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› WANCHENG Power Functions Super Motor Kit for LEGO 42122 Jeep Wrangler: Instruction Manual

WANCHENG Super Motor

WANCHENG Power Functions Super Motor Kit for LEGO 42122 Jeep Wrangler: Instruction Manual

Model: Super Motor Kit

1. INTRODUCTION

This instruction manual provides detailed guidance for the WANCHENG Power Functions Super Motor Kit, designed to enhance your LEGO 42122 Jeep Wrangler model. This kit enables remote control, APP control, and programmable functions, bringing dynamic movement to your LEGO creation. Please note that the LEGO model itself is not included with this motor kit.

2. SAFETY INFORMATION

- This product is recommended for ages 14 and up.
- Keep small parts away from young children to prevent choking hazards.
- Do not expose the battery box or motors to water or extreme temperatures.
- Use only the provided USB cable for charging the battery box and remote control.
- Ensure all connections are secure before operation.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1x Servo Motor
- 1x L Motor
- 1x USB Charging Cable

- 1x 2.4G Rechargeable Rocker Remote Control
- 1x 2.4G Rechargeable Battery Box
- Assembly Parts (various connectors and small components)



Figure 3.1: Overview of the WANCHENG Power Functions Super Motor Kit components. The image displays the servo motor, L motor, USB charging cable, 2.4G rechargeable rocker remote control, 2.4G rechargeable battery box, and various small assembly parts. A faded image of the LEGO 42122 Jeep Wrangler model is in the background, indicating the intended application.

4. SETUP AND ASSEMBLY

Detailed electronic PDF assembly instructions are provided to guide you through the installation of the motor kit into your LEGO 42122 Jeep Wrangler model. Follow these instructions carefully for proper integration.

1. **Prepare your LEGO Model:** Ensure your LEGO 42122 Jeep Wrangler model is ready for the motor kit installation.
2. **Access PDF Instructions:** Refer to the provided electronic PDF assembly instructions for step-by-step guidance on integrating the motors and battery box.
3. **Connect Motors:** Connect the Servo Motor and L Motor to the designated points on your LEGO

model as indicated in the PDF.

4. **Install Battery Box:** Securely place the rechargeable battery box within the model and connect the motors to its output interfaces.
5. **Charge Components:** Before first use, fully charge the battery box and the remote control using the supplied USB cable.

5. COMPONENTS OVERVIEW

5.1. Servo Motor

The Servo Motor is responsible for controlling the rotation angle, primarily used for steering functions, allowing precise directional control of your vehicle.

