

FUTURE FASHION ELECTRONICS



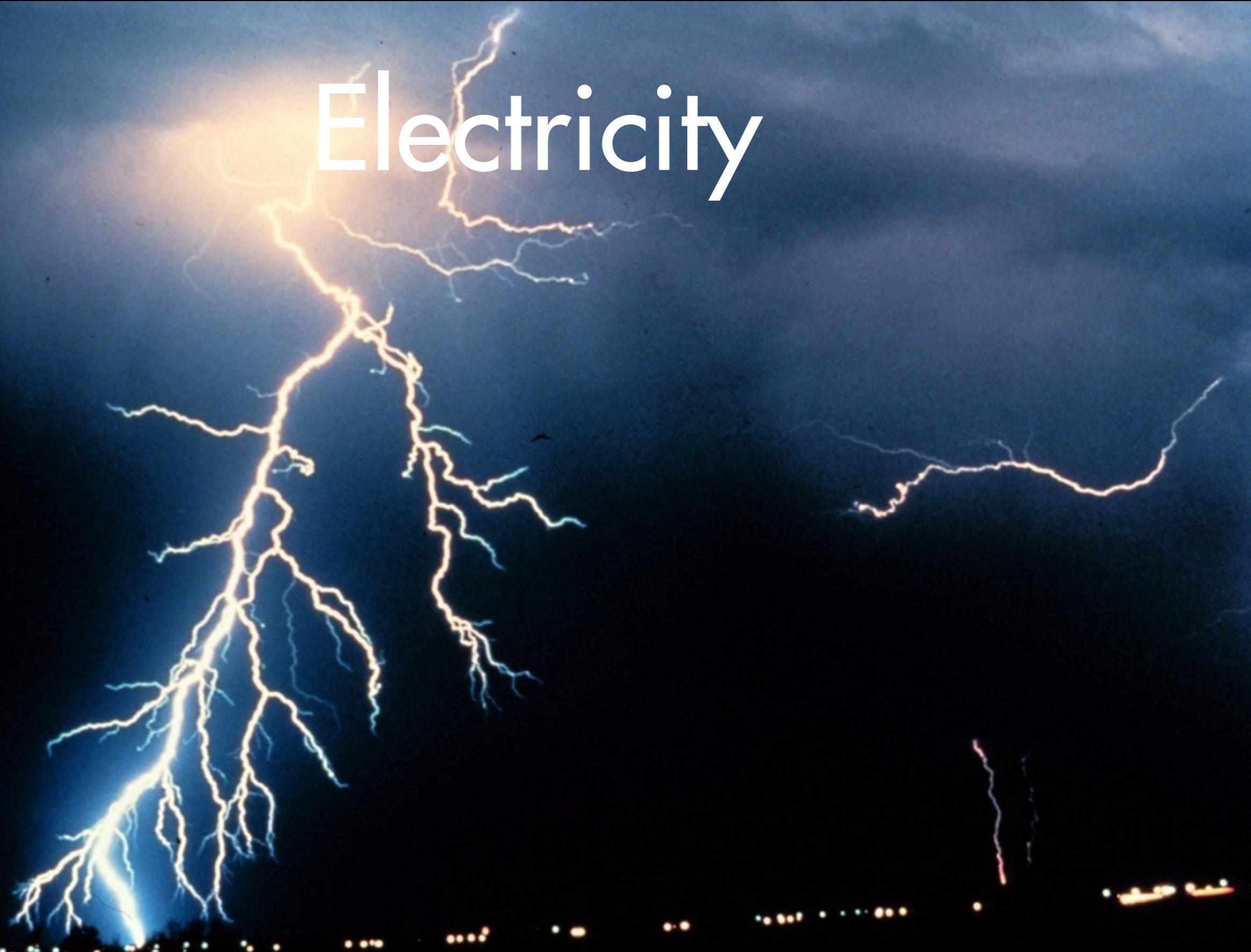
Imanol Gómez
Elektrocouture
1-5 August 2016

Repository

[https://github.com/ImanolGo/
FutureFashionWorkshopBangkok.git](https://github.com/ImanolGo/FutureFashionWorkshopBangkok.git)

