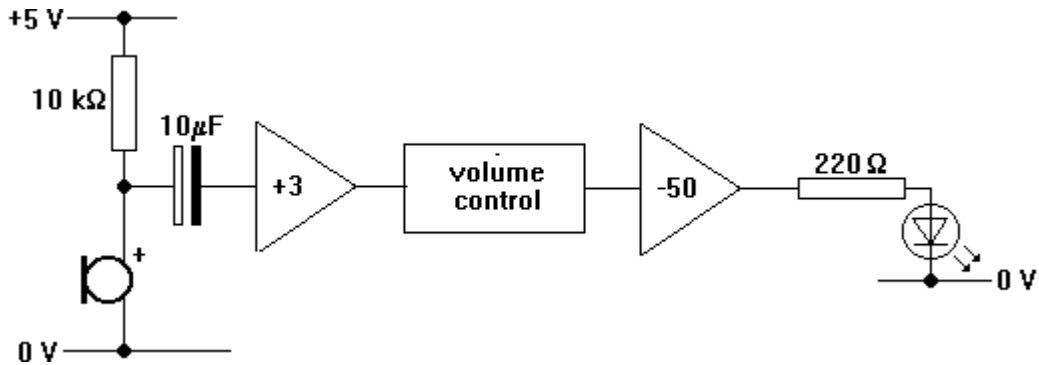


Designing a sound-to-light converter

The circuit diagram of this circuit is shown below. The LED should glow when enough sound enters the microphone. You will design and test circuits for the blocks.



1. Design circuits for the non-inverting amplifier, the volume control and the inverting amplifier.
2. Assemble each circuit separately. Test the behaviour of each one with a signal generator and an oscilloscope.
3. Add the microphone input and the LED output to make the whole circuit. Check that it functions as specified.