EASYGUARD IM002

EASYGUARD IM002 Car Immobiliser System Instruction Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the EASYGUARD IM002 2.4GHz Vehicle Immobiliser Security System. This system is designed to enhance vehicle security with features such as automatic engine lock/unlock, anti-hijacking, and anti-theft capabilities. It is compatible with 12V DC vehicles, including sedans, SUVs, and pickup trucks, but is not suitable for motorcycles or heavy trucks.

Figure 1: EASYGUARD IM002 Car Immobiliser System main unit and remote controls.

Product Features

- **Engine Automatic Lock/Unlock:** Automatically locks the car engine when the remote control is 1-2 meters away and unlocks when the remote is within 1-2 meters. This function operates independently of door locking/unlocking.
- **Anti-Hijacking:** If the vehicle is in an ignition-on state and the remote signal is not detected, the device will enter anti-hijacking mode and shut off the engine after 70 seconds.
- **Emergency Override:** Provides a method to start the vehicle if the remote control is lost or has low power.
- **Low Battery Detection/Reminder:** After the engine starts, if the remote control battery voltage drops below 2.3V within 10 seconds, the buzzer will beep 3 times, repeating after 3 seconds to remind the user to change the battery (CR2032 type).
- **Factory Setting Reset:** The device automatically reverts to factory default settings if power is suddenly cut off.
- **Code Learning/Programming:** Allows new remote controls to be programmed to the device if a remote is lost or its battery is depleted.

Package Contents

- Main Unit x1
- Remote Control x2
- English User Manual and Wiring Diagram x1

Installation

General Installation Notes

- Installation requires basic knowledge of car electrical systems. Professional installation is recommended.
- Ensure the vehicle's battery is disconnected before beginning installation.
- Refer to the wiring diagram carefully for correct connections.

Wiring Diagram

Figure 2: Detailed wiring diagram for the EASYGUARD IM002 Car Immobiliser System installation.

Installation Overview (Similar Product)

Video 1: Overview of the CHADWICK M506 Wireless Engine Lock, demonstrating features similar to the EASYGUARD IM002. This video provides general context for wired immobilizer installation.

Video 2: Guide on selecting the correct pins for installation of a similar M506 car immobiliser, which can be helpful for wiring the IM002 model.

Operating Instructions

Engine Automatic Lock/Unlock

The system automatically locks the car engine when the remote control is moved 1-2 meters away from the vehicle. Conversely, the engine automatically unlocks when the remote is brought within 1-2 meters of the vehicle. This

feature provides seamless security without manual intervention.

Figure 3: Diagram illustrating automatic engine lock and unlock based on remote proximity (2-3 meters).

Anti-Hijacking Function

In the event of a hijacking, if the vehicle's ignition is on and the system cannot detect the remote control's signal, it will activate anti-hijacking mode. The engine will then shut off automatically after 70 seconds, preventing the vehicle from being driven further by unauthorized individuals. The system will exit anti-hijacking mode if the remote signal is detected again.

Figure 4: Visual representation of the anti-hijacking feature, showing a locked engine icon over a car.

Video 3: Demonstration of the anti-hijacking feature of the immobiliser system, showing how the engine shuts down if the remote is not detected.

Video 4: Video showcasing the anti-theft capabilities of the immobiliser, preventing unauthorized engine starts.

Emergency Override

If the remote control is lost or its battery is depleted, preventing the car from starting, an emergency override procedure can be performed. Refer to the detailed instructions in the included user manual for the specific steps to execute the emergency override.

