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> IQKidz 3-in-1 RC Robot Building Kit Model 8029 Instruction Manual

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Brand: IQKidz | Model: 8029

1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of the IQKidz 3-in-1 RC Robot Building Kit, Model 8029. This kit allows for the construction of three distinct models: a robot, a stunt tank, and a robot girl. It is designed to introduce users to robotics, STEM principles, coding, and programming.



Figure 1.1: The IQKidz 3-in-1 RC Robot Building Kit, showcasing the robot, stunt tank, and robot girl configurations, along with control options.

2. WHAT'S INCLUDED

The IQKidz 3-in-1 RC Robot Building Kit includes the following components:

- 440 Building Blocks
- 1 Robot Body (main control unit)
- 1 Controller (remote control)
- 1 Instruction Manual
- 1 Sheet of Decorative Stickers

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Figure 2.1: Kit contents including the main robot model, remote control, and packaging.

3. ASSEMBLY INSTRUCTIONS

The kit contains 440 building blocks to construct one of three models: a robot with movable fingers and a red bowtie, a stunt tank, or a robot girl with a red bowknot hair clip. Detailed step-by-step assembly instructions are provided in the included physical manual.

3.1 General Assembly Guidance

- Organize all building blocks before starting assembly.
- Follow the diagrams and instructions carefully.
- Ensure all connections are secure to prevent parts from detaching during operation.
- The building blocks are constructed from non-toxic, BPA-free plastic.

- The set includes additional pieces for convenience in case some are misplaced.



Figure 3.1: A user engaged in the assembly process of a model from the kit.

3.2 Model Features

The assembled models feature various details and functionalities:

- **Robot Model:** Equipped with movable fingers and a distinctive red bowtie.
- **Stunt Tank Model:** Designed for maneuverability.
- **Robot Girl Model:** Features a red bowknot hair clip.

