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- › [Snap Circuits](#) /
- › [Snap Circuits 203 Electronics Exploration Kit User Manual](#)

Snap Circuits CM-200

Snap Circuits 203 Electronics Exploration Kit User Manual

Brand: Snap Circuits | Model: CM-200

INTRODUCTION

Welcome to the world of electronics with your Snap Circuits 203 kit! This comprehensive kit is designed to introduce children aged 8 and up to the fundamental concepts of electrical engineering through hands-on, engaging projects. With over 200 exciting experiments, you'll learn about circuits, components, and how electricity works in a fun and interactive way. All components are mounted in plastic modules that snap together with ease, requiring no tools.



SO MANY TOYS IN ONE BOX

- LIGHT-CONTROLLED MUSIC
- MICROPHONE CONTROL
- MAKE YOUR OWN BATTERY
- LED MOTION DETECTOR

A child engaged in building a circuit with the Snap Circuits kit, demonstrating the ease of assembly and the kit's appeal.

SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small Parts. Not for children under 3 years.

Always supervise young children during use. Ensure all connections are secure before activating any circuit. Do not attempt to modify or disassemble the electronic components. Use only the specified batteries and dispose of them properly.

WHAT'S IN THE BOX

Your Snap Circuits 203 kit includes everything you need to start building exciting projects. Inside the box, you

will find:

- 42 Snap Circuit Parts (various electronic components mounted on plastic modules)
- 1 Full-Color Project Guide (instruction manual with 203 projects)

Please verify that all components listed in the manual's parts list are present and undamaged upon opening the box. If any parts are missing or damaged, please refer to the 'Warranty and Support' section for assistance.



An illustration of the detailed parts list found in the project manual, showing various snap modules and their corresponding symbols and part numbers.

SETUP

Setting up your Snap Circuits kit is quick and easy. No tools are required for assembly.

1. **Unpack Components:** Carefully remove all snap circuit parts and the project manual from the

packaging.

2. **Insert Batteries:** The kit requires 3 AA batteries (not included). Locate the battery holder module and insert the batteries, ensuring correct polarity (+/-).
3. **Prepare the Base Grid:** The transparent base grid serves as the foundation for your circuits. Place it on a flat, stable surface.
4. **Familiarize Yourself with Parts:** Refer to the 'Parts List' in your project manual to identify each component. Each part is clearly labeled and color-coded for easy recognition.



A close-up view of various Snap Circuits modules connected on the base grid, illustrating how the components snap together securely.

OPERATING INSTRUCTIONS

The core of the Snap Circuits experience is building and experimenting with different electronic circuits. Follow the instructions in your full-color project manual to construct various projects.

1. **Select a Project:** Open your project manual and choose an experiment. Projects are numbered and increase in complexity, starting with basic circuits.
2. **Identify Components:** Each project diagram clearly shows which Snap Circuit parts are needed. Gather these parts before you begin.
3. **Assemble the Circuit:** Following the diagram, snap the components onto the base grid. Ensure that the metal snaps make firm contact. The manual provides clear, step-by-step visual instructions.
4. **Test the Circuit:** Once assembled, activate the circuit as instructed in the manual (e.g., by flipping a switch). Observe the results and learn how each component contributes to the circuit's function.
5. **Experiment and Explore:** After successfully building a project, feel free to experiment with variations or combine concepts from different projects to create your own unique designs.

Project Examples from the Manual:

- **Project #1: Electric Light & Switch** - A simple introduction to basic circuits.
- **Project #14: Conduction Detector** - Discover what materials conduct electricity.
- **Projects #20 & #21: Parallel Resistors and Series Resistors** - Compare different resistor configurations.

- **Project #78: Two-Finger Touch Lamp** - Use your body to complete a circuit.
- **Project #131: Water Leak Detection** - Build a practical circuit for home use.



Sample pages from the full-color project manual, illustrating circuit diagrams and instructions for various experiments like 'Playback & Record' and 'Electronic Playground'.



Further examples from the project manual, including 'How to Use Snap Circuits', a detailed 'Parts List', and specific project diagrams such as 'Electric Light & Switch' and 'Batteries in Series'.

