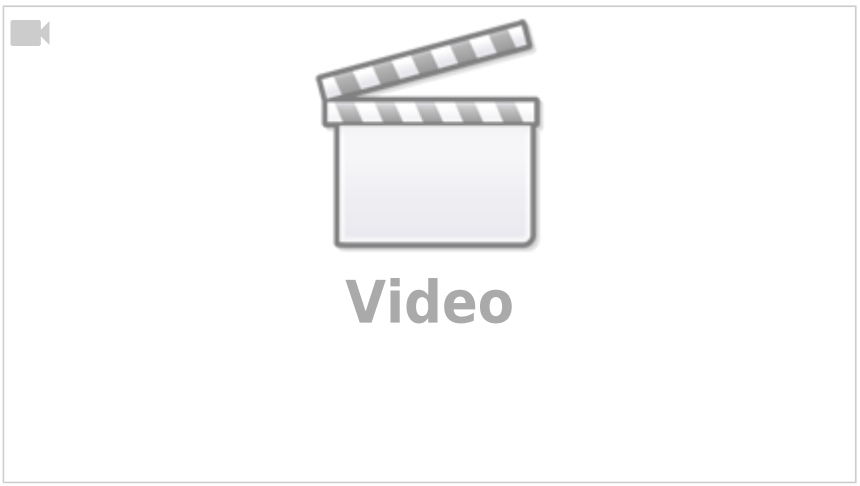
# Etching PCB DIY

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

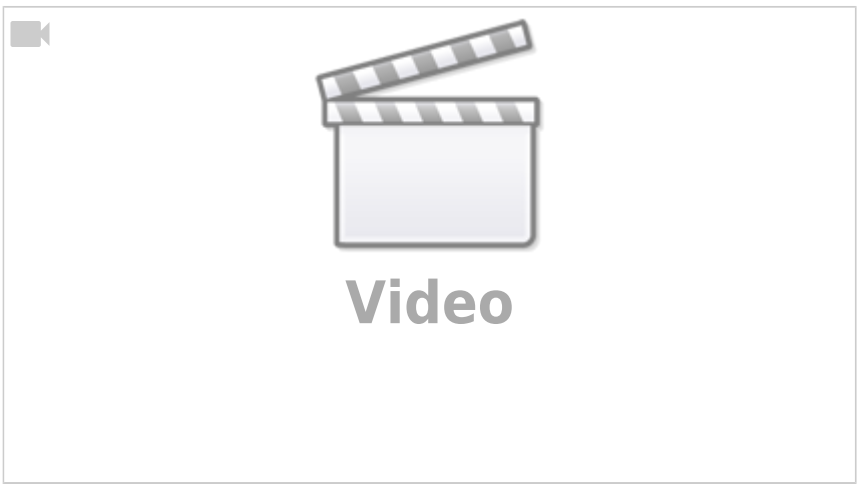
## Toner Transfer

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





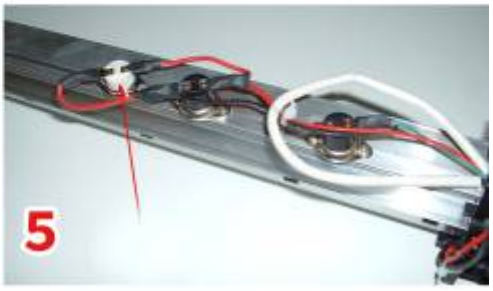


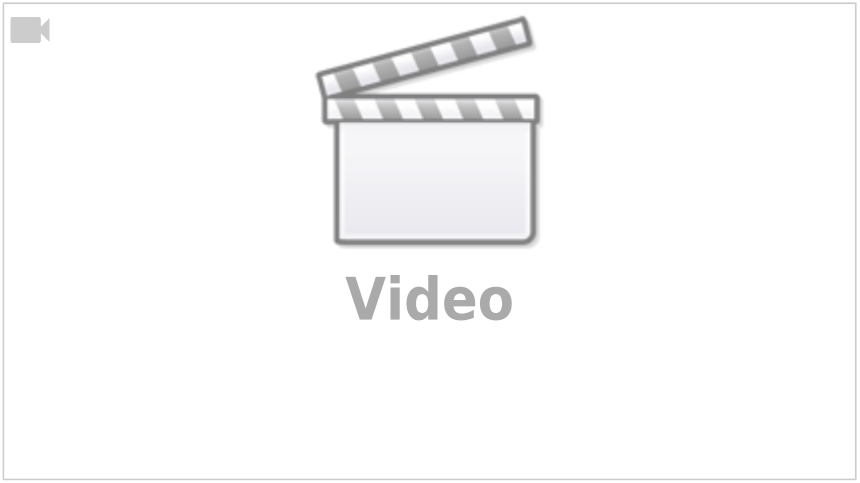




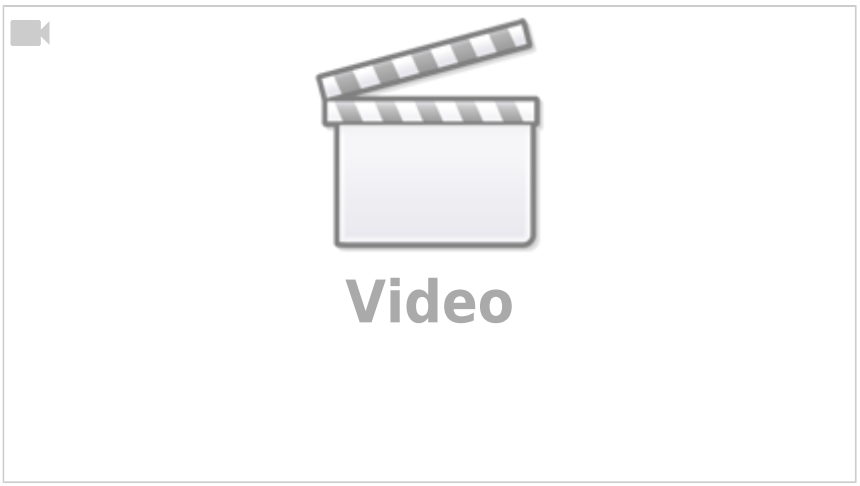


