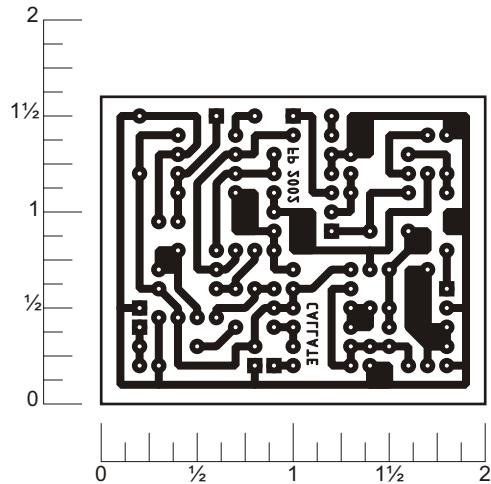
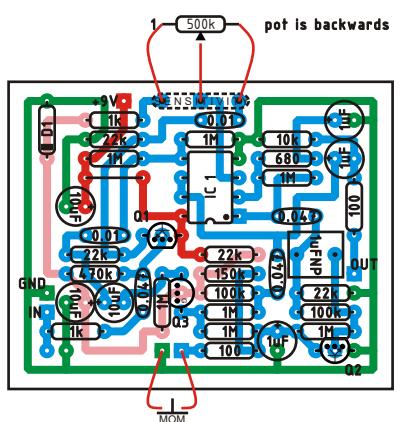


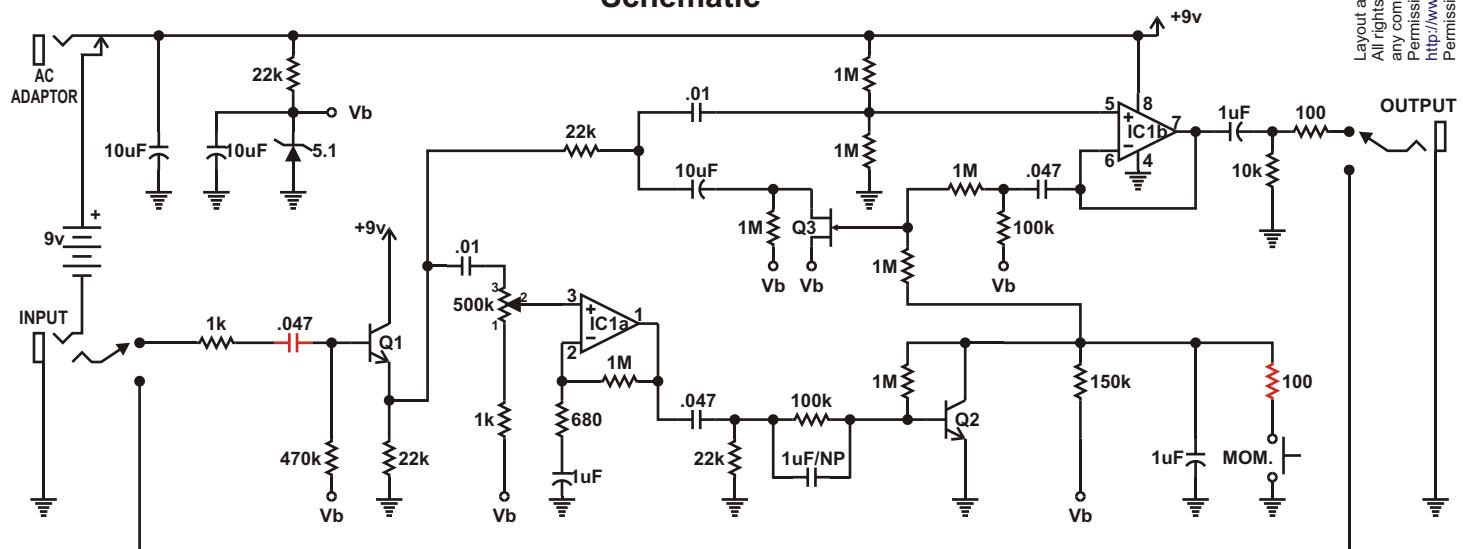
Build the MXR Noise Gate, this circuit will mute the output when the input is below the threshold level set by the potentiometer, removing noise while not playing. The part labeled "MOM" is a normally open momentary switch, when conducting it momentarily defeats the noise gate (opens the gate no matter what the input is) which works like bypassing it, if this function is not required or when using true bypass the switch and associated 100ohm resistor can be left out. Off board components except for the potentiometers are not shown on the layout. Trademarks are property of their owners.



Parts List

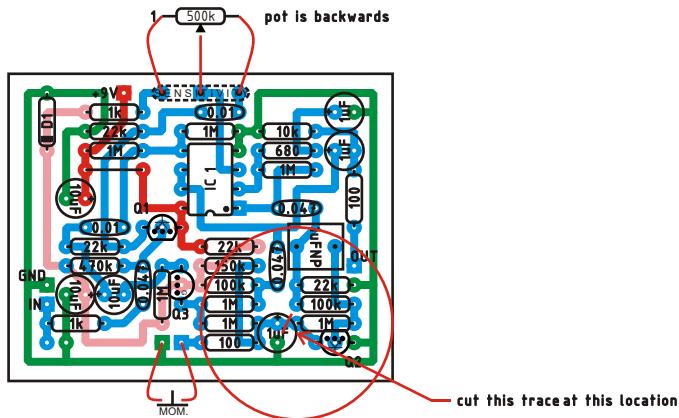
Resistors	Capacitors	Pots
7 - 1M	3 - 10 μ F	1 - 500k Log.
1 - 470k	3 - 1 μ F	
1 - 150k	1 - 1 μ F / NP	
2 - 100k	3 - 0.047 μ F	
4 - 22k	2 - 0.01 μ F	
1 - 10k		
2 - 1k		
1 - 680		
2 - 100	1 - 2N5952 (other FETs will work)	
	IC1 - 4558	

Schematic



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Mods for the MXR Noise Gate. These mods are NOT verified, they've only been simulated in the computer, proceed at your own risk.



NOTES:

These mods require cutting traces, soldering to the back of the board and/or soldering to flying leads.

Attack:

Use a 5k or 10k linear pot. (larger resistance=longer attack time)

This mod needs cutting the trace from Q2 collector as shown in the layout image, and 'insert' the pot wired as a variable resistor between the two sides of the cut as shown on the schematic.

Release:

Use a 250k or 500k linear pot. (larger resistance=longer release time)

This mod can be done by lifting one of the 150k resistor's ends and wiring the pot as a variable resistor as shown on the schematic.

The value of the 150k resistor can be lowered to get faster release times.

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Schematic (attack and release controls added)