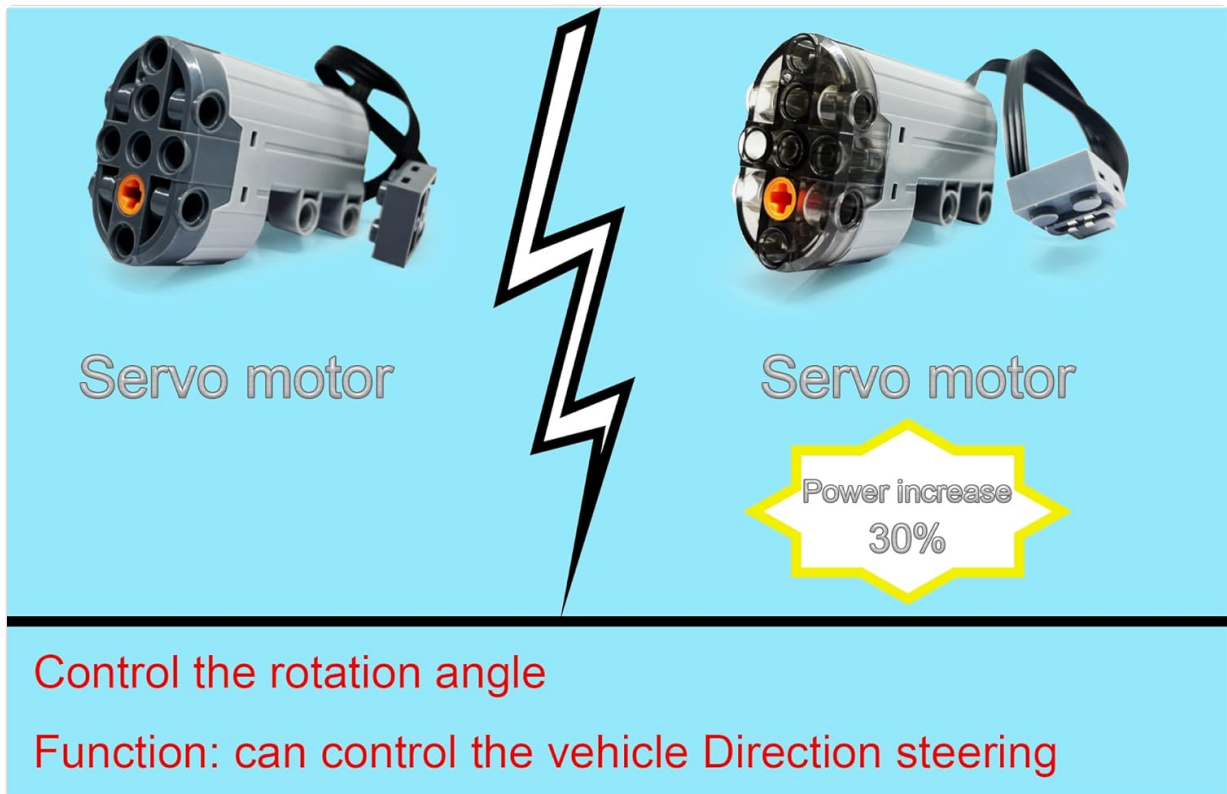


Figure 5.1: Servo Motor functionality. This image illustrates the servo motor, which controls the rotation angle for steering. The kit includes an enhanced version with a 30% power increase.

5.2. L Motor

The L Motor is a speed motor designed to provide propulsion, enabling the vehicle to move forward and backward.

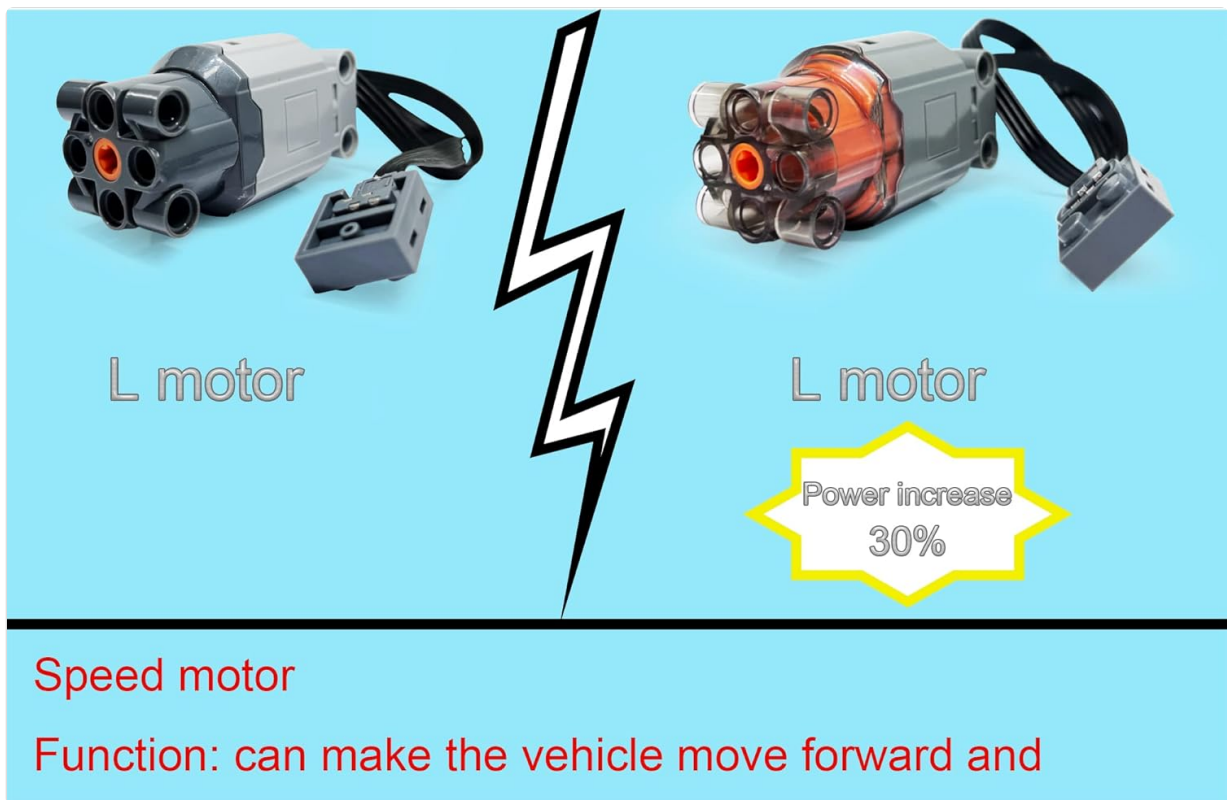


Figure 5.2: L Motor functionality. This image displays the L motor, which functions as a speed motor for forward and backward movement. The kit includes an enhanced version with a 30% power increase.

