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EASYGUARD EC003N-K

EASYGUARD EC003N-K Car Alarm System User Manual

Model: EC003N-K | Brand: EASYGUARD

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your EASYGUARD EC003N-K Car Alarm System. This advanced system integrates passive keyless entry (PKE), remote engine start/stop, and a push button start/stop feature, designed to enhance your vehicle's security and convenience.

Important Note: Professional installation by a trained staff or certified alarm installer is highly recommended for this product to ensure proper functionality and safety. This system is compatible with most DC12V petrol cars, including automatic and manual transmission vehicles. It is not compatible with cars featuring a factory OEM push start button, pneumatic locking systems, or those with a double unlock pulse signal. Installation on luxury vehicles such as BMW or Mercedes-Benz is not advised.

2. PRODUCT COMPONENTS

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



Figure 2.1: Overview of all included components for the EC003N-K system.

- **Control Module:** The central processing unit for the alarm system.

Dimension



Figure 2.2: Control module with dimensions (approx. 107mm x 90mm x 88.6mm).

- **Key Fobs/Transmitters (x2):** Used for remote control functions and passive keyless entry.

Button function



Figure 2.3: Key fob illustrating LED indicator, Arm/Lock, Disarm/Unlock, Disarm/Trunk Release, and Start Button/Panic Mode functions.

- **Push Start/Stop Button:** Replaces the traditional ignition key for starting and stopping the engine.

Button size & color



Figure 2.4: Push start/stop button with blue, red, and yellow color indicators and dimensions (approx. 52mm diameter).

- **Siren:** Provides audible alerts for arming/disarming and alarm triggers.



Figure 2.5: The siren unit, rated DC12V 15W with 6 tones.

- **PKE Antennas (LF Antenna):** Two antennas for passive keyless entry detection.
- **Alarm Antenna (HF Antenna):** For general alarm signal reception.
- **Wire Harnesses:** Including 10-pin main wire harness and 6-pin ignition wire harness for system connections.
- **Relay:** For specific electrical connections within the vehicle's system.
- **Reset Switch:** For system reset and programming.

Component Overview Video

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Video 2.1: A detailed unboxing and overview of the EC003N-K product components.

3. SETUP AND INSTALLATION

The installation of the EASYGUARD EC003N-K system is complex and requires specialized knowledge of vehicle electrical systems. It is crucial that this item is installed by a professional car alarm installer to avoid damage to the product or your vehicle, and to ensure all safety features function correctly.

Key Installation Considerations:

- **Professional Installation:** Do not attempt DIY installation unless you are a qualified professional with experience in car alarm systems.
- **Steering Wheel Lock:** If your vehicle has a steering wheel lock, it must be unlocked, released, or removed during installation.
- **Bypass Module:** An extra bypass module (e.g., ASIN: B07NSLPBG7 or B00MEHBVIC) may be required if your factory OEM key fob has a chip immobilizer.
- **Trunk Release Solenoid:** An extra trunk release solenoid kit (e.g., ASIN: B00N4RP8VM) may be required for remote trunk release functionality.

Antenna Placement:

Proper placement of the PKE antennas is vital for optimal passive keyless entry performance. The system typically uses two PKE antennas (LF antennas) and one alarm antenna (HF antenna).

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Video 3.1: Demonstration of recommended PKE antenna installation locations within a vehicle.

Consult the detailed wiring diagram provided with your product for specific connection points and recommended antenna locations within your vehicle's interior. Incorrect wiring can lead to system malfunction or vehicle damage.

4. OPERATING INSTRUCTIONS

Passive Keyless Entry (PKE)

The PKE feature automatically locks or unlocks your car doors as you approach or walk away from the vehicle, provided the key fob is within range (typically 1-3 meters).

- **Automatic Unlock:** With the key fob in hand or pocket, approach the car within 1-2 meters, and the doors will automatically unlock.
- **Automatic Lock:** Walk away from the car for 2-3 meters with the key fob, and the doors will automatically lock.

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 4.1: Visual representation of PKE automatic lock and unlock distances.

Remote Engine Start/Stop

This feature allows you to remotely start your vehicle to pre-cool or pre-warm the interior before entry.

- **To Remote Start:** Press and hold the start button (often combined with the panic button icon) on your key fob for approximately 3 seconds. The vehicle's engine will start.
- **To Remote Stop:** While the engine is running via remote start, press and hold the same button on your key fob for approximately 3 seconds. The engine will shut off.



Figure 4.2: Remote engine start functionality for climate control.

Push Button Start/Stop

Once inside the vehicle, the push button replaces the traditional ignition key.

- **To Start the Engine:**

1. In disarmed status, step on the foot brake pedal and short press the push start button once.
2. Alternatively, in disarmed status, keep pressing the start button for 3 seconds while stepping on the foot brake pedal.

