

KiwiCo SJUP-F2118

KiwiCo Jumping Robot Instruction Manual

Model: SJUP-F2118

Brand: KiwiCo

1. PRODUCT OVERVIEW

Take a leap into engineering with the KiwiCo Jumping Robot kit. This kit allows you to build your own robot and customize how it looks and jumps. Through the assembly process, you will learn about the physics of potential and kinetic energy that power your robot's movements. It offers a hands-on experience in STEM (Science, Technology, Engineering, and Mathematics) for ages 9 and up.



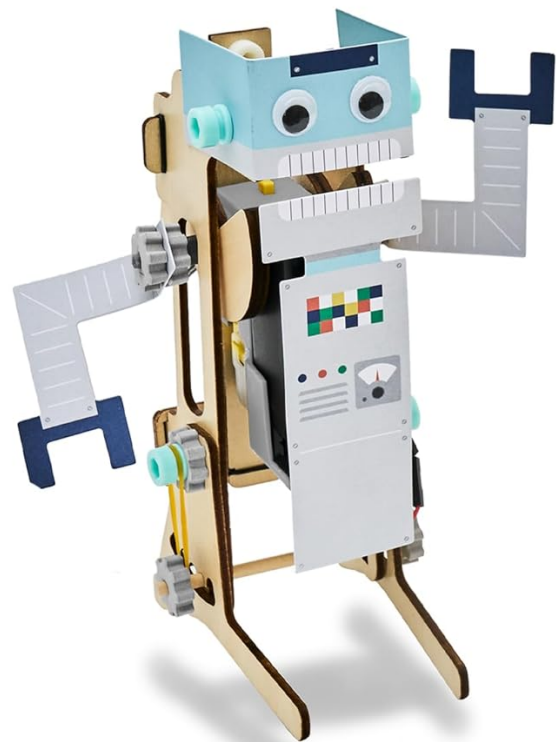
Image: The complete KiwiCo Jumping Robot kit, showing the assembled robot, its box, and all included parts.

2. WHAT'S IN THE BOX

Your KiwiCo Jumping Robot kit includes all the necessary components for assembly:

- Side pieces
- Foot pieces
- Bottom piece
- Back piece
- Dowel
- Pegs
- Chassis
- Blue bolts
- White bolt
- Hex nut
- Barrel nuts

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- A collection of various components for a robot, including blue and white plastic parts, a motor, a battery, gears, and cardboard pieces.



