



**Solder a positive to 5V and a GND to one of the GND perf the non used one this is to power the Arduino Uno**

**X=** Blue X is a not needed but can be used if you want to would go to the other ground on arduino with blue X

#### Power

The Arduino Uno can be powered via the USB connection or with an external power supply. The power source is selected automatically.

External (non-USB) power can come either from an AC-to-DC adapter (wall-wart) or battery

The board can operate on an external supply of 6 to 20 volts. If supplied with less than 7V,

however, the 5V pin may supply less than five volts and the board may be unstable.

If using more than 12V, the voltage regulator may overheat and damage the board.

The recommended range is 7 to 12 volts.

#### The power pins are as follows:

**VIN.** The input voltage to the Arduino board when it's using an external power source (as opposed to 5 volts from the USB connection or other regulated power source).

You can supply voltage through this pin, or, if supplying voltage via the power jack, access it through this pin. 5V. This pin outputs a regulated 5V from the regulator on the board.

The board can be supplied with power either from the DC power jack (7 - 12V), the USB connector (5V), or the VIN pin of the board (7-12V). Supplying voltage via the 5V or 3.3V pins bypasses the regulator, and can damage your board. We don't advise it.

**3V3.** A 3.3 volt supply generated by the on-board regulator. Maximum current draw is 50 mA. **GND.** Ground pins.

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