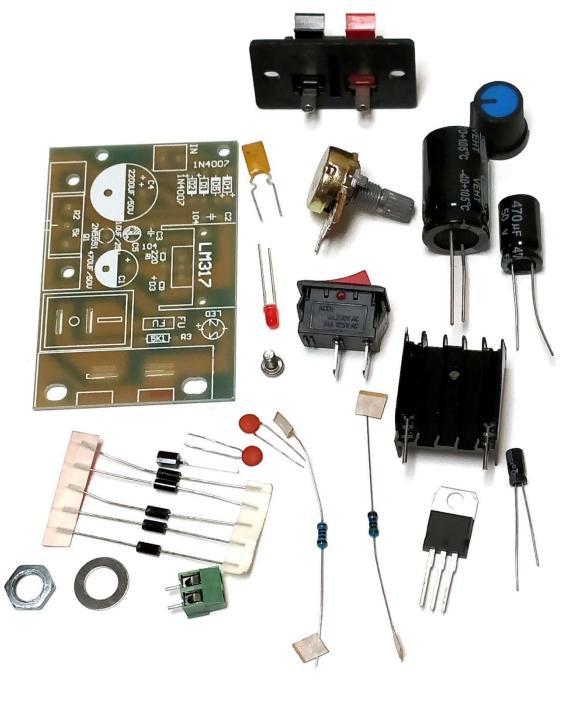
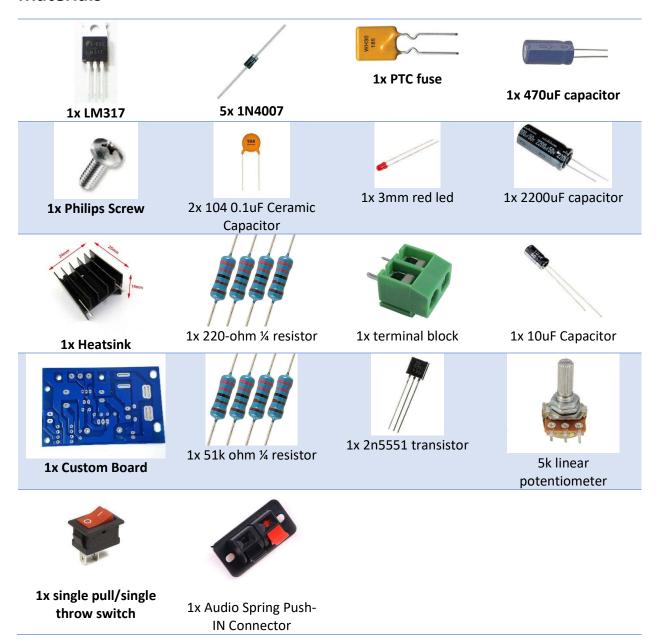
30VDC Power Supply D.I.Y KIT





Materials



Assembly Instruction – Basic

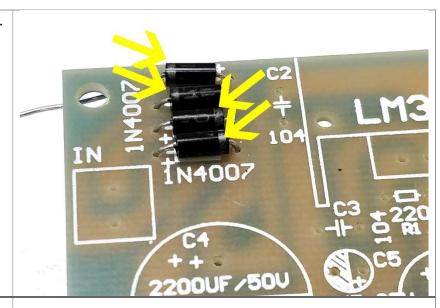
Soldering the components from lowest height to largest height. They are listed as follows;

Diodes, Ceramic Capacitors, Resistors, Led, 10uF Capacitor, Transistor, Terminal block, Fuse, 470uF Capacitor, Potentiometer, Switch, 2200uF capacitor, Spring loaded audio connector.

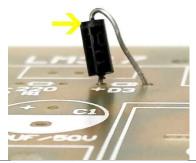
To solder the LM317, <u>you must first fasten the unit to the heat sink using a Philips screw</u>, then insert into the custom board and proceed to solder the regulator. Use flush cutters to cut off excess leads on the other side of the board.

Assembly Instruction – Detailed

Solder the diodes as shown.
The white line must match
the board white line
markings.



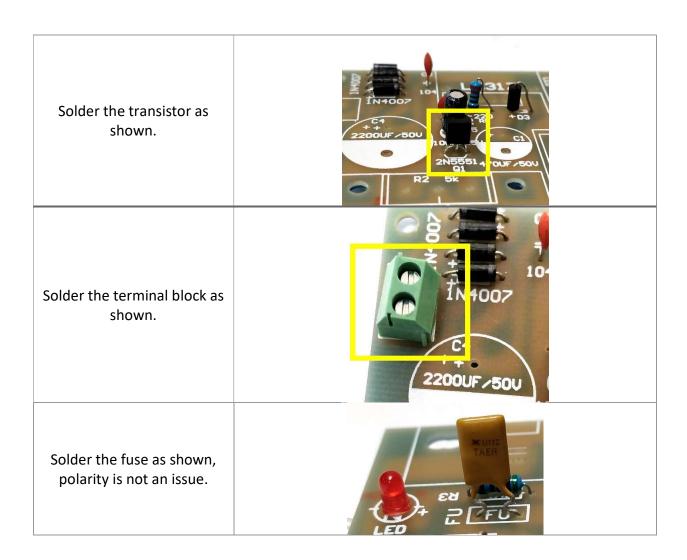
Solder the last diode at an angle as shown in the photo. Ensure that the white band is facing away from the pad that has + symbol written on it.

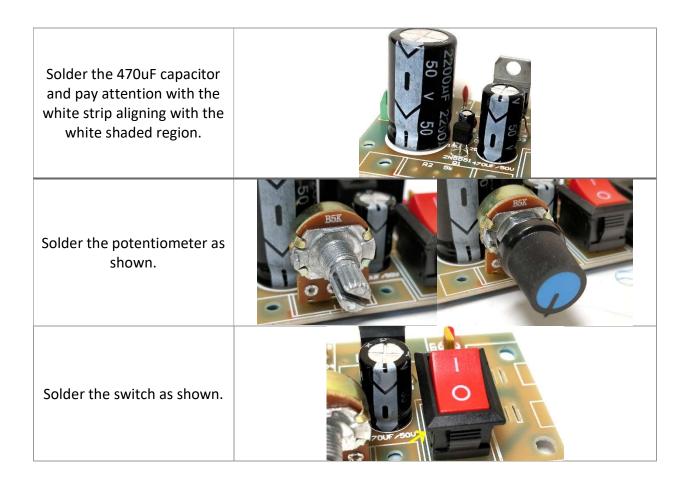


Solder the capacitors as shown, polarity is not an issue.



Solder the resistors in the correct order. 51k is identified as green, brown, black, brown, brown. Whereas 220 is identified as red, red, black, black brown. Solder the led with the flat side facing the opposite direction of the + symbol on the board. You can also identify it by looking through the led and locating the large plate as cathode (-). Solder the 10uF capacitor with the white band facing the white shaded region of the capacitor.





Solder the 2200uF capacitor as shown with the white strip aligning with the white shaded region on the board. Solder the spring loaded terminal connector as shown. Fasten the Philips screw to the LM317 and heatsink. Solder the heatsink and LM317 to the board.