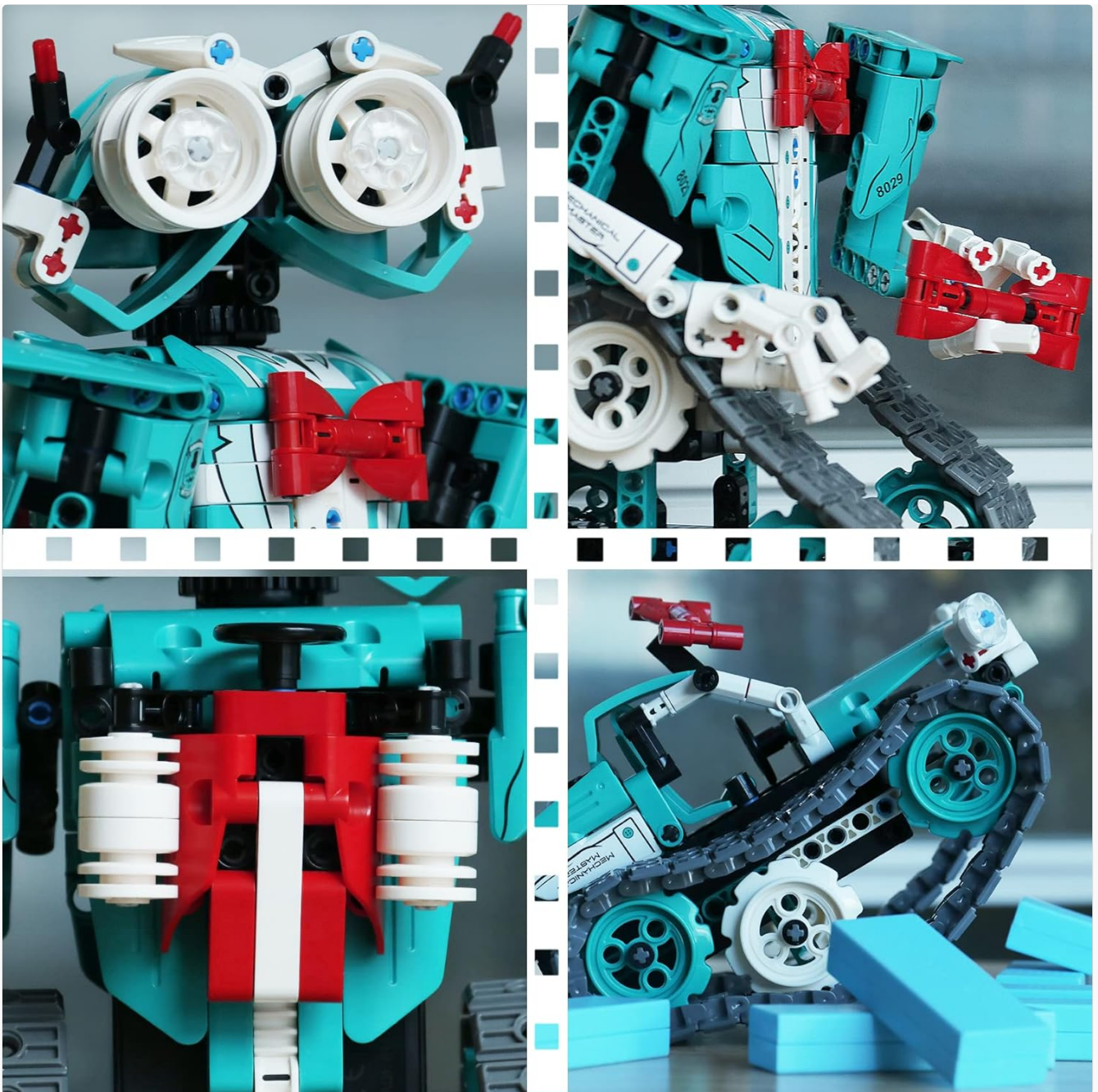


Figure 3.2: Detailed views of the robot's components and design elements.

4. SETUP

4.1 Battery Installation

The robot body and remote control require disposable batteries for operation. Refer to the specific instructions in the included manual for battery type and installation procedures for each component.

- Locate the battery compartments on the robot body and the remote control.
- Insert the specified batteries, ensuring correct polarity (+/-).
- Securely close the battery compartments.

4.2 App Download and Connection

To utilize app control features, download the dedicated IQKidz application to your smartphone or tablet. The app facilitates advanced control and programming functionalities.

- Scan the QR code provided in the physical manual or search for "IQKidz" in your device's app store.
- Install the application.
- Follow the in-app instructions to pair your device with the robot via Bluetooth.

5. OPERATING INSTRUCTIONS

The robot can be controlled using either the included remote control or the dedicated smartphone application.

5.1 Remote Control Operation

Use the physical remote control for basic movement and directional commands.

- Ensure the robot and remote control are powered on.
- Refer to the remote control diagram in the physical manual for specific button functions (e.g., forward, backward, turn left, turn right).



Figure 5.1: Children operating the robot using the remote control.

5.2 App Control and Programming

The IQKidz app offers enhanced control options, including driving simulation, gyroscope control, navigation path programming, and block-based coding.

- **Control Mode:** Direct control for movement.
- **Gyro Mode:** Control the robot's movement by tilting your device.
- **Driving Simulation:** Virtual joystick control.
- **Navigation Path:** Draw a path on the screen for the robot to follow.
- **Programming:** Utilize block-based coding to create custom movement sequences and actions.



Figure 5.2: The IQKidz app interface for controlling the robot.