- **To Shut Off the Engine:** Once the car is started, step on the foot brake pedal and short press the push start button once.

How to start the car?

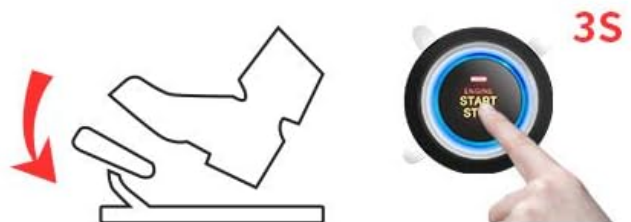
Method 1

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 footbrake 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 4.3: Instructions for starting and stopping the engine with the push button.

Additional Functions:

- **Arm/Lock:** Press the lock button on the key fob once to arm the alarm and lock the doors.
- **Disarm/Unlock:** Press the unlock button on the key fob once to disarm the alarm and unlock the doors.
- **Remote Trunk Release:** Press the trunk release button on the key fob to open the trunk (requires compatible vehicle wiring and potentially an additional solenoid kit).



Figure 4.4: Remote trunk release activated via key fob.

- **Panic Mode:** Press the panic button on the key fob to trigger the alarm for emergency situations.



Figure 4.5: Visual representation of panic mode activating the car alarm.

- **Anti-Hijacking:** This feature provides an additional layer of security against vehicle theft.
- **Valet Mode:** Temporarily disables certain alarm functions for vehicle servicing.
- **Central Door Locking Automation:** Doors automatically lock when driving and unlock when the engine is turned off.
- **Emergency Override & Disarm:** A method to disarm the system in case of key fob loss or malfunction.

Functionality Demonstration Videos:

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Video 4.1: Demonstration of PKE and remote start features for the EASYGUARD EC003 series.

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Video 4.2: Overview of various functions including PKE and remote start.

5. MAINTENANCE

Key Fob Battery Replacement

The key fobs are powered by CR2032 Lithium Metal batteries. When the battery is low, the range or responsiveness of the key fob may decrease. Follow these steps to replace the battery:

1. Press the button on the key fob and pull to separate the key fob head and body button.
2. Once apart, use a flat screwdriver to carefully detach the key fob shell. Handle with care to avoid breaking the shell.
3. Replace the old battery with a new CR2032 battery, ensuring correct polarity.
4. Reassemble the key fob by snapping the shell back together and reattaching the head.



Figure 5.1: Step-by-step guide for replacing the CR2032 battery in the key fob.

General Care

- Keep the control module and other electronic components dry and away from extreme temperatures.
- Avoid dropping the key fobs or exposing them to water.
- Regularly check wiring connections during routine vehicle maintenance to ensure they remain secure.

6. TROUBLESHOOTING

If you experience issues with your EASYGUARD EC003N-K system, please consider the following common points before contacting support:

- **System Not Responding:** Check key fob battery. Ensure you are within the effective range for remote functions and PKE.

- **Remote Start Failure:** Verify that the vehicle is in park (for automatic transmission) or neutral with the parking brake engaged (for manual transmission, if applicable). Ensure all doors are closed. Check if a bypass module is correctly installed if your vehicle has a chip immobilizer.
- **PKE Inconsistent:** Ensure PKE antennas are correctly installed and not obstructed. Avoid placing the key fob near other electronic devices that might cause interference.
- **Engine Cuts Off After Installation:** This is a critical issue. Immediately consult your professional installer. This could indicate an incorrect wiring or system fault.
- **Alarm Triggers Randomly:** Check for loose connections or faulty sensors. Ensure the vehicle's doors, hood, and trunk are fully closed.

Given the complexity of this system, most troubleshooting beyond basic checks should be performed by a professional installer. Attempting to fix complex issues without proper knowledge can lead to further damage.

7. SPECIFICATIONS

Feature	Detail
Model Number	EC003N-K
Brand	EASYGUARD
Compatible Devices	Most DC12V petrol cars
Item Weight	2.14 pounds
Package Dimensions	10.04 x 6.61 x 3.66 inches
Batteries	2 Lithium Metal batteries (CR2032) required (included)
Wireless Remote	Yes
Maximum PKE Range	3 Meters
Noise Level (Siren)	30 dB
Manufacturer	Zhongshan easyguard electronics co.,ltd

8. SUPPORT AND WARRANTY

For technical assistance, installation inquiries, or warranty claims, please contact EASYGUARD directly. It is recommended to have your product model number (EC003N-K) and purchase details ready when contacting support.

Contact Information:

Website: ieasyguard.com

Email: sales@easyguard.com
Phone: +86-760-2211-3597
Address: 2nd floor, Building 8, No. 77 Cuiheng Road, Zhongshan City, Guangdong, China

Warranty Information:

Specific warranty details are typically provided with your product packaging or can be obtained by contacting EASYGUARD support. Please retain your proof of purchase for warranty validation.

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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