Apitor Robot Q(Storage)

Apitor Robot Q Robot Building Kit Instruction Manual

Model: Robot Q(Storage)

Introduction

The Apitor Robot Q Robot Building Kit is a comprehensive STEM educational toy designed to introduce children aged 6-12 to the creative world of coding and robotics. This 20-in-1 programmable APP RC car robotics coding kit allows users to construct various models, including robots, animals, vehicles, and buildings, fostering imagination and problem-solving skills. The kit includes a durable storage organizer to keep all components neatly sorted.

Image: The Apitor Robot Q kit, showcasing a built robot model and a tablet displaying the graphical programming interface.

Safety Information

This product is not suitable for children under 3 years of age or any individuals who have a tendency to place inedible objects in their mouths. Small parts may present a choking hazard.

What's in the Box

Your Apitor Robot Q Robot Building Kit includes the following components:

- 233 x building blocks
- 1 x Large Tote (14.6"L * 11.9"W * 6"H)
- 1 x Removable Tray with 14 partition trays
- 1 x Main control unit with two motors and two LED lights
- 1 x Infrared sensor for distance detection

- 1 x Color sensor for recognizing red, blue, and three other states
- User Guide / Instruction Manual

Image: A visual representation of the large tote and its removable sorting tray, highlighting their dimensions and organizational features.

Image: A detailed view of the removable tray, showcasing its compartments filled with various building block components, ready for organization.

Setup

Before beginning assembly, ensure all components listed in the "What's in the Box" section are present. Utilize the provided storage box and removable tray to sort the building blocks by type and color. This will significantly aid in the building process and keep your workspace organized. The Apitor blocks are designed for compatibility with most popular building block brands, allowing for expanded creative possibilities.

Refer to the included User Guide for detailed step-by-step assembly instructions for the 20 different models. Each model has specific building sequences to ensure proper functionality.

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Video: An unboxing video of the Robot Q kit, demonstrating the contents of the box, including the building blocks, main control unit, and storage bin. It also briefly showcases some assembled robot models.

Operating Instructions

The Apitor Robot Q offers multiple control modes and functions through its dedicated mobile application. Ensure your device (tablet or smartphone) has the Apitor app installed and is connected to the robot via Bluetooth.

Control Modes:

- **Dual Motor Control:** Control both motors simultaneously for forward, backward, and turning movements.
- **Single Motor Control:** Control individual motors for precise movements or specific functions of your built model.
- **Gyroscope Control:** Utilize your device's gyroscope to control the robot's movements by tilting the device.

Graphical Programming (Scratch 3.0):

The Apitor app features a user-friendly graphical programming interface based on Scratch 3.0. This allows children to learn programming logic by dragging and connecting code blocks without complex syntax. This visual approach helps in developing computational thinking and problem-solving abilities.

