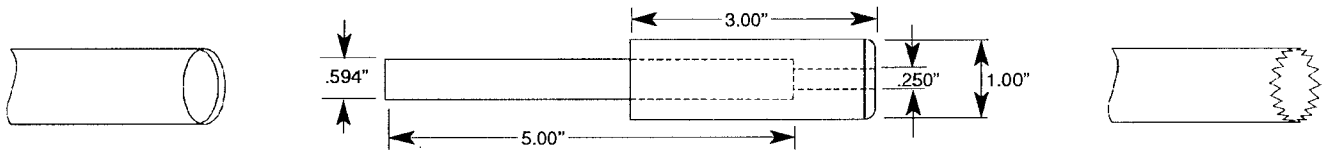


Installation Instructions for Con-Do-It

1. To install Con-Do-It in your model, you will first need a 19/32" (.594) hole punch. Two different types of hole punches can be constructed very easily from a length of K & S brass tubing. The first type is used for punching holes in balsa ribs or fuselage former. Cut a 5 inch length of tubing. Then using an X-acto knife, sharpen the end of the tubing as shown in figure #1. This punch can be used as is, or an optional handle can be constructed from a 3" length of 1 inch diameter dowel rod. See figure #2 for details of the handle. The 1/4 inch hole in the end of the handle allows you to use a piece of music wire to pop the balsa plugs out of the punch after it has been cut out.

2. If you are installing Con-Do-It in a foam wing or fuselage, you will need a slightly different punch. This punch is also constructed from the same brass tubing, however the end of the punch is sharpened with saw teeth as shown in figure #3. These teeth can be cut with a Dremel cut-off wheel or triangle file. The length of the tube depends on how far into the wing you need to go. Measure the distance you need to drill and add about 4 inches so as there is something left to hold on to.



3. It is best to punch the holes in the wing ribs or former before you start building your wing or fuselage. From the plans, determine which ribs need to be punched. If your building a constant cord wing, simply stack the ribs together and twist punch through the entire stack. This way all the holes will line up, and your Con-Do-It will be straight. If you have a tapered wing, stack up the ribs using the wing jig holes or spar slots as an alignment guide. Start with the largest ribs and stack the smaller ones on top, centering each one on the previous rib. When the stack is completed, a couple of pins poked down through the stack will keep it lined up during the hole punching to fit the Con-Do-It installation. If your wing has any plywood ribs they must be marked and drilled with a scroll saw or drill bit.

4. To accurately drill a hole down through the center of a foam wing core, try this technique. Put the wing in the core block and weight it down so as the core will not move around. Align the end of the punch on the center of the root of the foam core. Measure the distance from the top of the table to the bottom of the punch. Next get a book or stack of books that are the same height. Lay the stack of books under the tube punch and twist the tube punch into the core. This will ensure that the punch travels straight into the wing core. A foam plug will break off inside of the tube punch about every 1 or 2 inches of travel, so remember to stop, back out the punch and remove the foam slug from inside of the punch. Then resume the punch drilling process. See figure #4 for details.

5. After the holes have been punched out, build your wing or fuselage as shown on the plans. After the framing is completed, slide the Con-Do-It into the holes and glue it in place. The Con-Do-It may be glued in place using CA, Epoxy, R/C 56, PFM or Zap-A-Dap-A-Goo adhesive. For better adhesion, mark the rib or former locations on the Con-Do-It and remove it. Rough up the tube surface with fine sandpaper at the marked locations, reinstall it and glue it in place. It should also be noted that when the Con-Do-It is glued into an assembly it adds strength to the structure.

6. When the installation is completed and the Con-Do-It is glued in place you will be able easily slide your servo wires, air lines, wiring harness and fuel lines etc through the tubing making many installation easier and neater.

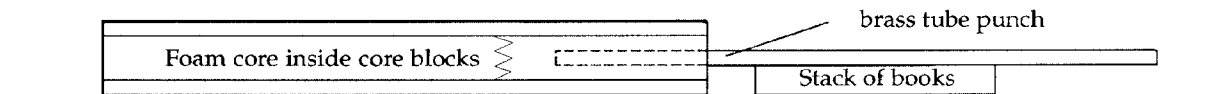


Figure 4.

Special Note . . .

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