

okk STEM Robot Building Kit Model 11050: User Instruction Manual

Comprehensive Guide for Assembly, Operation, and Maintenance

1. INTRODUCTION

The okk STEM Robot Building Kit Model 11050 provides a hands-on learning experience, blending fun with education to inspire interest in Science, Technology, Engineering, and Mathematics (STEM). This kit allows users to construct their own robotic friend and explore various interactive modes through remote and app control.

This manual will guide you through the assembly process, explain how to operate your robot using both the remote control and the dedicated app, and provide essential maintenance and troubleshooting tips.

2. WHAT'S IN THE BOX

Before you begin, please ensure all components are present:

- Building Blocks (635 pieces)
- Remote Control (requires 2 AAA batteries, not included)
- USB Charging Cable
- Screwdriver
- Instruction Manual (this document)

Package List & Detailed illustration



Figure 2.1: Package Contents and Detailed Illustration

3. SAFETY INFORMATION

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

- Keep small parts away from young children to prevent choking.
- Adult supervision is recommended during assembly and play.
- Do not expose the robot or its components to water or extreme temperatures.
- Ensure the robot is turned off when not in use or during charging.

4. ASSEMBLY INSTRUCTIONS

Follow the step-by-step picture guide provided in the included instruction manual to assemble your robot. The assembly process is designed to be straightforward and enjoyable, enhancing cognitive and problem-solving abilities.

1. Unpack all components and verify against the 'What's in the Box' section.
2. Use the provided screwdriver to secure necessary connections as indicated in the picture guide.
3. Carefully connect the building blocks according to the visual instructions.
4. Assemble the remote control using the designated blocks. Remember to insert 2 AAA batteries (not included) into the remote control.
5. Once assembly is complete, ensure all parts are securely fastened.

Build Your Own Robot



635 PCS



Figure 4.1: Collaborative Robot Assembly

5. OPERATING INSTRUCTIONS

The okk STEM Robot offers multiple ways to play and learn, including remote control, app control, programming, path mode, voice control, and gravity sensor modes.

5.1. Remote Control Operation

The included remote control allows for full-range movement. Insert 2 AAA batteries (not included) into the remote. Use the directional buttons to move the robot left, right, forward, backward, and perform 360-degree rotations.



Figure 5.1: Remote Control Functionality

5.2. App Control and Interactive Modes

Download the dedicated app to unlock advanced control features and interactive modes. The app provides an intuitive interface for programming and controlling your robot.

1. Scan the QR code in the manual or search for the app in your device's app store.
2. Install and open the app. Select "Product Selection" and choose model "11050".
3. Enter the control system and select your desired mode (Remote Control, Programming, Path Mode, Voice Control, or Gravity Sensor).
4. Ensure your device's Bluetooth is enabled and connect to the robot.



Figure 5.2: App Control Interface and Modes

5.3. Expressive Features

The robot features highly expressive eyes, movable eyebrows, head, shoulders, arms, and elbows, allowing for diverse designs and movements. These features enhance interaction and creativity.

DIY Fun Expressions & Actions

OKK



Figure 5.3: Robot's Expressive and Movable Parts

5.4. Product Overview Video

For a visual demonstration of the robot's features and operation, please watch the official product video below:

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Video 5.1: okk STEM Robot Building Kits Overview

This video demonstrates the assembly, various control modes (including programming and voice commands), and the movable joints of the okk STEM Robot.

6. MAINTENANCE

- **Charging:** The robot comes with a built-in rechargeable battery. Use the included USB charging cable to recharge the robot. Connect the USB cable to a compatible power source (e.g., computer USB port, USB wall adapter).
- **Cleaning:** Use a dry, soft cloth to clean the robot. Do not use water or cleaning solutions.
- **Storage:** Store the robot in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement (Remote):** The remote control requires 2 AAA batteries. Replace them when the indicator light dims or control becomes unresponsive.

7. TROUBLESHOOTING

If you encounter issues with your okk STEM Robot, refer to the following common solutions:

Problem	Possible Cause	Solution
Robot does not turn on.	Battery is low or depleted.	Charge the robot using the USB charging cable.
Remote control not working.	AAA batteries are dead or incorrectly inserted.	Replace AAA batteries in the remote control, ensuring correct polarity.
App cannot connect to the robot.	Bluetooth is off or robot is out of range.	Ensure Bluetooth is enabled on your device and the robot is within close proximity. Restart both the app and the robot.
Robot moves erratically or not as expected.	Loose connections or incorrect assembly.	Check all block connections and ensure they are secure. Refer to the assembly guide for verification.

8. PRODUCT SPECIFICATIONS

- **Model Number:** 11050
- **Product Dimensions:** 10 x 2 x 11 inches
- **Item Weight:** 2.51 pounds
- **Recommended Age:** 6 years and up
- **Batteries:** 1 Lithium Ion battery required (built-in, rechargeable)
- **Manufacturer:** SHANTOU PINLEPIN TECHNOLOGY CO.,LTD.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official okk website. Keep your purchase receipt as proof of purchase.

