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› [Science Can](#) /

› [Science Can Circuit Super Kit: Instruction Manual for Beginner Electronic Kit](#)

Science Can Circuit Super Kit

Science Can Circuit Super Kit: Instruction Manual

Model: Circuit Super Kit (B09NKPFXLW)

INTRODUCTION

This instruction manual provides detailed guidance for the Science Can Circuit Super Kit, an educational electronic circuit board kit designed for children aged 8 to 12 years. This kit offers 80 exciting experiments to introduce fundamental principles of electricity and circuit design in an engaging and interactive way. Please read this manual thoroughly before beginning any experiments to ensure safe and correct usage.

WHAT'S IN THE BOX

The Science Can Circuit Super Kit includes a comprehensive set of components necessary for conducting various experiments. Please verify that all items listed below are present in your kit:

- Power Supply (requires 3 AAA batteries, not included)
- Piano module
- Bulb module
- RGB Lamp module
- Speaker module
- Fan module
- Colorful Lamp module
- Motor module
- Flying Saucer module
- Switch module
- Push Switch module
- Potentiometer module
- Vibrating module
- Resistor modules (10-Ohm and 100-Ohm)
- Transparent Base Plate
- 6 Wires
- 2 T-shaped Wires

- Instruction Manual (74 pages)



Image: All components of the Circuit Super Kit, including the transparent base plate, various modules (light show, fan, RGB lamp, speaker, bulb, microphone, photoresistors, switches, potentiometer, vibrating, resistors, colorful lamp, flying saucer, power supply, hand crank generator, piano, FM radio), and connecting wires.

