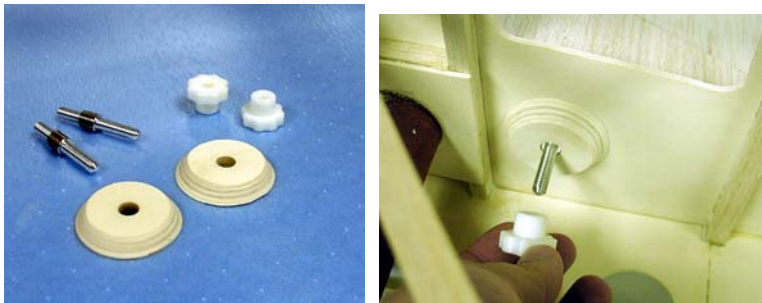


## Wing Fasteners

I like to make field assembly as quick and easy as possible. To fasten the wings to the fuselage I used Desert Aircraft's (DA) machined aluminum alignment pins that have a convenient nylon thumbscrew knob. Normally the DA pins would be used dual purpose for both the alignment dowel and the wing fastener, but I used them in this airplane for fastening only.

Using the plans as a reference, drill and tap a  $\frac{1}{4}$ -20 thread into the light-plywood block that you buried into the root of the wing. Screw the long end of the aluminum pin into the wing root. You can epoxy them in place after the airplane is covered if you want to. We made a light plywood doughnut to fit over the pin inside the fuselage. It is just thick enough to fit past the pin's shoulder so the nylon nut doesn't bottom out on the pin. Glue the doughnut in place over the pin, being careful not to get any glue on the pin.



For the stabilizers, you have already made a tab for a 4-40 cap screw to hold the stab to the fuse. Add a doubler to the inside of the tab and shape it as desired. Drill the tab for a 4-40 cap screw and slip the stabilizer back on to the fuselage to mark the hole's location.

Add a small light-plywood doubler inside the fuselage and drill the fuselage sides through the doubler. Cinch a blind nut to the inside of the doubler and CyA it in place.

For the stabilizer fastener I like to use an aluminum countersunk washer and a rubber washer. The aluminum spreads out the load and the rubber helps to keep tension on the 4-40 cap screw so it won't vibrate loose. These parts are available through your hobby store and are generally used on RC cars and helicopters.

