

## EASYGUARD EC003N-V

# EASYGUARD EC003N-V Car Burglar Alarm Security System User Manual

Model: EC003N-V

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the EASYGUARD EC003N-V Car Burglar Alarm Security System. This system integrates Passive Keyless Entry (PKE), remote engine start, and push-button start functionalities for DC12V petrol cars.

## 2. PRODUCT OVERVIEW

The EASYGUARD EC003N-V system includes the following main components:

- Control Module
- Key Fobs/Transmitters (2 included)
- Push Start/Stop Button
- PKE Antennas
- Alarm Siren
- Wiring Harnesses
- Reset Switch
- Relay



Figure 2.1: Main components of the EC003N-V system.

## 2.1 Key Fob Functions

## Button function



Figure 2.2: Key fob with labeled buttons for various functions.

## 2.2 System Dimensions

## Dimension



Figure 2.3: Control Module Dimensions.

## Button size & color



Figure 2.4: Push Start Button Dimensions.

## How to replace battery?



1. Prize up the shell with a flat screw driver, handle with care & avoid breaking the shell of key fob



2. Take out the PCB (no need to un-screw) from the key fob shell & replace with new CR2032 battery.

Figure 2.5: Key Fob Dimensions.

### 3. FEATURES

- **Passive Keyless Entry (PKE):** Automatically locks/unlocks doors when the key fob is within 1-3 meters of the vehicle.
- **Remote Engine Start/Stop:** Allows pre-warming or pre-cooling of the vehicle.
- **Push Button Start/Stop:** Enables engine ignition and shutdown without a traditional key.
- **Arm/Lock & Disarm/Unlock:** Standard security functions.
- **Mute Alarm:** Silences alarm notifications.
- **Panic Mode:** Activates the alarm for emergency situations.
- **Anti-Hijacking:** Security feature to prevent vehicle theft.
- **Remote Trunk Release:** Opens the trunk remotely (may require additional solenoid kit).
- **Illegal Door Opening/ACC Triggered:** Alerts to unauthorized access.
- **Valet Mode:** Disables certain security features for service.
- **Central Door Locking Automation:** Automatically locks doors when driving.
- **Emergency Override & Disarm:** Provides a method to disable the system in emergencies.

### 4. SETUP AND INSTALLATION

## 4.1 Important Installation Notes

- This system is compatible with most DC12V petrol cars, including automatic and manual transmission vehicles.
- Not compatible with vehicles equipped with a factory push start button, pneumatic locking systems, or those requiring a double unlock pulse signal.
- Professional car alarm installation is highly recommended.
- If your vehicle has a chip immobilizer in the factory OEM key fob, an extra bypass module (e.g., ASIN: B07NSLPBG7 or B00MEHBVIC) is required.
- The steering wheel lock must be unlocked, released, or removed during installation if present in your vehicle.
- Each time, only one key fob works while the other enters sleep mode until activated.

## 4.2 PKE Antenna Installation

Proper placement of the PKE antennas is crucial for optimal performance of the passive keyless entry feature. Refer to the video below for guidance on antenna installation.

Video 4.1: Guide to PKE antenna installation for the EASYGUARD system. This video demonstrates the recommended placement for the front and rear PKE antennas to ensure proper passive keyless entry functionality.

# 5. OPERATING INSTRUCTIONS

## 5.1 Remote Control Functions

- **Lock/Arm:** Press the lock button once on the key fob.
- **Unlock/Disarm:** Press the unlock button once on the key fob.
- **Remote Engine Start/Stop:** Keep pressing the start button on the key fob for approximately 3 seconds.
- **Panic Mode:** Press the panic button (often integrated with the start button, refer to Figure 2.2).
- **Remote Trunk Release:** Press the trunk release button (refer to Figure 2.2).

## 5.2 Passive Keyless Entry (PKE)

The PKE feature automatically manages door locking and unlocking based on the proximity of the key fob.

- **Automatic Unlock:** When you approach the vehicle with the key fob within 1-2 meters, the car doors will automatically unlock.
- **Automatic Lock:** When you walk away from the vehicle with the key fob, the car doors will automatically lock after 2-3 meters.

