Sntieecr D-008C

Sntieecr 131-Piece DC Motors Kit Instruction Manual

Model: D-008C

1. Introduction

The Sntieecr 131-Piece DC Motors Kit is designed to introduce children aged 8 and up to basic electrical circuits and mechanical principles through hands-on experimentation. This comprehensive kit encourages exploration of scientific concepts, fostering creativity and problem-solving skills. It includes a variety of components for building simple circuits and motorized projects.

2. Safety Information

WARNING: CHOKING HAZARD—Small parts, not for children under 3 years.

- Be careful of scald caused by short circuit.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.
- This kit must be used under the supervision of adults.
- Ensure all circuits are connected correctly before applying power to prevent short circuits and potential overheating.



Figure 2.1: Important safety warnings and usage guidelines.

3. Kit Components

The Sntieecr 131-Piece DC Motors Kit includes the following items:

- 6 x DC Motors (1.5-3V, 15000RPM)
- 6 x Battery Holder Cases (for AA batteries)
- 6 x Rocker Switches
- 6 x Motor Mounting Brackets
- 12 x Electronic Wires (3.92 inches)
- 1 x Heat Shrink Tube (40cm, 3mm diameter)
- 66 x Plastic Gears (various sizes)
- 6 x Shaft Propellers with 4 Vanes
- 6 x Shaft Propellers with 3 Vanes
- 5 x Bulbs
- 3 x Bulb Holders
- 3 x Buzzer Sounders
- 5 x Crocodile Clip Leads



Figure 3.1: Overview of all included components in the kit.



Figure 3.2: A closer look at the various circuit accessories.

4. Setup and Basic Circuit Assembly

4.1 Battery Installation

Each battery holder requires 2 AA batteries (not included). Ensure batteries are inserted with correct polarity (+/-) as indicated inside the holder. Do not mix battery types or old and new batteries.

4.2 Connecting Components

Use the electronic wires and crocodile clip leads to connect components. Always ensure connections are secure to prevent intermittent operation or short circuits.

- **Motors:** Connect the two wires from the DC motor to a power source (battery holder) or through a switch.
- **Bulbs:** Insert bulbs into the bulb holders. Connect the bulb holder's terminals to a power source.
- **Buzzers:** Connect the buzzer's wires to a power source.
- **Switches:** Integrate a rocker switch into the circuit to control the flow of electricity, turning components on or off.

