

# Making Printed Circuit Boards

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 DIY Customized Circuit Board (PCB Making) : 12 Steps (with ...  
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### DIY Customized Circuit Board (PCB Making) : 12 Steps (with ...

Making the board The printed circuit boards are made of fiberglass epoxy (a thin plastic sheet that contains threads of glass to make it stronger) and a thin sheet of copper pressed on each side. Sometimes aluminum, nickel, and other metals are used. Excess copper is stripped from the board to leave behind metal connections for the components.

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In assembly the bare board is populated (or "stuffed") with electronic components to form a functional printed circuit assembly (PCA), sometimes called a "printed circuit board assembly" (PCBA). In through-hole technology, the component leads are inserted in holes surrounded by conductive pads; the holes keep the components in place.

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Procedure for making PCB First, you need to download the PCB layout (which circuit you having). example Download an Inverter circuit board PCB layout. Then open the PCB layout file, place the glossy paper into the laser toner printer. then click to print a copy of the PCB layout. Then take the printed page. cut the layout as per the printed board.

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you need to draw the circuitry using an etchant resistant... 3. Once you are happy with the ...

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In first step we need a PCB designing software, to convert the circuit schematic diagram into PCB layout. There are lot of paid and free softwares available for this purpose, some open source software are Cadsoft Eagle, Fritzing, PCBWizard etc. Here we are using Dip Trace software of PCB designing.

#### How to Build a Circuit Board (with Pictures) - wikiHow

*How to make a printed circuit board at home - Soldering Mind*

To create a Printed Circuit Board (PCB), you need to draw holes, pads, and wires for your circuit. This skill is called PCB design and is highly useful. When you're done, send the design to a manufacturer or you etch it yourself.

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The most basic method is to just use etch resist ink and manually draw the circuit and then use etchant to end up with your board. In terms of complexity you can now end up with a multi layered board with a solder resist mask and screen printed.

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Step 9: Etching • First put rubber or plastic gloves. • Place some newspaper so that etching solution do not spoil floor.

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The video below is not mine!! Step 1: Tools & Materials. Here are the tools and material that you are going to need. Step 2: Making Your Circuit Board Design. If you already have a PCB layout then there's no problem you can just skip... Step 3: Printing Your PCB Layout. When you print your layout ...

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The ability to make your own printed circuit boards is a real boon to the electronics hobbyist, in so many ways: No more waiting for boards to arrive. It's economical with no minimum order or shipping charges, and the quality is excellent and fully under your control. Board revisions for revised (or corrected) layout are fast.

*How to Make a Printed Circuit Board (PCB) | PCB | Maker Pro*

Creating Printed Circuit Boards (PCBs) is easy and fun for the whole family! But read the disclaimer — heat and corrosive chemicals are dangerous ;-) After you've prototyped and tested your circuit design, creating a PCB will provide a sturdy and reliable backbone for your circuit and will give your project a professional finished quality.

*Making Printed Circuit Boards*

First, put on rubber or plastic gloves. Place some newspaper on the bottom so the etching solution does not spoil your floor. Take a plastic box and fill it up with some water. Dissolve 2-3 teaspoons of ferric chloride power in the water. Dip the PCB into the etching solution (Ferric chloride ...

Making Printed Circuit Boards takes you step by step from schematic diagram to finished project.

You'll learn how to: draw circuit diagrams; transfer artwork to PC blanks; etch copper patterns; drill holes for leads and mounts; solder components to the board; repair and modify boards; use CADD software and photography to design circuits; make double-sided boards; choose and use photoresists; work with surface-mount components; safely handle and dispose of etching chemicals.