

- PARTS LIST AND BUILD LIST ENTRY INFO - ELECTROMAGNET BUILD CHALLENGE 2024

PLEASE WATCH THE “BUILD INSTRUCTIONS” VIDEO FOR MORE INFORMATION.

The MAIN COMPONENTS you will need to complete the build portion of the challenge are listed below. ***Please see CAUTION NOTES below before building****

1. Power source: You can use either a AAA, AA, C or D sized battery (1.5V).
2. Wire: You can use magnet wire, stranded, or solid wire (~18 to 24 AWG)
3. Iron core: You can use a construction nail or similar item (see EBC video for example)
4. Magnetic material: You will need to have items to test the magnetic field produced by your electromagnet. See video for examples.

UPLOADING YOUR ELECTROMAGNET IMAGE AND PERSONAL INFORMATION:

1. Take a picture of your electromagnet working, for example, holding up a paperclip or other magnetic material.
2. On the EBC 2024 website, click on the button: “Join The Build List”.
3. On the build list page, click “Submit Your Build Picture”.
4. Fill out the form with your basic info (as desired), and upload your picture.
5. Click “submit my electromagnet picture” to complete the submittal process.

A FEW NOTES ABOUT YOUR BUILD ENTRY:

1. Only your first name and first letter of your last name appear on the build list.
2. Please allow up to 24 hours for your entry to be added to the build list.

CAUTION: DO NOT KEEP THE WIRE CONNECTED TO THE BATTERY FOR MORE THAN A FEW SECONDS AT A TIME, AS THE WIRE WILL BEGIN TO GET HOT!!!

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