

Intro to Soldering

Villanova IEEE

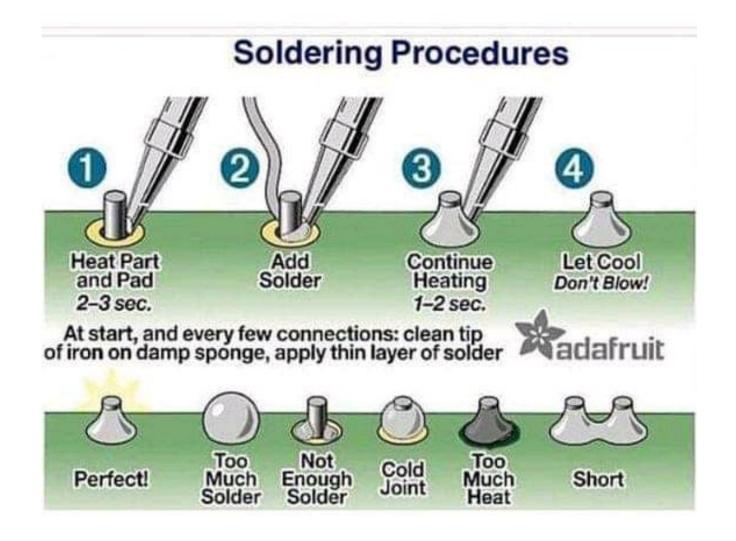


What is solder?

- Previously lead-based
- Flux core vs. solid wire
- Used as a bonding agent between electrical components and PCB pads





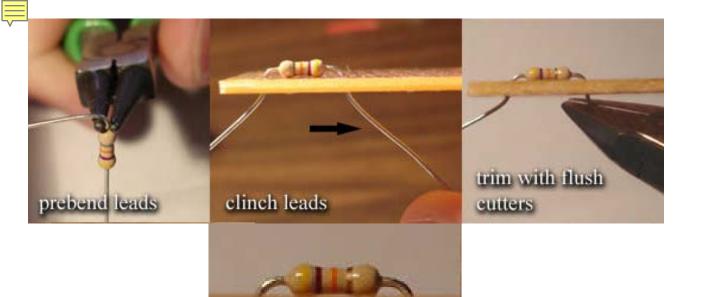


**Turn Temperature Gauge to ~400 °C









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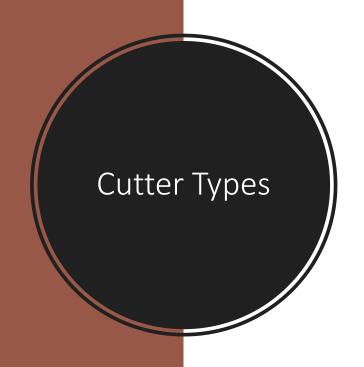


Passive Components

Trimming Components

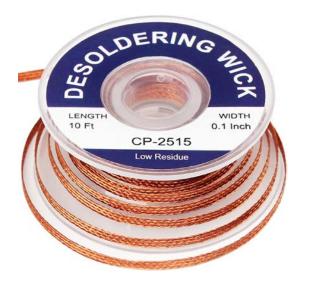
- Passive Components
 - Fine to solder and trim
- Active Components
 - Should be trimmed before soldering
 - Trim to the height of your capacitors
- If you trim too low, reflow the solder by applying heat

















Desoldering

- Solder sucker
- Solder wick
- Desoldering gun

Safety Tips

- Stay ventilated
- Hold the soldering iron by the handle like a pencil
- DO NOT try to catch the soldering iron if dropped.
 Move out of the way and then pick it up off the floor.
- Goggles/glasses are encouraged.
- Wash hands afterwards, especially before eating.



