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> SPY PKE Car Alarm System with Engine Start (Model LA5+LT200+K116) User Manual

Spy LA5+LT200+K116

SPY PKE Car Alarm System with Engine Start

MODEL: LA5+LT200+K116

User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your SPY PKE Car Alarm System with Engine Start. This system is designed to enhance vehicle security and convenience through features like Passive Keyless Entry (PKE) and remote engine start/stop functionality. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Overview of the SPY PKE Car Alarm System components. The image displays the main control unit, two remote key fobs, various wiring harnesses, a siren, a push-button start, and the user manual, all neatly arranged on a white table.

2. Safety Information

- **Professional Installation Recommended:** Installation of this system requires knowledge of automotive electrical systems. It is highly recommended that installation be performed by a qualified professional to prevent damage to the vehicle or the alarm system.
- **Disconnect Battery:** Always disconnect the vehicle's battery before beginning any installation work to avoid electrical shorts or damage.
- **Secure Wiring:** Ensure all wiring is properly routed, secured, and insulated to prevent chafing, short circuits, and interference with vehicle operations.
- **Test Functionality:** After installation, thoroughly test all functions of the alarm system to ensure correct operation before regular use.
- **Remote Engine Start Safety:**
 - Never use remote engine start in an enclosed space (e.g., garage) due to carbon monoxide fumes.
 - Ensure the vehicle is in Park (automatic transmission) or Neutral with the parking brake engaged

(manual transmission) before using remote start.

- Do not leave children or pets unattended in a vehicle that has been remote started.

3. Setup and Installation

This section outlines the general steps for installing the SPY PKE Car Alarm System. Refer to the detailed wiring diagrams provided in the separate installation guide for specific connections.

1. **Mount the Main Control Unit:** Select a secure, hidden location inside the vehicle, away from excessive heat or moisture. Ensure proper ventilation.
2. **Connect Wiring Harnesses:**
 - Connect the main power and ground wires to the vehicle's electrical system.
 - Connect the ignition, accessory, and starter wires according to your vehicle's wiring diagram.
 - Connect door trigger, trunk trigger, and hood trigger wires.
 - Connect the siren output wire to the siren.
 - Connect the central locking wires to the vehicle's central locking system.
3. **Install Siren:** Mount the siren in the engine bay, facing downwards to prevent water accumulation, and away from direct heat sources.
4. **Install PKE Antennas:** Strategically place the PKE antennas inside the vehicle to ensure optimal range for passive keyless entry.
5. **Install Push-Button Start (if applicable):** Replace the existing ignition switch with the provided push-button start module, following the specific instructions for your vehicle model.
6. **Connect LED Indicator and Valet Switch:** Mount the LED indicator in a visible location and the valet switch in a hidden but accessible spot.
7. **Final Connections and Testing:** Reconnect the vehicle battery. Test all alarm functions, including arming/disarming, PKE, remote start, and sensor triggers.

4. Operating Instructions

This system offers various functions for vehicle security and convenience.

4.1. Passive Keyless Entry (PKE)

The PKE feature automatically locks and unlocks your vehicle as you approach or walk away with the remote control.

- **Automatic Arming/Locking:** When you walk away from the vehicle with the remote control, the system will automatically arm and lock the doors once you are outside the detection range (typically 2-3 meters). The hazard lights will flash, and the siren will chirp to confirm.
- **Automatic Disarming/Unlocking:** When you approach the vehicle with the remote control, the system will automatically disarm and unlock the doors once you are within the detection range. The hazard lights will flash, and the siren will chirp twice to confirm.

4.2. Remote Control Functions

The remote control provides manual control over the system's features.

- **Lock/Arm:** Press the **Lock** button once to arm the system and lock the doors. The siren will chirp once, and the hazard lights will flash once.
- **Unlock/Disarm:** Press the **Unlock** button once to disarm the system and unlock the doors. The siren will chirp twice, and the hazard lights will flash twice.

- **Remote Engine Start:** Press and hold the **Engine Start** button (or designated button) for approximately 3 seconds. The engine will start, and the doors will remain locked. The vehicle will run for a pre-set time (e.g., 10-15 minutes) or until you enter the vehicle and press the brake pedal.
- **Remote Engine Stop:** While the engine is running via remote start, press and hold the **Engine Start** button again for 3 seconds to turn off the engine.
- **Trunk Release:** Press and hold the **Trunk** button (if available and connected) for 3 seconds to open the trunk.
- **Panic/Car Finder:** Press the **Panic** button (or designated button) to activate the siren and flashing lights for a short period, helping to locate your vehicle or deter intruders. Press any button to stop.

4.3. Push-Button Start Operation (if installed)

- **To Start Engine:** With the system disarmed and the remote control inside the vehicle, press the brake pedal and then press the **Engine Start/Stop** button once.
- **To Turn Off Engine:** With the vehicle running, press the brake pedal and then press the **Engine Start/Stop** button once.
- **ACC/ON Modes:** Without pressing the brake pedal, press the **Engine Start/Stop** button once for ACC mode, press again for ON mode, and a third time to turn off.

5. Maintenance

- **Remote Control Battery Replacement:** When the remote control's range decreases or the LED indicator dims, it's time to replace the battery. Refer to the remote control's specific instructions for battery type and replacement procedure. Typically, this involves opening the remote casing and replacing a coin-cell battery.
- **System Cleaning:** Keep the main control unit and sensors free from dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or solvents.
- **Wiring Inspection:** Periodically inspect visible wiring for any signs of wear, damage, or loose connections. Address any issues promptly to ensure reliable operation.

6. Troubleshooting

If you encounter issues with your SPY PKE Car Alarm System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Remote control not working / Short range	Low battery in remote control; Interference; Remote out of sync.	Replace remote control battery. Move away from sources of interference (e.g., high-voltage lines). Re-program remote control (refer to installation guide for pairing instructions).
PKE not functioning	Remote control battery low; PKE antennas obstructed or improperly installed; Interference.	Replace remote control battery. Check PKE antenna placement and connections. Avoid carrying remote near other electronic devices that may cause interference.
Engine not starting via remote or push-button	Vehicle not in Park/Neutral; Brake pedal not pressed (for push-button); System disarmed; Wiring issue.	Ensure vehicle is in correct gear. Press brake pedal firmly for push-button start. Check if system is armed. Verify all ignition wiring connections. Consult a professional installer.

Problem	Possible Cause	Solution
Alarm false triggers	Sensitivity of shock sensor too high; Faulty sensor; Loose wiring.	Adjust shock sensor sensitivity (refer to installation guide). Inspect all sensor connections. If problem persists, a sensor may need replacement.
Siren not sounding	Siren disconnected or faulty; Wiring issue.	Check siren connection and wiring. Test siren functionality. Replace siren if faulty.

If these solutions do not resolve the issue, please contact customer support or a qualified automotive technician.

7. Specifications

Feature	Detail
Brand	Spy
Model Number	LA5+LT200+K116
Mfr Part Number	SA LA5
Maximum Range (PKE)	3 Meters (approximate)
Audible Noise (Siren)	30 Decibels (minimum, for chirp confirmation)
Remote Control Included	Yes (typically two key fobs)
Global Trade Identification Number (GTIN)	08714767404781

8. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact your authorized SPY dealer or the point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: SPY