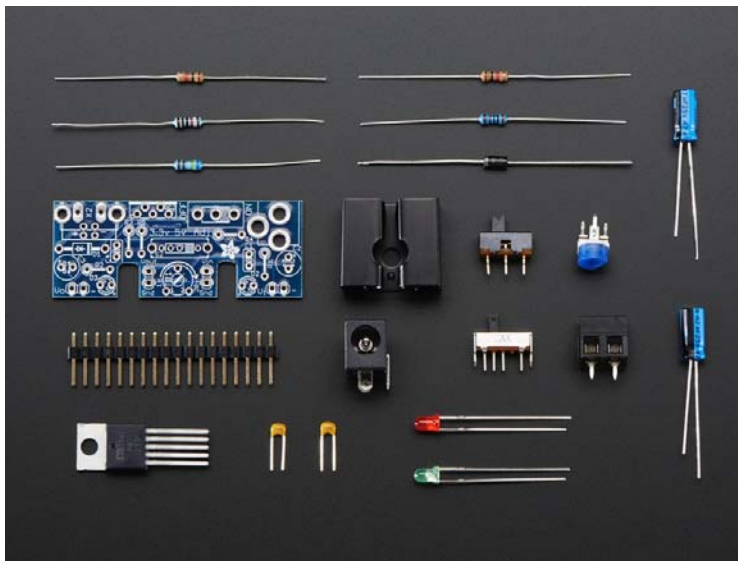




Adjustable breadboard power supply kit - v1.0

PRODUCT ID: 184



• Description

This kit is for making your own breadboard-friendly very low dropout adjustable power supply. A good power supply is essential to electronic projects. While there are many existing designs for adjustable power supplies, this one makes improvements that make it more useful for hobby designs

- o MIC2941 regulator has guaranteed 1.25A output
- o Low dropout, only 40mV - 400mV compared to 1.25V - 2.0V for LM317. This means you can use a wider range of output voltages including generating 3.3V from as low as 3.7V (such as 3 AA's or a lithium ion battery)!
- o Short circuit and overheating protection
- o Input diode to protect circuitry from negative voltages or AC power supplies.
- o 2.1mm DC jack and terminal connector for voltage inputs
- o Two indicator LEDs for high and low voltages
- o Output selection switch to select from **3.3v**, **5v** and **Adjustable** (also has a breakout for the voltage you're powering the board with)
- o Onboard potentiometer for adjusting voltage from 1.25V up to within 0.5V of the input voltage. (20V max)
- o On/Off switch for entire board
- o Heat sink included

Project kit comes as components to be soldered to the included PCB. It's not a difficult project, about 30-45 minutes with a soldering iron. Even beginners can make it! You'll need a soldering iron, solder, diagonal cutters and a PCB holder such as a helping hand tool. Breadboard and battery clip or DC power supply is not included, you can use any DC power supply with 2.1mm plug (we have a nice one in the shop).

- **Technical Details**

Details:

- o Dimensions(PCB only): 54mm x 21mm x 1.6mm (2.1in x 0.8in x 0.06in)
- o Dimensions(assembled): 54mm x 43mm x 16.6mm(2.1in x 1.7in x 0.6in)
- o Weight: 16g / 0.5oz

