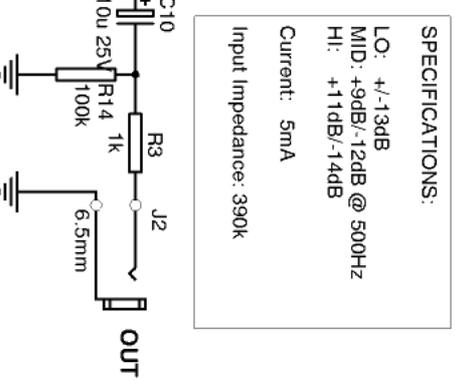
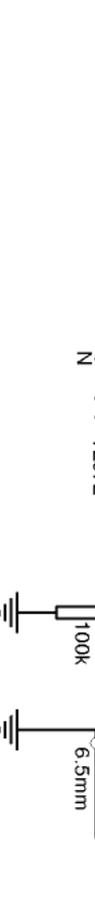
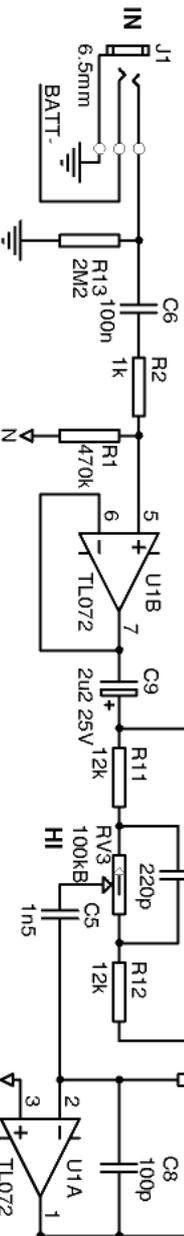
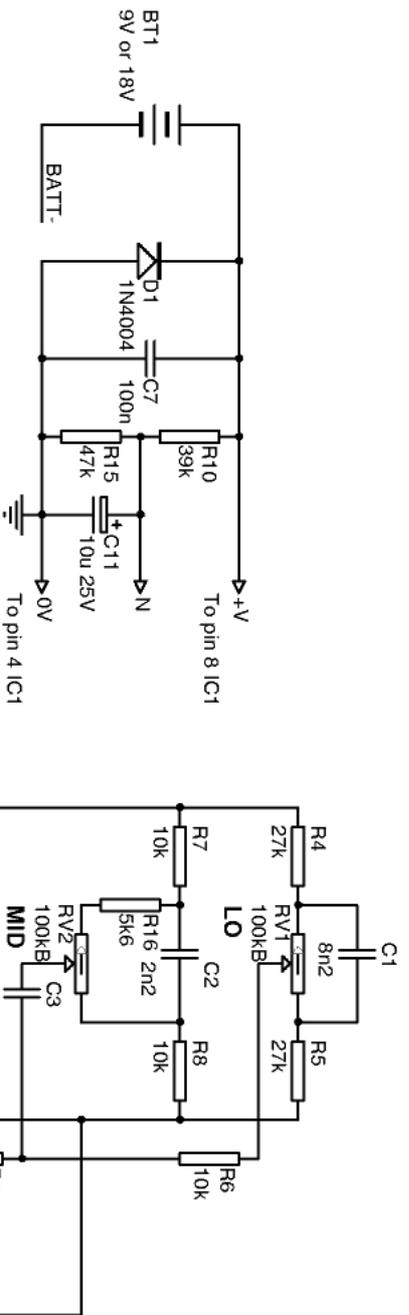


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SPECIFICATIONS:
 LO: +/-13dB
 MID: +9dB/-12dB @ 500Hz
 HI: +11dB/-14dB
 Current: 5mA
 Input Impedance: 390k

MODS:

I strongly suggest using the specified opamp. Do not use low-power opamps as these will be a little noisy in the circuit as shown.
 I suggest you try the next higher and lower cap value for the HI cap (C5) to see what is preferable to you. If you are keen to tune the circuit in for your bass you can also try doing the same thing to the other caps: C4, C1, C2, C3 roughly in that order. You can of course make larger changes. Please email your mods and I will add a table to this schematic showing your name, type of bass (es) and the cap values. (Email: basspreamp@yahoo.com)

INTRODUCTION:

This circuit is based on a modified version of Dennis Bohn's 3-band Equalizer published in National Semiconductor's Audio Handbook (1976).
 The modification is the addition of a resistor between the HI band and the MID and LO band circuits. The modification has a number of benefits, such as: reducing the affect of the LO and MID controls on HI band, improved MID band shape and Q control, and increased input impedance. The response is substantially the same as a two-stage series circuit.
BASS PREAMP:
 The circuit seemed a good candidate for use as a 3-band bass preamp. Given there aren't too many of these available on the internet I thought I would put one together using the new circuit. The circuit shown is for an outboard preamp with a 3-band EQ, and is otherwise similar to the commercial inboard active electronics used in modern basses.
 To make it easy to build I've specifically designed the circuit to reduce "baggage" which keeps the component count down.

The EQ frequencies were chosen for use as Bass guitar active electronics. Due to differences in preference or equipment it is inevitable that some people may want to change these frequencies. The HI control frequency varies considerably between commercial Basses/preamps. Some HI controls affect upper mid frequencies whereas others operate at quite high frequencies. The HI frequencies chosen in the circuit shown are fairly transparent.

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Title			
Bass Preamp 3-Band			
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