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steelmate 858

Steelmate 858 Car 1-Way Engine Starter Security System

User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Steelmate 858 Car 1-Way Engine Starter Security System. This system is designed to enhance vehicle security and convenience with features such as remote engine start, anti-hijack protection, and remote trunk release. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION AND IMPORTANT NOTES

Warning: Installation of this product should only be performed by a qualified professional. Improper installation can lead to vehicle damage, electrical issues, or system malfunction.

- This system is compatible with 12V vehicles.
- Not compatible with vehicles equipped with factory-installed immobilizer systems unless specific bypass modules are used (not included).
- Always ensure the vehicle is in neutral (manual transmission) or park (automatic transmission) before using the remote engine start function.
- Do not use the remote engine start function in enclosed spaces without proper ventilation.

3. PACKAGE CONTENTS

Verify that all the following components are included in your Steelmate 858 security system package:



Figure 3.1: Steelmate 858 system components as packaged.



Figure 3.2: All components of the Steelmate 858 system laid out for inspection.

- Control Box (Main Unit) - Daily waterproof specification
- Alarm Unit (Siren)
- Remote Controls (2 units, small, steel-made)
- Harness (Wiring set)
- Shock Sensor
- Security LED
- Engine Stop Relay (Immobilizer function)
- Starter Relay Harness
- Digital Japanese Instruction Manual (This document serves as the English version)



Figure 3.3: Key components including the main unit, siren, starter relay harness, and shock sensor.



ユニット本体

サイレン

スターターリレー
ハーネス

ショックセンサー

Figure 3.4: Remote controls, security LED, and engine stop relay for immobilizer function.

4. SPECIFICATIONS

Feature	Specification
Voltage	12V ± 2V
Standby Current	< 20mA
Siren Output	110dB
Control Box Dimensions (L x W x H)	11.5 x 9 x 2 CM
Remote Control Dimensions (L x W x H)	5.5 x 3 x 0.8 CM
Total Weight (Main unit + parts)	1.6 KG
Remote Control Weight (each)	35 G

5. KEY FEATURES

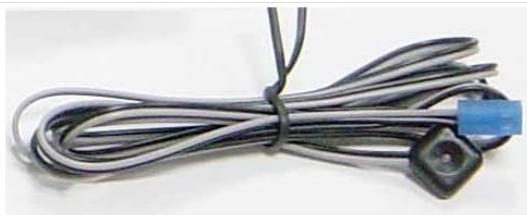
- Engine Starter Function:** Allows you to remotely start your vehicle's engine, ideal for pre-heating or pre-cooling the cabin.
- Hijack Prevention Function:** A safety feature that allows you to forcibly stop the engine in a hijack situation.
- Remote Trunk Release:** Conveniently open your vehicle's trunk remotely, making it easier to load and unload items.
- Immobilizer Function:** Prevents the engine from starting without the dedicated remote control, adding an extra layer of security against theft.
- Parking Location Confirmation:** Helps you locate your vehicle in a crowded parking lot by activating an audible and visual signal.
- Two Remote Controls:** The system includes two compact, steel-made remote controls for convenience.
- Security LED:** A visible LED indicator that deters potential thieves by showing the system is armed.

6. INSTALLATION

Due to the complexity of vehicle electrical systems, professional installation is strongly recommended. Refer to the wiring diagram provided for detailed connection points. Ensure all connections are secure and properly insulated to prevent short circuits or damage.



リモコン



防犯LED



エンジン停止リレー
(イモビライザー機能)

Figure 6.1: Wiring diagram for the Steelmate 858 Car 1-Way Engine Starter Security System. This diagram illustrates the connections for the control box, antenna, siren, shock sensor, LED, trunk release, and engine start circuits. Consult a professional for proper interpretation and installation.

