

## KiwiCo SNAK-F2009

# KiwiCo Remote Controlled Snake Robot Instruction Manual

Model: SNAK-F2009

## INTRODUCTION

This manual provides detailed instructions for assembling, operating, and maintaining your KiwiCo Remote Controlled Snake Robot. This kit is designed to introduce principles of robotics and electronics through hands-on construction and interactive play. Please read all instructions carefully before beginning assembly.

## PARTS LIST

Before starting assembly, verify that all components are present in your kit:

- Wood head
- Wood body pieces
- Side clips
- Connector clips
- Screw
- Metal rods
- Wood beads
- Wheels
- O-rings
- Zip ties
- Toggle bases
- Toggle covers
- Remote control box
- Rubber bands
- Thick gray sticky foam
- Thin gray sticky foam
- Black sticky foam

- Maze pieces
- Wood tongues
- Ball
- Robot skins

One 9V battery is required and included with the kit.



Image: All components of the KiwiCo Remote Controlled Snake Robot kit are displayed on a yellow background, including the partially assembled snake body, remote control, various wooden pieces, and decorative skins.

## SETUP AND ASSEMBLY

Follow the included illustrated directions for step-by-step assembly of your snake robot and its remote control. The assembly process involves wiring electronics and constructing the mechanical body.

### Key Assembly Steps:

1. Assemble and wire the electronic components that power the robot.
2. Construct the segmented body of the snake robot using the provided wood pieces, clips, and rods.
3. Build the remote control box and connect the toggle switches.

