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› UBTECH JIMU Robot Competitive Series: Champbot Kit User Manual

UBTECH JRA0505

UBTECH JIMU Robot Competitive Series: Champbot Kit User Manual

Model: JRA0505

This manual provides detailed instructions for the assembly, operation, and maintenance of your UBTECH JIMU Robot Competitive Series: Champbot Kit. Please read thoroughly before use.

ABOUT YOUR CHAMPBOT KIT

The UBTECH JIMU Robot Competitive Series: Champbot Kit is an innovative app-enabled building and coding STEM robot kit designed to engage users in robotics and programming. This kit allows you to build and program robots like ChampBot, BasketBot, and ScoreBot to perform various competitive tasks, such as shooting and scoring points with precision.

Key features include 3 servo motors for smooth motion, 2 DC motors for powerful movement, and an IR sensor for obstacle detection. The kit is designed to provide a hands-on learning experience in a fun, competitive environment.



Figure 1: The assembled UBTECH JIMU Robot Champbot Kit, ready for action.

SAFETY INFORMATION

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

Adult supervision is recommended during assembly and operation, especially for younger users, to ensure safe handling of all components.

PACKAGE CONTENTS

Before beginning assembly, please verify that all components listed below are present in your kit:

- 522 Snap-together parts
- 3 Smooth motion robotic servo motors
- 2 DC motors
- 1 IR Sensor
- 1 Main control box

- 1 USB cable
- Quick start guide
- 3 Sports balls
- Stickers
- Buildable basketball hoop



Figure 2: An overview of the various parts included in the Champbot Kit, ready for assembly.

SETUP AND ASSEMBLY

The JIMU Robot kit utilizes a free app for detailed 3D, 360° animated building instructions. No tools are required for assembly, as all parts snap together securely.

App Installation:

1. Download the free JIMU app from your device's app store (compatible with both Android and Apple smart devices).
2. Ensure your smart device has a stable internet connection for initial download and updates.

Building Instructions:

The JIMU app provides interactive, step-by-step 3D, 360° animated instructions. Follow these guides within the app for precise construction of your robot. You can choose to build one of three different robots: ChampBot, BasketBot, or ScoreBot, or even invent your own custom design.

3D, 360° BUILDING INSTRUCTIONS

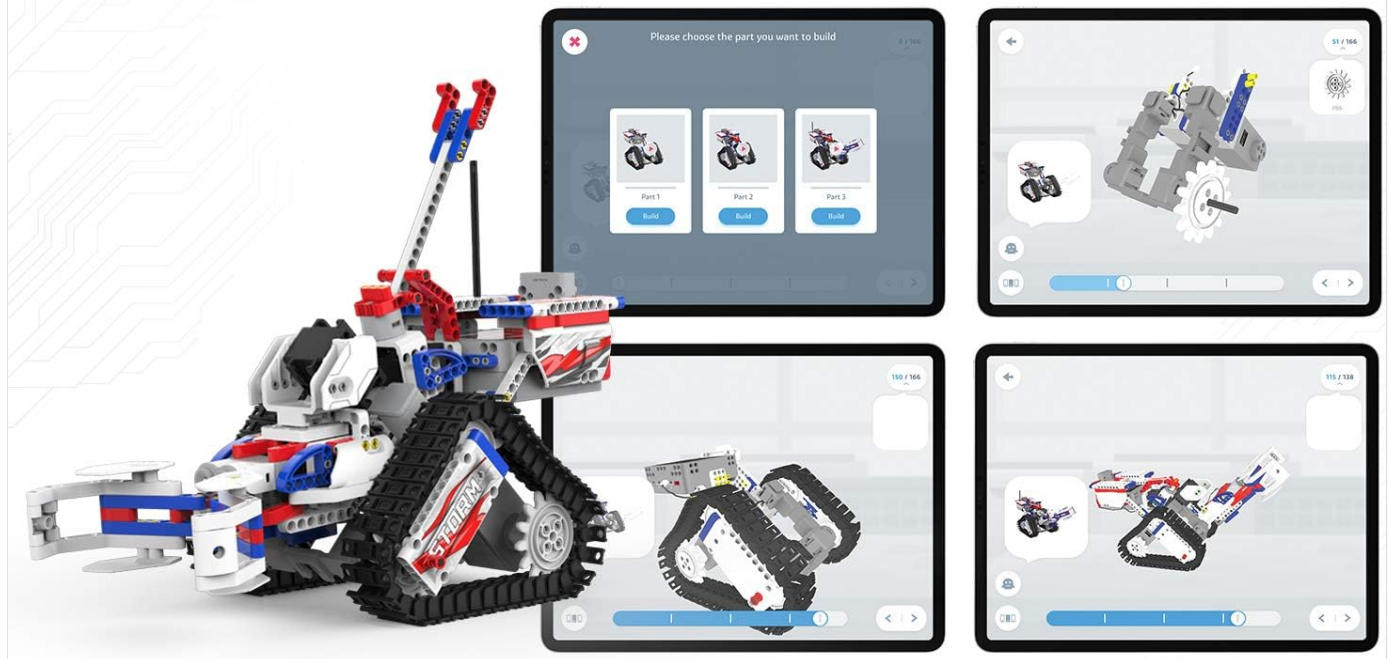


Figure 3: The JIMU app provides interactive 3D, 360° building instructions for easy assembly.

