Apitor Robot X

Apitor Robot X STEM Robotics Kit Instruction Manual

Model: Robot X

Introduction

The Apitor Robot X STEM Robotics Kit is an educational building block set designed to introduce children aged 8-12 years to the principles of Science, Technology, Engineering, and Mathematics (STEM) through hands-on construction, programming, and remote control. This kit allows users to build and rebuild 12 different robot models, fostering creativity, logical thinking, and problem-solving skills.

Image: The Apitor Robot X kit, showcasing the main robot model, the storage box, and the app interface for coding.

Safety Information

Warning: Not suitable for children under 3 years due to small parts which may present a choking hazard. Adult supervision is recommended during assembly and play.

What's in the Box

Your Apitor Robot X kit includes the following components:

- Over 600 x Building Blocks
- 1 x Control Module
- 1 x High-speed Module (with 2 built-in motors)
- 1 x Low-speed Module
- 2 x Infrared Sensors
- 1 x Color Sensor
- 3 x Connection Cables
- Building Instructions Manual
- User Guide

- Storage Box
- Sorting Tray

Image: A visual representation of the Apitor Robot X kit contents, highlighting the various building blocks, electronic components, and the included storage solution.

Setup and App Installation

1. **Unpack Components:** Carefully remove all parts from the storage box and sort them using the provided sorting tray.
2. **Install Batteries:** The control unit requires 3 x AA batteries (not included). Insert them according to the polarity markings.
3. **Download the Apitor Kit App:**
   The Apitor Kit app is essential for detailed building instructions, remote control, and coding. It is compatible with iOS and Android devices.
   - Search for "Apitor Kit" in the Apple App Store or Google Play Store.
   - Download and install the app on your smartphone or tablet.
4. **Connect to the Robot:** Once the robot is assembled and powered on, open the Apitor Kit app. The app will guide you through connecting to your robot via Bluetooth.

Image: The Apitor User Guide and a visual cue for downloading the Apitor Kit app.

Assembly Instructions

The Apitor Robot X kit offers the flexibility to build 12 different models. Detailed, step-by-step assembly instructions for each model are provided within the Apitor Kit app.

1. **Select a Model:** Open the Apitor Kit app and navigate to the "Build" section. Choose one of the 12 available models you wish to construct.
2. **Follow On-Screen Instructions:** The app provides interactive 3D building guides, allowing you to rotate, zoom, and view each step clearly.
3. **Connect Electronic Components:** Pay close attention to the app's instructions for connecting the control unit, motors, and sensors using the provided cables. Ensure all connections are secure.

