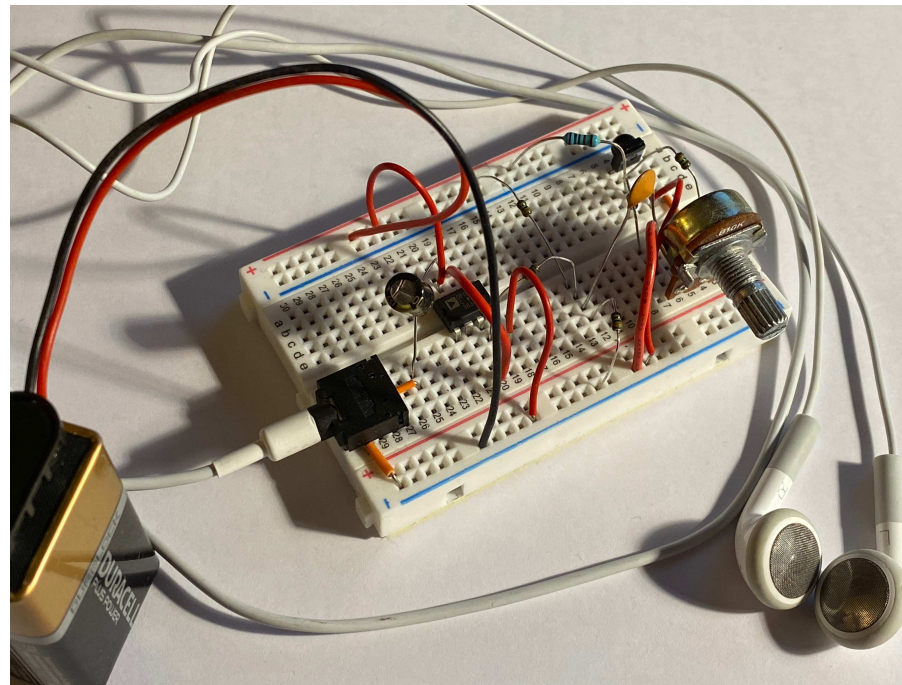


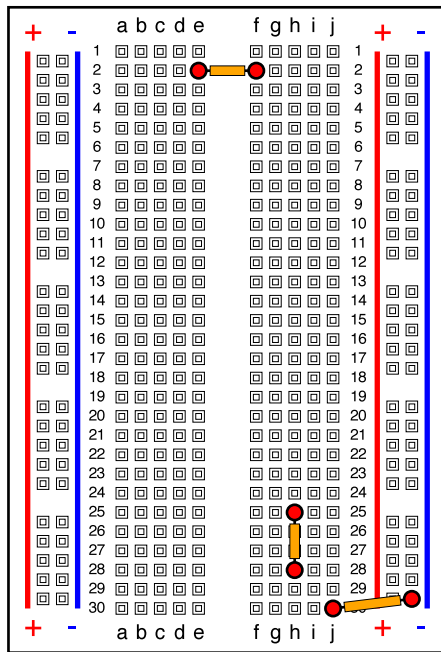
THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

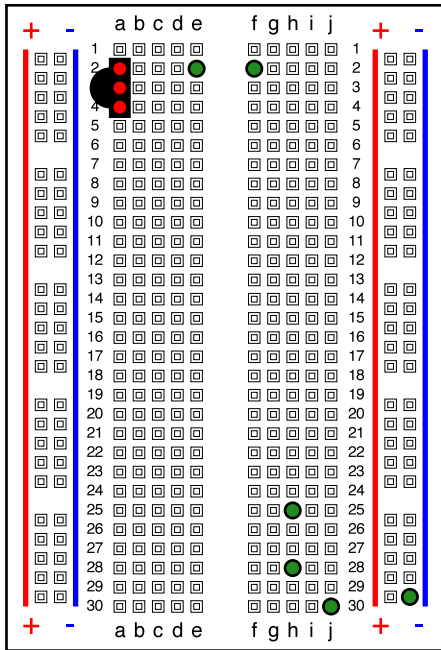


Insert three wire links.