BUILD ANY OF THESE 3 ROBOTS OR INVENT YOUR OWN

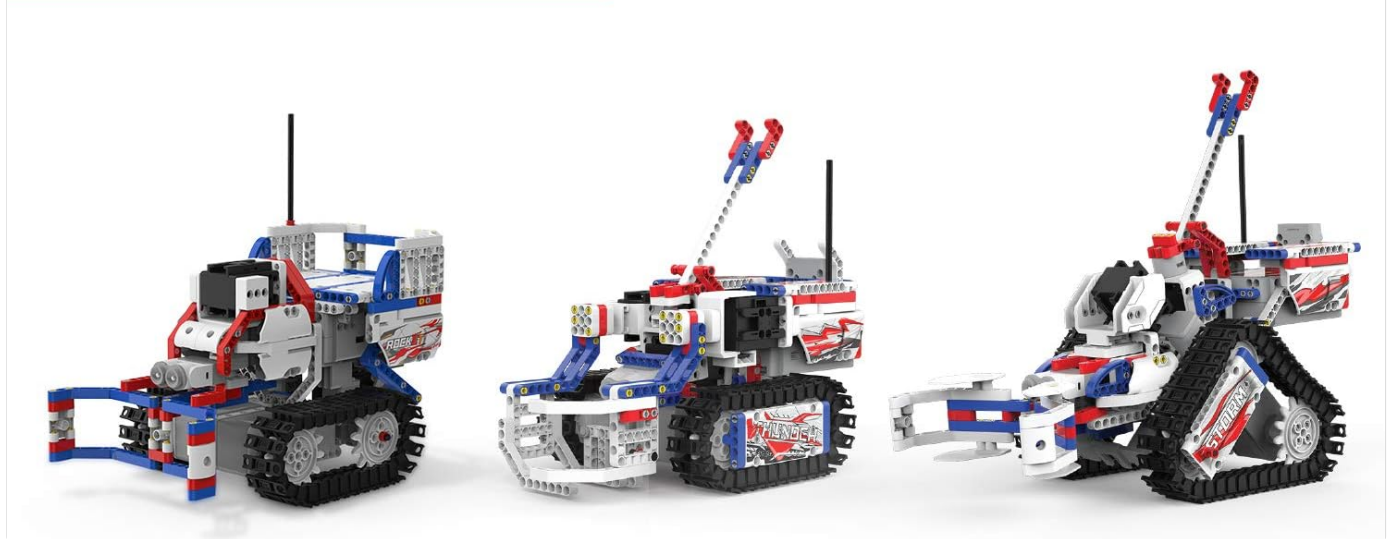


Figure 4: The kit allows you to build three distinct robot models: ChampBot, BasketBot, and ScoreBot.

OPERATING YOUR ROBOT

Once assembled, the JIMU Robot is controlled and programmed via the dedicated app. Ensure your robot's main control box is powered on and connected via Bluetooth to your smart device.

Basic Movement and Interaction

Use the app's interface to drive your robot, pick up and launch the included game balls, and navigate around obstacles. The 3 servo motors and 2 DC motors allow for precise and fluid movements, while the IR sensor helps the robot avoid opponents or obstacles in its path.



Figure 5: The Champbot demonstrating its ability to pick up and manipulate game balls.

Programming and Coding

The JIMU app features a user-friendly Blockly-based coding interface. This visual programming language allows you to drag and drop code blocks to create custom actions, sequences, and behaviors for your robot. Experiment with different commands to make your robot perform complex maneuvers and achieve competitive goals.

MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your JIMU Robot:

- **Cleaning:** Wipe the robot's surfaces with a dry, soft cloth. Do not use harsh chemicals, abrasive cleaners, or immerse any part of the robot in water.
- **Battery Care:** The kit includes a Lithium Polymer battery. Refer to the app or quick start guide for specific charging instructions. Always ensure the robot is powered off when not in use to conserve battery life. Avoid overcharging or

completely draining the battery.

- **Storage:** Store the robot and its components in a dry, cool place, away from direct sunlight and extreme temperatures. Keep parts organized to prevent loss.

TROUBLESHOOTING

If you encounter issues with your JIMU Robot, refer to the table below for common problems and solutions:

Problem	Solution
Robot not responding to commands	Check the robot's battery charge. Ensure Bluetooth connection to the app is active and stable. Restart both the robot and the app.
JIMU app not loading or crashing	Ensure your smart device meets the app's minimum system requirements (iOS or Android compatible). Try force-closing and reopening the app. If the problem persists, try reinstalling the app or checking for app updates.
Parts not fitting together correctly during assembly	Carefully review the 3D animated instructions in the JIMU app. Pay close attention to part orientation and connection points. Ensure you are using the correct parts as indicated in the app.
Robot movements are jerky or imprecise	Ensure all servo motors and DC motors are correctly connected to the main control box. Check for any obstructions in the robot's moving parts. Calibrate the motors via the app if a calibration option is available.

SPECIFICATIONS

Feature	Detail
Product Dimensions	13 x 5.5 x 8.5 inches
Item Weight	3 pounds
Item Model Number	JRA0505
Manufacturer Recommended Age	8 years and up
Batteries	1 Lithium Polymer battery (included)
Country of Origin	China
Motors	3 Servo Motors, 2 DC Motors
Sensors	1 IR Sensor
Connectivity	App-enabled (Bluetooth)

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please visit the official UBTECH Robotics website or contact their customer service directly. It is advisable to keep your purchase receipt as proof of purchase for any warranty claims.

Additional online resources, frequently asked questions (FAQs), and community forums may also be available through the JIMU Robot app or UBTECH's support channels.

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