Assemble a spring-powered mechanism and jump into physics

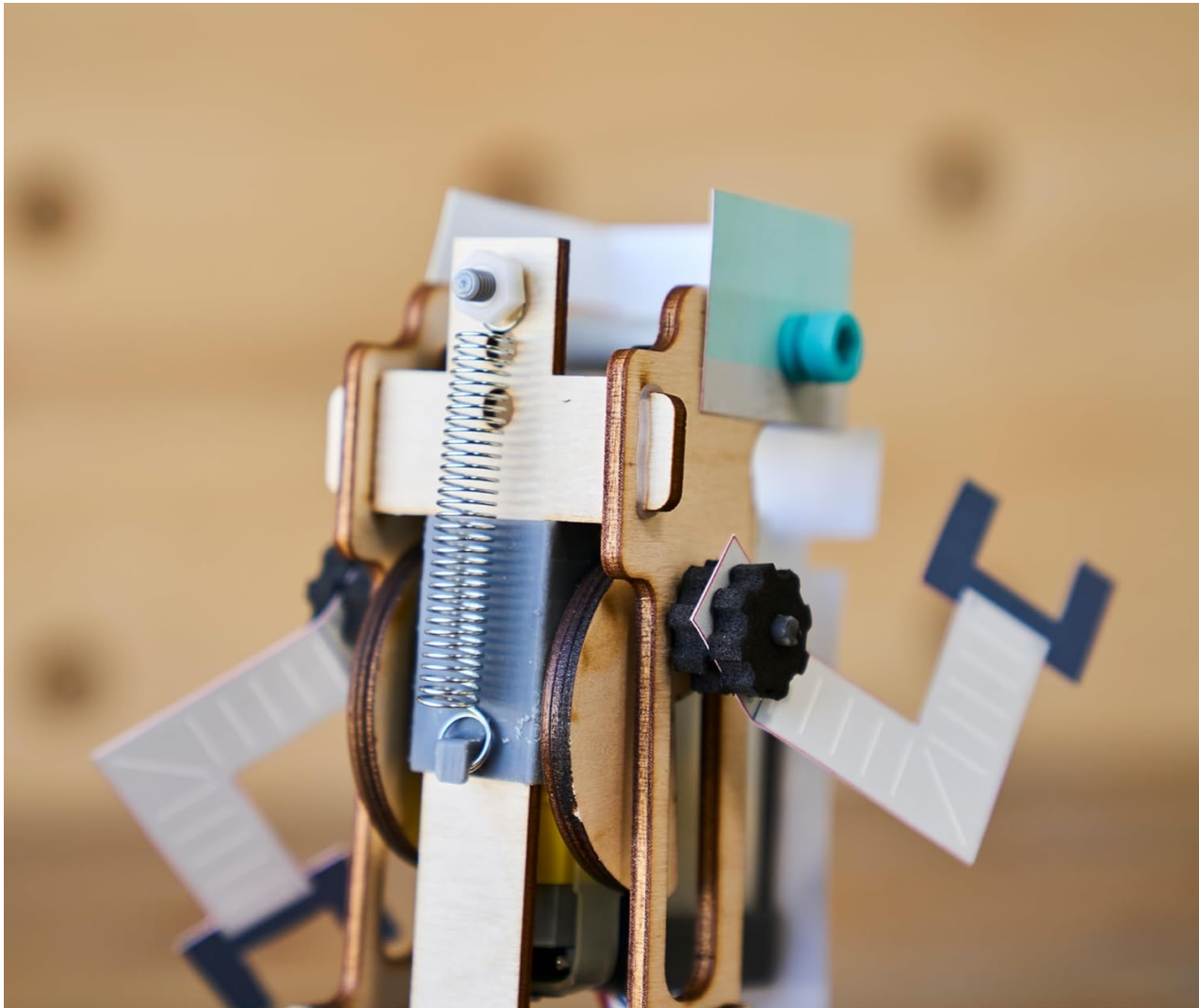
3. SETUP & ASSEMBLY

This kit is designed for easy construction. Follow the detailed instructions provided in the building guide to

assemble your robot. The process involves constructing the cams, connecting the spring-powered mechanism, and attaching the pre-made exterior. You can also create your own custom body parts for a unique look.

Key Assembly Steps:

1. Construct the main chassis using the wooden side, foot, bottom, and back pieces.
2. Integrate the motor and battery pack, ensuring correct wiring.
3. Assemble the spring-powered mechanism, including the cams and springs, which are crucial for the robot's jumping action.
4. Attach the robot's body, head, and arms, customizing them as desired.
5. Once assembled, place your robot on a flat surface and activate the switch to observe its jumping motion.



**Wire up a motor to make
your 'bot bounce**

Image: A close-up of the robot's internal spring and motor mechanism, highlighting the core components for its jumping ability.

Assembly Video:

For a visual guide on the assembly process, please watch the official KiwiCo Jumping Robot video:

Video: Official demonstration of the KiwiCo Jumping Robot, showcasing its assembly and functionality.

4. OPERATING INSTRUCTIONS

The Jumping Robot is designed to demonstrate principles of physics and engineering through interactive play. Once assembled, you can experiment with its movements and customize its appearance.

How it Works:

The robot utilizes a spring-powered mechanism. When activated, the cams extend and release the spring, launching the robot into the air. You can experiment with different angles and adjustments to observe how they affect the robot's jump height and distance.