1: You need to remove protection fuse here
2: Unscrew
3: Remove
4: You need to add a 190°C klixon
4: Add it in parrallel. Rescrew. Done !



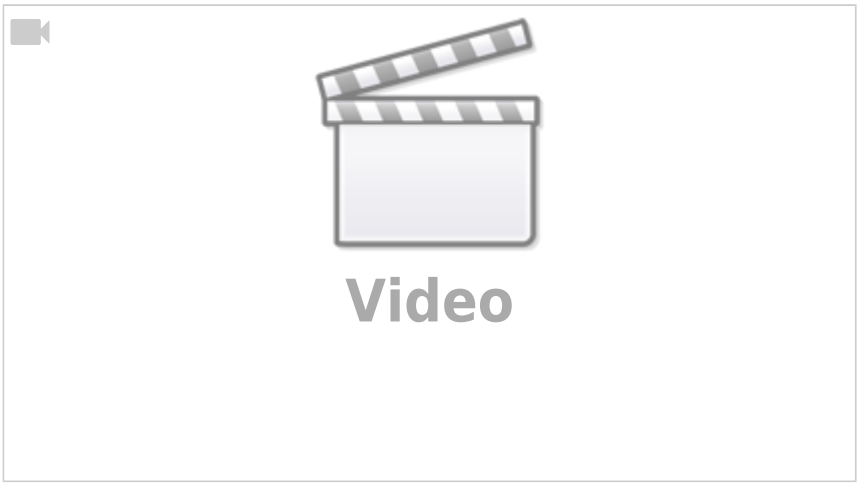




## Direct Laser Transfer




## Isolation Milling

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




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