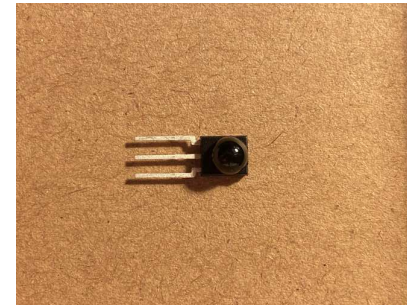


THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



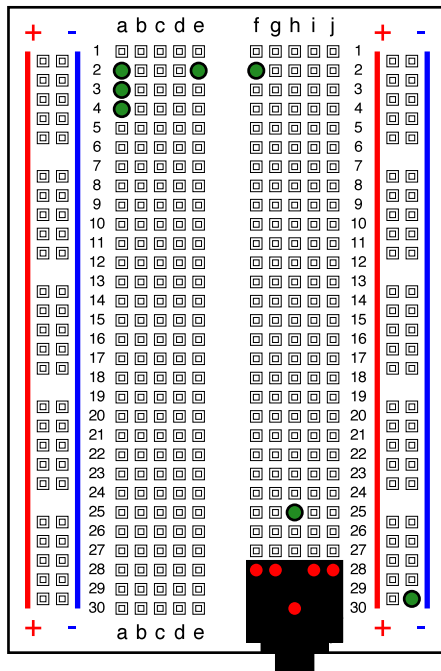
Insert the sensor.



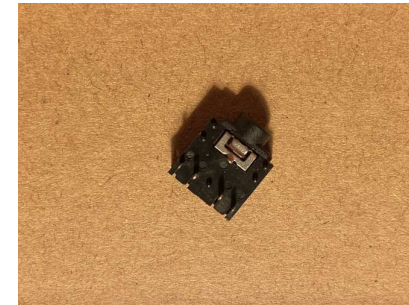
Make sure the lens (bump) faces outwards

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

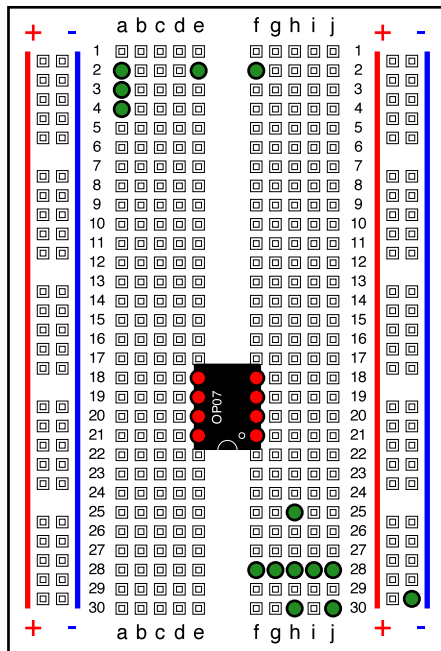


Insert the socket.

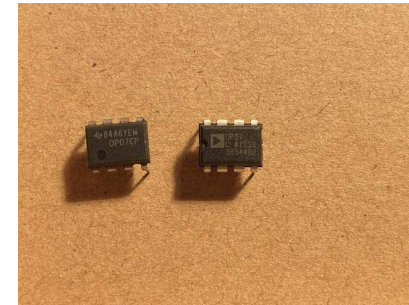


THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



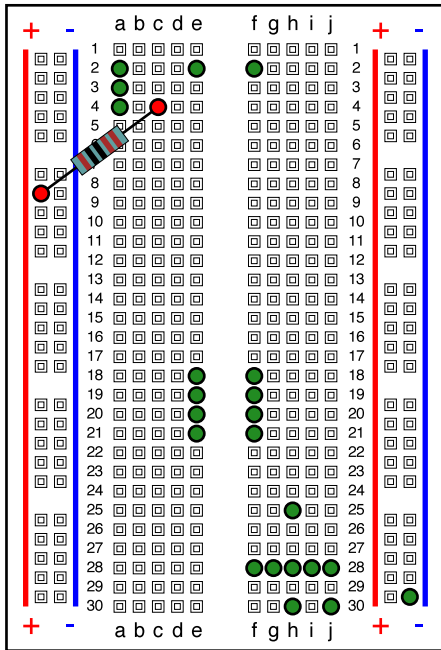
Insert the amplifier chip.



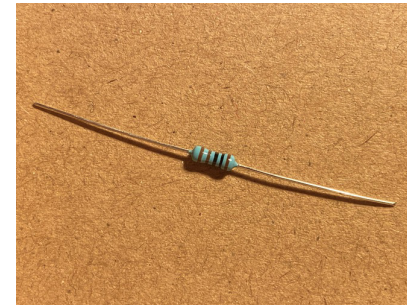
Check the orientation is correct.

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

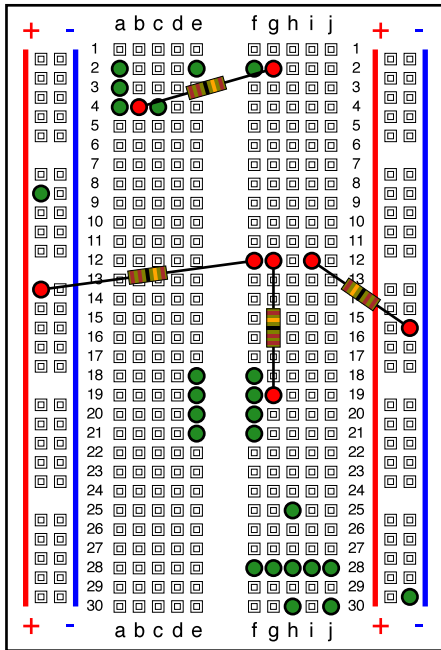


Insert the large, 1k resistor.

