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EASYGUARD EC010-MS

EASYGUARD EC010-MS PKE Car Alarm System Instruction Manual

Model: EC010-MS | Brand: EASYGUARD

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1. INTRODUCTION

The EASYGUARD EC010-MS is a PKE (Passive Keyless Entry) car alarm system designed to enhance vehicle security and convenience. It features a push button start, remote engine start, microwave sensor, and shock sensor warning. This system is compatible with most DC12V petrol and diesel vehicles. Professional installation is highly recommended.

Key Features:

- Push button start/stop
- Passive Keyless Entry (PKE)
- Manual arm/lock & disarm/unlock
- Mute/audible alarm
- Remote trunk release (requires extra solenoid kit)
- Panic mode
- Valet mode on/off setting
- Remote engine start/stop
- Anti-hijacking
- Central door locking automation (can be disabled or enabled)
- Shock warning
- Emergency override
- Automatic window closing (optional, requires extra window closer module)
- Programming method
- Microwave sensor detection

2. PRODUCT COMPONENTS

The EASYGUARD EC010-MS system includes the following components:

Key Fob / Transmitter



Image: Key Fob with LED indicator, Arm/Panic, Start/Trunk Release, and Disarm buttons labeled. A spare key blade place is also indicated.

The system includes two key fobs for remote control of the alarm functions, including locking, unlocking, arming, disarming, remote engine start, and trunk release. Each key fob features an LED indicator for operational status.

Push Start Button

Button size & color



Image: Engine Start Stop Push Button with blue and red color indicators and dimensions (28mm, 40mm, 52mm) for installation. This button replaces the traditional ignition key, allowing for keyless engine start and stop. It features illuminated indicators (blue and red) for operational status.

