

## A jig for using the router on the lathe By John Lucas

I needed a jig for my lathe to let me use the router and flex shaft tools for controlled carving on the lathe. This jig needed to be adjustable and adaptable to many different needs from fluting to carving on the lathe. I designed it so the whole unit could slide in and out to accept turnings as big as 20”.



I added a swinging feature to the riser portion so that I can cut tapered cuts or cut flutes in tapered spindles.



The top plate is also adjustable in and out and reverses 180 degrees so that I can screw odd shaped fences to it. This will allow me to cut flutes or carve other details on any shape. I simply have to build a fence of that shape and attach it to the top. I attached angle iron to one side as a permanent straight fence. The other side will be used when I need an odd shaped fence.

I used a trim router, and built a jig to hold it.



To adjust the router depth I decide how deep I want it to go. Then I lay a drill bit of that width up against the metal fence. I adjust the top plate so the router bit just touches the wood. Then go to the other end of the spindle and do the same. You may have to do this a few times for perfect alignment. Now simply pull the drill bit space out and make your cut. The router will try to lift on you if you don't take light cuts and push down on the router.