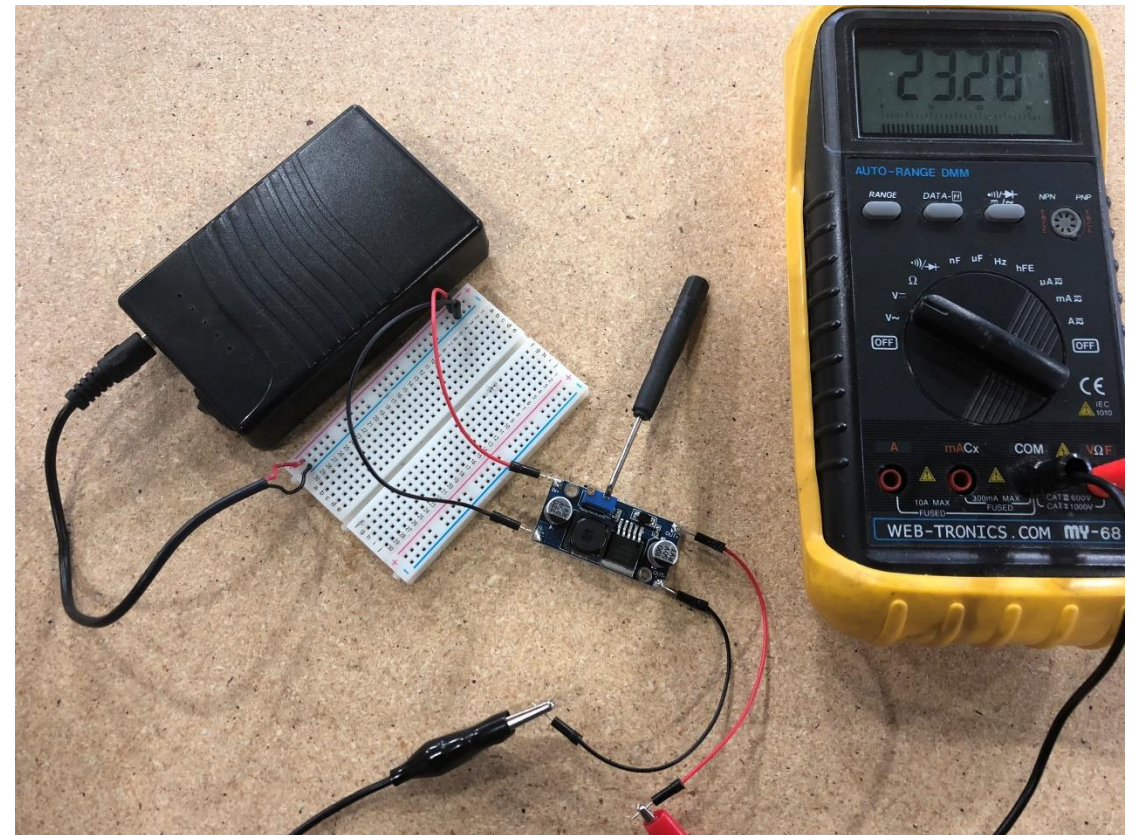# DC to DC Booster

Before you plug in your DC to DC booster you must adjust the output voltage by connecting your booster to a multimeter. Ensure your wires are connected correctly. The IN is connected To your 12V power supply and the OUT is connected to the multimeter.
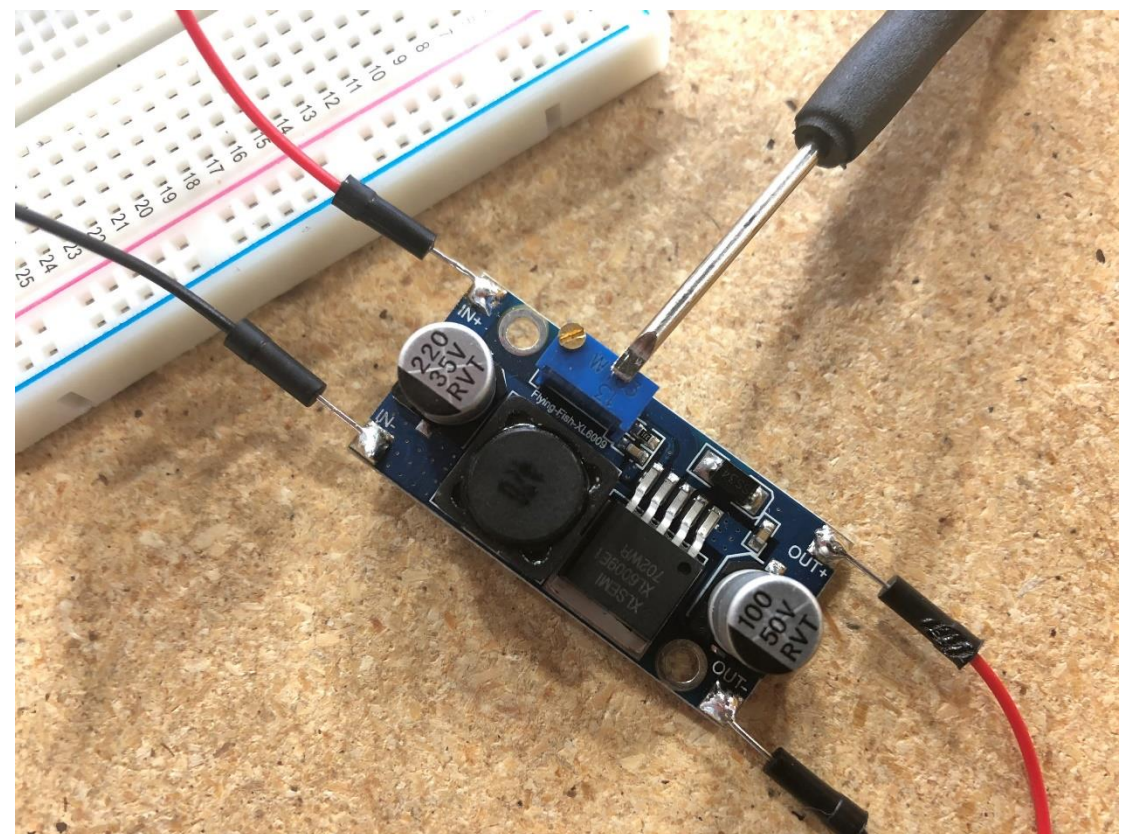
Double check polarity. Booster is clearly labeled (+/-) RED wire for + and BLACK for -

