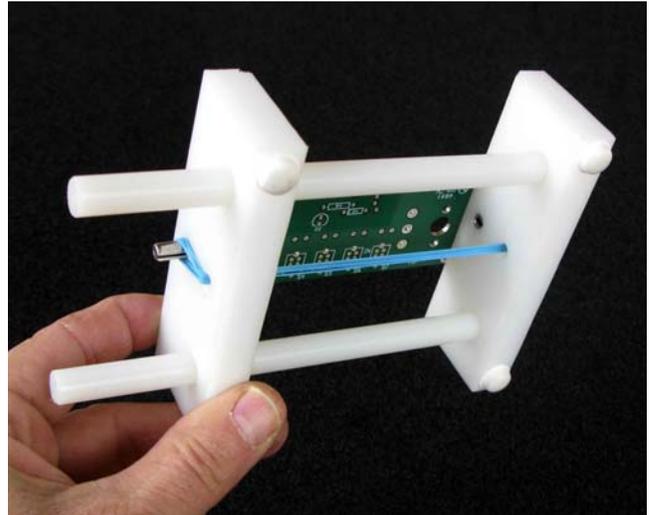
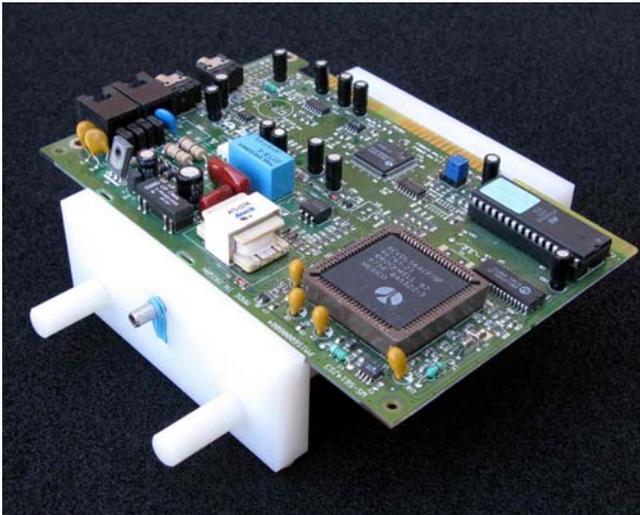
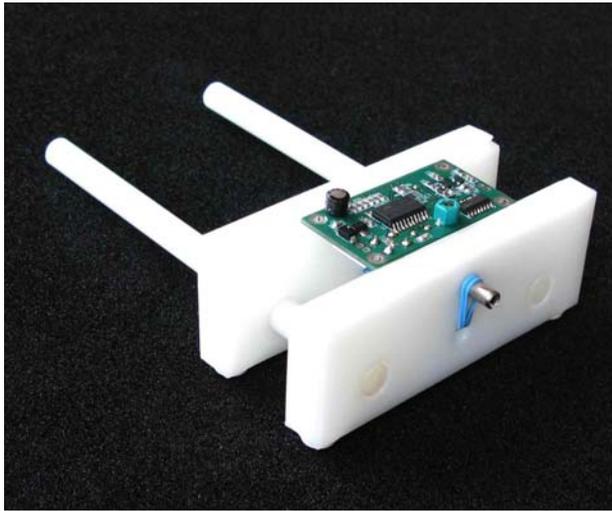