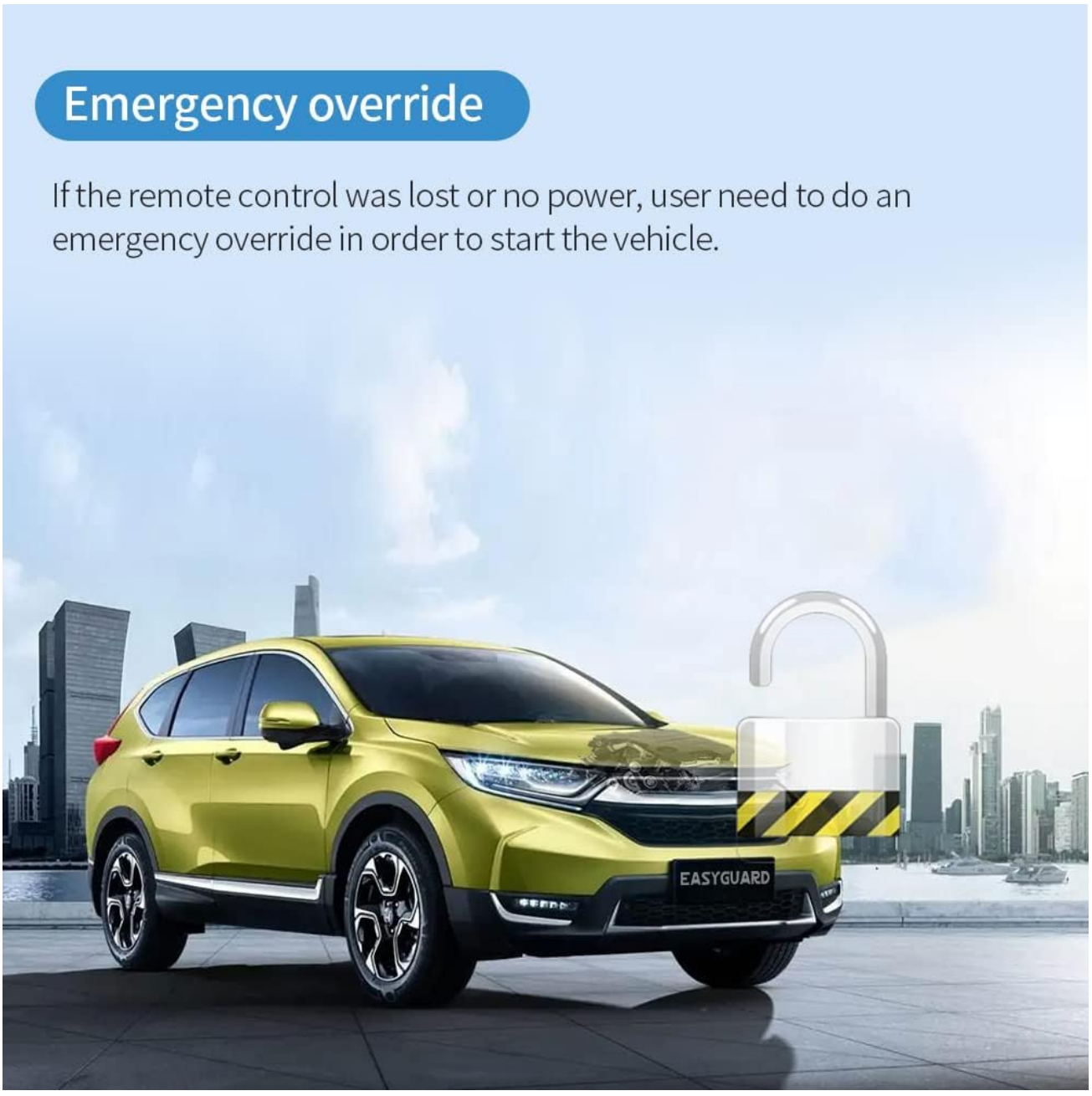


Figure 5: Image depicting the emergency override function, showing an unlocked engine icon over a car.

Low Battery Detection/Reminder

The system monitors the remote control's battery level. Approximately 10 seconds after the engine starts, if the remote battery voltage is below 2.3V, the vehicle's buzzer will emit three beeps. This warning will repeat after another 3 seconds, signaling that the remote control battery (CR2032 type) needs to be replaced promptly.

Figure 6: Illustration of the low battery detection reminder, with a car and a low battery icon for the remote.

Code Learning/Programming Method

In cases where a remote control is lost or its battery is completely drained, new remote controls can be programmed to the immobiliser device. The specific steps for code learning and programming are detailed in the comprehensive user manual provided with the product.

Figure 7: Close-up of the remote control, highlighting its design for code learning and programming.

