

SHENGLE RX30 Control Box Kit

SHENGLE 24V Kids Ride On Car DIY Modified Harness Instruction Manual

Model: RX30 Control Box Kit

1. PRODUCT OVERVIEW

This SHENGLE 24V DIY Modified Harness is a complete set of accessories designed for modifying children's electric ride-on cars. It provides the necessary components for upgrading or repairing the electrical system, excluding the battery.

Key Features:

- Kids Ride On Car 24V DIY Modified Harness Complete Set of Accessories (No Battery)
- Complete Set of Accessories: 2.4G Remote Control, RX30 Control Box (Circuit Board), Wires, Switch, Pedal, Overload Protector
- 2.4G Bluetooth Remote Control, High-Low Speed Adjustment Function, 4X4 Drive System, Powerful Motor
- Easy to Install, Repair, and Replace
- Only the Battery Are Not Included

2. COMPONENTS INCLUDED

The complete set includes the following components:

- **2.4G Remote Control:** For wireless operation and speed adjustment.
- **RX30 Control Box (Circuit Board):** The central processing unit for the ride-on car's electrical system.
- **Wiring Harness:** Pre-assembled wires for connecting all components.
- **Power Switch:** To turn the vehicle on and off.
- **Accelerator Pedal:** For controlling vehicle speed.
- **Overload Protector:** A safety device to prevent electrical damage.
- **Drive Motors:** Components for the 4X4 drive system.

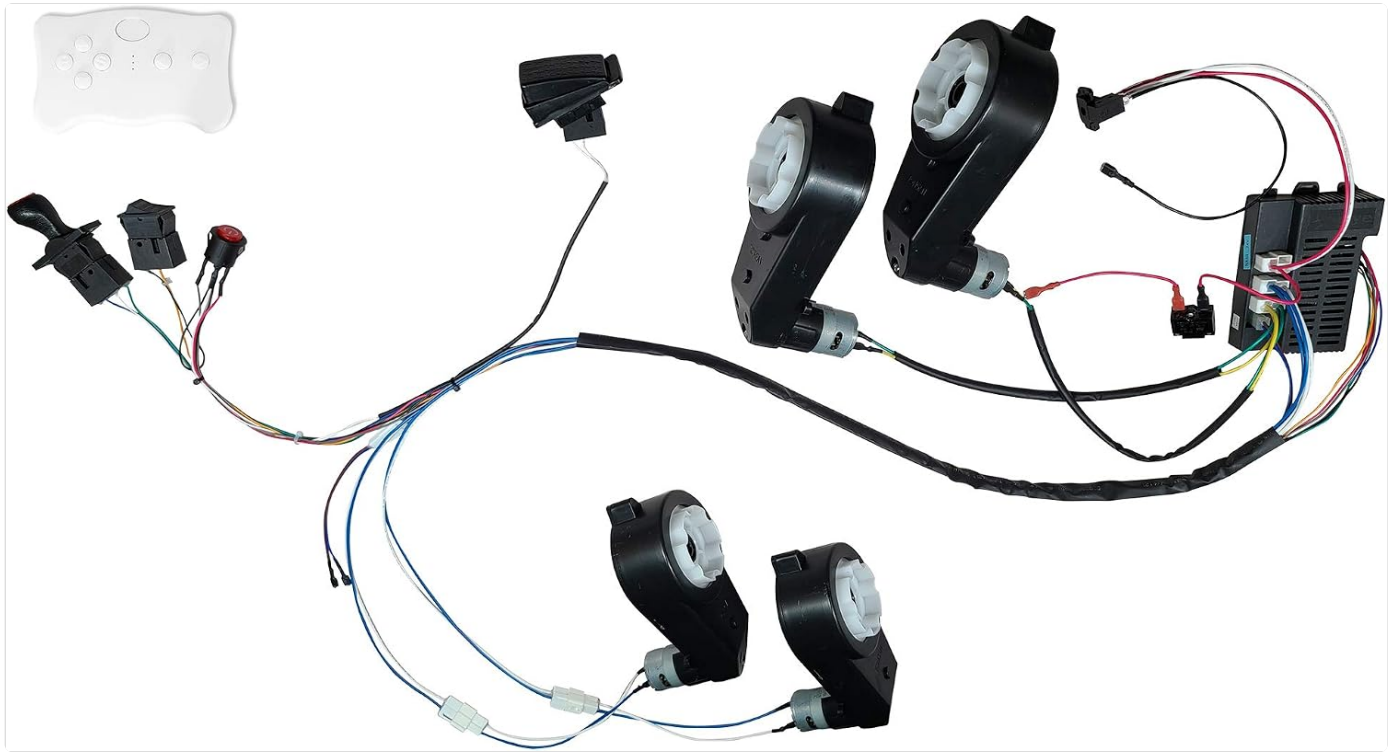


Figure 2.1: Overview of the complete SHENGLE 24V DIY Modified Harness kit, showing the remote control, control box, various wires, switches, and drive motors.



