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### CHADWICK M506 (CW-M506)

# CHADWICK M506 Car Immobilizer Anti-Theft Alarm System

User Manual

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of the CHADWICK M506 Car Immobilizer Anti-Theft Alarm System. The M506 is a wireless engine lock and auto anti-robbery device designed to enhance vehicle security. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.



Image: The CHADWICK M506 Car Immobilizer system, showing the main unit, two remote controls, and associated wiring, along with product packaging.

## 2. KEY FEATURES

- **Auto-Sensing Technology:** Remote control automatically senses proximity for hassle-free operation.
- **Two Operating Modes:** Circuit Hidden Lock Mode (Default) and Anti-Robbery Mode (Advanced).
- **Engine Cut-Off Functionality:** Prevents unauthorized vehicle operation.
- **Easy DIY Installation:** Designed for straightforward installation by replacing a fuse.
- **Universal Compatibility:** Suitable for various 12V car models, SUVs, and vans.

### 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- 1 x CHADWICK M506 Main Unit
- 2 x Remote Controls (with pre-installed Lithium Ion batteries)
- 1 x Short-Circuit Ring (for Anti-Robbery Mode activation)
- 1 x User Manual (this document)

### 4. SAFETY INFORMATION

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- Test all operating modes in a safe, controlled environment before regular use.
- Avoid using Anti-Robbery Mode if your vehicle experiences signal instability, as this can lead to unintended engine shutdowns while driving.
- The default Hidden Lock Mode provides reliable theft prevention without driving risks.
- If you are unsure about installation, consult a qualified car repair electrician.
- Keep the original fuse safely for future use or if the device needs to be removed.

### 5. SETUP AND INSTALLATION

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The CHADWICK M506 is designed for effortless DIY installation. Follow these steps carefully:

1. **Locate the Fuse Box:** Open the hood of your vehicle and locate the fuse box. Refer to your vehicle's owner's manual to identify the specific fuel pump fuse.
  2. **Remove Original Fuse:** Carefully remove the fuel pump fuse from its slot. Store this original fuse in a safe place.
  3. **Insert M506 Main Unit:** Replace the removed fuse with the M506 main unit. The unit can be inserted in either direction (regardless of positive and negative directions). Ensure it is securely plugged into the fuse position.
  4. **Secure the Device:** Slightly bundle and secure the main unit and its wiring to prevent movement or interference.
  5. **Close Hood:** Close the vehicle's hood.
  6. **Test Functionality:** After installation, test the system's functionality in a safe environment before regular use.
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**CHADWICK®**

# 12V Car Immobilizer



**Oil-Cut/Hidden Lock Mode**  
**Fuse Replacement**  
**Simple Installation**  
**Intelligent Automatic Induction**



Image: A visual guide demonstrating the four steps of installing the M506 unit into a car's fuse box, including locating the fuse, inserting the unit, connecting the battery (if applicable), and testing.

# Easy to install



Image: A detailed view of the M506 main unit plugged into a car's fuse box, illustrating the fuse replacement process.

## 6. OPERATING MODES

The M506 system offers two distinct operating modes:

### 6.1. Circuit Hidden Lock Mode (Default)

This is the factory default setting and is recommended for most users due to its stability.

- **Activation:** No short-circuit ring is inserted into the main unit.
- **Operation:** After ignition, the system requires a remote signal within 16 seconds to keep the engine running. If no signal is detected within this timeframe, the engine will shut off.
- **Driving:** Once the engine has started and received the initial signal, it will stay active even if the remote signal is lost during driving (e.g., remote is taken away, turned off, or out of battery). This prevents accidental engine cut-offs while the vehicle is in motion.



Image: A graphic depicting the Hidden Lock Mode, showing a car and a remote control. Text indicates the engine shuts off if no signal is received within 16 seconds at startup, but does not turn off while driving.

## 6.2. Anti-Robbery Mode (Advanced)

This mode offers enhanced security but should be used with caution, as it may not be suitable for all vehicles.