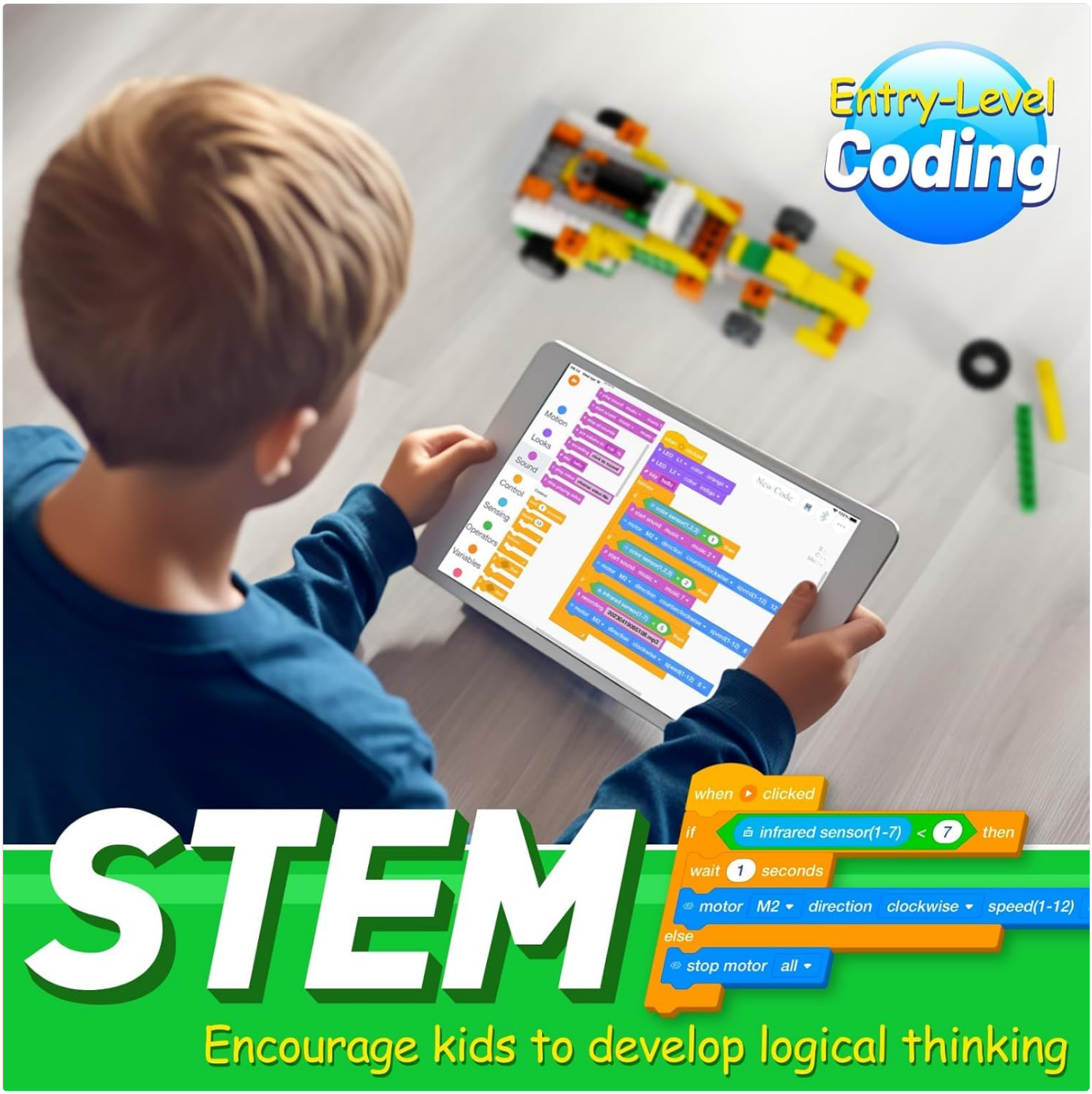

Image: A young user engaging with the Apitor application on a tablet, demonstrating the intuitive drag-and-drop graphical coding environment.