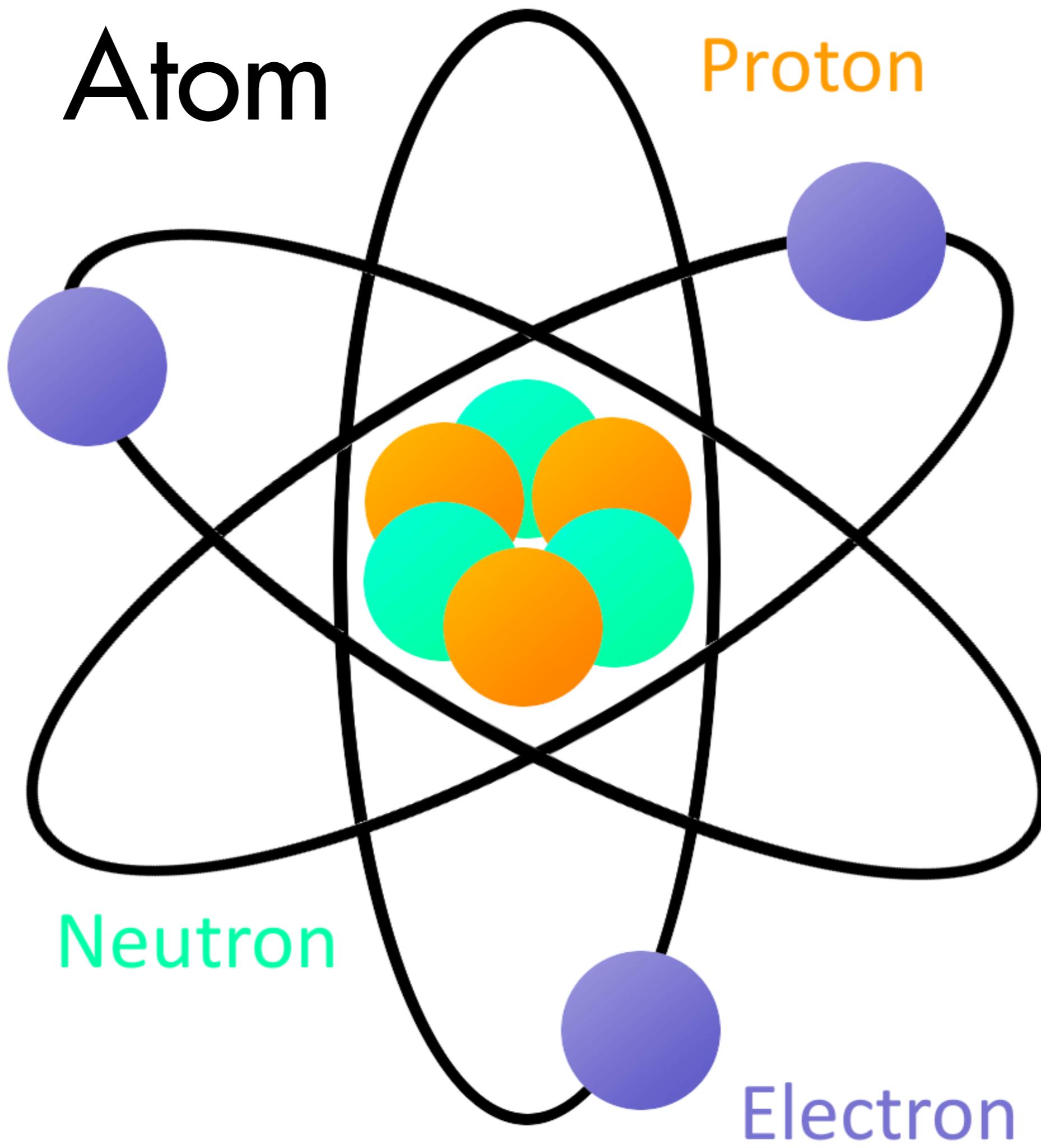
Introduction

Electricity



Atom

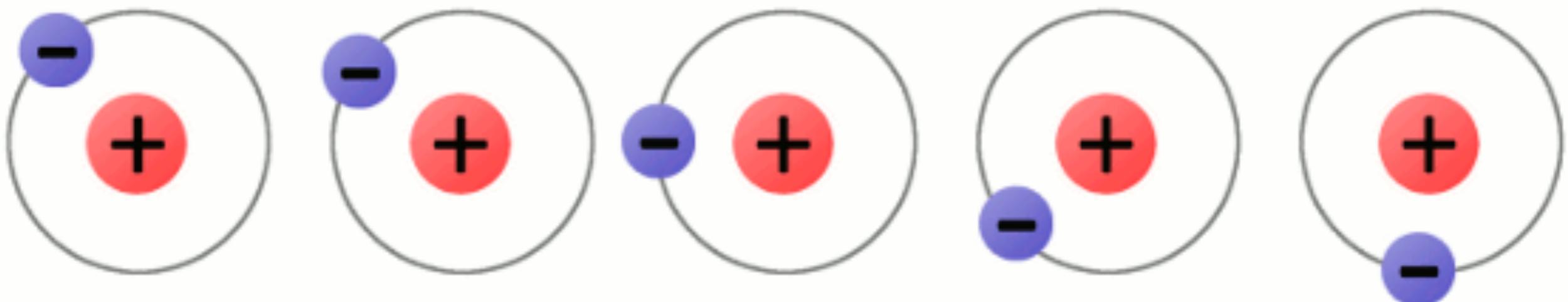
Proton



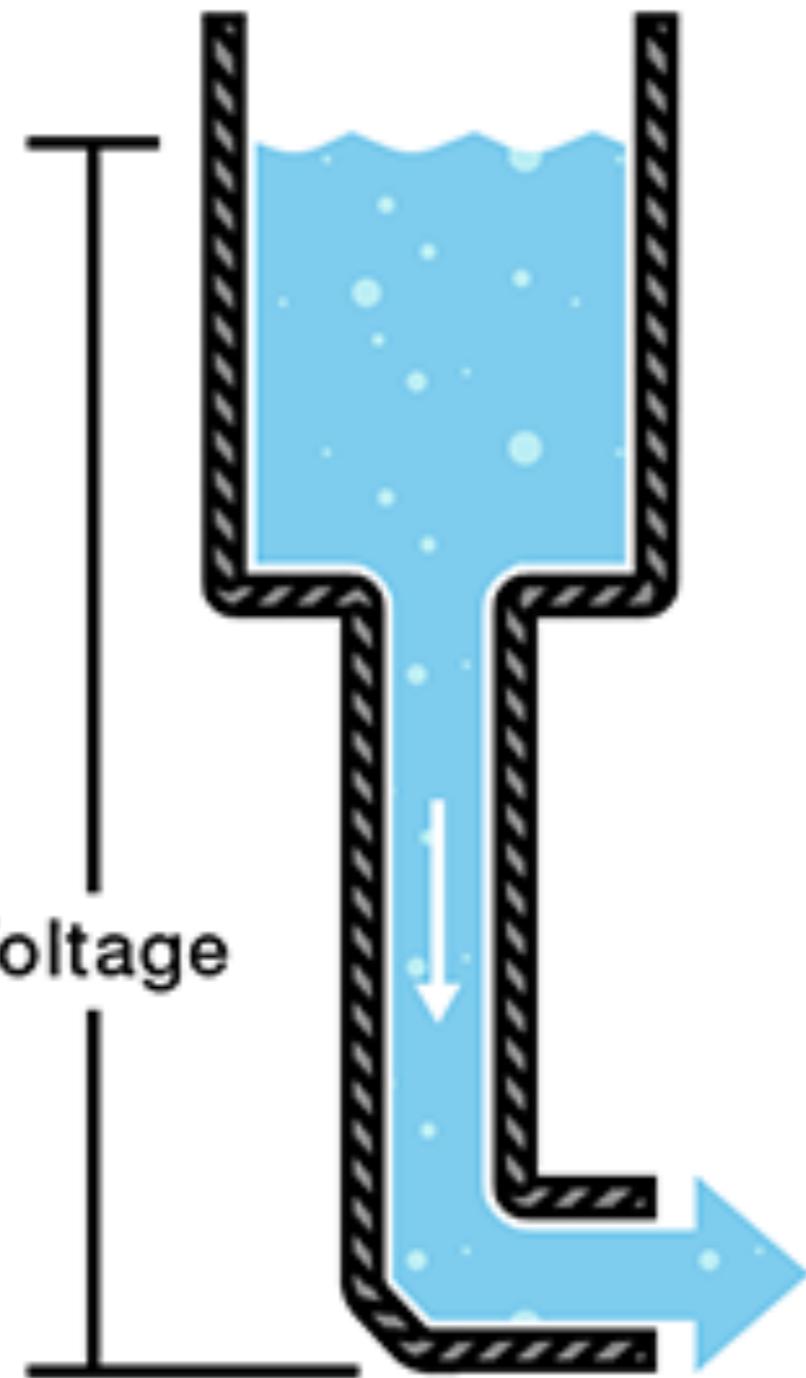
Neutron

Electron

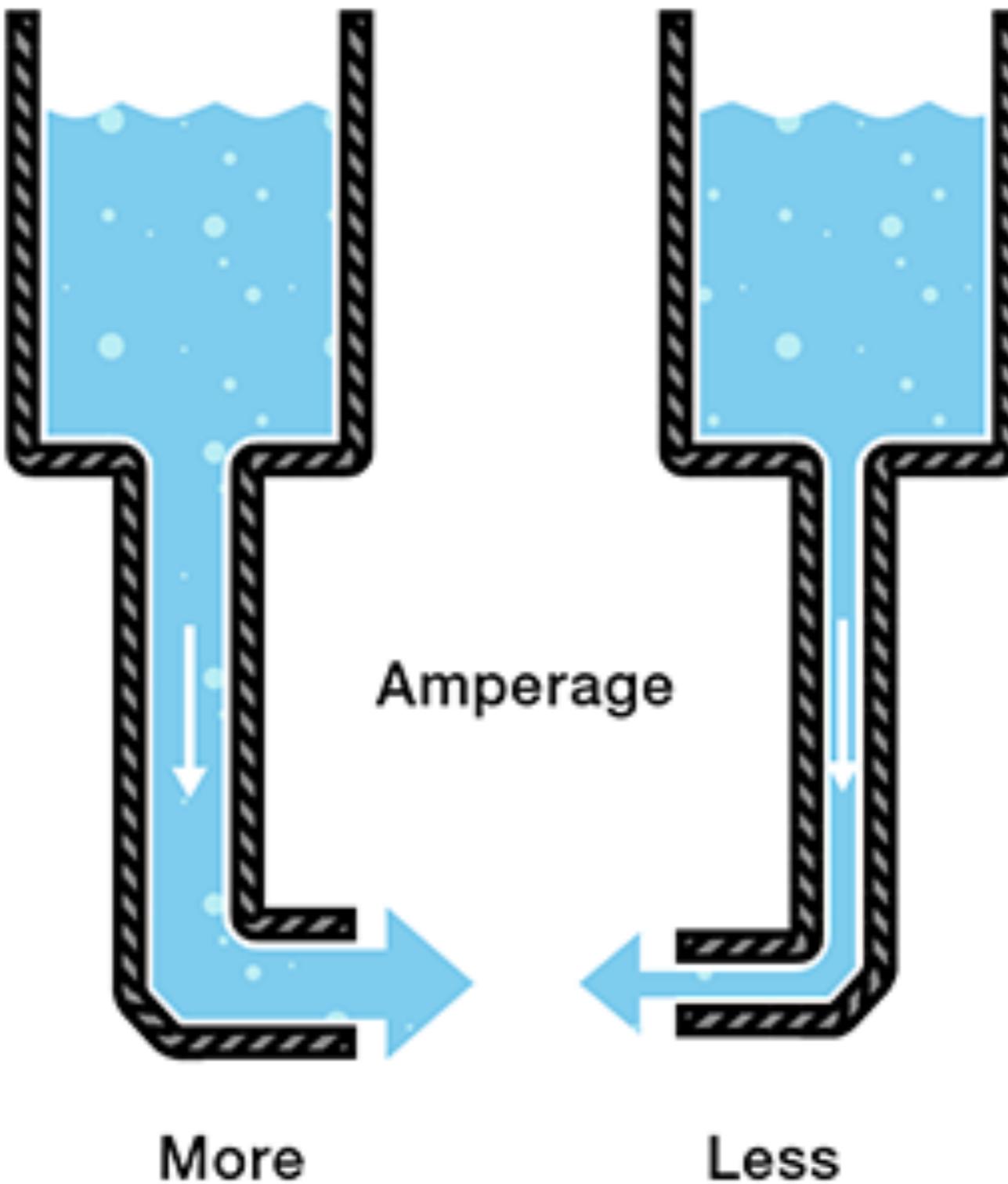
Flowing Charges



Voltage

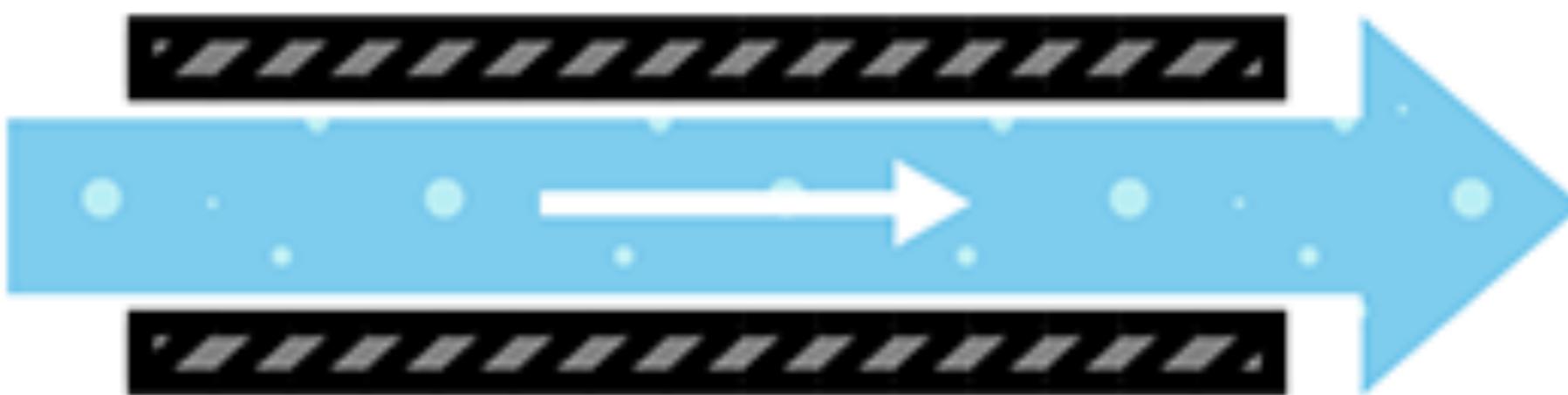


Current



Resistance

Less resistance



