

Name _____ Lab Section _____ Date _____

Overview:

This laboratory experiment introduces soldering, soldering of electronics components, and culminates in the construction/assembly of an Adjustable Breadboard Power Supply kit.

Introduction:

Soldering is a process in which two or more metal items are joined together by melting and then flowing a filler metal into the joint. Soldering is used to form a permanent connection between electronic components. This laboratory exercise results in the assembly of an Adjustable Breadboard Power Supply kit.

Procedure:

1. View the You Tube video on “How to Solder Electronics” found at <https://www.youtube.com/watch?v=IpkkfK937mU>.
2. Visit the kit manufacturer’s website at <https://www.adafruit.com/products/184>.
3. Check the contents of the Adjustable Power Supply Kit that was provided with your lab kit to ensure all the components are included.
4. Visit the website at <https://learn.adafruit.com/adjustable-breadboard-power-supply-kit> and follow the instructions on assembling your Adjustable Power Supply Kit. Have your instructor check your assembled kit before applying power to it.

Instructor Initials: _____

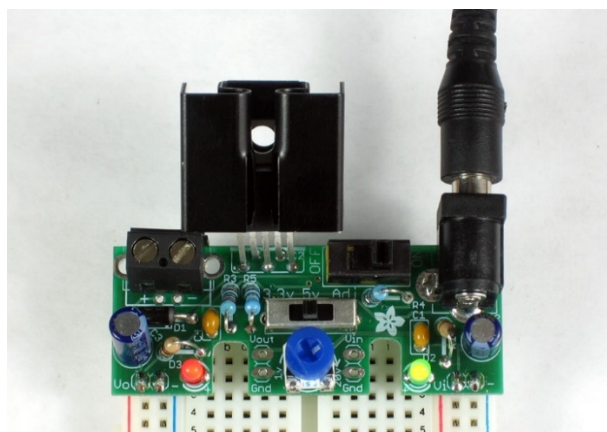


Figure 1. Assembled Adjustable Breadboard Power Supply Kit

5. Apply power to your assembled kit. Using a handheld digital multi-meter and the instructions on “How to Use” found in section 4, test and adjust the assembled kit to make sure it is functioning correctly.

Instructor Signature:		Date:	
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