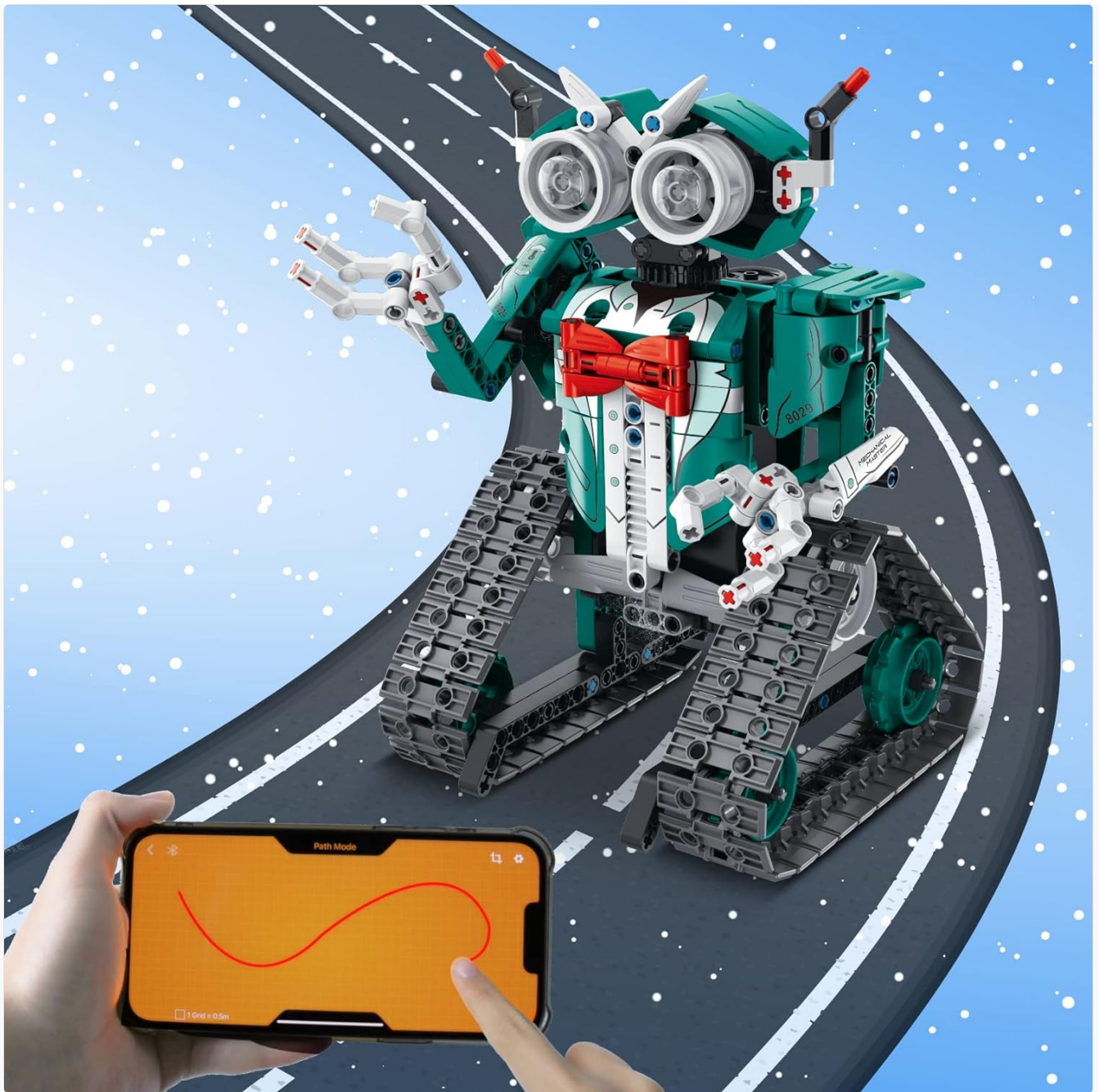


Figure 5.3: Demonstrating the navigation path programming feature via the app.

6. MAINTENANCE

6.1 Cleaning

- Wipe the building blocks and robot components with a dry, soft cloth.
- Avoid using harsh chemicals or abrasive materials, as these may damage the plastic.
- Do not immerse electronic components in water.

6.2 Storage

- Store the kit in a cool, dry place away from direct sunlight.
- Keep small parts organized to prevent loss.

- Remove batteries from the robot and remote control if storing for extended periods to prevent leakage.

7. TROUBLESHOOTING

If you encounter issues with your IQKidz RC Robot, refer to the following common solutions:

Problem	Possible Cause	Solution
Robot does not power on.	Batteries are low or incorrectly installed.	Check battery polarity. Replace with fresh batteries.
Remote control does not respond.	Remote control batteries are low or connection issue.	Replace remote control batteries. Ensure robot and remote are within range and paired.
App cannot connect to the robot.	Bluetooth is off, app not paired, or robot is off.	Ensure robot is powered on. Enable Bluetooth on your device. Follow app pairing instructions. Restart both app and robot.
Robot moves erratically or not at all.	Loose connections in assembly or motor issue.	Inspect all building block connections. Ensure no obstructions to moving parts. Check battery levels.

8. SPECIFICATIONS

- **Brand:** IQKidz
- **Model Number:** 8029
- **ASIN:** B09P4MQRRS
- **Number of Pieces:** 440
- **Item Weight:** 1.94 pounds
- **Package Dimensions:** 11.18 x 8.7 x 2.64 inches
- **Recommended Age:** 6 years and up

8.1 Assembled Model Dimensions (Approximate)

- **Robot (Standing):** Height 8.6 inches, Width 5.9 inches
- **Stunt Tank:** Length 5.9 inches, Width 5.9 inches, Height 4.5 inches
- **Compact Robot:** Length 6.1 inches, Width 4.9 inches, Height 6.8 inches

