

Published based on [Tips To Hand Solder A Quad Flat Pack](#)

Tips To Hand Solder A Quad Flat Pack

This write-up describes the best way to solder a quad flat pack component to a printed circuit board. The particulars of the procedure are covered, such as chip placement, bent pin recovery, tacking, the soldering and solder bridge removal.

Get your chip prepared by placing the component tray on your bench and opening up the packaging. There are two points to do just before picking up the chip. The first 1 is to make certain that you simply aren't going to zap your chip having a lightning bolt out of your finger. Discharge yourself of any static charge build-up within your physique by either wearing a grounded antistatic wrist strap, or by touching an exposed metal screw on the grounded case of a piece of equipment on your bench. Possibly your soldering iron base or perhaps a lab bench energy supply.

The second factor to do is to look at exactly where the pin 1 reference on the chip is. Rotate your circuit board to ensure that when the chip is transferred more than, it's going to be inside the suitable position with pin 1 markers lined up.

Subsequent, use the vacuum pickup tool to lift up the chip and transfer it over to the circuit board. At this stage for those who drop or bump the chip, you may have bent 1 or a lot more of the legs. You may recover from bent pin legs employing the following process.

Get a hypodermic needle plus a fine pair of pliers. Make a small 90 degree bend on the tip of the hypodermic needle. The bend acts as a kind of hook or puller for the bent pin legs. Subsequent, put on your head magnifiers so that you can see what's going on. Hold down the chip and really carefully pull the bent leg back into position. Do this really slowly to stay clear of pulling it too far. Do this for all bent legs. Place the chip down carefully on the board. It does not need to be too accurate at this stage.

Find out extra information about [Rosin Core Solder](#) with my top recommended [Liquid Solder](#) blog.

You can also find this article published on [Tips To Hand Solder A Quad Flat Pack](#), and on the tag pages [Advertising](#).