

5V to 90V Boost Build

NIST



QED·C

MEMSDuino

Lafe Spietz

NIST

2024

Bill of Materials

USB BOOST LINE 5V TO 12V



Input 5V voltage

Output 12V voltage

<https://www.amazon.com/DROK-Boost-Converter-Regulator-Length/dp/B09M3LMSS3/>



<https://www.amazon.com/Voltage-Converter-Vintage-Indicator-80V-380V/dp/B09D93QNYK>

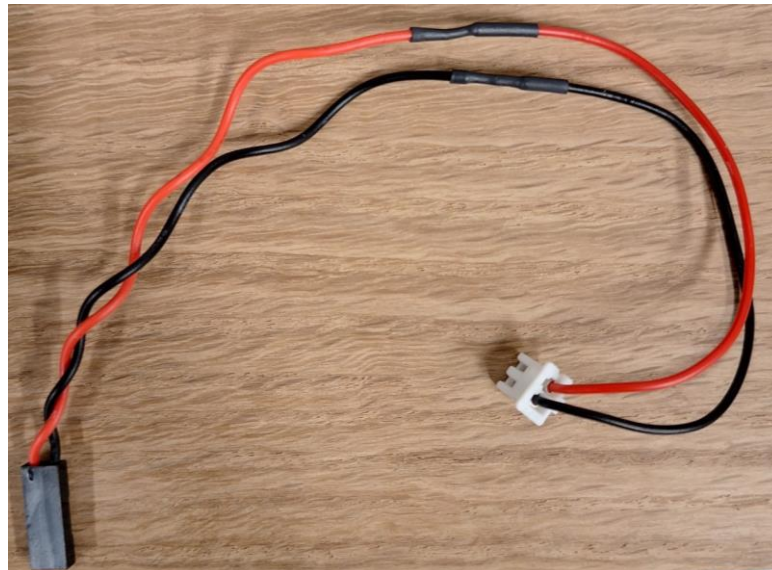
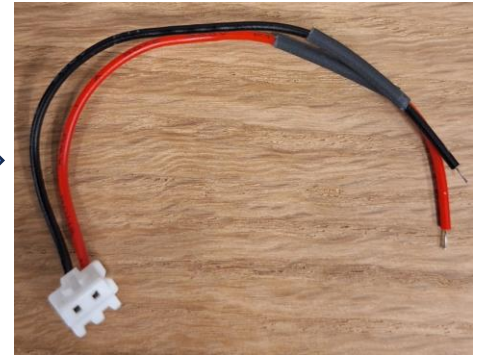
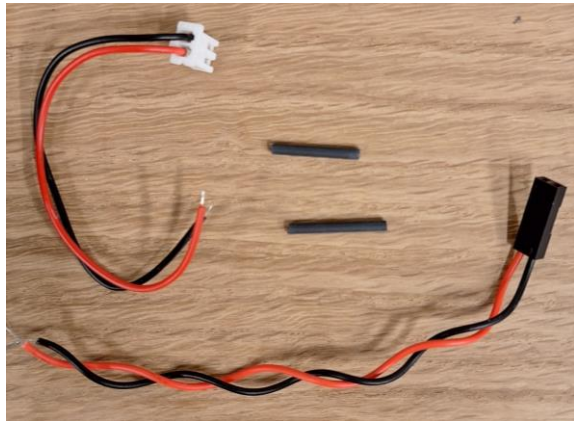


<https://www.amazon.com/ZYAMY-Dupont-Connector-Multicolor-Breadboard/dp/B0B8Z23NWX/>