Experiment with angles and energy

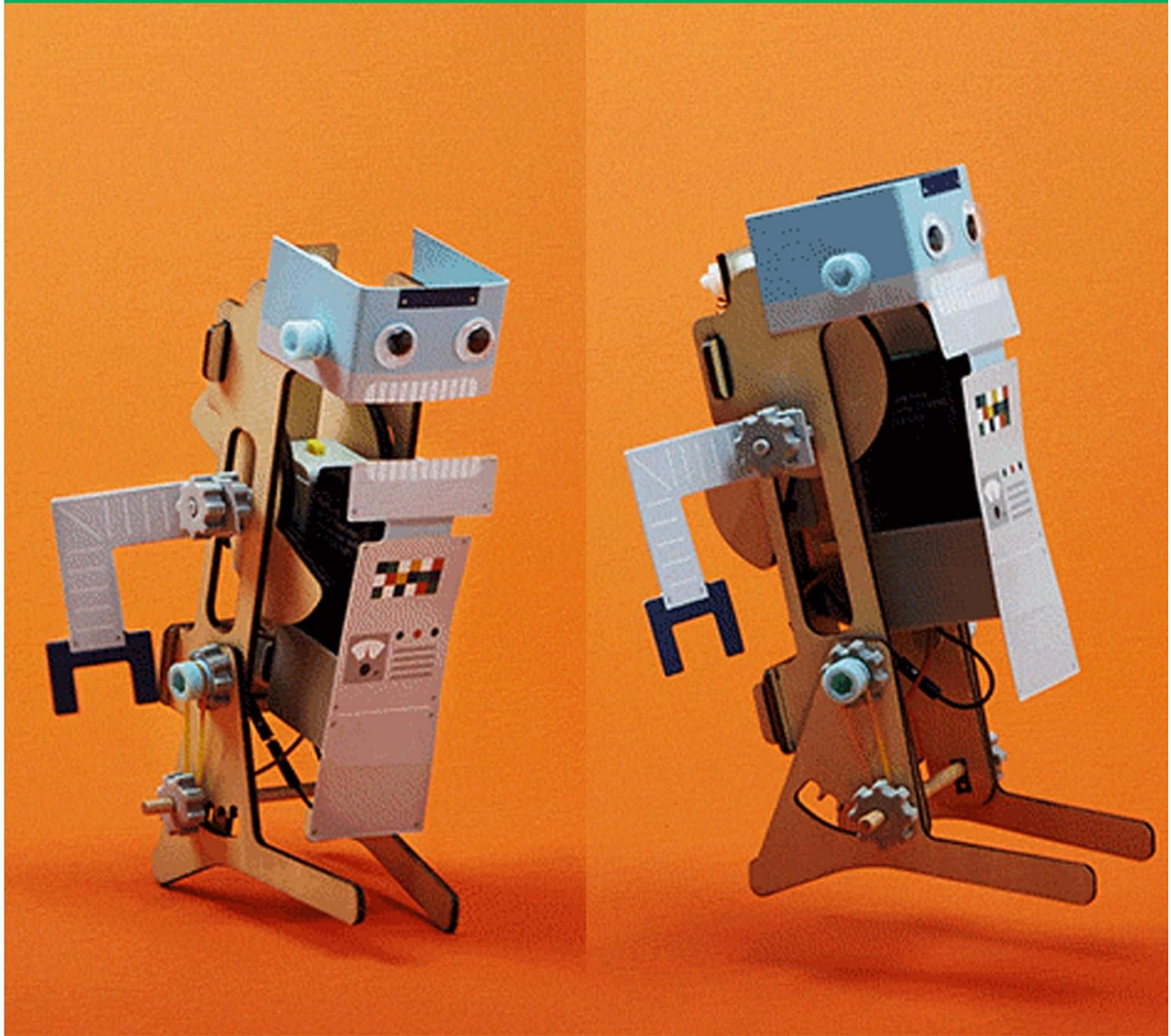


Image: Two robots demonstrating how experimenting with angles and energy can change their jumping behavior.

Customization:

The kit includes blank body parts that can be decorated using art supplies from home. This allows for creative expression and personalization of your robot.

