



[Manuals.plus](#) /

› [BeAndge](#) /

› BeAndge 10-in-1 STEM Robotics Kit Instruction Manual

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BeAndge 10-in-1 STEM Robotics Kit Instruction Manual

Model: 10-in-1 STEM Robotics Kit

INTRODUCTION

This manual provides detailed instructions for assembling, operating, and maintaining your BeAndge 10-in-1 STEM Robotics Kit. This kit is designed to offer an engaging, hands-on learning experience, encouraging curiosity and critical thinking through the construction of various science and engineering models.

The kit includes components to build 10 distinct models, each demonstrating different scientific principles. Please read all instructions carefully before beginning assembly.



Image: A collection of various assembled robot and vehicle models from the BeAndge STEM kit, showcasing a solar-powered car, a wind-powered car, and a tank.



Image: A collection of various assembled science models from the BeAndge STEM kit, including Newton's Cradle, a Dimmable Lamp, and Hooke's Roller.

WHAT'S INCLUDED

Your BeAndge 10-in-1 STEM Robotics Kit contains all necessary parts to construct the following models. Each model comes with its own set of components and detailed instructions.

- Solar Powered Car
- Wind Powered Car
- Obstacle Avoidance Robot
- Transmission Tank
- Glider
- Telegraph
- Newton's Cradle
- Sun-Earth-Moon Orbital Model
- Dimmable Lamp (for exploring resistance)
- Hooke's Roller (to investigate elasticity)

Note: AA batteries are required for some models and are NOT included in this kit. Please ensure you have the necessary batteries before starting assembly.



Image: The kit contents laid out, showing the gift box, individual packaged assembly kits, detailed instruction booklets, and a screwdriver.



Image: Another view of the kit contents, highlighting the individual packaged assembly kits for the remaining models, along with instruction booklets and a screwdriver.

SETUP AND ASSEMBLY

Each model in the BeAndge 10-in-1 STEM Robotics Kit comes with its own specific instruction booklet. Follow these general steps for successful assembly:

1. **Review the Manual:** Before starting, carefully read through the instruction booklet for the specific model you intend to build. Familiarize yourself with the steps and components.
2. **Check Accessories:** Verify that all parts listed in the manual are present. Lay out all components to ensure nothing is missing.
3. **Install Step-by-Step:** Follow the assembly instructions precisely. Use the provided screwdriver for secure connections. Pay close attention to wiring diagrams for electrical components.
4. **Check Function:** Once assembly is complete, test the model's functionality as described in its manual. Ensure all moving parts operate smoothly and electrical connections are secure.

Important: Some models require AA batteries. Insert batteries according to the polarity markings (+/-) in the battery compartment.



Image: A child and an adult collaboratively assembling one of the BeAndge STEM kits, illustrating the hands-on nature of the activity.

OPERATING INSTRUCTIONS

Operating each model is straightforward once assembled. Refer to the specific instruction booklet for detailed operational guidance for each of the 10 models.

- **Power On/Off:** For models requiring batteries, locate the power switch (if present) or ensure batteries are correctly inserted to activate.
- **Movement:** For robotic or vehicle models, observe how gears, motors, and wheels interact to create movement.
- **Sensors:** For models like the Obstacle Avoidance Robot, understand how sensors detect objects and influence behavior.
- **Scientific Principles:** Engage with each model to understand the underlying scientific principles, such as solar energy conversion, wind power, mechanical transmission, or electrical circuits.



Image: A child looking thoughtfully at the components of a BeAndge STEM tank kit, symbolizing the development of hands-on ability, logical thinking, creativity, and teamwork skills.

MAINTENANCE

To ensure the longevity and proper function of your BeAndge STEM kits, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down components. Avoid using water or harsh chemicals, as these can damage electronic parts.
- **Storage:** Store disassembled or assembled models in a dry, cool place away from direct sunlight. Keep small parts in their designated bags or containers to prevent loss.
- **Battery Care:** Remove batteries from models that will not be used for extended periods to prevent leakage and corrosion. Dispose of used batteries responsibly.
- **Component Inspection:** Periodically check for loose connections, worn gears, or damaged wires. Replace any damaged parts if possible, or contact support.

TROUBLESHOOTING

If you encounter issues with your BeAndge STEM kit, consider the following troubleshooting steps:

- **Model Not Working:**

- Check battery installation: Ensure batteries are inserted correctly with the correct polarity and are not depleted.
- Verify all connections: Make sure all wires are securely connected and not loose.
- Inspect for obstructions: Ensure no parts are jammed or preventing movement.
- Re-read instructions: Double-check assembly steps for any missed or incorrect placements.

- **Missing Parts:**

- Carefully check all packaging and the work area. Small parts can be easily overlooked.
- If parts are genuinely missing, contact BeAndge customer support.

- **Difficulty Assembling:**

- Refer to the detailed instruction booklet for the specific model.
- Ensure you are using the correct components for each step.
- Seek assistance from an adult or experienced builder if needed.

SPECIFICATIONS

Product Name	BeAndge 10-in-1 STEM Robotics Kit
Model Number	B0DBPLJY6V (ASIN)
Recommended Age	0 - 10 years (Manufacturer Recommended)
Power Source	AA Batteries (NOT included)
Number of Models	10 unique science and engineering models

WARRANTY AND SUPPORT

BeAndge is committed to providing quality educational products. While specific warranty details are not provided in this manual, please retain your proof of purchase.

For any questions, missing parts, or support needs, please contact BeAndge customer service through the retailer where the product was purchased or visit the official BeAndge store page:

[Visit the BeAndge Store on Amazon](#)

We value your feedback and are here to assist you in making the most of your STEM learning experience.