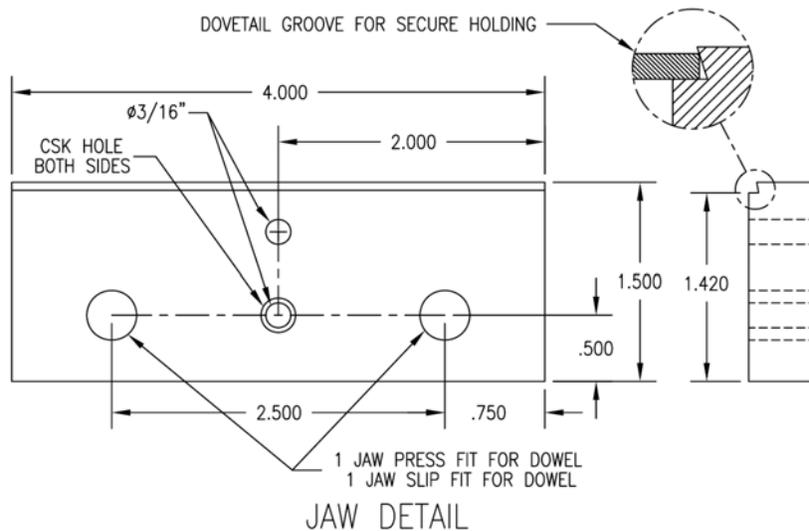
WA4MNT PCB holder you can make, Kits out of stock



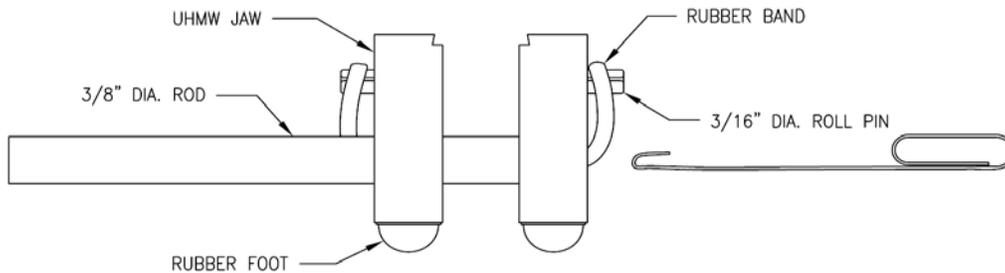
Perfect for secure holding of PCB's during soldering, prototyping, and testing. The dovetail groove prevents any slipping of the board from the fixture, with minimal clamping pressure. The jaw opening will easily accommodate and securely hold boards from 1/2" to 5". The jaws are fabricated from UHMW, (ultra-high-molecular-weight polyethylene), rods are Nylon. Easily replaceable elastic band for many years of service.

Materials needed:

- 2 – 1.50" x 4.0" x 1/2" thk. UHMW for the plastic jaws
- 2 – 3/16" dia. X 7/8" L., roll pins
- 2 – 3/8" dia. x 6.0" Nylon or wood dowels
- 4 – 7/16" dia. self-adhesive rubber feet
- 1 – rubber band
- 1 – paper clip



Cut two jaws the same, except the rod holes are press-fit in one jaw and slip-fit in the other. Cut a small dovetailed ledge on the top inside edge of both jaws to retain the PCB. For the rod, use 3/8" diameter. I used 3/8" dia. Nylon rod, from McMaster Carr. The holes for the roll pin and the thru hole for the rubber band are 3/16" dia. Countersink the 3/16" dia. hole for the rubber band, so there is not a sharp edge to abrade the rubber band.



Use a straightened paper clip to pull thru a rubber band to loop around each roll pin. It is easy to find a rubber band that will work for the full extension, of the jaws, and not fall off when the jaws are completely collapsed. Stick on some self-adhesive rubber feet, and you are complete.

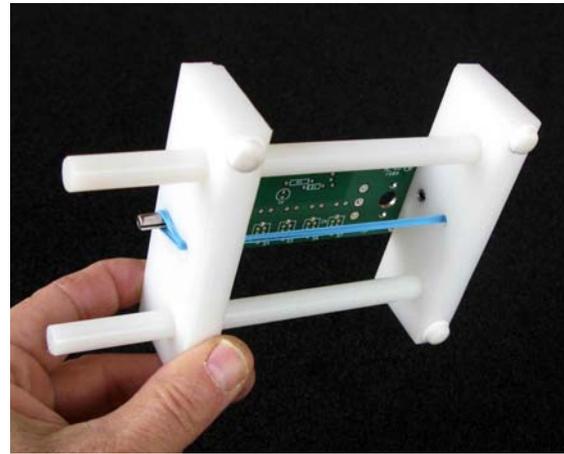
The jaw opening will easily accommodate and securely hold boards from 1/4" to 5". Lengthening the rods will accompany larger boards.