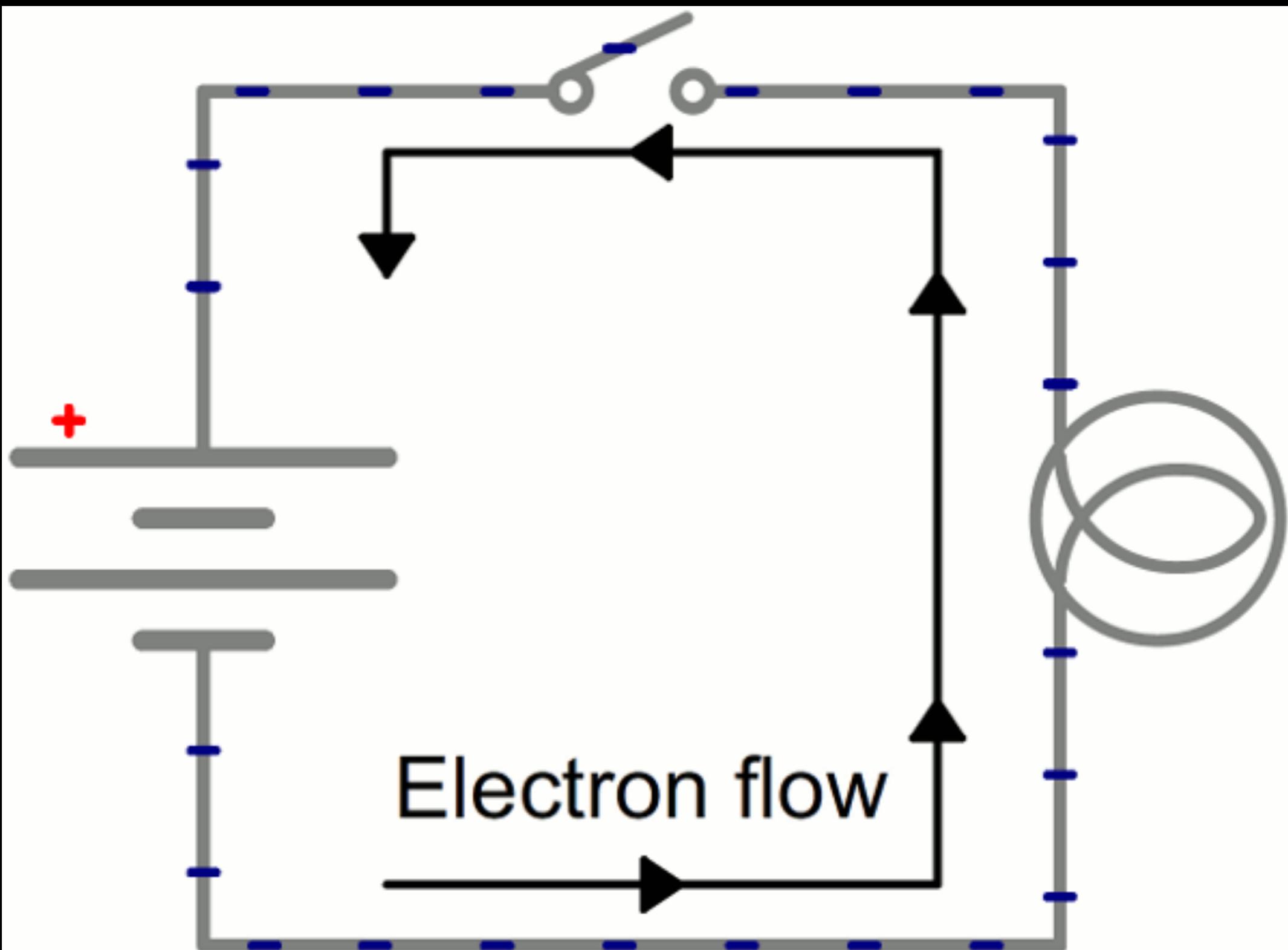
More resistance



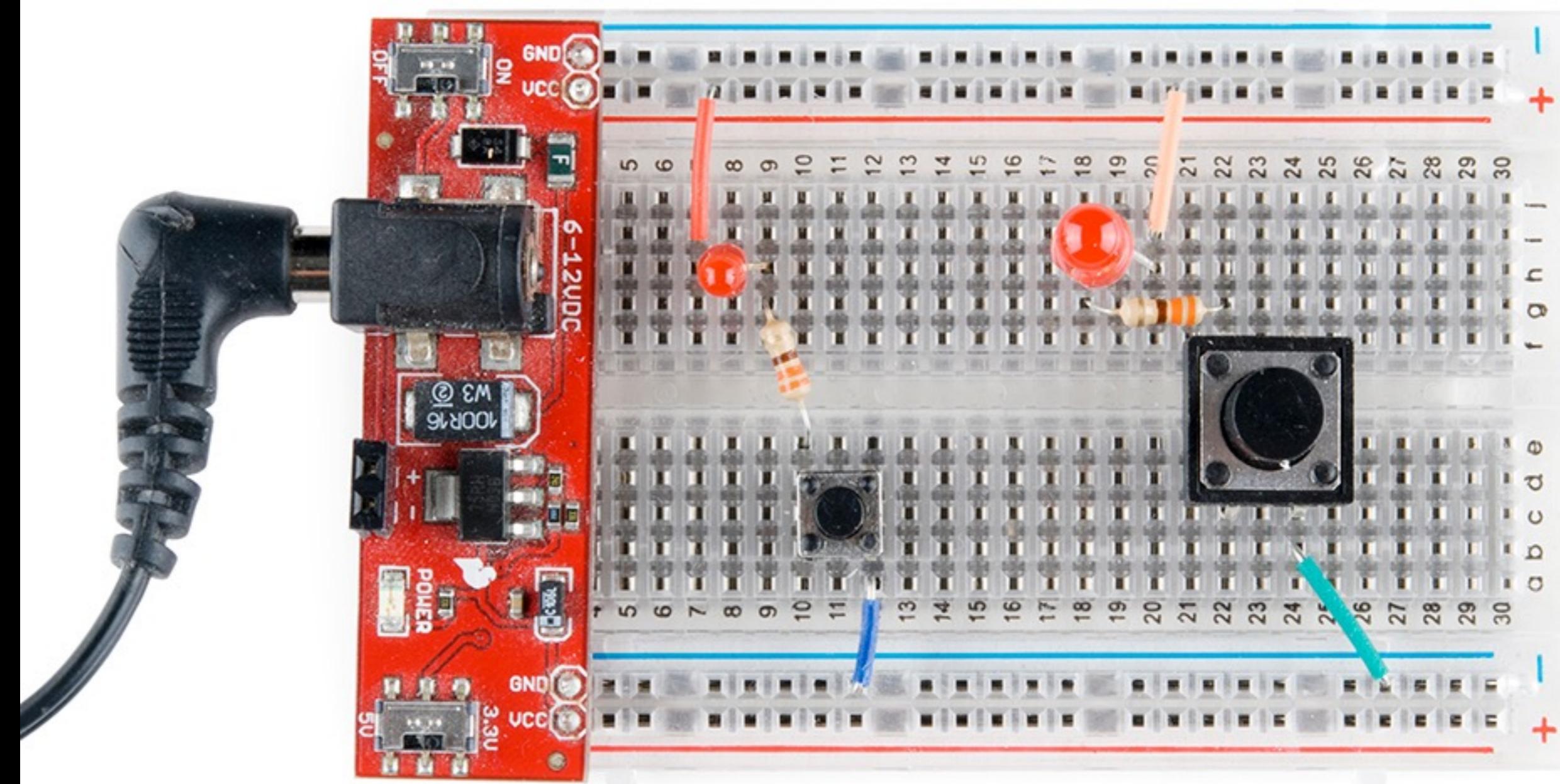
Ohms Law

$$V = I * R$$

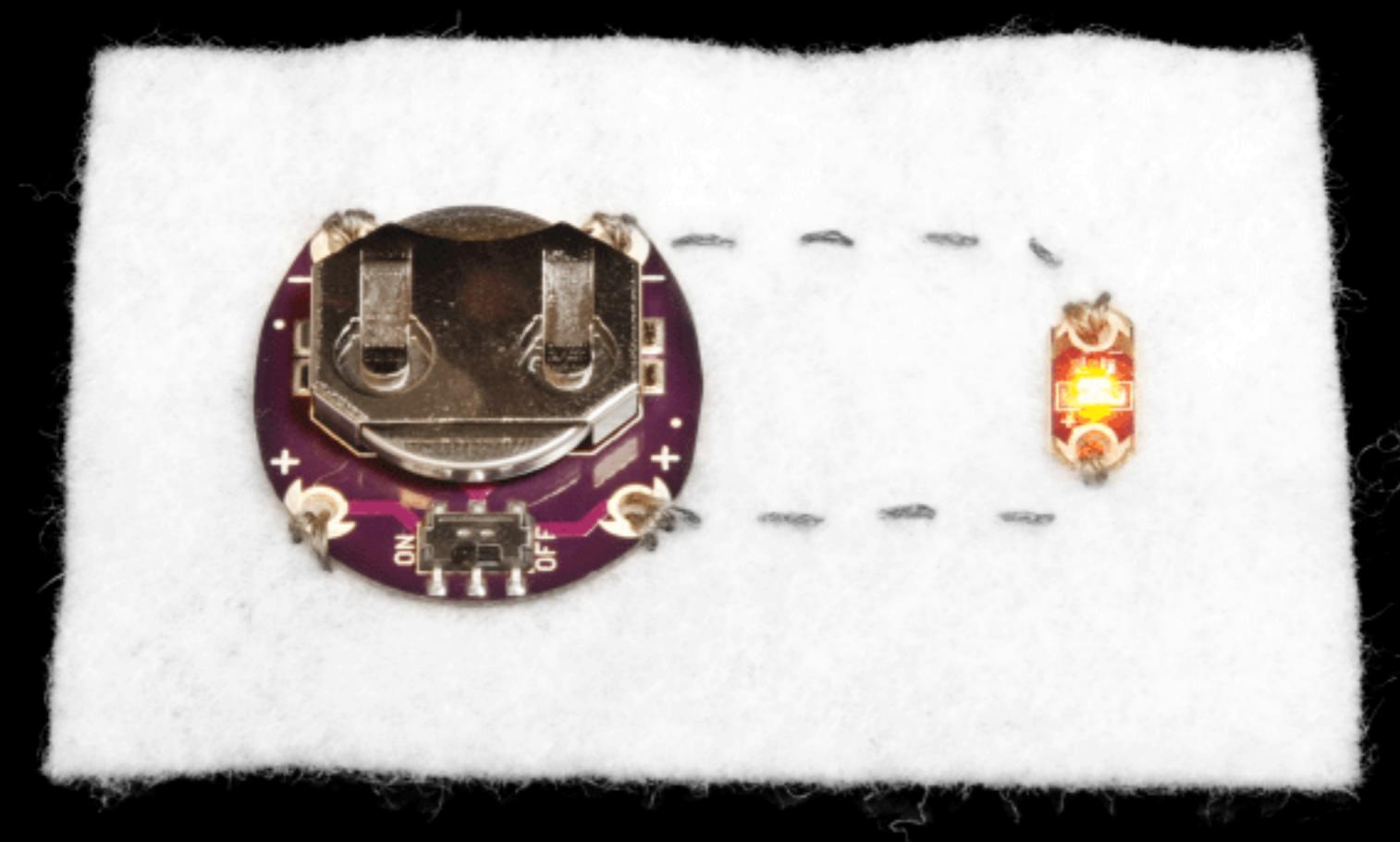
Circuits



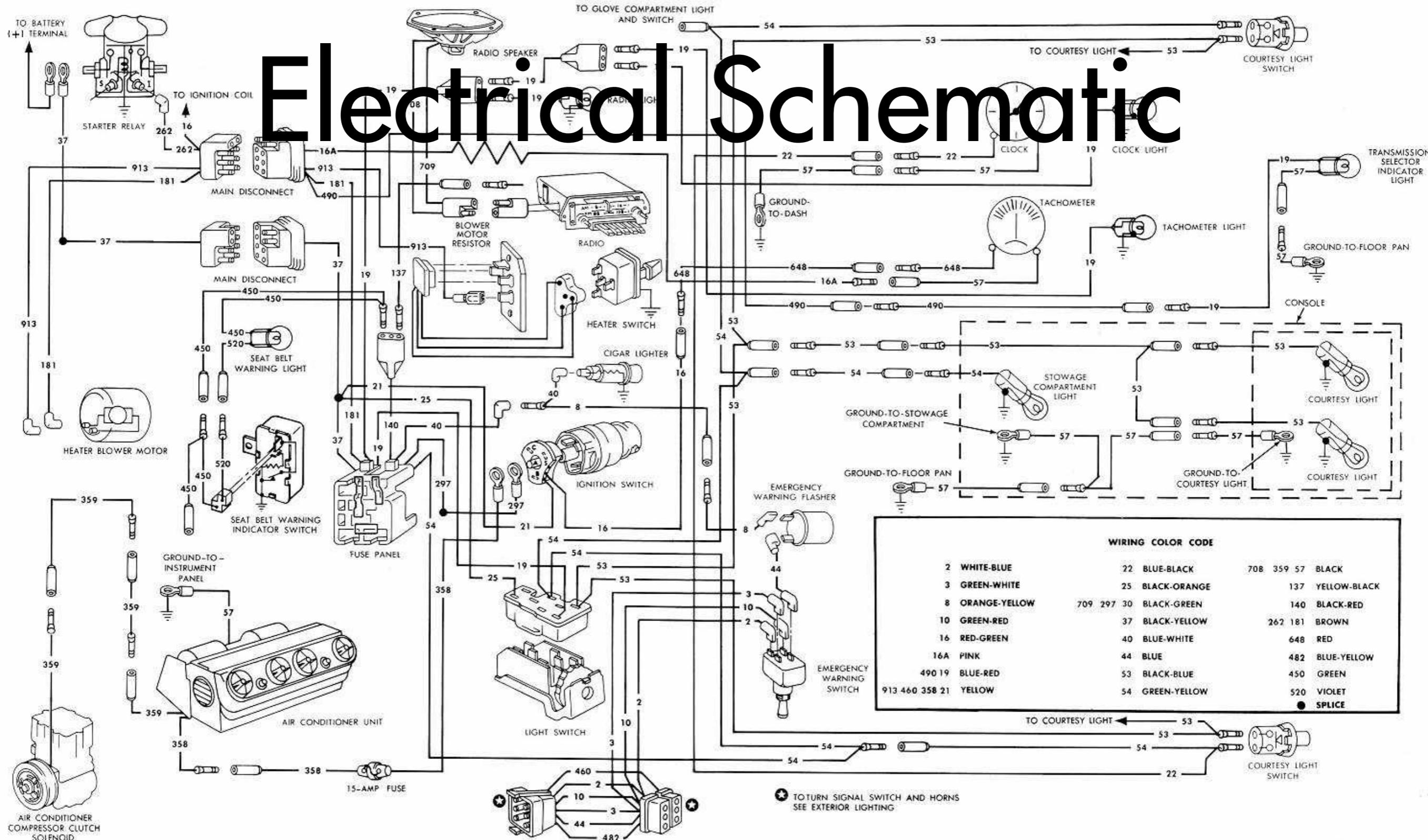
Circuits



Circuits

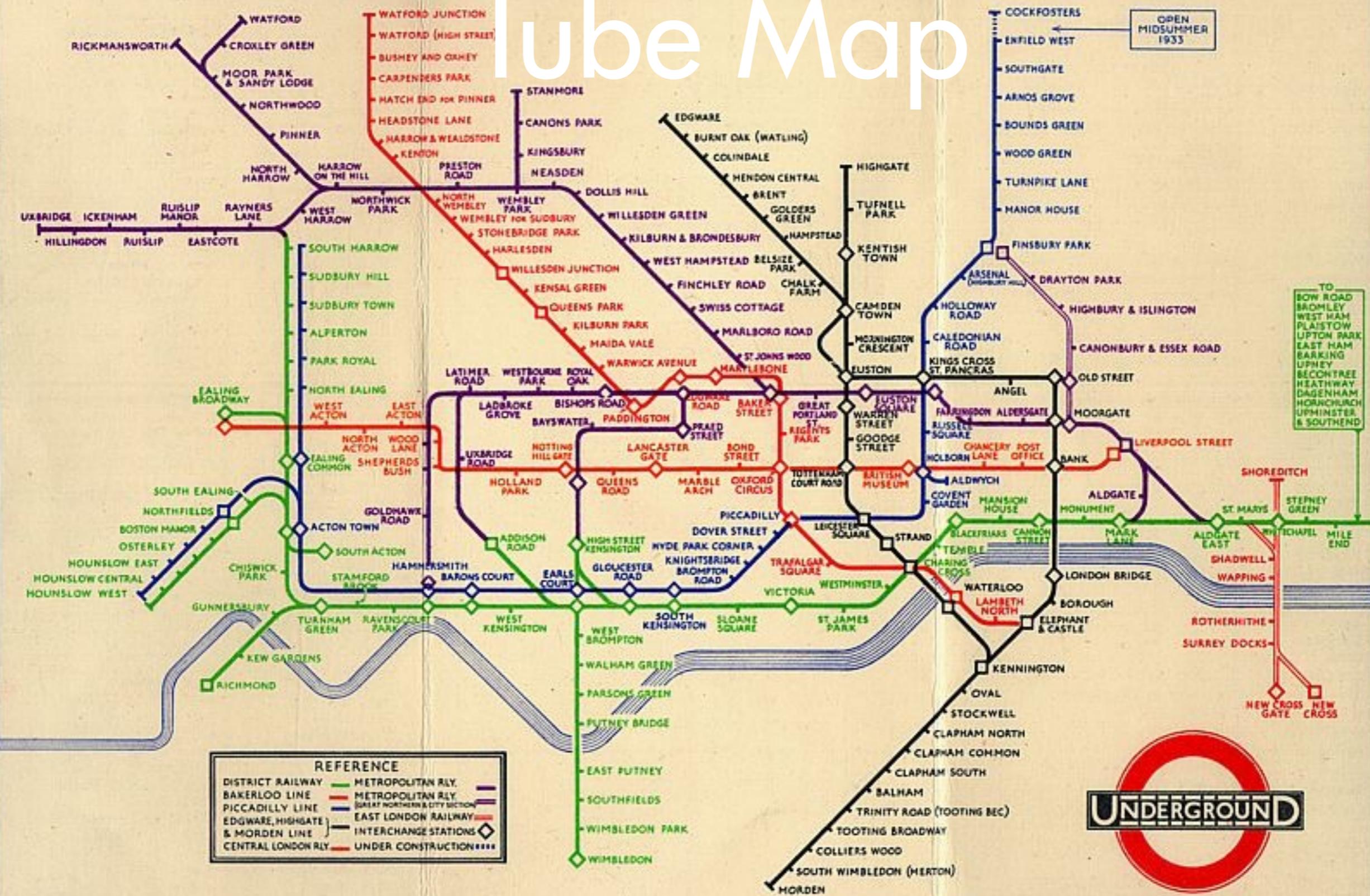


Electrical Schematic



1966 MUSTANG ACCESSORIES

Tube Map