- **Activation:** Insert the provided short-circuit ring into the main unit. Refer to the image below for guidance.
- **Operation:** The engine requires continuous remote signal reception while driving. If the signal is lost for 30 seconds (e.g., remote is more than 10 meters away from the host), the engine will shut off.
- **Caution:** This mode may not be ideal for all vehicles, especially those with potential Bluetooth interference or signal instability. If you experience unintended engine shutdowns while driving, switch back to Hidden Lock Mode by removing the short-circuit ring.



Image: A magnified view of the M506 unit's internal circuit board, highlighting where the short-circuit ring is inserted to enable Anti-Robbery Mode.

# Anti-robbery mode



Image: A graphic illustrating the Anti-Robbery Mode, showing a car with a thief nearby and a remote control. Text explains that the engine shuts off after 30 seconds if the remote signal is lost.

## 7. MAINTENANCE

### 7.1. Remote Control Battery Replacement

The remote controls are powered by Lithium Ion batteries. It is recommended to replace the battery if you observe any of the following:

- The remote control light dims or does not light up.
- The vehicle occasionally fails to start, indicating a weak signal from the remote.

The factory-installed battery is an industrial-grade, low-power battery. For optimal performance and reliability, it is highly recommended to replace it with a high-quality battery before initial use or when symptoms appear.

# M506 Car Immobilizer Care and Instruction

/ Read the instructions before installation /

## 1 Hidden Lock Mode (Default)

- Remote signal required only at startup (within 16 seconds).
- No signal needed while driving – engine won't stall even if the remote is lost, turned off, or out of battery.

## 2 Anti-Robbery Mode (Advanced)

- Requires continuous remote signal during driving.
- Engine stalls after 30 seconds if signal is lost (e.g., remote >10m away).



**Use with caution: Not ideal for all vehicles. Switch back to Hidden Lock Mode if unintended stalling occurs.**



### Battery Tips:

#### Replace remote battery if:

- Light dims / doesn't light up.
- Car occasionally fails to start.

**Upgrade recommended:** Factory battery is low-power industrial grade. Use a high-quality battery for best performance.

Image: A graphic summarizing the M506's operating modes and providing battery replacement tips, including indicators for when to replace the remote battery.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine does not start (within 16 seconds of ignition)	Remote control not detected or battery low.	Ensure remote is within range. Replace remote battery if dim or not lighting up.
Engine shuts off unexpectedly while driving (in Anti-Robbery Mode)	Remote signal lost due to distance, interference, or low battery.	Switch to Hidden Lock Mode by removing the short-circuit ring. Ensure remote battery is strong. Keep remote close to the vehicle.
Remote control light is dim or off	Remote control battery is low or depleted.	Replace the remote control battery with a new, high-quality Lithium Ion battery.
Difficulty installing the main unit	Incorrect fuse location or improper insertion.	Refer to your vehicle's manual for the correct fuel pump fuse location. Ensure the M506 unit is fully and securely inserted. If issues persist, consult a professional.

## 9. SPECIFICATIONS

- **Model Number:** CW-M506
- **Item Weight:** 3.87 ounces
- **Package Dimensions:** 6.73 x 3.9 x 1.81 inches
- **Batteries:** 1 Lithium Ion battery required (included)
- **Wireless Remote:** Yes
- **Compatible Devices:** Cars, Motorcycles (Universal 12V models including SUVs, Vans/Small Trucks). *Not suitable for electric vehicles or electric tricycles.*
- **Manufacturer:** CHADWICK

# Suitable for models



**car**



**SUV**



**Van/ Small truck**

**Not suitable for motorcycles,  
electric vehicles,  
and electric tricycles**



**Suitable for various 12V models**



Image: An illustration displaying different vehicle types (car, SUV, van/small truck) that are compatible with the M506 system, along with a disclaimer for non-compatible vehicles.

## 10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact CHADWICK customer service through the retailer where the product was purchased. You may also refer to the official PDF user manual for additional details:

[Download Official User Manual \(PDF\)](#)