Your product is one of those "wish I'd thought of that" masterpieces. Great job. 73 de Lee

Ken's PC board holder is really neat. I just got mine and it really helps. It is fast to turn the board around and light, no screws or handles to crank (I have two other board holders that work but it takes longer to change - board position)... Dave

I've already had three pcbs through mine and it works great.... Dale

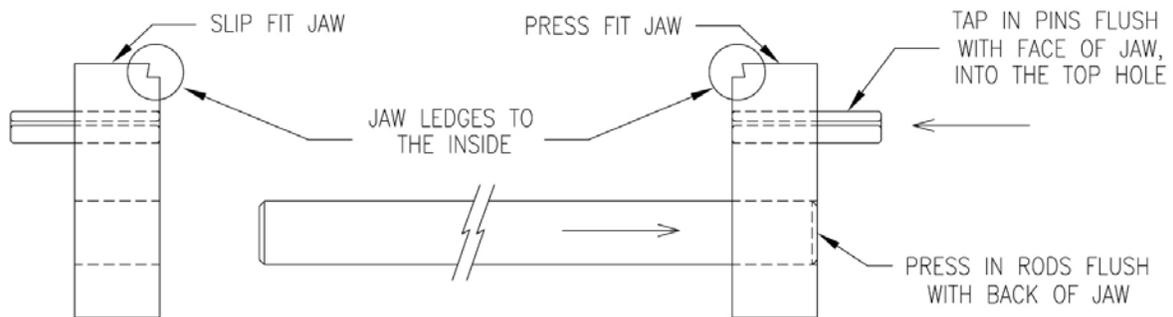
Kit Assembly Instructions



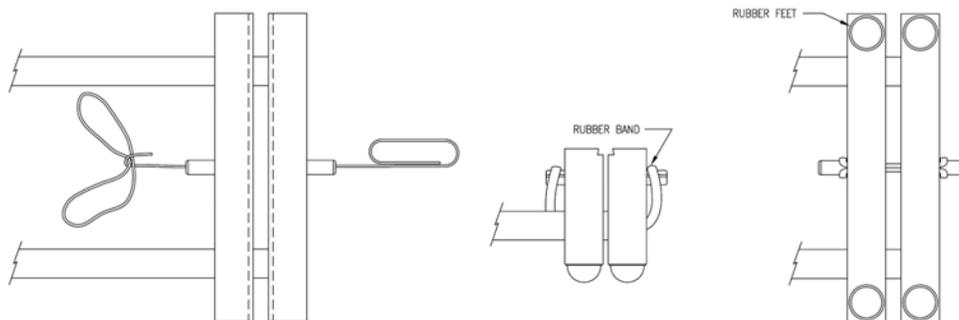
Parts list: 1 – press-fit jaw, 1 – slip-fit jaw
2 – 3/8" dia. x 6.0" nylon rods
2 – rubber bands, use only 1, 1 spare