4. Attach the chosen decorative skin to customize your robot.
5. Insert the 9V battery into the designated compartment.

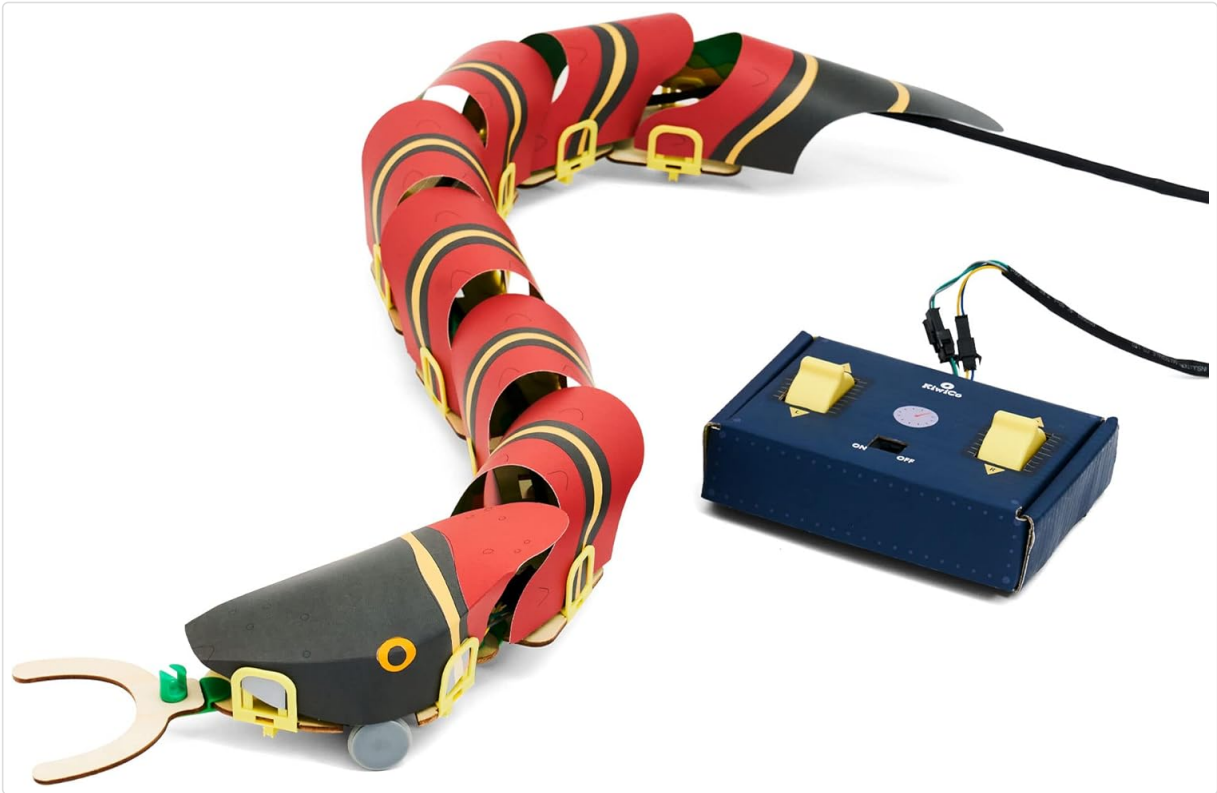


Image: The fully assembled red and black snake robot is shown alongside its blue remote control, ready for operation.

## OPERATING INSTRUCTIONS

Once assembled, your Remote Controlled Snake Robot is ready for operation. The remote control uses switches to direct the robot's movement.

### Remote Control Operation:

- Turn the remote control ON using the switch located on the front.
- Use the left and right toggle switches to control the snake's movement. Experiment with different switch combinations to understand how the robot slithers and turns.
- The robot's movement is based on how electricity powers its segments and how the switches engage different motors.



Image: A pair of hands demonstrates operating the blue remote control, manipulating the yellow toggle switches to direct the snake robot.

### Navigation Challenge:

The kit includes maze pieces to set up a navigation challenge. Follow these steps:

1. Arrange the maze pieces on a flat surface to create a path for your robot.
2. Attach one of the wood tongues to the front of the snake's head.
3. Practice driving your robot through the maze, aiming to navigate without hitting the foam strips.
4. For an added challenge, use the ball and attempt to push it through the maze with the snake's tongue.





Image: The snake robot, with a clear skin, is shown navigating a simple maze constructed from black foam pieces on a wooden floor.

## Demonstration Video:

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Video: This video demonstrates the KiwiCo Remote Controlled Snake Robot in action, showcasing its slithering movement and how the remote control switches operate it. It highlights the hands-on building and the science behind its motion.

## MAINTENANCE

To ensure the longevity and proper function of your snake robot, consider the following maintenance tips:

- **Battery Replacement:** Replace the 9V battery when the robot's movements become sluggish or unresponsive.
- **Cleaning:** Gently wipe the robot's surfaces with a dry cloth to remove dust or debris. Avoid using liquids directly on electronic components.
- **Storage:** Store the robot and its components in a dry, cool place away from direct sunlight to prevent material degradation.
- **Component Check:** Periodically inspect connections and moving parts for any signs of wear or

looseness. Tighten screws or re-secure connections as needed.

## TROUBLESHOOTING

If you encounter issues with your KiwiCo Remote Controlled Snake Robot, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Robot does not move	Battery is dead or incorrectly installed. Loose wire connections. Power switch is OFF.	Replace the 9V battery. Check all wire connections for secure fit. Ensure the ON/OFF switch on the remote is in the ON position.
Robot only moves in circles or steers poorly	One side's motor or switch is not functioning correctly. Uneven wheel or segment assembly.	Verify all switch connections are secure and functional. Inspect the assembly of each snake segment and wheels for proper alignment and free movement. Ensure no wires are pinched.
Remote control buttons are unresponsive	Loose connections within the remote. Damaged switch.	Open the remote control box and check all internal wire connections to the switches. If a switch appears damaged, contact support.

## SPECIFICATIONS

- **Model Number:** SNAK-F2009
- **Product Dimensions:** 11 x 7.5 x 3.38 inches
- **Item Weight:** 1.57 pounds
- **Recommended Age:** 9 - 12 years
- **Batteries:** 1 x 9V battery (included)
- **Manufacturer:** KiwiCo

## WARRANTY AND SUPPORT

For any questions, missing parts, or technical assistance, please contact KiwiCo customer support. While specific warranty details are not provided in this manual, KiwiCo is committed to customer satisfaction. Please refer to the official KiwiCo website or your purchase documentation for warranty information.

**KiwiCo Support:** Visit [www.kiwico.com/help](http://www.kiwico.com/help) for assistance.