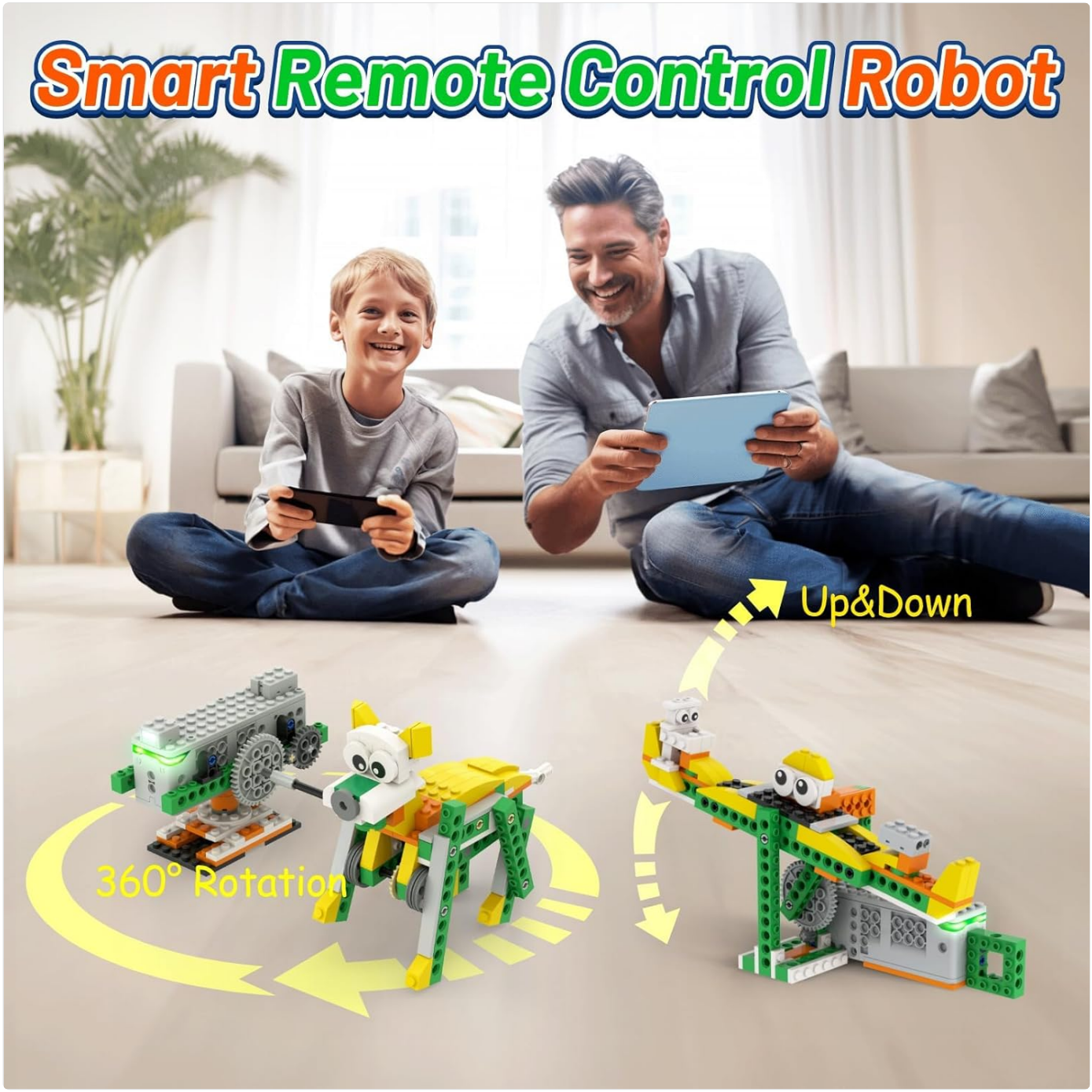

Image: A father and son collaboratively controlling their robot models using tablets, illustrating the smart remote control capabilities of the kit.

Image: Two children working together on their Apitor robot projects, highlighting the collaborative and teamwork aspects of the building and coding experience.

Sensors and Lights:

The robot kit is equipped with two LED lights, one infrared sensor for distance detection, and one color sensor capable of recognizing red, blue, and three other states. These sensors can be integrated into your programs to create interactive and responsive robot behaviors.

