



Tap-N-Drill Guides



These tools keep the drill or tap perpendicular to the surface of the piece being tapped or drilled. The three-piece set handles common drills from 1/16" to 1/4" and all taps and tap drills from 0-80 through 1/4". The Guides are also available individually. We'll first show how to get wing bolts in straight.



Step 1

Once the wing has been aligned, tape the wing and fuselage together. Then dent the hole locations with a scribe or an awl.



Step 2

Drill 1/16" holes only through the plywood reinforcement. It will start the tap drill at the exact location.



Step 3

While holding the Tap-N-Drill guide firmly against the plywood reinforcement, Drill the tap drill hole completely through the wing and wing mounting blocks in the fuselage.



Step 4

Tap the hole. Screw the wing to the fuselage with a wing bolt and repeat these four steps for the other wing bolt hole.

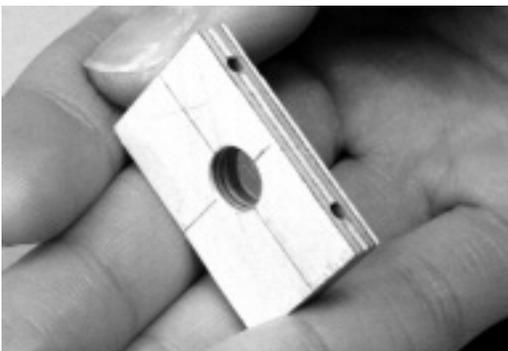


Step 5

Now unbolt the wing and drill through the the wing with the tap's clearance drill.

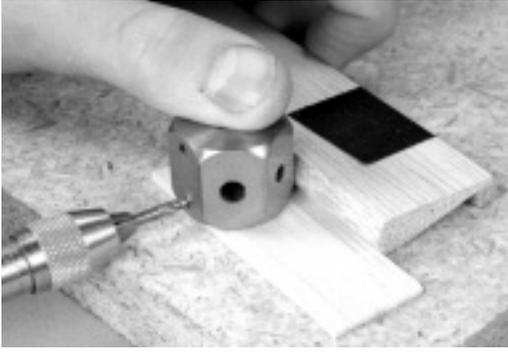


Here you see the completed installation.



The plywood bracket is screwed perpendicular to the firewall. A fuel filler attaches to it. Getting the pilot holes for the mounting screws drilled straight into the thin plywood presents no problem. Put the piece in a vise flush with the vice jaws, use the Tap-N-Drill guide as shown in the lower photo. That one happens to be TND003.





Here we are drilling a hole for a wire aileron horn in a preshaped aileron. Some helpful things you should notice. The wood scrap under the Guide spaces it so the Guide's hole is the same height above the building board as the aileron's hinge line. The black area is photo masking tape that keeps the aileron center plane parallel to the bench.



The Tap-N-Drill guide helps keeps tap perpendicular to the muffler mount surface while cleaning a gritty screw hole.



After using the Drill Bushing Kit to get the tap drill hole drilled straight in the motor mount, the Tap-N-Drill guide keeps the tap concentric with the hole.