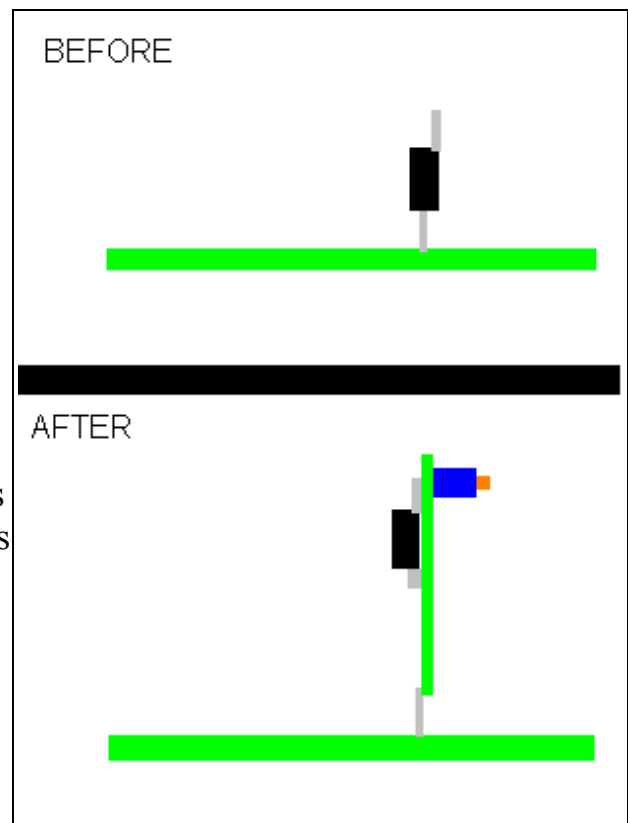


7805 to LM317 Adaptor Board

This PCB was designed so that an adjustable voltage regulator can be used to replace a fixed voltage regulator. The resistor values are chosen so that +5V can easily be dialed in.

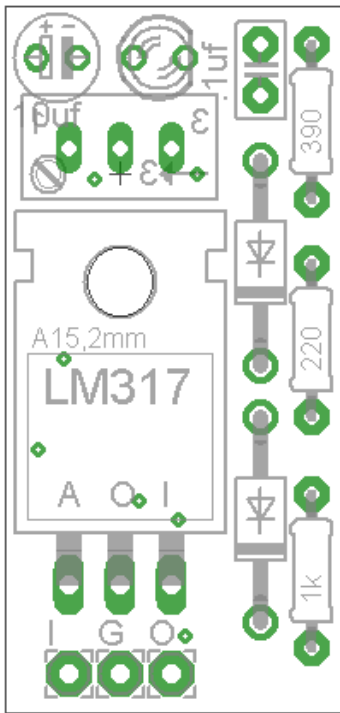
The PCB is 17mm x 35mm. To install it, stuff the board, then desolder the 7805 regulator on your PCB board and use thick solid wire (or clipped leads from the diodes you installed on the PCB) to wire the PCB's three wiring pads in place where the 7805 was. Then adjust the trimpot to get +5V.



Parts List

Value	Quantity	Notes
LM317	1	TO-220 Package
LED	1	3mm
10UF Cap	1	Electrolytic

.1uf Cap	1	Ceramic
1N4007 Diode	2	
1K Resistor	1	For current limiting on LED
220 Resistor	1	R1 in formula (see LM317 Datasheet)
390 Resistor	1	R2 in formula (see LM317 Datasheet)
5K trimpot	1	R2 in formula (see LM317 Datasheet)



On the left is the board's layout. Below is a photo of a prototype PCB attached to a BMC001 Simple Quantizer to get a fine-tuning control for the pitch.

The anode (longer leg) of the LED should be on the side next to the capacitor.