Control Module

Control module

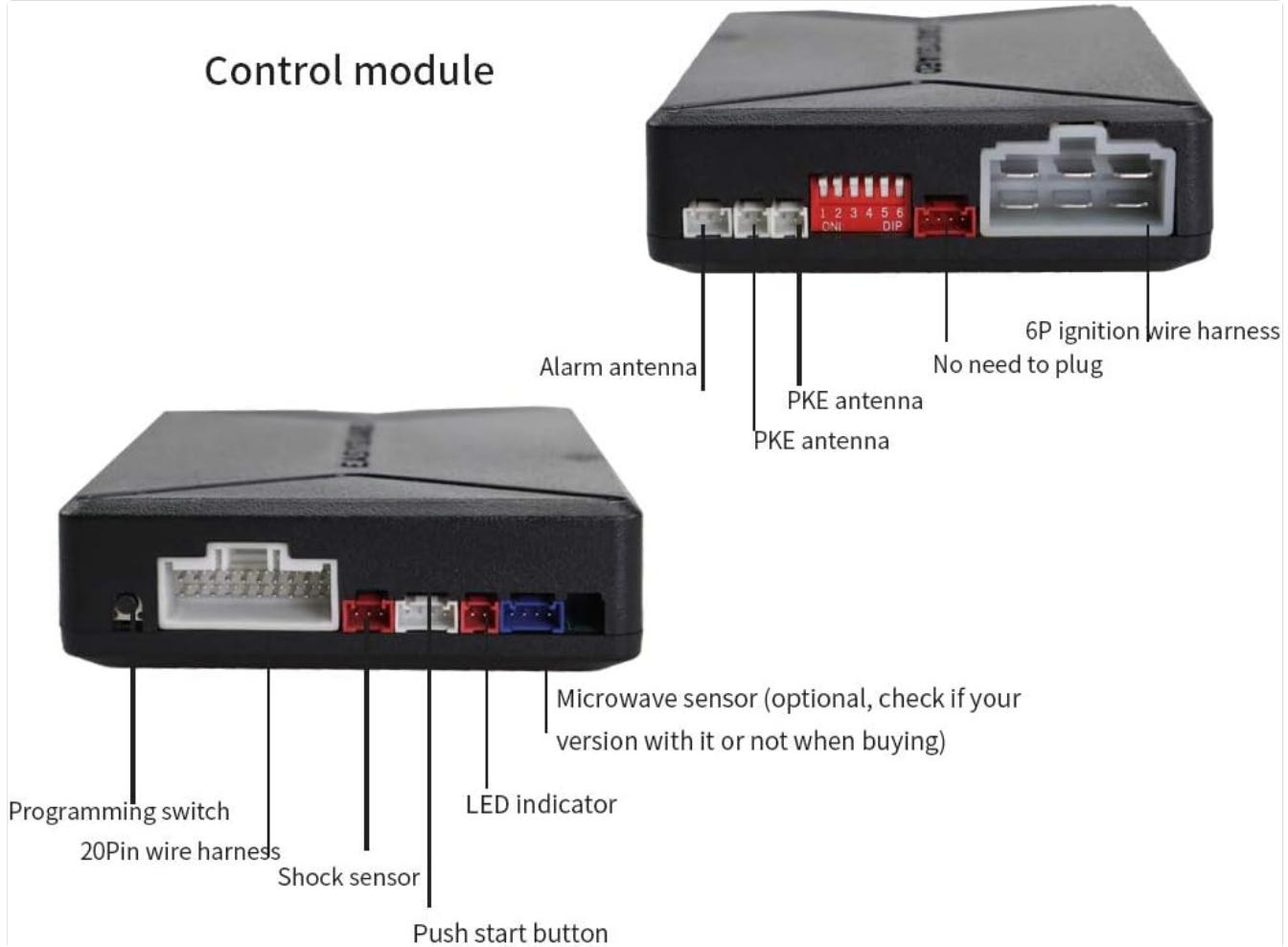


Image: Control Module showing ports for alarm antenna, PKE antenna, 6P ignition wire harness, programming switch, 20Pin wire harness, shock sensor, LED indicator, and push start button. A microwave sensor port is also indicated as optional.

The central processing unit of the alarm system, connecting all sensors and actuators. It houses the programming switch and various ports for system integration.

PKE Antennas

Remote engine start

Remote engine start can pre-cool
your car in hot summer or pre-warm it in cold winter



Image: Two PKE antennas, essential for passive keyless entry functionality.
These antennas detect the presence of the key fob for passive keyless entry and exit functions.

Microwave Sensor

Microwave sensor detecting

The microwave sensor will be triggered if there is somebody intruding the car illegally.



Image: Illustration of a microwave sensor detecting an intruder inside a car, triggering an alarm.

The microwave sensor detects illegal intrusion into the vehicle, triggering an alarm. This component is included in the EC010-MS model, unlike the standard EC010.

Shock Sensor

Detects impacts or vibrations to the vehicle, providing an early warning or full alarm trigger depending on the impact severity.

Wiring Harnesses

Includes a 20-pin main wire harness and a 6-pin ignition wire harness for connecting the system components to the vehicle's electrical system.

LED Indicator & Reset Switch

A small LED light provides visual status of the alarm system. The reset switch is used for system programming and

emergency override procedures.

3. SETUP & INSTALLATION

Professional installation is highly recommended for the EASYGUARD EC010-MS system. Incorrect installation can lead to vehicle damage or system malfunction. An English user manual and wiring diagram are included for reference.

Important Considerations:

- **Vehicle Compatibility:** This system is designed for most DC12V petrol and diesel vehicles. It is not compatible with vans or trucks, nor is it recommended for vehicles with a CAN BUS system or existing OEM push start buttons.
- **Diesel Vehicles:** If your diesel vehicle has an engine starting time exceeding 12 seconds, an additional timer delay switch is required for proper remote start functionality.
- **Immobilizer Bypass:** If your factory OEM key fob contains a chip immobilizer, an extra bypass module (e.g., ASIN: B00MEHBVIC or B07NSLPBG7) is required.
- **Steering Lock:** The vehicle's steering lock must be unlocked, released, or removed during the installation process.
- **PKE Antenna Placement:** Strategically place the PKE antennas to ensure optimal passive keyless entry range. Refer to the wiring diagram for recommended locations.
- **Microwave Sensor Placement:** Install the microwave sensor in a location that provides optimal coverage for detecting movement within the vehicle's interior.

4. OPERATING INSTRUCTIONS

4.1 Key Fob Functions

- **Lock/Arm:** Press the lock button once to arm the alarm and lock the vehicle doors.
- **Unlock/Disarm:** Press the unlock button once to disarm the alarm and unlock the vehicle doors.
- **Remote Engine Start/Stop:** Keep pressing the start button on the key fob for approximately 3 seconds to remotely start or stop the engine.
- **Remote Trunk Release:** If an extra trunk release solenoid kit is installed, press the designated button on the key fob to open the trunk.
- **Panic Mode:** Press the panic button to trigger the alarm for emergency situations.

