill the two holes on the top of the wing and the four holes two in front and two behind the spar-cap up to 3/8. Use a spot facer 1/2 or 5/8 with a 3/8 pilot and go 1-1/8 deep into the wing. Take a wire shown below and clean out foam inside each hole. Put a piece of duct tape over the hole and cut out the tape over the hole. Put a piece of tape on a larger washer and mount to insert. Put slow flox into the hole (be careful not to put too much flox into the hole or it will push out the insert - air will do this also). Weight or tape the inserts in place and let cure. When the flox has cured, remove the tape and washer.
19. The pod can now be mounted permanently. If the pods are removed, the screws can be inserted into the inserts and the heads will show or the screws can be left out and the 3/16" holes will show.