SIMPLE CIRCUITS BIG IMAGINATION

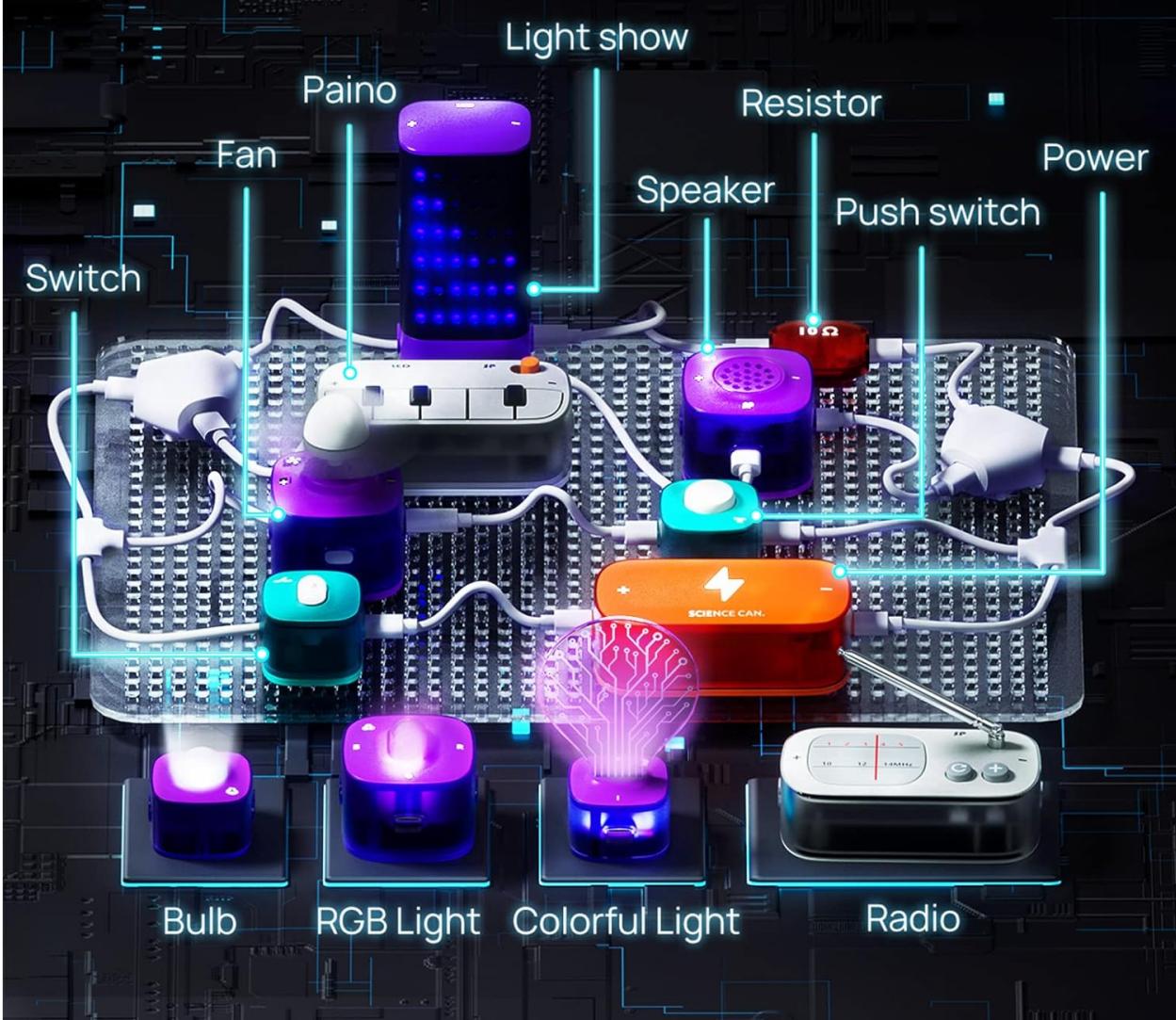


Image: An illustrative diagram labeling the key components of the circuit kit, demonstrating how they connect to form simple circuits.

SETUP

Follow these steps to set up your Science Can Circuit Super Kit:

- 1. Unpack Components:** Carefully remove all components from the packaging.
- 2. Insert Batteries:** Locate the Power Supply module. Open the battery compartment and insert 3 AAA batteries, ensuring correct polarity. Close the compartment securely.
- 3. Prepare Base Plate:** Place the transparent base plate on a flat, stable surface. This plate serves as the foundation for your circuits.
- 4. Component Placement:** The modules are designed to snap onto the base plate. Refer to the instruction manual for specific placement guides for each experiment.
- 5. Connect Wires:** Use the provided wires to connect the modules as indicated in the experiment diagrams. The wires feature USB-C type connectors for easy and secure attachment.



Image: A transparent base plate with various circuit components connected, illustrating the modular design and ease of assembly.

OPERATING INSTRUCTIONS: EXPERIMENTS

The kit includes a 74-page instruction manual with 80 experiments, ranging from basic circuits to more complex projects. Each experiment is designed to be completed step-by-step, teaching the underlying scientific principles.

- Select an Experiment:** Choose an experiment from the instruction manual. The first 13 experiments focus on basic circuitry.
- Follow Diagrams:** Carefully follow the illustrated diagrams and instructions provided for each experiment.
- Assemble the Circuit:** Connect the specified modules using the wires on the transparent base plate according to the diagram.
- Test the Circuit:** Once assembled, activate the circuit (e.g., by pressing a switch or turning on the power supply) to observe the results.
- Understand the Principles:** The manual explains the scientific concepts behind each experiment, encouraging learning and exploration.

CLEAR INSTRUCTIONS

Easy to play the circuit experiments



Image: A child following clear, illustrated instructions to assemble a circuit, highlighting the user-friendly design of the manual and components.

