## Six steps for successfu PC soldering

There's no question about it, using a printed circuit board makes circuit confashioned point to point wiring. But, if you're not careful, you'll find printed circuits also make it a lot easier to create short circuits. That's because it's so easy accidentally to leave a solder bridge between two adjacent foil strips.

Another problem you might encounter using printed circuit boards is a false connection-a solder joint that looks good, but is in fact no connection at all. This happens when only the compo-nent lead is heated. The solder forms a blob on the lead, which becomes insulated from the copper foil by rosin from

the solder's core.

The trick to using printed circuit boards is to do a good job of soldering the component leads to the copper foil. It's really easy to do, if you'll follow these tips and take your time.

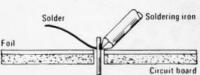
Use a soldering iron designed for use on printed circuits. These are usually rated at 25 watts and have relatively small tips-perhaps a chisel point about

1/8th-inch wide.

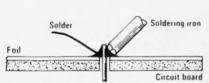
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■ Use a top-quality electronic solder, which must be of the rosin core variety. Use the smallest diameter solder you can



■ Place the soldering iron tip on the copper foil and against the lead to be soldered. Apply the solder to the junc-tion of the foil and lead on the side opposite the soldering iron.



■ When the foil and lead have been heated to the proper temperature by the soldering iron, the solder will flow onto

the foil and lead like a drop of light oil.

Remove the solder and iron. As the solder cools and hardens, it should appear smooth and it will shine.

As you remove the soldering iron from the foil life it source.

from the foil, lift it away. If you drag it away, you risk making a solder bridge across the gap to the adjacent foil strip.