4.2 Passive Keyless Entry (PKE)

PKE-Passive keyless entry



- Automatically unlock car door when you approach the vehicle in 3-6 feet with key fob



- Automatically lock car door when you walk away from the car in 6-9 feet with key fob

Image: Diagram illustrating the PKE system. The car automatically unlocks when the key fob is within 3-6 feet and locks when the key fob is 6-9 feet away.

With the PKE feature, the vehicle will automatically unlock its doors when you approach it within 3-6 feet while carrying the key fob. Conversely, the doors will automatically lock when you walk away from the car, typically within 6-9 feet.

4.3 Push Button Start/Stop

- Accessory Mode:** Press the push start button once without pressing the brake pedal to activate accessory mode (e.g., radio).
- Ignition On:** Press the push start button a second time without pressing the brake pedal to turn on the ignition (e.g., AC).
- Engine Start:** With the brake pedal pressed, press the push start button once to start the engine.
- Engine Stop:** With the brake pedal pressed, press the push start button once to stop the engine.

4.4 Microwave Sensor Detection

The microwave sensor is designed to detect unauthorized movement or intrusion within the vehicle's interior. If an intruder is detected, the alarm system will be triggered, providing an audible warning.

4.5 Valet Mode

Valet mode allows you to temporarily disable the alarm and PKE functions when the vehicle is being serviced or parked by a valet. Refer to the detailed user manual for instructions on how to enable and disable valet mode.

4.6 Emergency Override

In case of a lost or malfunctioning key fob, the system includes an emergency override function. This typically involves using a specific sequence with the reset switch. Consult the full user manual for detailed emergency override procedures.

4.7 Central Door Locking Automation

The system can be configured to automatically lock the doors when the vehicle starts moving and unlock them when the engine is turned off. This feature can be enabled or disabled according to user preference.

4.8 Official Product Videos

Functions of PKE and Remote Start

Your browser does not support the video tag.

Video: Demonstrates the PKE (Passive Keyless Entry) and remote engine start functions of the EASYGUARD system. A person approaches a red minivan, which automatically unlocks. The person then uses the key fob to remotely start and stop the engine. The video also shows using a touch password on the windshield to unlock the vehicle without the key fob, and then starting the engine with the push button inside.

PKE Antenna Installation

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Video: Shows the recommended installation locations for the PKE antennas within a vehicle. It highlights placing one antenna near the front windshield and another near the rear window for optimal signal coverage.

5. SAFETY INFORMATION

- Keep the item away from children under 3 years old.
- Ensure all wiring connections are secure and properly insulated to prevent electrical shorts or fire hazards.
- Always follow local regulations regarding car alarm systems and remote start features.
- Do not attempt to install or repair the system if you are not a qualified professional.
- Regularly check the system's functionality to ensure it is operating correctly.

6. SPECIFICATIONS

Feature	Value
Item Weight	2.64 pounds
Package Dimensions	10.2 x 7.2 x 4 inches
Item Model Number	EC010-MS
Batteries	2 CR2 batteries required (included)
Wireless Remote	Yes
Compatible Devices	Most DC12V cars

Feature	Value
Noise Level	125 Decibels
Remote Control Included?	Yes
Manufacturer	ieeasyguard.com

7. TROUBLESHOOTING

This section provides general troubleshooting tips. For specific issues, refer to the detailed user manual or consult a professional installer.

- **System Not Responding:** Check key fob battery, ensure vehicle battery is charged, and verify all connections to the control module.
- **Remote Start Failure:** Ensure the vehicle is in park/neutral, doors are closed, and the hood is shut. Check for any active alarm triggers.
- **PKE Not Working:** Verify PKE antennas are correctly installed and not obstructed. Ensure the key fob is within the specified range.
- **False Alarms:** Adjust the sensitivity of the shock sensor and microwave sensor. Ensure all doors, hood, and trunk are securely closed.
- **Engine Cranks but Doesn't Start:** This could indicate an immobilizer issue requiring a bypass module or a wiring problem. Consult a professional.

8. WARRANTY & SUPPORT

For warranty information, please refer to the documentation provided with your product or contact EASYGUARD customer support. Technical support and assistance with installation can be obtained through authorized dealers or the manufacturer's official channels.