80 EXCITING EXPERIMENTS

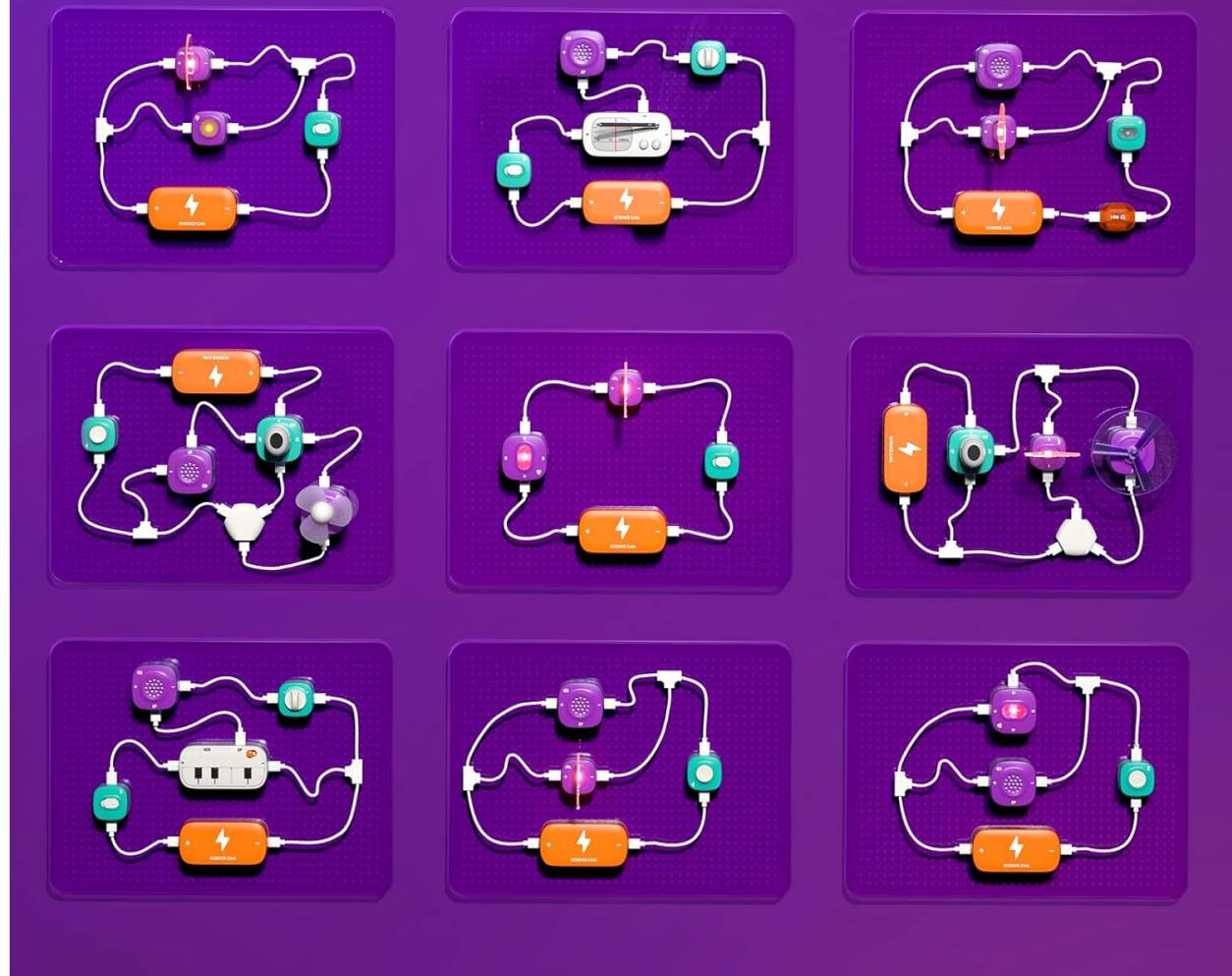


Image: A visual representation of 80 exciting experiments, showcasing various circuit designs and their potential outcomes.