Figure 2.2: Close-up of the 2.4G Bluetooth Remote Control, featuring buttons for various functions including speed adjustment.

3. SETUP AND INSTALLATION

This kit is designed for DIY modification and replacement. Installation requires basic electrical knowledge and careful attention to wiring. Ensure the ride-on car is disconnected from any power source before beginning installation.

Installation Steps:

1. **Preparation:** Disconnect the existing battery and remove the old wiring harness and components from the ride-on car.
2. **Connect Motors:** Connect the new drive motors to the appropriate connectors on the provided wiring harness. Ensure secure connections.
3. **Install Control Box:** Mount the RX30 Control Box securely within the vehicle's chassis. Connect the main power wires and motor wires to the control box as indicated by the wiring diagram (not included in this manual, refer to product packaging or online resources if available).
4. **Connect Switches and Pedal:** Connect the power switch, accelerator pedal, and any other auxiliary switches (e.g., high/low speed, shifter) to the corresponding ports on the wiring harness.
5. **Overload Protector:** Integrate the overload protector into the main power circuit as specified. This is crucial for safety.
6. **Battery Connection:** Once all components are connected, connect your 24V battery (not included) to the main power input of the harness. Double-check all connections for polarity and security before powering on.
7. **Test Functionality:** Before reassembling the car, perform a preliminary test of all functions (power, forward/reverse, speed settings, remote control).

Note: While designed for ease of installation, some modifications may require additional tools or expertise, such as soldering for more secure connections, as noted by some users. Ensure all connections are robust to prevent disconnections during operation.

4. OPERATING INSTRUCTIONS

After successful installation, operate the ride-on car using the integrated controls or the 2.4G Bluetooth remote control.

4.1. Powering On/Off

- Press the main power switch on the vehicle to turn it on. An indicator light may illuminate.
- To turn off, press the main power switch again.

4.2. Using the Accelerator Pedal

- Once powered on, press the accelerator pedal to move the vehicle forward.
- Release the pedal to stop the vehicle.

4.3. Remote Control Operation

The 2.4G Bluetooth remote control allows parents to control the vehicle's movement and speed.

- **Pairing:** Refer to the remote control's specific instructions for pairing with the RX30 Control Box. Typically involves holding a button on the remote while turning on the vehicle.
- **Directional Control:** Use the directional buttons (forward, backward, left, right) to steer the vehicle.
- **Speed Adjustment:** The remote control features high-low speed adjustment. Use the designated speed button to toggle between speed modes.
- **Emergency Stop:** The remote control usually has an emergency stop button (often labeled 'P' or 'Stop') that immediately halts the vehicle.

4.4. Shifter/Gearbox Control

- If your setup includes a physical shifter, use it to select forward, neutral, or reverse gears.
- Ensure the vehicle is stationary before changing gears to prevent damage to the gearbox.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your modified ride-on car.

- **Battery Care:** Always use a compatible 24V battery. Charge the battery fully after each use and before long-term storage. Do not overcharge or completely drain the battery.
- **Wiring Inspection:** Periodically inspect all wiring connections for looseness, corrosion, or damage. Secure any loose connections and replace damaged wires immediately.
- **Motor Check:** Listen for unusual noises from the motors during operation. If motors are overheating or making excessive noise, discontinue use and inspect for issues.
- **Cleanliness:** Keep the control box and electrical components free from dirt, dust, and moisture. Use a dry cloth for cleaning.
- **Overload Protector:** If the overload protector trips frequently, it may indicate an underlying issue (e.g., motor strain, short circuit). Investigate the cause rather than bypassing the protector.

6. TROUBLESHOOTING

If you encounter issues with your modified ride-on car, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Vehicle does not power on.	Battery not charged or connected.	Check battery charge and connections.
	Main power switch faulty.	Inspect/replace power switch.
	Overload protector tripped.	Reset overload protector; investigate cause if it trips again.
	Loose wiring connection.	Verify all wiring connections are secure.
Vehicle moves slowly or lacks power.	Low battery charge.	Recharge battery.
	Motor issue.	Inspect motors for damage or wear.
	High/Low speed setting.	Ensure high-speed mode is selected (if applicable).
Remote control not working.	Remote batteries dead.	Replace remote batteries.
	Not paired correctly.	Re-pair remote control with the vehicle.
	Interference.	Move to an area with less electronic interference.
One or more wheels not turning.	Loose motor connection.	Check motor wiring connections.
	Damaged motor.	Inspect motor for physical damage or replace.
	Gearbox issue.	Check gearbox for stripped gears.

If the problem persists after attempting these solutions, professional assistance may be required.

7. SPECIFICATIONS

Attribute	Detail
Product Dimensions	3.94 x 3.15 x 3.54 inches
Item Weight	5.3 ounces
ASIN	B08SR5B4X8

Attribute	Detail
Manufacturer Recommended Age	36 months - 14 years
Manufacturer	SHENGLE

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your original purchase or visit the official SHENGLE website. Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question