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Printed Circuit Board Assembly by [Mary Porter](#)

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Printed Circuit Board Assembly

There is more than meets the eye when you are looking for printed circuit board assembly, there is so much in fact that without reading and looking at all of the background information then you may get somewhat confused. This article is aimed at aiding and assisting you. The article will then conclude by informing you on where you can find more information on printed circuit board assembly and electronic contract manufacturing.

A PCB prototype is the first circuit board that is invented for a new electronic device. By using this prototype in the electronic device, the inventor can see if the prototype serves its purpose in the invention. Once the electronic device is made to function with the prototype, any mistakes that take place can be rectified in the prototype.

In this way, the PCB prototype saves the inventor of the electronic appliance lots of money, as any mistakes that may be present in the PCB will be pinpointed before the actual commercial manufacture of the PCB.

Printed circuit boards are best understood in light of the structure and operation of conventional stencil printing machines. Conventional stenciling machines generally have a stencil plate, a movable platform under the stencil plate, and a Circuit board holder attached to the platform. Conventional stenciling machines also have two spaced-apart, parallel conveyor tracks to transport the Printed circuit board along a conveyor line between the stencil plate and the movable platform.

In operation, the conveyor tracks engage opposing edges of the PCB and transport the PCB until it is over the Printed circuit board holder.

The moveable platform then moves upwardly and engages the Printed circuit board holder with the downwardly facing side of the PCB to lift the PCB to the stencil plate. A wiper then moves across the stencil plate to press the solder paste or the adhesive compound onto the PCB. After the wiper stops, the work platform moves downwardly from the stencil plate to replace the PCB on the conveyor rails so that it can be transported to a pick-and-place machine.

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[Mary Porter](#) - About Author:

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