Soldering

Components

Solder



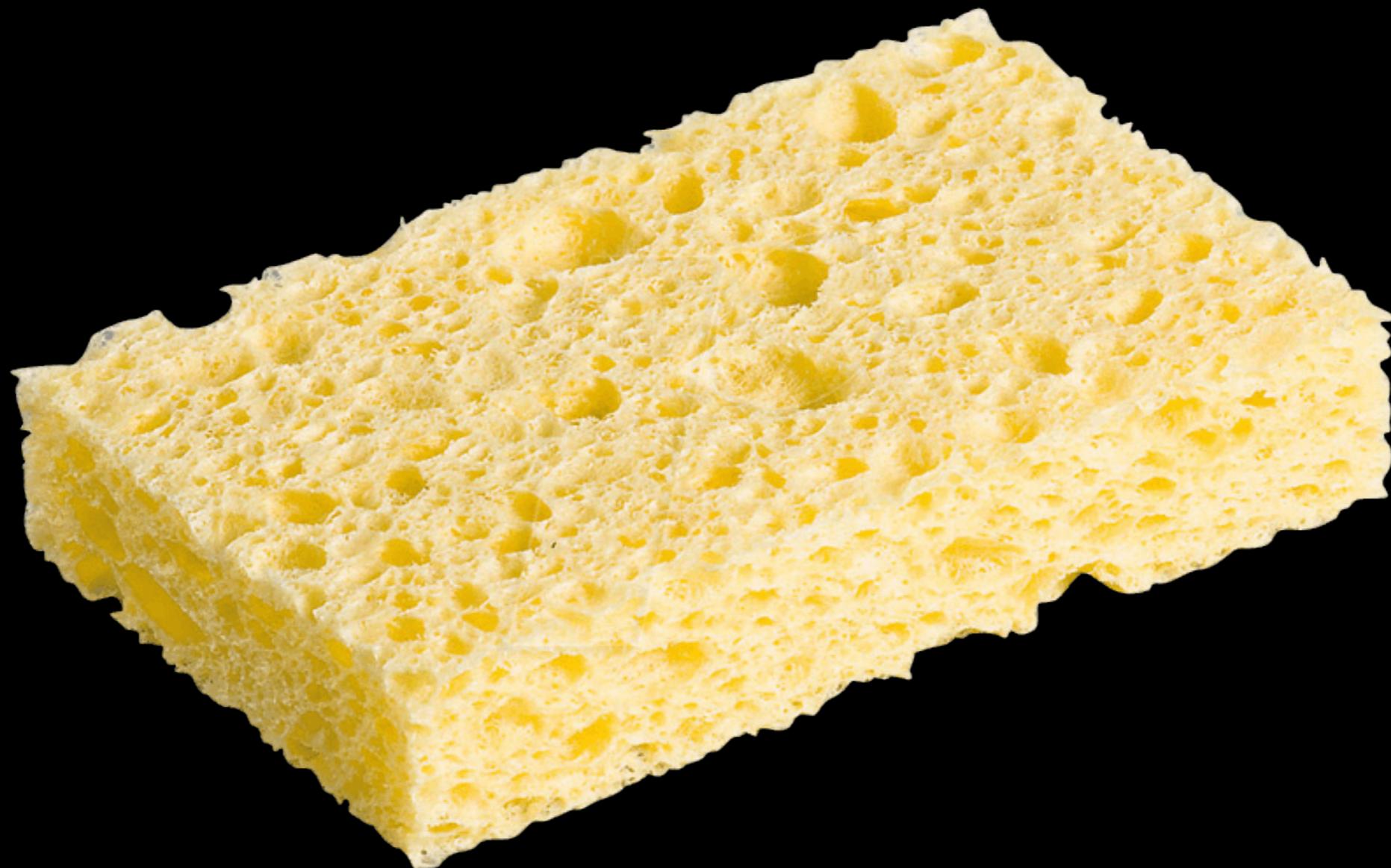


Soldering iron

Soldering stand



Wet sponge

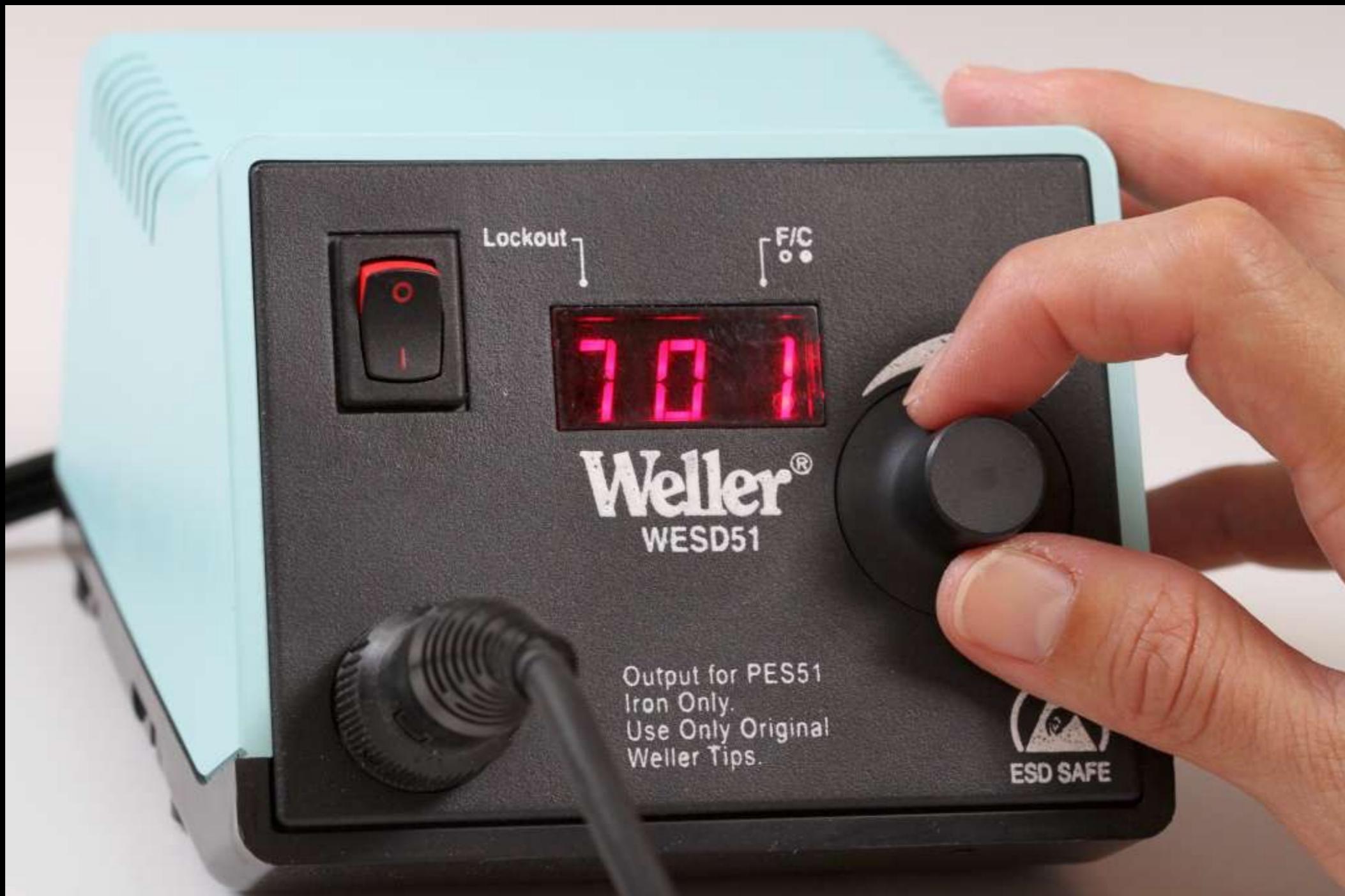


Helping hand



Preparation

Heat the iron



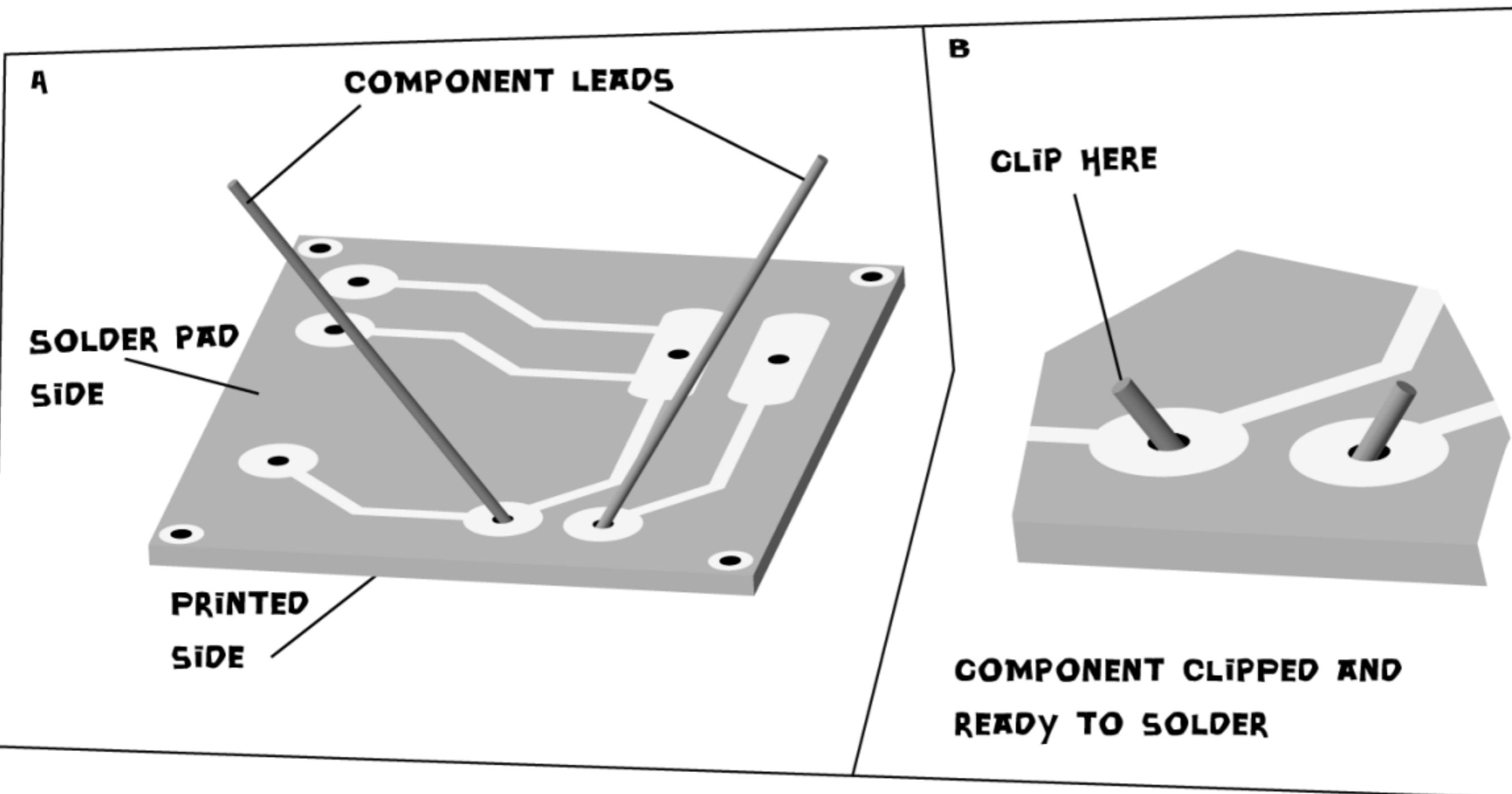
Clean the Iron



Tin the tip

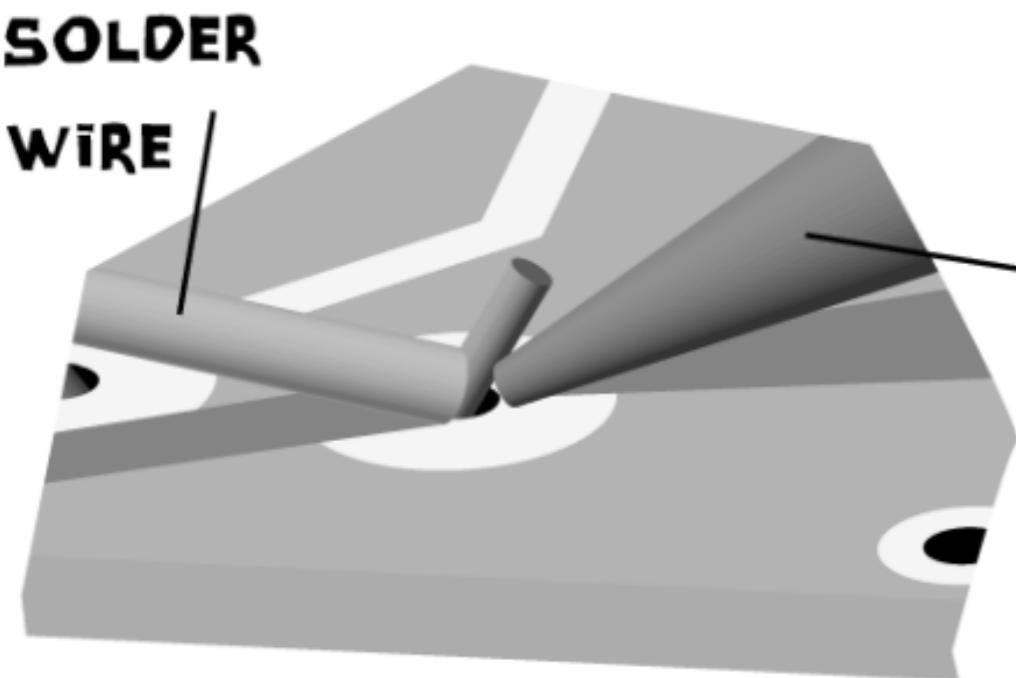


Immobilize the Joint



