

# Etching PCB DIY

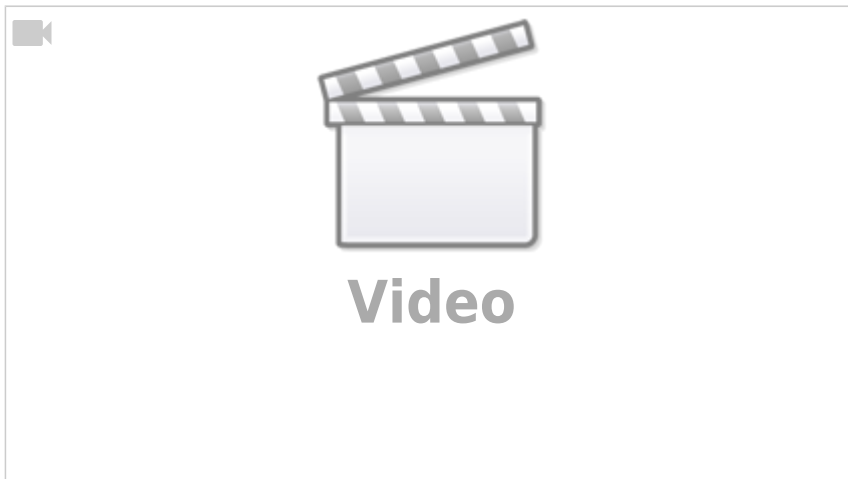
Before sending some PCB to get pro made (really the best time proof solution) it is useful to debug it by etching it yourself

## Toner Transfer

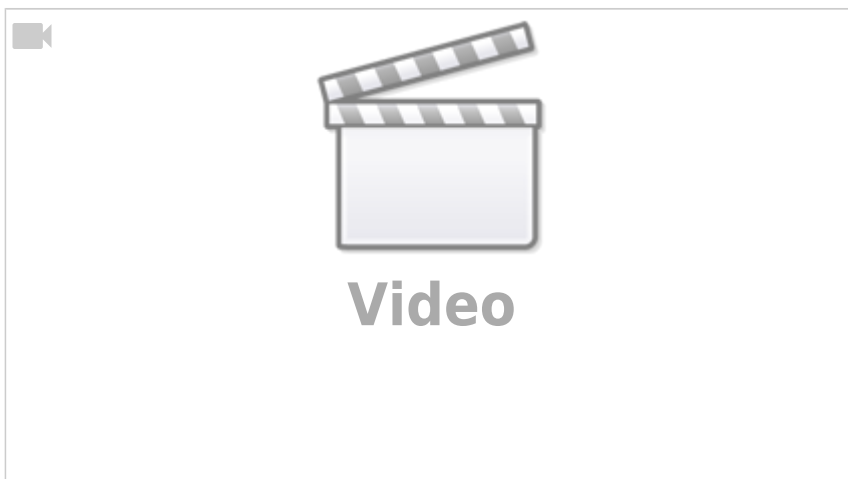
A Simple and costless method Flow to make proto PCB based upon **Laser Printed Negative** and **Laminator/Ironer**.

The laminator need a hack to increase heating temperature , but it's a more precise way ta make the transfer than ironer.

### Simple side Transfer + Etching



### Double side Transfer + Etching



## Laminator Transfer

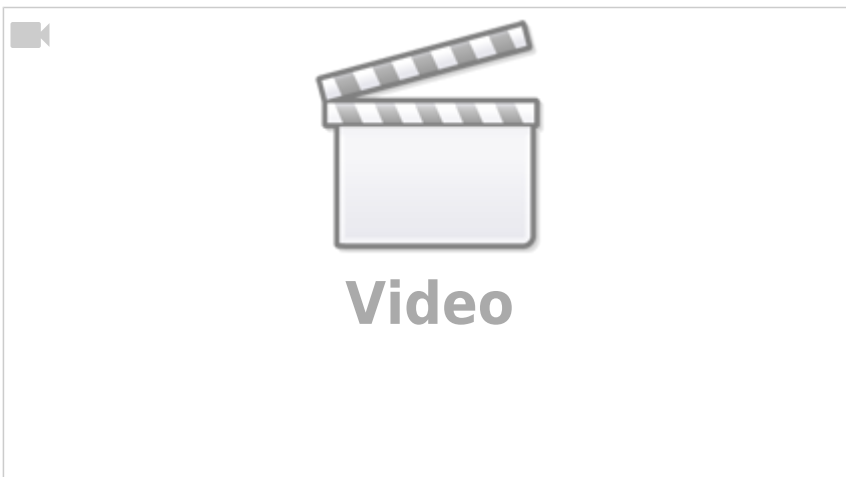
### Laminator hack



- 1: You need to remove protection fuse here
- 2: Unscrew
- 3: Remove
- 4: You need to add a 190°C klixon
- 4: Add it in parrallel. Rescrew. Done !



### Method Video

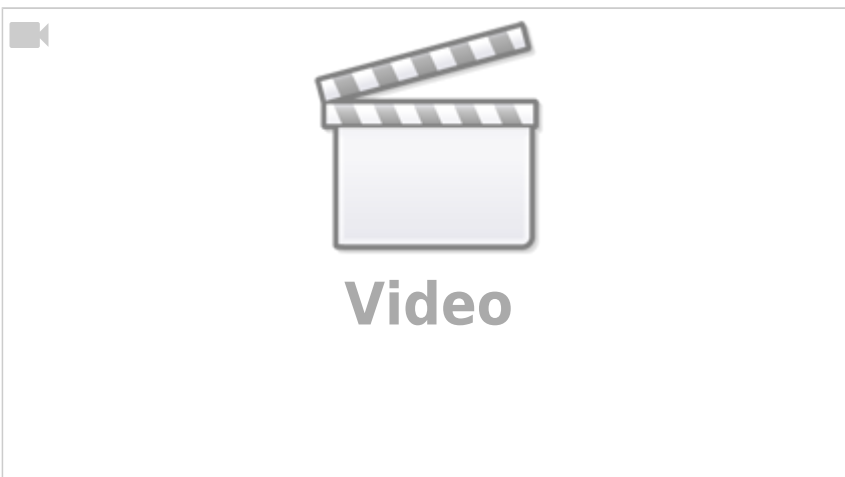


## Direct Laser Transfer



## Isolation Milling

A method that uses **CNC** to engrave around paths to isolate them from rest of PCB board



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Last update: **2016/07/23 16:10**