Parts List (Colors and styles may vary) Symbols and Numbers									
Important: If any parts are missing or damaged, DO NOT RETURN TO RETAILER . Call customer service toll-free at (800) 533-2441 or e-mail us at: help@elenco.com .									
Qty.	ID	Name	Symbol	Part #	Qty.	ID	Name	Symbol	Part #
□ 1	Q2	NPN Transistor		6SCQ2	□ 1	S1	Slide Switch		6SCS1
□ 1	R1	100Ω Resistor		6SCR1	□ 1	S2	Press Switch		6SCS2
□ 1	R2	1KΩ Resistor		6SCR2	□ 1	SP2	Speaker		6SCSP2
□ 1	R3	5.1KΩ Resistor		6SCR3	□ 1	U3	Space War Integrated Circuit (IC)		6SCU3
□ 1	R5	100KΩ Resistor		6SCR5	□ 1	U6	Recording Integrated Circuit (IC)		6SCU6
□ 1	RP	Photoresistor		6SCRP	□ 1	WC	Whistle Chip		6SCWC
□ 1	RV	Adjustable Resistor		6SCRV	□ 1	X1	Microphone		6SCX1
□ 1		Base Grid (11.0" x 7.7")		6SCBG	□ 1	C2	0.1μF Capacitor		6SCC2
□ 4	①	1-Snap Wire		6SC01	□ 1	C3	10μF Capacitor		6SCC3
□ 7	②	2-Snap Wire		6SC02	□ 1	C4	100μF Capacitor		6SCC4
□ 4	③	3-Snap Wire		6SC03	□ 1	D1	Red Light Emitting Diode (LED)		6SCD1
□ 1	④	4-Snap Wire		6SC04	□ 1		Jumper Wire (Black)		6SCJ1
□ 1	⑤	5-Snap Wire		6SC05	□ 1		Jumper Wire (Red)		6SCJ2
□ 1	⑥	6-Snap Wire		6SC06	□ 1	L4	Lamp		6SCL4
□ 1	B3	Battery Holder - uses 3 1.5V type AA (not included)		6SCB3	□ 1	Q1	PNP Transistor		6SCQ1

The CM-200 Block Layout diagram, providing a visual guide to the arrangement and connection points of various components on the base grid.

To ensure the longevity and proper functioning of your Snap Circuits kit, follow these simple maintenance guidelines:

- **Storage:** Store all components and the project manual in their original box or a designated storage container to prevent loss or damage.
- **Cleaning:** Wipe components with a soft, dry cloth if they become dusty. Do not use water or cleaning solutions, as this may damage the electronic parts.
- **Battery Care:** Remove batteries from the battery holder if the kit will not be used for an extended period to prevent leakage.
- **Handle with Care:** While durable, avoid dropping components or applying excessive force when snapping them together or apart.

TROUBLESHOOTING

If you encounter issues while building or operating your Snap Circuits projects, consider the following common troubleshooting steps:

- **Circuit Not Working:** Double-check all connections. Ensure that each snap module is firmly connected to the base grid and to other modules as per the diagram.
- **Check Batteries:** Verify that the batteries are inserted correctly with the proper polarity and that they are not depleted. Replace with fresh AA batteries if necessary.
- **Refer to Manual:** The project manual often includes a troubleshooting section or specific tips for each project. Consult it for detailed guidance.
- **Component Damage:** Inspect components for any visible damage. If a part appears broken or faulty, it may need to be replaced.
- **Simplify the Circuit:** If a complex circuit isn't working, try building a simpler version or a previous working project to isolate the problem.

SPECIFICATIONS

- **Product Dimensions:** 15 x 2.2 x 12 inches
- **Item Weight:** 2.2 pounds
- **Item Model Number:** CM-200
- **Manufacturer Recommended Age:** 8 years and up
- **Batteries:** 3 AA batteries required (not included)
- **Number of Projects:** Over 200
- **Number of Parts:** 42 Snap Modules

WARRANTY AND SUPPORT

This Snap Circuits kit is manufactured by Elenco Electronics LLC. For any issues regarding missing or damaged parts, or for further support, please contact Elenco Electronics LLC directly. Do not return the product to the retailer without prior authorization.

You can typically find contact information for Elenco Electronics LLC on their official website or within the product packaging. Please have your model number (CM-200) ready when contacting support.