Troubleshooting

MercedEnergy.com 12-13-2018 Soldering

https://github.com/MercedEnergy/Soldering

Cold Joint

- Problem: Components not heated properly
- Solution: Reheating Joints Closer

Not Enough Solder

- Bad Mechanical Connections
- Solution : Reheat joint and add more solder.

To Much Solder

- Problem: Short out leads of other components
- Solution : Remove using copper braid or solder sucker

To Much Heat

- May damage or melt PCB or components
- Use less heat
 - Cold joints are easier to fix

To Much Movement

- Disturbed joint
 - Solder is not smooth
- Solution: Use a third hand or PCB vise

Wire Lead Soldered to PCB

- Creates a short circuit
- Solution: Do not bend leads more than 45 degrees
 - Fix by removing solder

Removing Solder

- Reheat-and-Wipe
- Copper Braid
- Solder Sucker
 - Small Vacuum Pump



Thank You!

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Sources

Vinck, Marc De. Getting Started with Soldering: a Hands-on Guide to Making Electrical and Mechanical Connections. Maker Media, 2017.