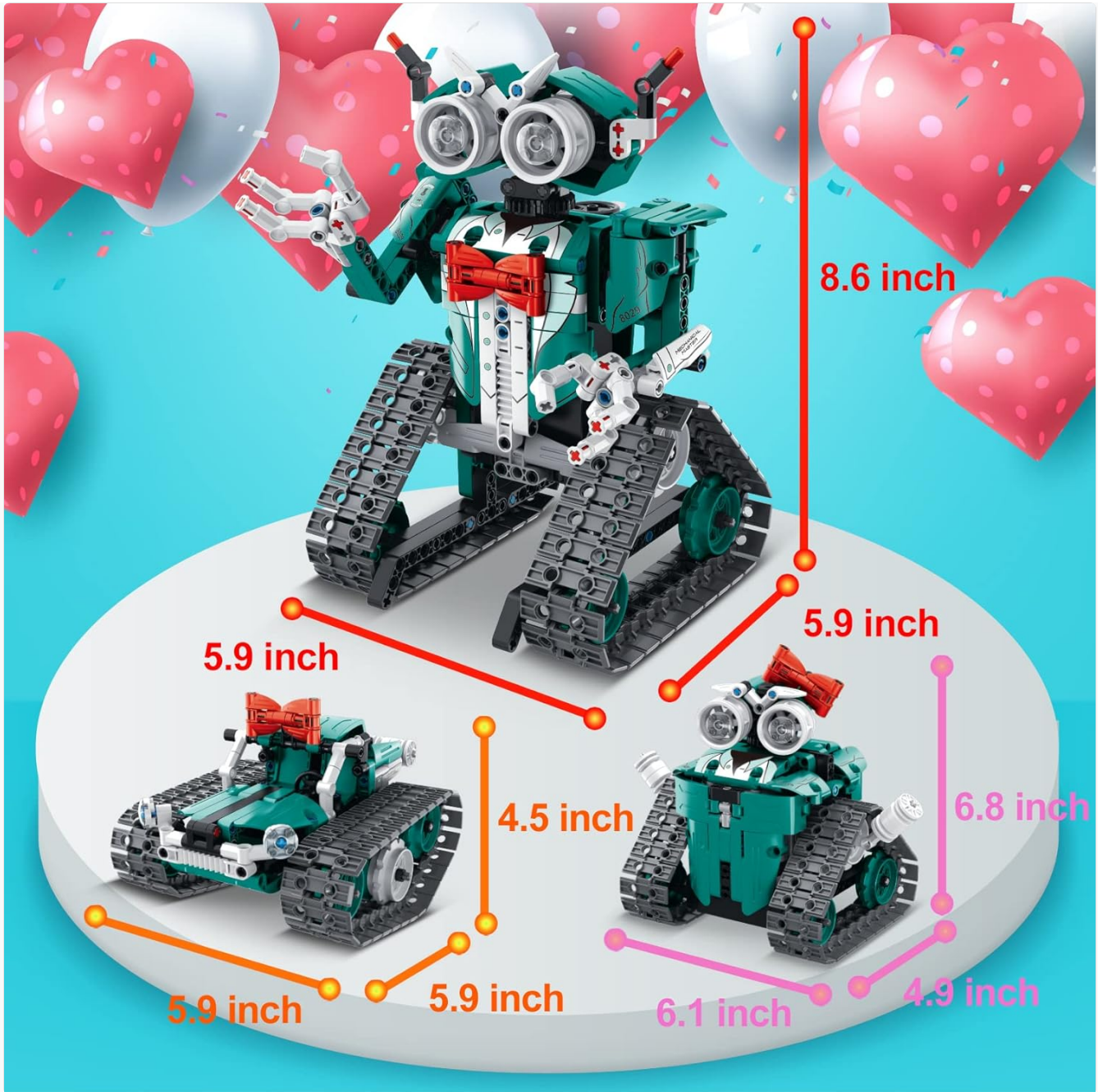


Figure 8.1: Approximate dimensions of the assembled robot models.



Figure 8.2: Product packaging dimensions.

9. SAFETY INFORMATION

- This product contains small parts and is not suitable for children under 3 years of age due to choking hazards.
- Adult supervision is recommended during assembly and operation.
- Do not operate the robot near water or in wet conditions.
- Do not attempt to modify the electronic components of the robot.
- Dispose of used batteries responsibly according to local regulations.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or contact IQKidz customer support directly. Support contact details are typically available on the product packaging or the official IQKidz website. If you require assistance with assembly, operation, or troubleshooting beyond the scope of this manual, please reach out to IQKidz customer service.