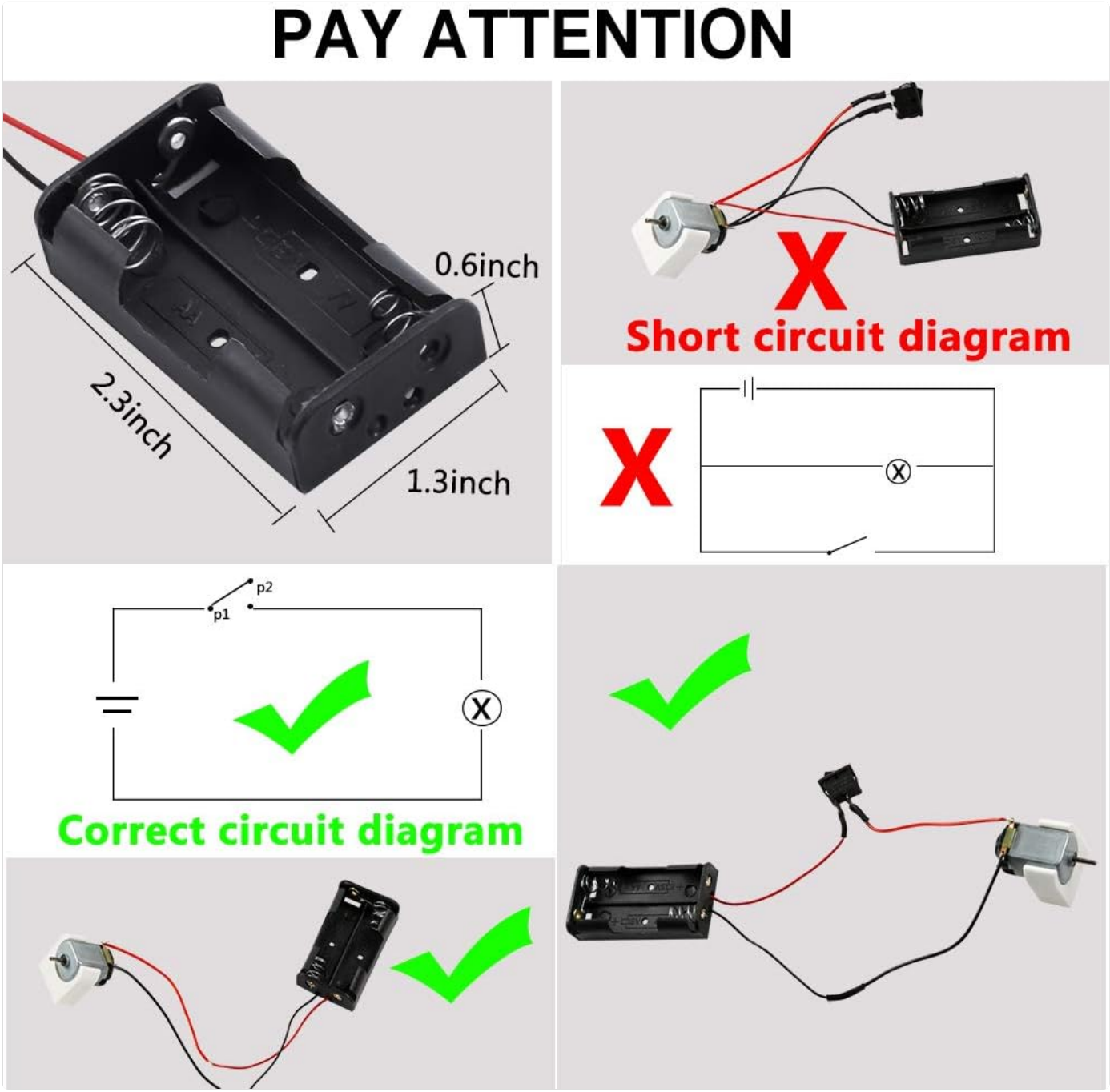


Figure 4.1: Correct and incorrect circuit diagrams. Always follow the correct diagram to prevent short circuits.