General Installation Guidelines:

- Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Mount Control Box:** Choose a secure, hidden location inside the vehicle, away from direct heat or moisture.
- Wire Connections:** Follow the wiring diagram precisely. Use appropriate connectors and ensure all connections are tight and insulated.
- Siren Placement:** Mount the siren in the engine bay, facing downwards to prevent water accumulation, and in a location that is difficult to access.
- Shock Sensor Adjustment:** Mount the shock sensor securely and adjust its sensitivity after installation.
- Test System:** After installation, reconnect the battery and thoroughly test all functions of the security system.

7. SETUP AND PROGRAMMING

The Steelmate 858 system typically comes pre-programmed. However, certain settings or remote control pairing might be required. Refer to the specific instructions provided with your digital manual for detailed programming steps, especially for features like automatic door locking/unlocking based on vehicle speed or ignition status.

For example, some systems feature automatic door locking 15 seconds after driving and pressing the brake, and unlocking when the key is turned off. These functions are usually configurable via internal jumpers or specific button sequences on the remote.

8. OPERATING INSTRUCTIONS

Familiarize yourself with the functions of your remote control:

- **Arming the System:** Press the lock button once to arm the security system. The vehicle lights will flash, and the siren will chirp once.
- **Disarming the System:** Press the unlock button once to disarm the security system. The vehicle lights will flash twice, and the siren will chirp twice.
- **Remote Engine Start:** Press and hold the engine start button (often indicated by a lightning bolt or engine icon) for a few seconds. The engine will start, and the vehicle will run for a pre-set duration (e.g., 10-15 minutes).
- **Remote Trunk Release:** Press and hold the trunk release button (often indicated by a trunk icon) for a few seconds to open the trunk.
- **Panic/Car Finder:** Press the panic button (often indicated by a bell or horn icon) to activate the siren and lights, helping you locate your vehicle or deter threats.
- **Hijack Prevention:** In an emergency, activate the hijack prevention feature as instructed by your installer. This will forcibly stop the engine.

9. MAINTENANCE

The Steelmate 858 security system requires minimal maintenance. Follow these guidelines to ensure longevity and optimal performance:

- **Remote Control Batteries:** Replace remote control batteries when the range decreases or the LED indicator on the remote dims. Use the specified battery type.
- **Keep Dry:** While the control box is daily waterproof, avoid exposing any components to excessive moisture or direct water spray.
- **Regular Checks:** Periodically check the wiring connections for any signs of wear or corrosion. Ensure the siren and shock sensor are securely mounted.
- **Cleaning:** Clean the remote controls and visible components with a soft, dry cloth. Do not use harsh chemicals.

10. TROUBLESHOOTING

If you encounter issues with your Steelmate 858 system, refer to the following common problems and solutions:

- **System Not Responding to Remote:**
 - Check remote control battery. Replace if necessary.
 - Ensure you are within the operating range of the system.
 - Check for strong radio interference in the area.
- **Engine Start Fails:**
 - Ensure the vehicle is in park/neutral and the handbrake is engaged.
 - Check if the vehicle's battery is charged.
 - Verify all installation wiring, especially the ignition and starter wires.
- **Alarm Triggers Randomly:**
 - Adjust the sensitivity of the shock sensor. It might be set too high.
 - Check for loose wiring connections to the shock sensor or main unit.
- **Security LED Not Flashing:**
 - Ensure the system is armed.
 - Check the wiring connection to the LED.

If the problem persists after attempting these solutions, contact a professional installer or Steelmate customer support for assistance.

11. WARRANTY AND SUPPORT

Your Steelmate 858 Car 1-Way Engine Starter Security System comes with a **one-year warranty** from the date of purchase. During this period, if the product malfunctions due to manufacturing defects, it will be repaired or replaced free of charge.

Exclusions:

- Damage caused by human error, misuse, or improper installation.
- Damage resulting from natural disasters or accidents.
- Damage caused by unauthorized repairs or modifications.

For warranty claims or technical support, please contact your authorized Steelmate dealer or the point of purchase. It is recommended to retain your proof of purchase for warranty validation.