



# How to Test Speakers and Wires

This guide will demonstrate two techniques for testing the speakers and the wires for functionality.

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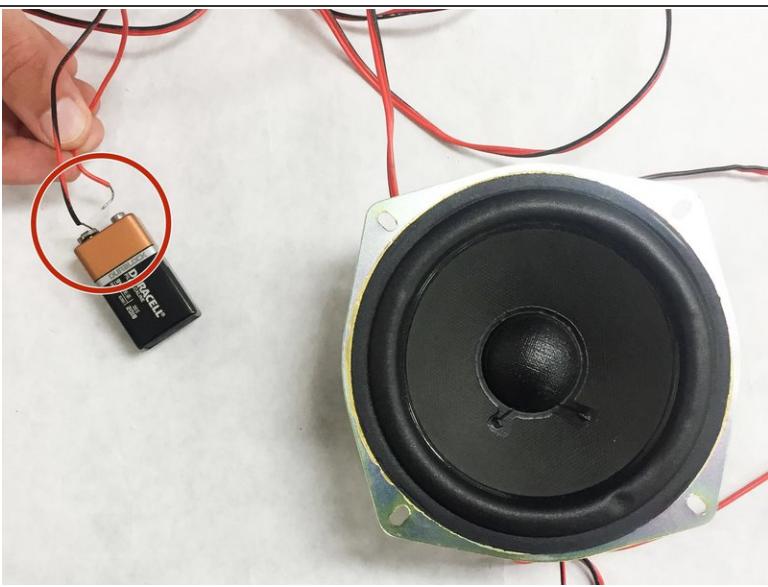
## INTRODUCTION

This guide uses a 9 volt battery and a digital multimeter to test the functionality of the speakers and the wires.

### **TOOLS:**

- [9 Volt Battery](#) (1)
- [Digital Multimeter](#) (1)

## Step 1 — How to Test Speakers and Wires



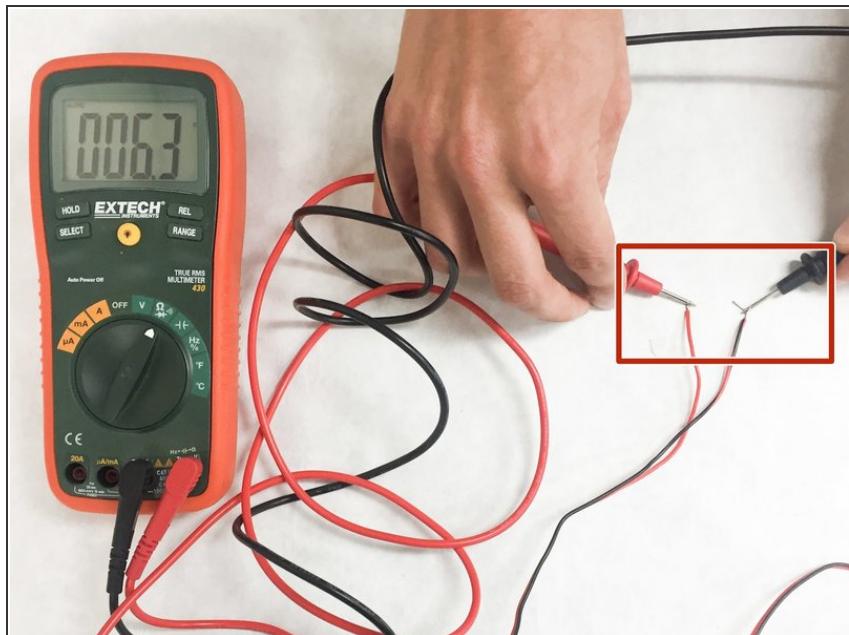
- Speaker Testing Option 1: Connect a 9 Volt battery to the leads of the speaker, positive lead to positive battery end and negative lead to negative battery end.
  - ⓘ If a pulse is generated in the speaker then the speaker is still functioning properly.
  - ⚡ This same practice would apply to the tweeter speaker as well.
- ⚠ Do not keep the 9 Volt battery connected to speaker for an extended period. It could cause damage to the speaker.