Soldering

A

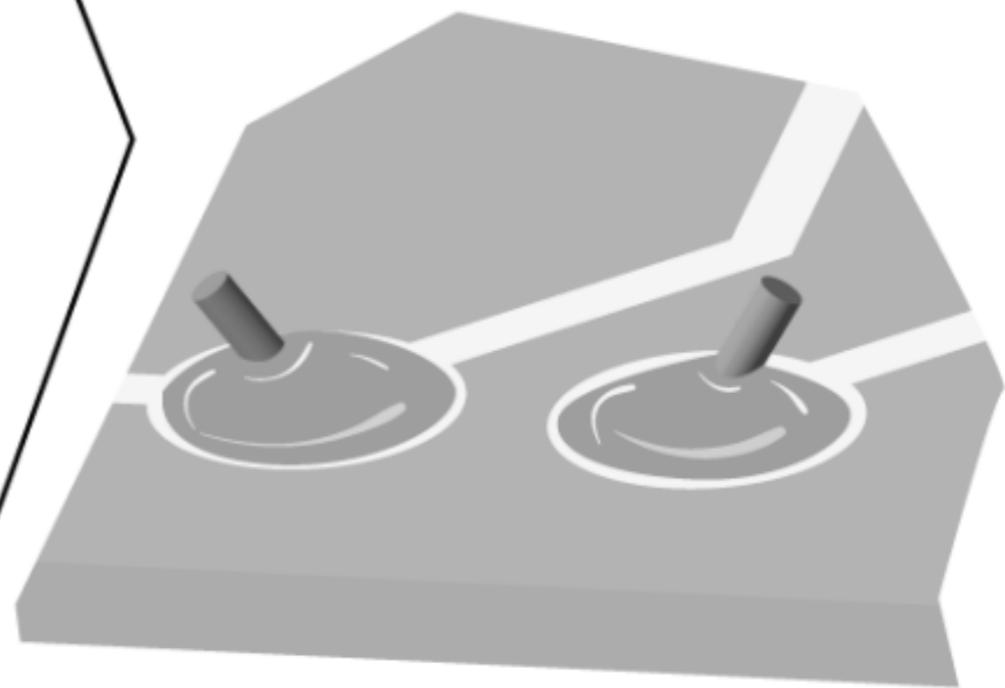


SOLDER

WIRE

**SOLDERING
IRON**

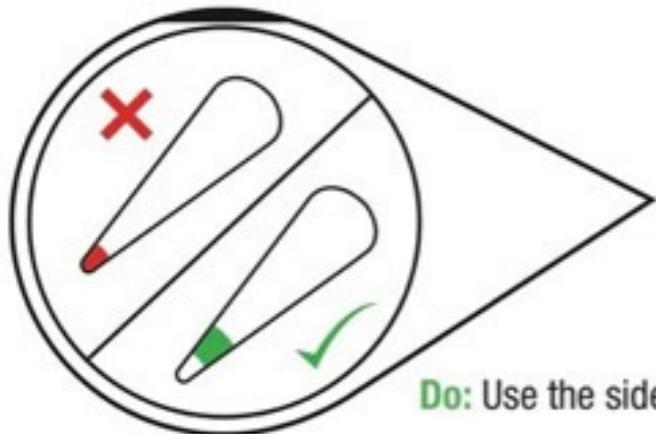
B



**KEEP THOSE
JOINTS SHINY
AND BRIGHT!**

**(CLIP LEADS FLUSH WITH
SOLDER JOINTS IF NECESSARY)**

Diagram



Don't: Use the very tip of the iron.

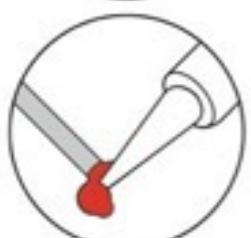