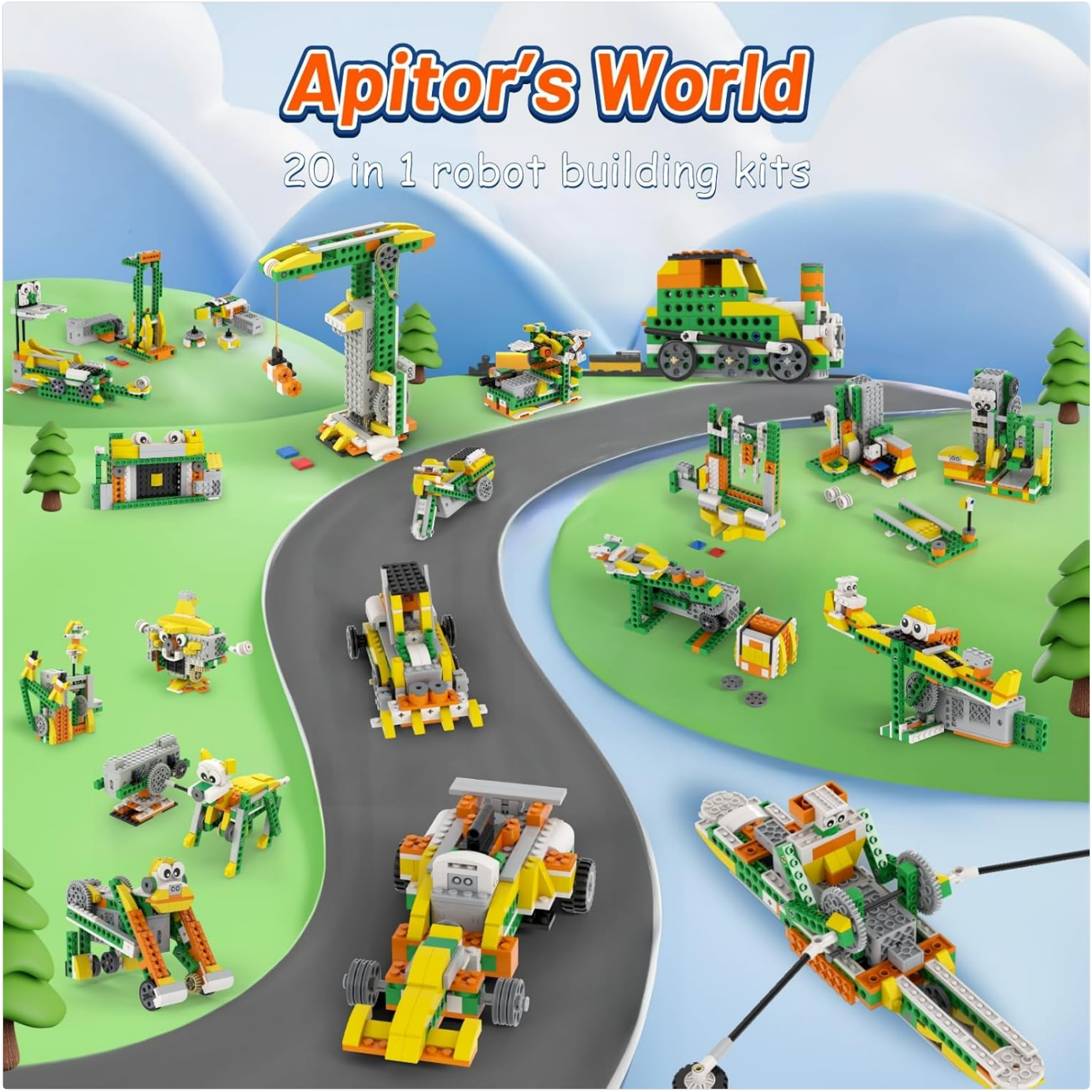

Image: A diverse collection of robot models that can be constructed using the Apitor building kit, showcasing the 20-in-1 versatility.

Maintenance

To ensure the longevity and optimal performance of your Apitor Robot Q kit, follow these maintenance guidelines:

- **Cleaning:** Wipe building blocks and electronic components with a dry, soft cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Always store the blocks and electronic parts in the provided storage box to prevent loss and damage. Ensure the removable tray is used to keep smaller items organized.
- **Electronic Components:** Handle the main control unit, motors, and sensors with care. The sensor wires can be delicate; avoid excessive pulling or bending to prevent damage.
- **Battery Care:** Remove batteries from the main control unit if the kit will not be used for an extended period to prevent leakage.

Troubleshooting

If you encounter issues with your Apitor Robot Q kit, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Robot does not respond to app commands.	Bluetooth not connected, low battery, incorrect program loaded.	Ensure Bluetooth is enabled on your device and the robot. Check battery levels in the main control unit and replace if necessary (use high-powered AA batteries). Verify the program loaded in the app is correct for the model.
Sensors (infrared/color) are not working.	Loose connection, sensor obstruction, incorrect programming.	Check that sensor wires are securely connected to the main control unit. Ensure sensors are not physically obstructed. Review your program to confirm correct sensor block usage and logic.
Motors are not moving or are weak.	Low battery, mechanical obstruction, incorrect motor direction/speed in program.	Replace batteries with fresh, high-powered ones. Check for any blocks or debris obstructing gears or wheels. Verify motor speed and direction settings in your program.
Building blocks do not fit or stay together.	Incorrect block placement, damaged block.	Double-check the assembly instructions for correct block orientation and placement. If a block appears damaged, set it aside and use an undamaged piece.

Specifications

Feature	Detail
Product Dimensions	17.52 x 12.99 x 6.73 inches
Item Weight	4.71 pounds
ASIN	B0B8YV9J3L
Item Model Number	Robot Q(Storage)
Manufacturer Recommended Age	6 - 12 years
Manufacturer	Apitor
Building Blocks Included	233 pieces
Control Modes	Dual Motor, Single Motor, Gyroscope
Sensors	Infrared, Color
Programming Interface	Graphical (Scratch 3.0 based)

Warranty and Support

Specific warranty information for the Apitor Robot Q Robot Building Kit is not provided in this manual. For details regarding warranty coverage, technical support, or replacement parts, please contact Apitor customer service directly. You can typically find contact information on the product packaging or on the official Apitor website.
For additional resources and frequently asked questions, please visit the Apitor Store on Amazon.