## Step 2



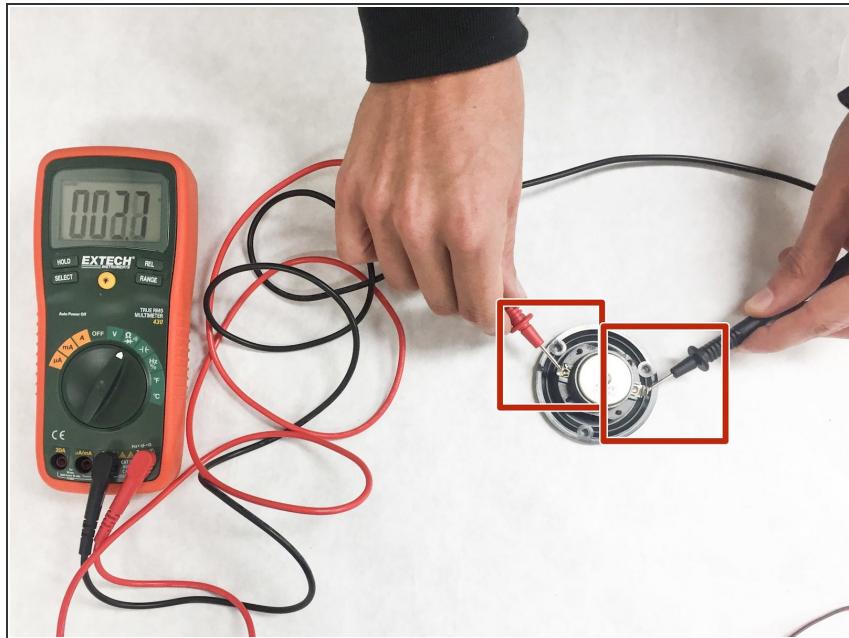
- Speaker Testing Option 2: This option requires the use of a digital multimeter that has a continuity setting.
- This setting is typically found under the resistance setting but may have its own setting as shown in the picture.

## Step 3



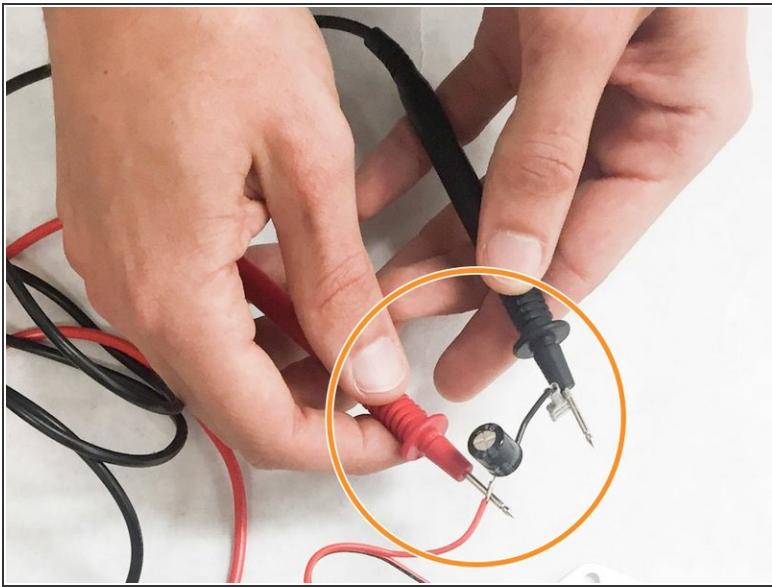
- To test the continuity of the wires themselves and both ends of a single wire and test the continuity.
- Connect each end of the single wire to the positive and negative leads of the multimeter. If there is an unbroken circuit through the speaker there will be a continuous tone output from the multimeter and/or the meter will not read "OL" (open).

## Step 4



- Connect both ends of the speaker to the positive and negative leads of the multimeter. If there is an unbroken circuit through the speaker there will be a continuous tone output from the multimeter and/or the meter will not read "OL" (open).

## Step 5



- Capacitor Testing: This will require a digital multimeter with a capacitance testing option.
- Connect the positive lead of the multimeter to the positive lead of the capacitor, and vice versa for the negative. If the capacitor is functioning the multimeter will give a reading that is similar to the ratings given on the capacitor casing.

**(i) NOTE:** If the capacitor reading is -5% of its given base rating then the capacitor is consider bad.

To reassemble your device, follow these instructions in reverse order.