Do: Use the side of the tip of the iron, "The Sweet Spot."



Do: Touch the iron to the component leg and metal ring at the same time.



Do: While continuing to hold the iron in contact with the leg and metal ring, feed solder into the joint.



Don't: Glob the solder straight onto the iron and try to apply the solder with the iron.



Do: Use a sponge to clean your iron whenever black oxidation builds up on the tip.



A

Solder flows around the leg and fills the hole - forming a volcano-shaped mound of solder.



B

Error: Solder balls up on the leg, not connecting the leg to the metal ring.
Solution: Add flux, then touch up with iron.



C

Error: Bad Connection (i.e. it doesn't look like a volcano)
Solution: Flux then add solder.



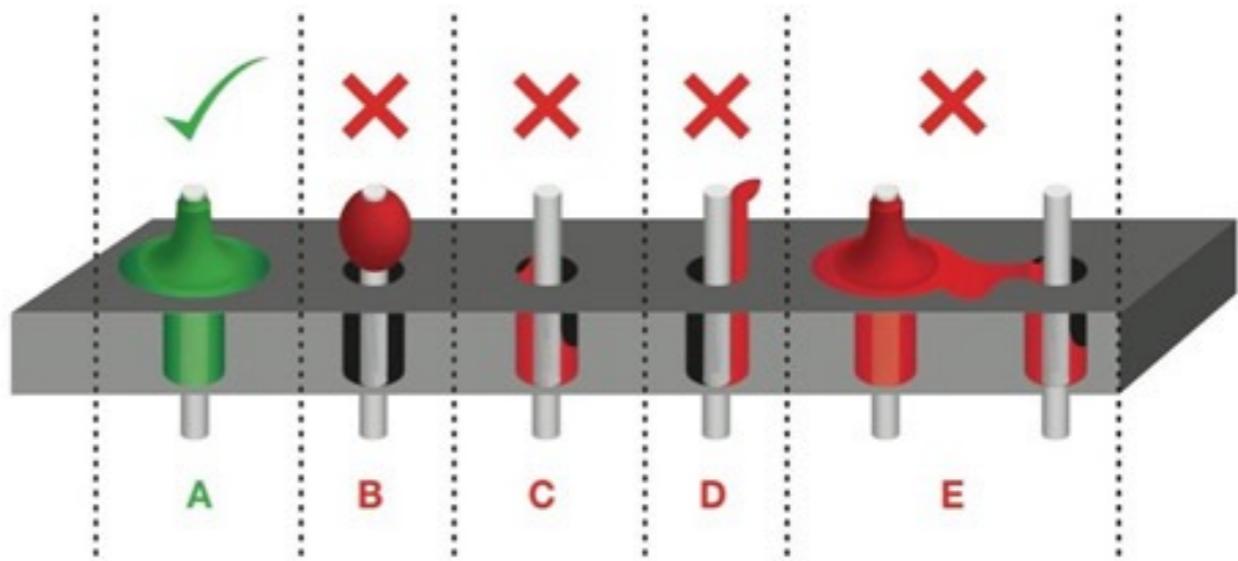
D

Error: Bad Connection...and ugly...oh so ugly.
Solution: Flux then add solder.



E

Error: Too much solder connecting adjacent legs (aka a solder jumper).
Solution: Wick off excess solder.



Questions?

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