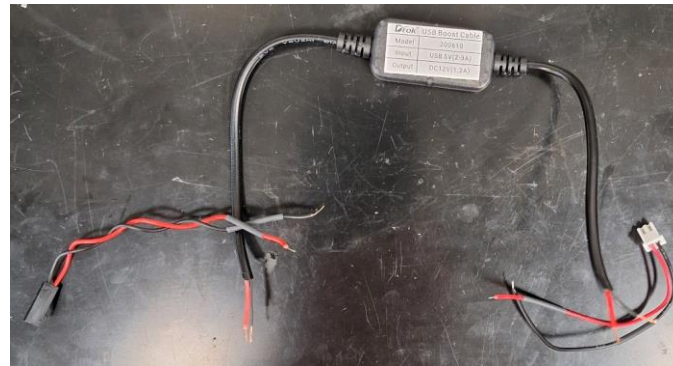
Tools and Consumables



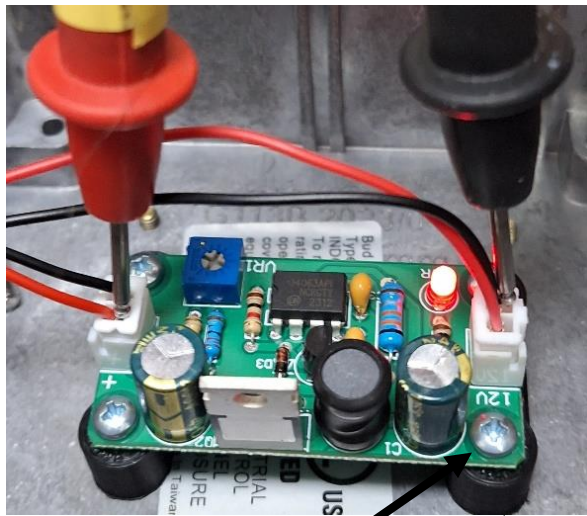
90 Volt to DB25 Relay Board Cable Assembly



5V to 12 V Cable Assembly

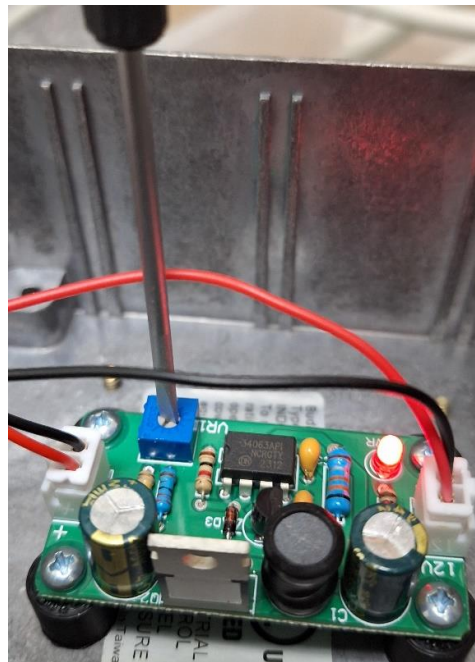


Setting the voltage output to 90V

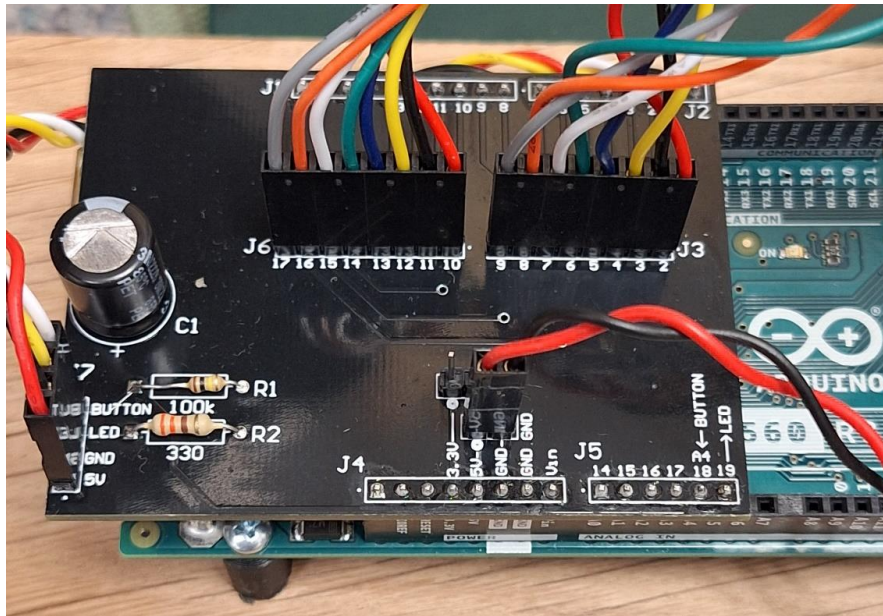


4-40 1/4" screws

HV-DCDC-bracket



Arduino UNO Shield Connection



5V to Boost