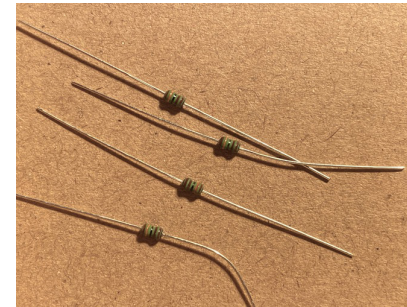


THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



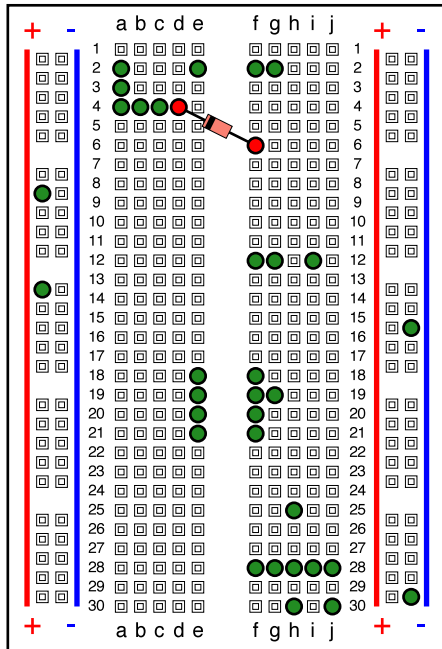
Insert the four small, 110k resistors.



Step 6 of 12

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



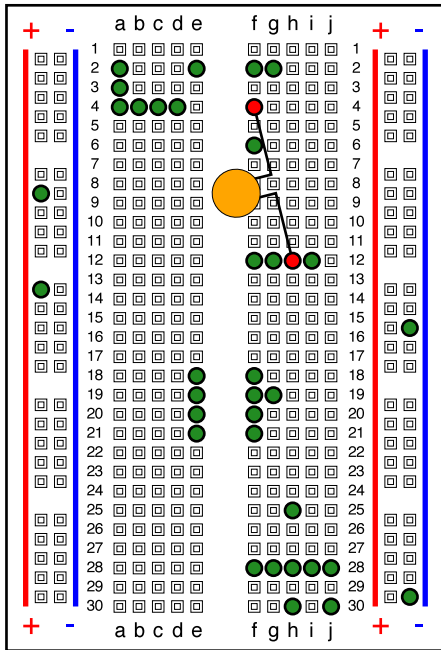
Insert the zener diode.



The black band should be connected to the sensor.

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

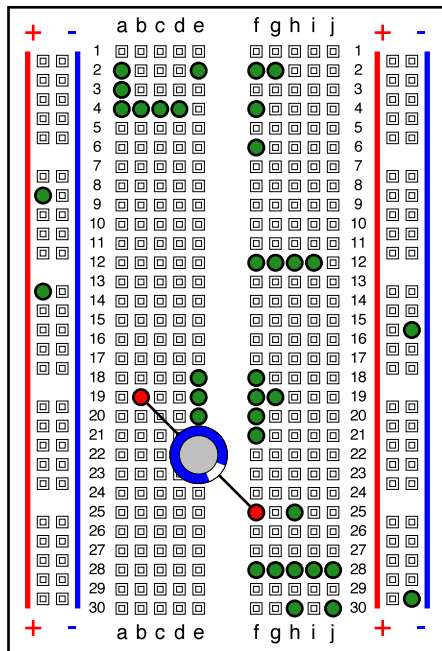


Insert the ceramic disc capacitor.