5.3. 2.4G Rechargeable Rocker Remote Control

This joystick-style remote control allows for direct manual operation of your LEGO model. It is rechargeable via the USB cable.

5.4. 2.4G Rechargeable Battery Box

The battery box powers the motors and other components. It features four output interfaces for connecting multiple motors simultaneously and supports potentiometer speed control. It is rechargeable via the USB cable.

5.5. USB Charging Cable

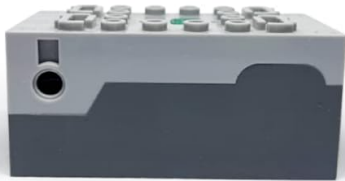
Used for recharging both the remote control and the battery box.



Rocker Fernbedienung



USB Charging Cable



Battery case

- ①. Joystick Fernbedienung und APP-Steuerung, programmierbar, Die Fernbedienung und Batteriebox kann aufgeladen werden.
- ②. Four output interfaces, which can connect multiple motors at the same time
- ③. 4 Kanäle, Potentiometer Geschwindigkeitssteuerungsfunktion usw. Sie können Kontrolle für Ihr Modell durchführen, Das Ihr Modell voller Vitalität machen kann.

Figure 5.3: Remote Control, USB Cable, and Battery Box. This image displays the 2.4G rechargeable rocker remote control, the USB charging cable, and the 2.4G rechargeable battery box, which are key components for operating the motor kit.

6. OPERATING INSTRUCTIONS

The motor kit offers multiple control methods:

6.1. Remote Control Operation

Use the 2.4G Rechargeable Rocker Remote Control for direct manual control:

- **Power On:** Ensure the battery box and remote control are charged and powered on.
- **Pairing:** The remote control and battery box should automatically pair. If not, refer to the PDF instructions for pairing steps.
- **Movement:** Use the joysticks to control forward, backward, left, and right movements of your LEGO model.

6.2. APP Control (Remote Mode)

Download the dedicated APP to control your model via a smartphone or tablet:

1. **Download APP:** Search for the WANCHENG control APP on your device's app store.

2. **Connect:** Open the APP and connect to the battery box via Bluetooth.
3. **Remote Mode:** Select the "Remote Mode" within the APP. Use the on-screen controls to operate your model.

APP Remote Mode



APP Programming Mode

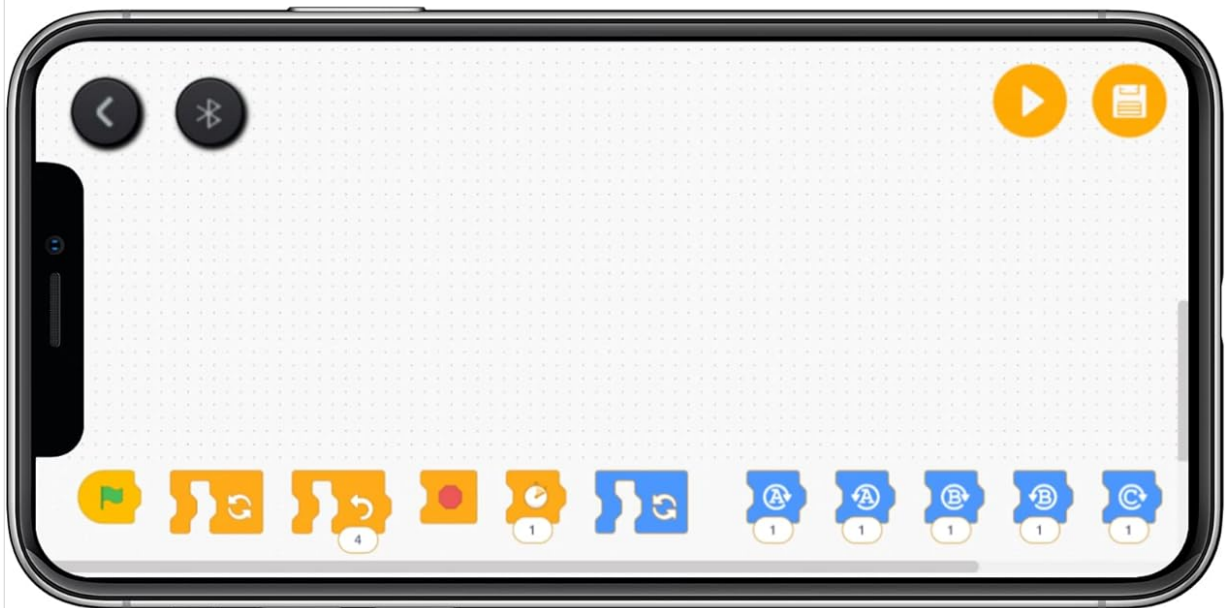


Figure 6.1: APP Remote Mode interface. This image shows the user interface for controlling the motor kit via a smartphone application in remote mode, featuring virtual joysticks and control buttons.