## PKE-Passive keyless entry



- Automatically unlock car door when approach the car in 1-2 meters with key fob



- Automatically lock car door when walk away from the car in 2-3 meters with key fob

Figure 5.1: PKE Passive Keyless Entry operation.

### 5.3 Engine Start/Stop with Push Button

The system offers two methods to start the engine and a simple method to shut it off.

## How to start the car?

### Method 1

In disarm status, stepping on foot brake pedal & short press the push start button once will start the car



### Method 2

In disarm status, keep pressing the start button 3 seconds while stepping on foot brake pedal will start the car



## How to shut off the car?

Once the car is started, stepping on foot brake pedal and short press push start button once will shut off the engine.

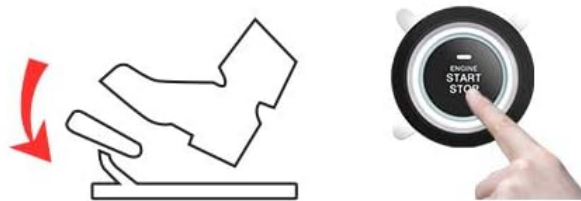


Figure 5.2: Engine Start/Stop methods.

- **Method 1 (Quick Start):** In disarmed status, step on the foot brake pedal and short press the push start button once.
- **Method 2 (Hold to Start):** In disarmed status, keep pressing the start button for 3 seconds while stepping on the foot brake pedal.
- **Shut Off Engine:** Once the car is started, step on the foot brake pedal and short press the push start button once.

### 5.4 Video Demonstrations

Video 5.3: Overview of the EASYGUARD EC003N-V-1 system components and basic functions.

Video 5.4: Demonstration of PKE and remote start functions for the EASYGUARD system.

Video 5.5: Detailed PKE and remote start operation for EASYGUARD EC003 series remote starters.

Video 5.6: General product demonstration for the EASYGUARD EC003N-V.

## 6. MAINTENANCE

## 6.1 Key Fob Battery Replacement

To ensure continuous functionality, replace the key fob battery when necessary.



Figure 6.1: Key Fob Battery Replacement Steps.

1. Carefully pry up the shell of the key fob with a flat screwdriver. Handle with care to avoid breaking the shell.
2. Remove the PCB (no need to unscrew) from the key fob shell and replace the old battery with a new CR2032 battery.

## 7. TROUBLESHOOTING

If you encounter any issues with the EASYGUARD EC003N-V system, consider the following general advice:

- **System Malfunction:** Ensure all wiring connections are secure and correctly installed according to the wiring diagram.
- **Remote Not Responding:** Check the key fob battery and replace it if necessary (refer to Section 6.1). Ensure you are within the operational range.
- **PKE Inconsistency:** Verify that the PKE antennas are correctly positioned and not obstructed. Ensure the key fob is not in sleep mode.
- **Engine Not Starting:** Confirm the vehicle is in disarmed status and the foot brake is pressed firmly. Check for any immobilizer bypass issues if applicable.

For complex issues or if you are unsure about any installation steps, it is strongly recommended to consult a

professional car alarm installer. Incorrect installation can lead to system malfunction or damage to your vehicle.

## 8. SPECIFICATIONS

Feature	Specification
Item Weight	2.87 pounds
Package Dimensions	10.31 x 7.01 x 4.41 inches
Item Model Number	EC003N-V
Batteries	2 CR2 batteries required (included)
Wireless Remote	Yes
Compatible Devices	Cars (DC12V petrol)
Maximum PKE Range	2-3 Meters
Noise Level (Siren)	30 Decibels
Manufacturer	Zhongshan easyguard electronics co.,ltd
Date First Available	May 22, 2017

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your EASYGUARD EC003N-V system, please visit the official EASYGUARD website or contact customer service.

Official Website: [www.ieasyguard.com](http://www.ieasyguard.com)

If you encounter any problems during installation or operation, please do not hesitate to contact EASYGUARD for technical assistance.