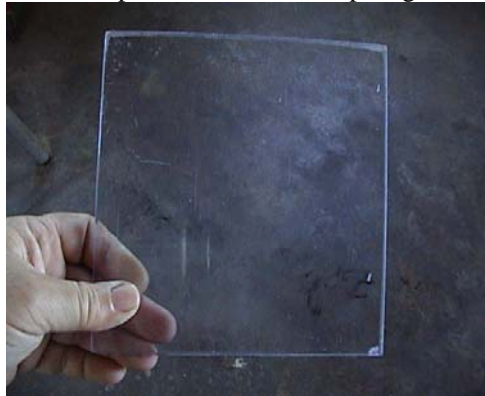# Centering Mortis Jig
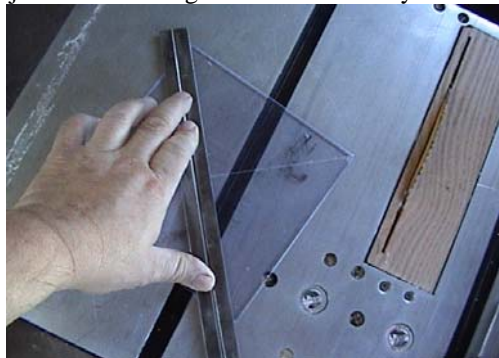
Want to make perfectly centered mortises
here is a simple jig that will do just that every time.
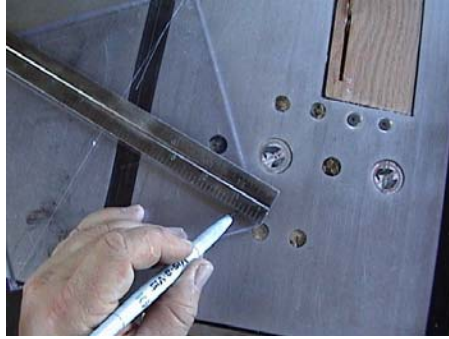From ¾ to 4" or wider it doesn't matter this jig centers them all.

I used a piece of ¼ inch thick plexiglass.

I cut it square on the table saw.
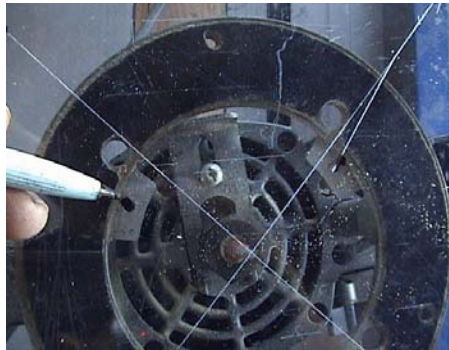It just has to be larger than the base of your router.

I scribed a line diagonally to create an X
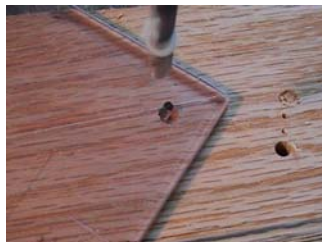this will show me the center of the plexi.

I marked a dot ¾ of an inch from the corner being careful to stay on the line.
I also marked a dot on the other end of the line in the same way.
This is where I will drill for the bearing screw.

With a ¼ inch straight bit in the router I lay the plate
With the center of the X directly over the center of the bit.

With a felt tip pen I mark a dot directly over the
mounting holes on the base. Keeping the X
centered over the bit.

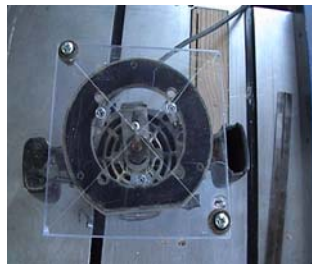At the drill press I drill the corner holes with a ¼ inch brad point bit.

Then with a smaller bit I drill for the mounting screws.
Use your screws to determine bit size.
A good tight fit is a must.

Counter sink the mounting holes so
the screws Are below the surface.

Attach the bearings with a screw and nut.
The bearings I used were from the wheels of
My daughters old roller blades.
I just cut the wheels with the band saw
And popped them out.

Fasten the plate to the base with the screws.
And plug the router in.

Slowly plunge the bit through the plate.
WATCH THE FINGERS!!!
With a file I cleaned up all the edges and holes.
Time for a test run.

I clamped a board to my table saw. with
a bearing snug against each side of the board
I plunged in and cut a perfect mortise.
The clear plate makes it easy to see start & stop marks.

I milled a loose tenon for a test fit.
Perfect!!!

Now go make some saw dust!