MAINTENANCE

Proper care and maintenance will extend the life of your Science Can Circuit Super Kit:

- **Storage:** Store all components in their original packaging or a designated container in a dry, cool place away from direct sunlight.
- **Cleaning:** Wipe components gently with a dry, soft cloth. Do not use water or cleaning solutions, as this can damage electronic parts.
- **Battery Care:** Remove batteries from the Power Supply module if the kit will not be used for an extended period to prevent leakage.
- **Handle with Care:** Avoid dropping or applying excessive force to the modules and wires.

TROUBLESHOOTING

If you encounter issues while using your kit, refer to the following common problems and solutions:

- **Circuit Not Working:**

- Ensure batteries are correctly inserted into the Power Supply module with the correct polarity.
- Check if the batteries are fresh and have sufficient charge.
- Verify all wire connections are secure and match the experiment diagram.
- Ensure all modules are properly snapped onto the base plate.
- Confirm that switches are in the 'ON' position where applicable.

- **Intermittent Functionality:**

- This may indicate loose connections. Re-seat all wires and modules.
- Check battery contact within the power supply; sometimes batteries can shift.

- **Component Malfunction:**

- If a specific module consistently fails across different circuits, it may be faulty. Contact customer support for assistance.

SPECIFICATIONS

Product Dimensions	16.3 x 3.2 x 12 inches
Item Weight	2.88 pounds
Model Number (ASIN)	B09NKPFXLW
Recommended Age	8 - 12 years
Batteries Required	3 AAA batteries (not included)
Manufacturer	Science Can

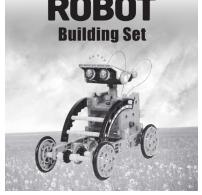
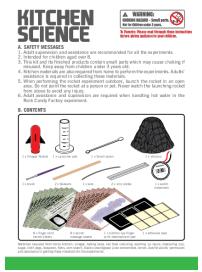
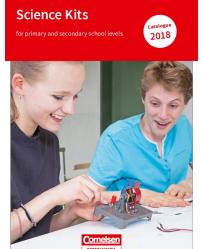
WARRANTY AND SUPPORT

For warranty information, product support, or to purchase replacement parts, please refer to the official Science Can website or contact their customer service directly. Contact details can typically be found on the product packaging or the manufacturer's official online presence.

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Related Documents - Circuit Super Kit

	<u>Science Can Block Circuit Deluxe Kit - STEM Educational Toy</u> <p>Explore electronics with the Science Can Block Circuit Deluxe Kit. Learn about circuits, sensors, and components through hands-on STEM activities. Includes detailed instructions and troubleshooting.</p>
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	<p>12-in-1 Solar Robot Building Set: STEM Educational Toy Instructions</p> <p>Explore the 12-in-1 Solar Robot Building Set, an educational STEM toy for kids aged 8-12. This manual provides detailed assembly instructions for creating 12 different solar-powered robot models, covering parts, modules, testing, and troubleshooting.</p>
	<p>Kitchen Science: Fun Experiments for Kids 4M</p> <p>Explore exciting science experiments at home with the 4M Kitchen Science kit. Learn about rockets, volcanoes, crystals, fingerprints, invisible ink, and fruit batteries with easy-to-follow instructions and explanations.</p>
	<p>Gross Science: Fun and Gross Experiments for Kids</p> <p>Explore the fascinating and gross aspects of the human body with the Gross Science kit. This instruction booklet guides children through fun, hands-on experiments related to farts, poo, snot, and more, making science engaging and educational.</p>
	<p>What Parents Can Do at Home to Help Students with Science</p> <p>A comprehensive guide for parents offering practical activities, experiments, and tips to foster children's interest and understanding in science, promoting scientific thinking and learning through everyday experiences.</p>
	<p>Cornelsen Experimenta Science Kits Catalogue 2018</p> <p>Discover the 2018 Cornelsen Experimenta Science Kits Catalogue. This comprehensive guide features educational kits for primary and secondary schools, promoting hands-on learning, scientific inquiry, and experimental education in physics, chemistry, and biology. Ideal for educators seeking quality STEM resources.</p>