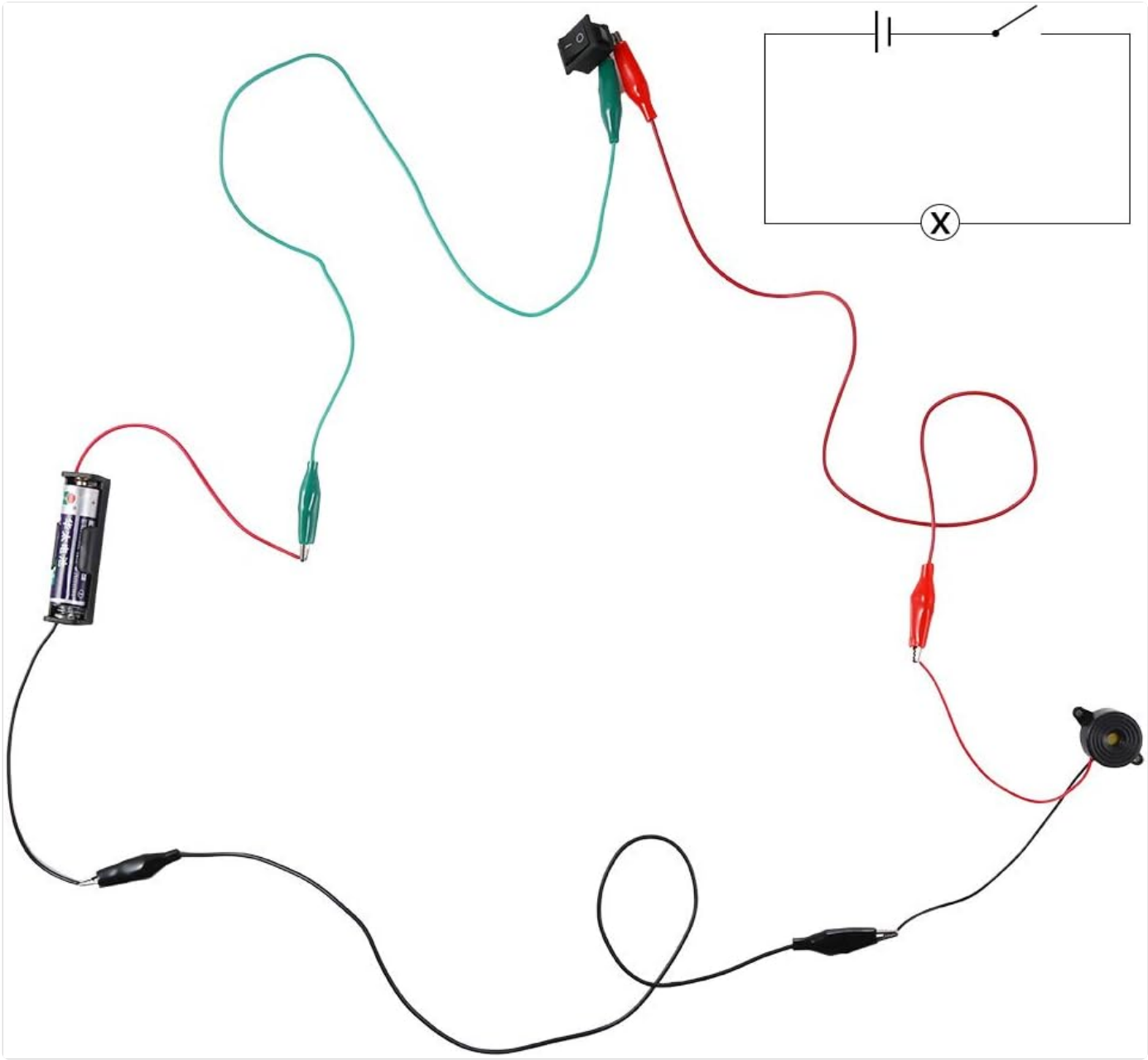


Figure 4.2: A basic circuit setup using a battery, switch, and buzzer.

5. Operating Instructions

Once your circuit is assembled, ensure all connections are firm. Flip the rocker switch to the 'ON' position to activate the circuit. Observe the motor spinning, the bulb lighting up, or the buzzer sounding.

5.1 Experimenting with Gears and Propellers

Attach different plastic gears to the motor shaft to explore gear ratios and speed changes. Mount propellers onto the motor shaft to create fans or simple propulsion systems for DIY projects.



Figure 5.1: Example of a simple fan-powered car project.



Figure 5.2: A bulb illuminated by a circuit.

5.2 Video Demonstrations

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Video 5.1: Demonstration of basic circuit assembly and motor operation (0:56).

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Video 5.2: Example of a simple project using the kit components (0:20).

6. Maintenance

- Store all components in a dry, cool place away from direct sunlight.
- Remove batteries from holders when the kit is not in use for extended periods to prevent leakage.
- Keep small parts organized to avoid loss.
- Clean components with a dry cloth if necessary. Do not use water or cleaning solutions.

7. Troubleshooting

- **Component not working:**
  - Check all wire connections to ensure they are secure.
  - Verify battery polarity in the holder.
  - Ensure batteries have sufficient charge.
  - Inspect components for any visible damage.
  - Confirm the switch is in the 'ON' position.
- **Overheating:**
  - Immediately disconnect power.
  - This indicates a short circuit. Carefully review your circuit diagram and connections against the correct examples provided in Section 4.2.
- **Motor not spinning at expected speed:**
  - Check battery charge.
  - Ensure no friction is impeding the motor shaft or attached gears/propellers.

8. Specifications

Feature	Detail
Product Dimensions	8.26 x 4.3 x 1.96 inches
Item Weight	11.3 ounces
Model Number	D-008C
Manufacturer Recommended Age	8 years and up
Batteries Required	AA batteries (12 total for all 6 holders, not included)
DC Motor Voltage	1.5-3V
DC Motor RPM	15000 RPM
Manufacturer	Sntieecr



Figure 8.1: Dimensions of the mini DC motor.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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