Testing Method

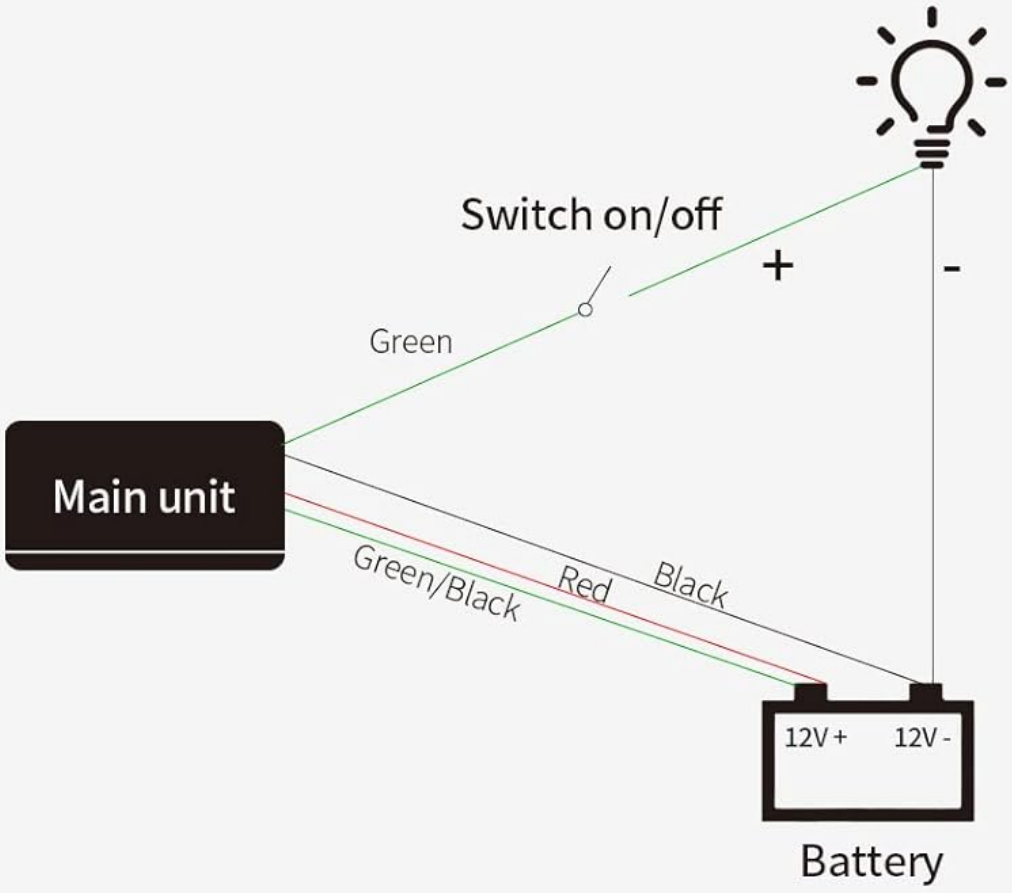
To verify the functionality of the immobiliser device, a testing method is provided. This method allows you to confirm the device's operation before full vehicle integration. For detailed instructions on how to perform the test, refer to the user manual.

Testing Method

EASYGUARD

Refer to the following testing method

Method 1: Following below method to do a test



Method 2: Install it on your vehicle to do a testing.

Figure 8: Diagram for testing the immobiliser unit using a 12V battery and a light bulb.

Specifications

Feature	Detail
Model Number	IM002
Item Weight	10.6 ounces
Package Dimensions	6.02 x 4.41 x 2.13 inches
Batteries	2 CR2 batteries required (included)
Wireless Remote	Yes
Compatible Devices	Cars, SUVs, Pickups (DC12V)
Maximum Range	2 Meters

Troubleshooting

- **Engine Not Starting:** Ensure the remote control is within the 1-2 meter range. Check the remote control battery level. If the battery is low, replace it or perform an emergency override.
- **Automatic Lock/Unlock Not Functioning:** Verify the remote control battery is not low. Ensure there are no significant obstructions or strong electromagnetic interference affecting the 2.4GHz signal.
- **Buzzer Beeps Continuously:** This typically indicates a low battery in the remote control. Replace the CR2032 battery.
- **Anti-Hijacking Mode Activates Unexpectedly:** Ensure the remote control is always kept within the detection range while driving. Check for any signal interference or remote battery issues.
- **Device Not Responding:** Check all wiring connections according to the provided diagram. Ensure the vehicle's battery connections are secure.

Warranty and Support

For specific warranty information, technical support, or further assistance, please refer to the contact details provided in your product packaging or visit the official EASYGUARD website. Keep your purchase receipt for warranty claims.