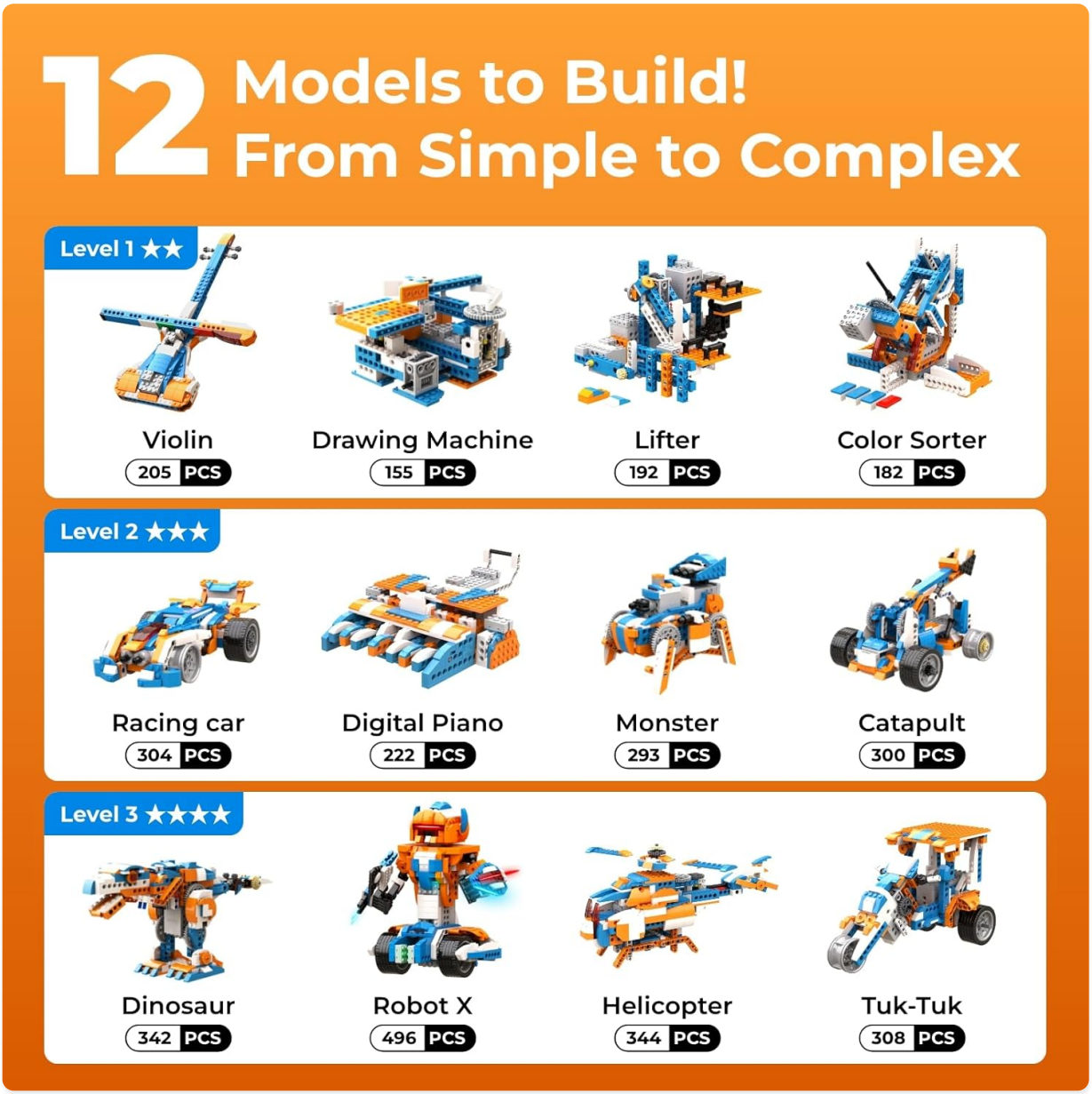


Image: A visual guide illustrating the 12 distinct robot models that can be assembled from the Apitor Robot X kit, ranging in complexity.

Image: A tablet showing the Apitor Kit app's build interface, demonstrating how users can follow digital instructions to assemble their robot.

Operating the Robot

Once your robot is fully assembled and connected to the Apitor Kit app, you can control its movements and functions.

Remote Control Mode

The app features a remote control interface for immediate interaction with your robot.

- Navigate to the "Control" section within the app.
- Use the on-screen joysticks or buttons to move the robot forward, backward, left, right, and perform 360-degree stunts.
- Experiment with different controls to understand your robot's capabilities.

Image: A smartphone displaying the remote control interface of the Apitor Kit app, used to direct the robot's movements.

Graphical Programming (Coding)

The Apitor Kit app provides a graphical programming interface for learning basic coding concepts.

- Access the "Code" section in the app.
- Use the drag-and-drop block-based coding environment to create sequences of commands.
- Program your robot to perform various actions such as following lines, avoiding obstacles, detecting distances, and controlling LED lights.
- Follow the step-by-step tutorials within the app to learn different coding challenges.

Image: A child engaging with the intuitive color-coded, drag-and-drop coding interface of the Apitor Kit app on a tablet.

Image: The Apitor Kit app's graphical programming environment displayed on both a tablet and a smartphone, illustrating its accessibility.

Key Features

- **12-in-1 Robot Kit:** Build and rebuild 12 different models from over 600 building blocks.