Set your multimeter to measure DC Voltage (SYMBOL BELOW)

$$\overline{\underline{\mathrm{V}}}$$

Turn 12V power supply ON and using a flat head screwdriver adjust potentiometer until multimeter reads 18V-24V **(NO MORE THAN 24V)** Once booster is set, turn power supply off and multimeter off and disconnect booster from multimeter.
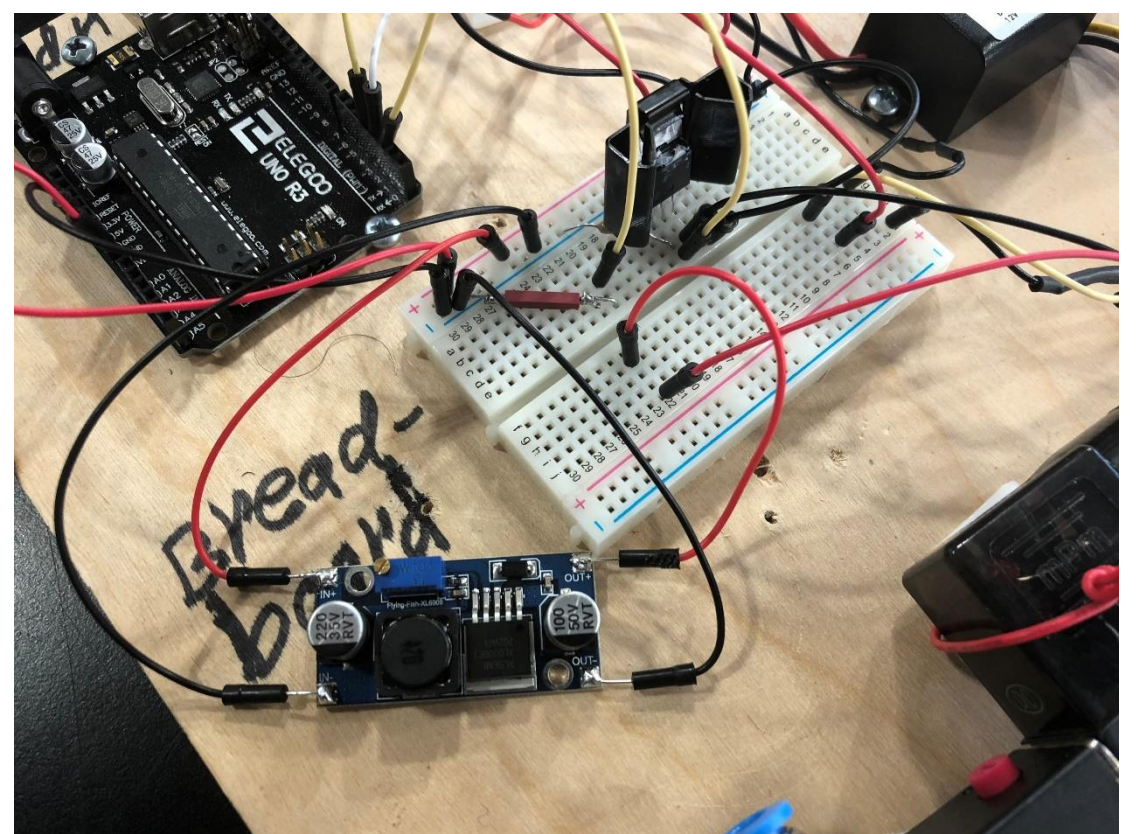

Plug booster into breadboard connecting the solenoid positive to booster output positive and booster output ground to breadboard ground. Please see diagram on next page for clarification.

Adjustable potentiometer

Input+   IN+

output+   OUT+

Input-   IN-

output-   OUT-

Warning:

The input voltage should NOT be over 30 V to avoid any possible damage

If you have any questions or concerns please E-mail a TA or Lab Tech or see us during open lab hours.

Reed Switch

Solenoid

DC to Dc Booster

12vdc IN+/-

24vdc OUT+/-

R1
10kΩ

NPN

12VDC Battery Supply

itzing