6.3. APP Programming Mode

The APP also allows for programming custom movements and sequences:

1. **Access Programming Mode:** Within the APP, select the "Programming Mode."
2. **Drag and Drop:** Use the block-based programming interface to drag and drop commands to create sequences of movements.
3. **Execute Program:** Run your created program to observe your LEGO model perform the programmed

actions.

APP Remote Mode



APP Programming Mode

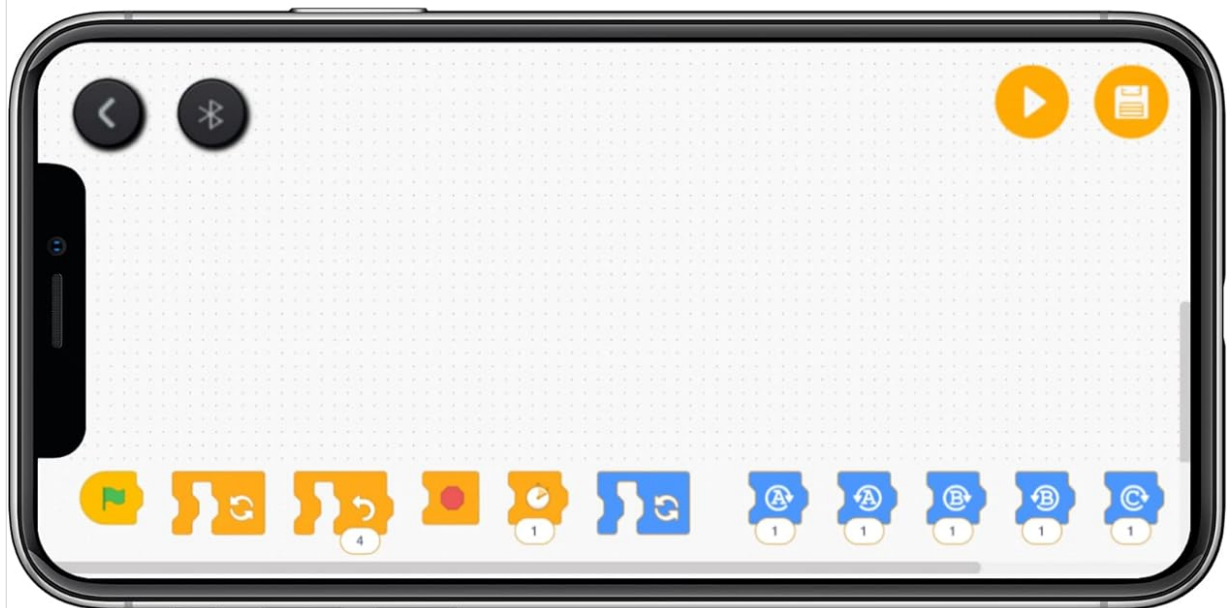


Figure 6.2: APP Programming Mode interface. This image illustrates the block-based programming interface within the smartphone application, allowing users to create custom movement sequences for their LEGO model.

7. MAINTENANCE

- **Cleaning:** Wipe components with a dry, soft cloth. Do not use harsh chemicals or liquids.
- **Charging:** Recharge the battery box and remote control regularly, especially if not used for extended periods, to maintain battery health.
- **Storage:** Store the kit in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motors not responding	Low battery in battery box or remote control; loose connections; not paired.	Charge battery box and remote. Check all cable connections. Re-pair remote/APP with battery box.
APP not connecting	Bluetooth off; APP not updated; battery box off.	Ensure Bluetooth is enabled on your device. Update the APP to the latest version. Power on the battery box.
Model moves erratically	Interference; motor not properly installed.	Move away from other 2.4Ghz devices. Re-check motor installation according to PDF instructions.

9. SPECIFICATIONS

- **Brand:** WANCHENG
- **Model:** Super Motor Kit
- **Compatibility:** LEGO 42122 Jeep Wrangler
- **Control Methods:** 2.4G Remote Control, APP Control (Remote & Programming Modes)
- **Power Source:** Rechargeable Battery Box
- **Recommended Age:** 14 years and up

10. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your WANCHENG Power Functions Super Motor Kit, please do not hesitate to contact our customer service. We are committed to providing assistance and ensuring your satisfaction.

For detailed electronic PDF assembly instructions, please refer to the documentation provided with your purchase or contact support.