2 – 3/16" dia. x 7/8" L., roll pins
4 – self-adhesive rubber feet
1 – paper clip

Tools required: One small hammer



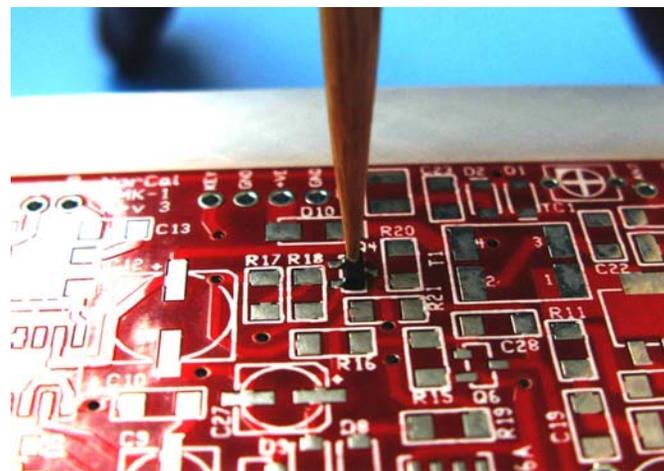
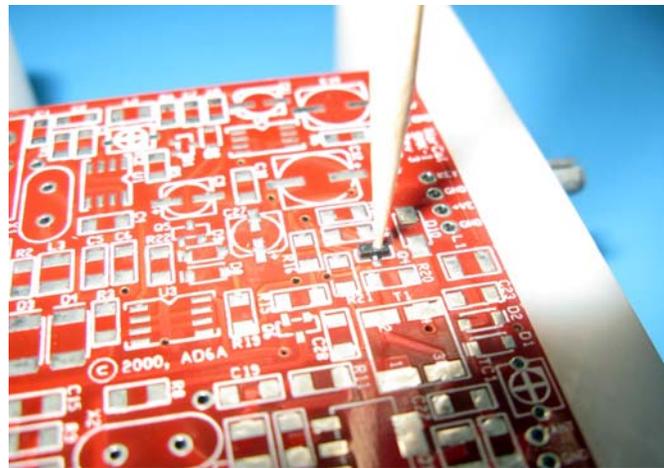
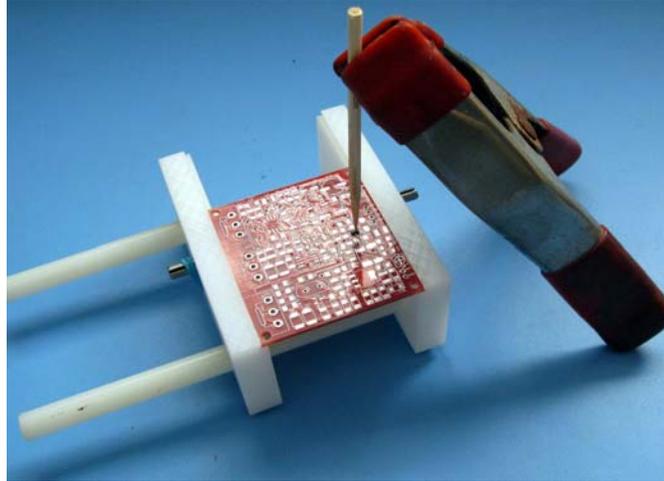
Use a small hammer to tap the two 3/16" dia. roll pins, into place, flush with the inside of both jaws. Then tap in the nylon rods into the side shown of the jaw that has the smaller, press-fit holes.



Slide the slip-fit jaw onto the rods, as shown. Straighten out one end of the paperclip and bend a small loop that will pass through the 3/16" hole between the two rods. Insert the small loop of the paperclip through the two 3/16" holes in the jaws and capture the rubber band (use only one rubber band), in the middle. Loop both free ends of the band over the pin in the moveable jaw and pull the middle of the rubber band back through the hole to the other side, and loop the middle of the band over the fixed jaw roll pin. Stick the four rubber feet on the bottom corners.

Tip for holding small SMT components while soldering

I have found that holding some of the smaller SMT components can get frustrating, and the capillary action of the solder can actually draw the component away from the board and stick to the soldering iron. I use a simple "leaner" type holding device on the smallest components. Typically only one connection needs to be tacked to hold the component in place and you can remove the device, and solder the remaining points. Shown is an inexpensive spring clamp, and a piece of bamboo skewer, or you could use a toothpick.



If you find this tool useful, please tell your friends.

www.qrpbuilder.com , e-mail <wa4mnt@gmail.com>

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