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Model: HY2005RX-RM-24V

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your ToiCottage HY2005RX-RM-24V 2.4GHz Bluetooth Remote Control and Controller Box for kids' ride-on toys. Please read this manual thoroughly before use to ensure proper function and safety.

PRODUCT OVERVIEW

The ToiCottage HY2005RX-RM-24V system includes a motor controller box and a 2.4GHz Bluetooth remote control, designed for 24V children's electric vehicles. This system enables remote operation and control of the ride-on toy's movement and speed.

**The two are not compatible,
must be the same model to use**



Image: The ToiCottage HY2005RX-RM-24V controller box and its accompanying 2.4GHz Bluetooth remote control are displayed together, showcasing the complete product package.

What's Included:

- HY2005RX-RM-24V Receiver (Controller Box)
- 2.4GHz Bluetooth Remote Control

Key Features:

- 2.4GHz Bluetooth connectivity for stable remote control.
- Designed for 24V ride-on toy applications.
- Includes both controller box and remote for comprehensive replacement.

COMPATIBILITY AND MODEL VERIFICATION

It is crucial to verify that the model number of your existing controller matches the HY2005RX-RM-24V model. Incompatible models will not function correctly. Please note that models HY2005RX-24V/40A and HY2005M-HL-24V are not compatible with this unit.



Image: Comparison of two controller models. The image clearly states "The two are not compatible, must be the same model to use" above two distinct controller units labeled "HY2005RX-RM-24V" and "HY2005RX-24V/40A". This illustrates the importance of matching model numbers for proper function.

SETUP INSTRUCTIONS

1. Installation of Controller Box

Carefully replace the old controller box with the new HY2005RX-RM-24V unit. Ensure all wiring connections (steering motor, drive motors, power supply) are correctly attached to the corresponding ports on the new controller. Refer to the original wiring diagram of your ride-on toy if available.



Image: A detailed view of the HY2005RX-RM-24V controller board. Labels for "Steering motor", "Drive motor", and "Power Supply" are visible, indicating connection points for the ride-on toy's components.

2. Remote Control Pairing

After installing the new controller, the remote control must be paired with the receiver. Follow these steps:

1. Ensure the ride-on toy is powered **OFF**.
2. On the remote control, press and hold the **"M"** button for 3 to 5 seconds until the LED light on the remote starts blinking. This indicates pairing mode.
3. While the remote's LED is blinking, turn the ride-on toy **ON**.
4. The remote and controller should automatically pair. The LED on the remote will stop blinking and remain solid, indicating successful pairing.
5. If pairing fails, power off both the toy and remote, then repeat the steps.



Image: A product box displaying "2.4G Remoter Control Instructions". The instructions detail the pairing process, including holding the "M" button and turning on the toy for automatic pairing.

OPERATING INSTRUCTIONS

Once the remote control is successfully paired with the controller box, you can operate the ride-on toy. The remote control features various buttons for movement and speed adjustments.



Image: A close-up view of the white 2.4GHz Bluetooth remote control. Buttons for direction (forward, backward, left, right), speed, and stop are visible.

Remote Control Key Functions:

- **Forward** (\blacktriangle): Moves the toy forward.
- **Backward** (\blacktriangledown): Moves the toy backward.
- **Left** (\blacktriangleleft): Turns the toy left.
- **Right** (\blacktriangleright): Turns the toy right.
- **Speed (S)**: Press the "S" key to cycle through speed settings. One light indicates low speed, two lights for medium speed, and three lights for high speed. Note: Some car models may only support medium speed via remote.
- **Stop (P)**: Press the "P" key to engage the brake and stop the toy. The indicator light will flash.

MAINTENANCE

To ensure the longevity and proper functioning of your controller and remote control, follow these maintenance guidelines:

- Keep the controller box and remote control dry. Moisture can damage electronic components.
- Avoid exposing the components to extreme temperatures or direct sunlight for extended periods.
- Clean the surfaces with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly check battery compartments for corrosion and replace batteries as needed.
- Store the components in a safe place when not in use to prevent physical damage.

TROUBLESHOOTING

If you encounter issues with your ToiCottage HY2005RX-RM-24V system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Remote control does not communicate with the car, even after pairing.	<ul style="list-style-type: none"> ◦ Incorrect pairing procedure. ◦ Remote control batteries are low or depleted. ◦ Controller or remote defect. 	<ul style="list-style-type: none"> ◦ Re-attempt pairing following the "Remote Control Pairing" steps precisely. ◦ Replace the remote control batteries. ◦ Ensure the controller model is exactly HY2005RX-RM-24V. Incompatible models will not work. ◦ If the issue persists, the unit may be defective.
Car functions with wired inputs (pedal, steering wheel) but not via remote.	<ul style="list-style-type: none"> ◦ Remote not properly paired. ◦ Issue with the remote control's signal transmission or the receiver's reception. 	<ul style="list-style-type: none"> ◦ Perform the pairing process again. ◦ Check for any obstructions or interference.
Remote control LED blinks but does not pair.	<ul style="list-style-type: none"> ◦ Ride-on toy not powered on during pairing attempt. ◦ Incompatible controller model. 	<ul style="list-style-type: none"> ◦ Ensure the toy is turned ON after the remote enters pairing mode. ◦ Double-check the controller model number against the required HY2005RX-RM-24V.

SPECIFICATIONS

Feature	Detail
Model Name	HY2005RX-RM-24V
Brand	ToiCottage
Supply Voltage	DC 24V
Load Current	Max 40A
Frequency	2.407GHz-2.473GHz
Connectivity Technology	Bluetooth (2.4GHz)
Controller Type	Remote Controller
Included Components	Receiver and Remote Control
Item Dimensions	5 x 3 x 2 inches (approximate for controller)
Item Weight	0.3 Pounds (approximate)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your original ride-on toy or contact the manufacturer of the ride-on toy directly. As this product is a replacement part, specific warranty details may vary. Ensure you retain your purchase receipt for any warranty claims.