- **Interactive Sensors:** Includes infrared sensors for obstacle avoidance and line following, and a color sensor for interactive play.
- **Multicolor LED Lights:** The control unit features 7 multicolor LED lights that can be programmed.
- **App-Controlled:** Seamless control via the Apitor Kit app (iOS/Android) for remote driving and coding.
- **Graphical Programming:** Learn coding with an intuitive drag-and-drop interface.
- **Durable Construction:** Designed for repeated assembly and robust play.

Image: An exploded view of the Apitor Robot X, detailing the placement and function of its key electronic components like sensors, motors, and LED lights.

Storage and Maintenance

Storage

The kit includes a durable storage box with 14 partition trays to keep all 600+ blocks and components organized. The removable trays allow for flexible organization of smaller items, while the extra depth accommodates bulkier supplies.

Image: A graphic illustrating the key features of the included storage box: large capacity, heavy-duty construction, and stackability for efficient organization.

Maintenance

- **Cleaning:** Wipe blocks and electronic components with a dry, soft cloth. Avoid using water or cleaning solutions directly on electronic parts.
- **Battery Care:** Remove batteries from the control unit if the robot will not be used for an extended period to prevent leakage.
- **Component Inspection:** Periodically check all connection cables and blocks for any signs of wear or damage. Replace damaged parts if necessary.

Troubleshooting

If you encounter issues with your Apitor Robot X, consider the following common solutions:

- **Robot Not Responding:**
  - Ensure batteries are correctly installed and have sufficient charge.
  - Verify the control unit is powered on.
  - Check Bluetooth connection in the Apitor Kit app.
- **Assembly Difficulties:**
  - Refer to the detailed 3D instructions in the Apitor Kit app.
  - Ensure all blocks are firmly connected.
- **App Issues:**
  - Restart the app.
  - Ensure your device's operating system is up to date.
  - Check for app updates in your device's app store.

For further assistance, please refer to the contact information provided in the user guide or on the Apitor website.

Specifications

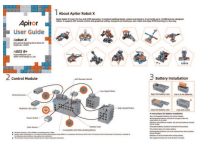
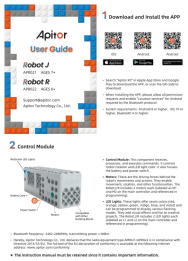
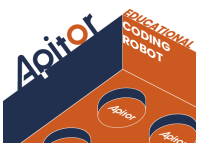
Feature	Detail
Product Dimensions	17.52 x 12.99 x 6.73 inches
Item Weight	5.65 pounds
Model Number	Robot X

Recommended Age	8 - 12 years
Power Source	3 x AA batteries (not included)
Connectivity	Bluetooth (via Apitor Kit App)
App Compatibility	iOS and Android devices

Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the official Apitor website or contact Apitor customer service directly. Contact details are typically found in the included user guide or on the product packaging.

Related Documents - Robot X

	Apitor SuperBot Educational Building Block Robot Kit User Manual User manual for the Apitor SuperBot, an educational building block robot kit for STEM learning. Features 400+ pieces, 18+ robot builds, app control, and graphical programming for ages 8+.
	Apitor R05A Robot X User Manual and FCC Compliance Apitor R05A Robot X user manual detailing FCC compliance, operating conditions, and troubleshooting for radio frequency interference. Includes manufacturer and importer information.
	Apitor Robot J/R User Guide: Setup, Connection, and Operation Comprehensive user guide for Apitor Robot J (APR021) and Robot R (APR022). Learn about control module components, battery installation, Bluetooth connection via the Apitor Kit app, and LED status indicators. Includes technical specifications and safety information.
	Apitor Coding Robots: STEM Educational Building Kits for Kids | Robot X & Robot Q Explore Apitor's innovative coding robots, Robot X and Robot Q. Designed for children aged 6-12, these STEM educational building block kits foster creativity, problem-solving, and fun learning experiences with hundreds of pieces and multiple configurations.
	Apitor Robot Wheels APR011 FCC ID 2AS4DR01W Compliance Information Official FCC and ISED compliance statements for the Apitor Robot Wheels model APR011 (FCC ID: 2AS4DR01W, IC: 33012-R01W). Includes regulatory compliance, RF exposure limits, and manufacturer details from Apitor Technology Co., Ltd. and responsible party X-media USA Inc.