Customize a robot skin

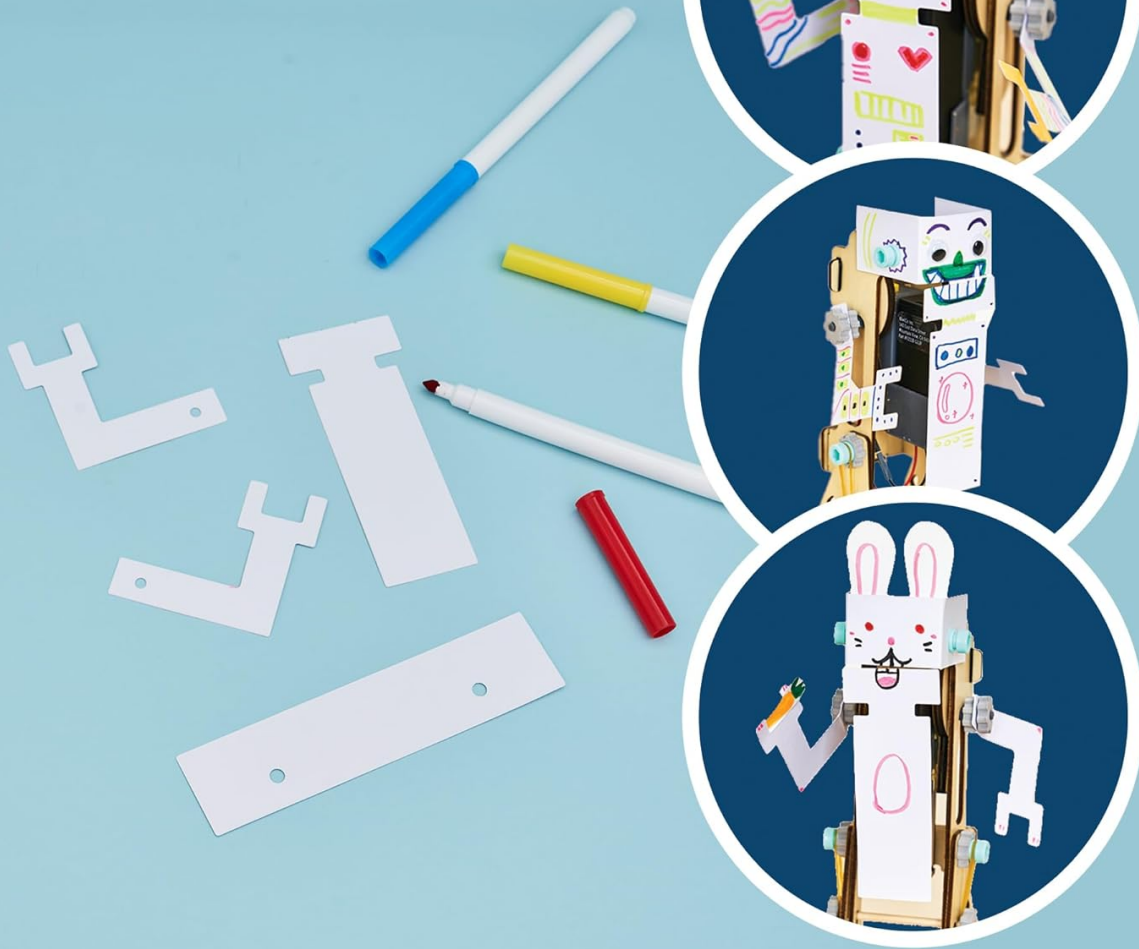


Image: Examples of how to customize the robot's exterior using blank body parts and personal art supplies.

5. MAINTENANCE

To ensure the longevity and optimal performance of your KiwiCo Jumping Robot, consider the following maintenance tips:

- **Cleaning:** Gently wipe down the robot's exterior with a dry or slightly damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the robot in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Battery Care:** Remove the 9V battery if the robot will not be used for an extended period to prevent leakage and corrosion.
- **Component Check:** Periodically inspect all connections and moving parts to ensure they are secure and functioning correctly.

6. TROUBLESHOOTING

If your Jumping Robot is not functioning as expected, consider these common issues and solutions:

Robot Not Jumping/Moving:

- **Battery Check:** Ensure the 9V battery is correctly installed and has sufficient charge. Replace if necessary.
- **Wiring:** A common issue is incorrect wiring of the motor. Double-check that the red and black wires from the battery pack are connected to the corresponding terminals on the motor as per the instructions. If the robot moves backward or not at all, try reversing the wire connections.
- **Mechanism Obstruction:** Verify that no parts are obstructing the movement of the cams or springs. Ensure all pieces are securely attached and aligned.
- **Switch Position:** Confirm the power switch is in the 'ON' position.





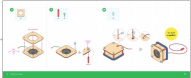
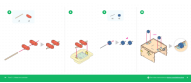
If issues persist, refer to the detailed building guide for step-by-step visual instructions or contact KiwiCo customer support.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	11 x 7.5 x 3.38 inches
Item Weight	14.4 ounces
Country of Origin	China
ASIN	B0B11SCN8G
Item Model Number	SJUP-F2118
Manufacturer Recommended Age	9 - 14 years
Batteries Required	1 x 9V battery
Manufacturer	KiwiCo

8. WARRANTY & SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official KiwiCo website or contact their customer service directly. Keep your purchase receipt as proof of purchase. KiwiCo is committed to providing engaging and educational experiences. If you encounter any issues or have questions about your Jumping Robot, their support team is available to assist you.

	<p>KiwiCo Delivery Bot: Build and Operation Guide</p> <p>A comprehensive guide to building and operating the KiwiCo Delivery Bot, including assembly instructions, troubleshooting tips, and creative delivery ideas.</p>
	<p>KiwiCo Corporate Team Building Events: Engaging Activities for Your Team</p> <p>Discover KiwiCo's corporate team building events, offering engaging DIY kits for virtual or in-person team activities. Foster problem-solving and collaboration with hands-on projects.</p>
	<p>Silly Speaker: Build and Understand Sound</p> <p>A guide to building the KiwiCo Silly Speaker, explaining the science of sound and troubleshooting common issues. Learn how sound travels from a device to your ear.</p>
	<p>KiwiCo Kinetic Light-Up Speaker: Build Guide and Electronics Exploration</p> <p>Comprehensive guide for building the KiwiCo Kinetic Light-Up Speaker. Learn about electronic components, Bluetooth connectivity, sound waves, and light effects. Includes step-by-step instructions and troubleshooting.</p>
	<p>Build Your Own Speaker: Assembly Guide and FCC Compliance</p> <p>A step-by-step guide to assembling a KiwiCo speaker, including all necessary instructions and FCC compliance information.</p>
	<p>KiwiCo Delivery Bot Assembly and Operation Manual</p> <p>A comprehensive guide to assembling and operating the KiwiCo Delivery Bot, including step-by-step instructions, troubleshooting tips, and FCC compliance information.</p>