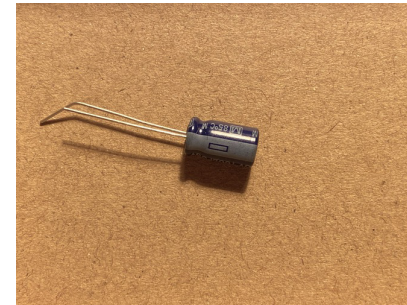


THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



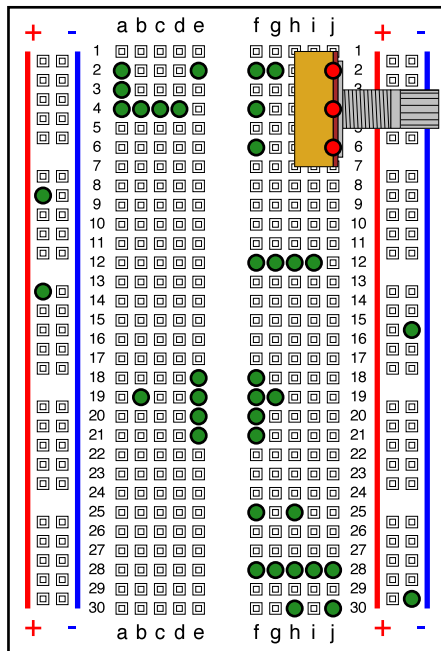
Insert the electrolytic capacitor.



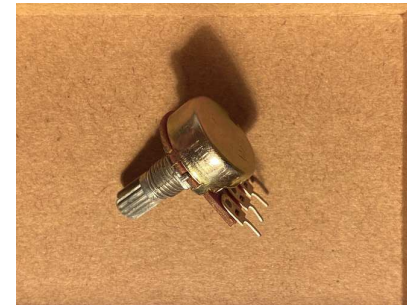
The white band (-) should be connected to the socket.

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



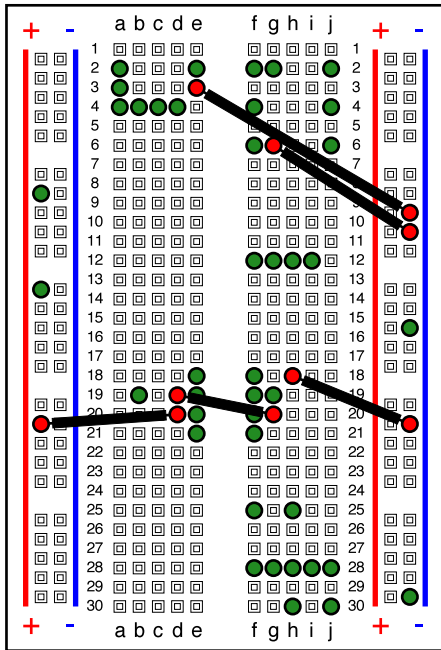
Insert the potentiometer.



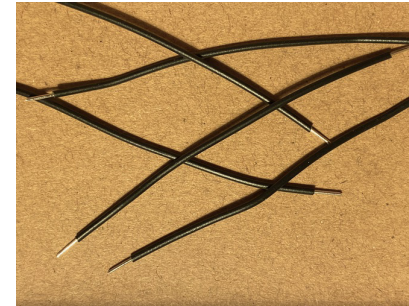
Step 10 of 12

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

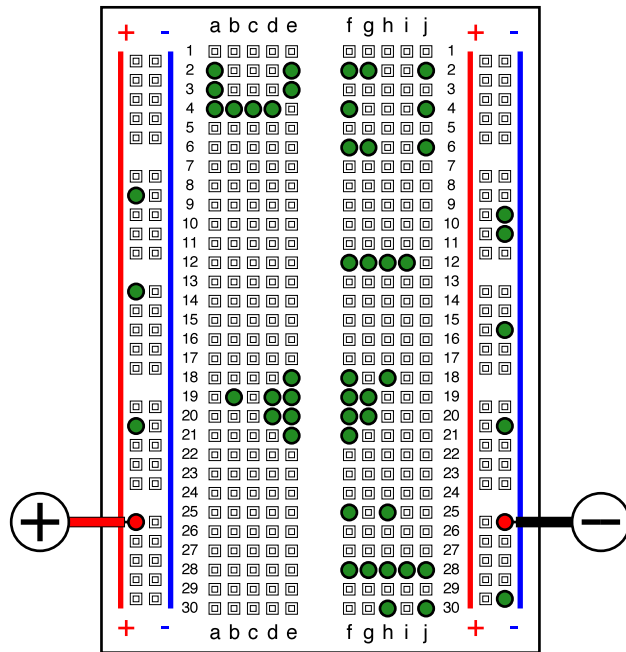


Insert the five long wires.



THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION



Connect the battery clip.



Make sure it is the right way round!

THE BLOOMSBURY GROUP

IR DETECTOR ASSEMBLY INSTRUCTIONS — BREADBOARD VERSION

The detector is now ready to use. Connect headphones then plug in a 9V PP3 battery. Hold the detector by the battery with the headphone jack pointing towards you.

Take care not to dislodge any connections when transporting the detector. You might find it useful to keep these instructions nearby for field repairs.

When you have finished with the detector please disassemble it and return it to ammo can from whence it came.

Good luck!