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Carbest L401

L401 3-Channel 1-Way Car Alarm Vehicle Security Keyless Entry System

Model: L401 | Brand: Carbest

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Carbest L401 3-Channel 1-Way Car Alarm Vehicle Security Keyless Entry System. Please read this manual thoroughly before installation and use to ensure proper function and to maximize the security features of your vehicle.

Product Overview

The Carbest L401 system is designed to provide multi-level security for your vehicle, featuring keyless entry and a robust alarm system. The package includes the following components:

- Main Control Unit
- Siren
- Two Remote Controls
- Wiring Harness
- Shock Sensor
- LED Indicator



Image: All components of the L401 car alarm system, including the main unit, siren, two remote controls, wiring, and sensors.



Image: Detailed view of the alarm siren, designed to emit a loud warning sound.



Image: The main control unit of the L401 system, which processes signals and controls alarm functions.



Image: The main control unit showing its dimensions and labeled ports for various connections, including function selection, vibration sensor, and LED indicator.

Specifications

Feature	Detail
Item Weight	1.12 pounds
Product Dimensions	3.15 x 2.36 x 1.57 inches
Wireless Remote	Yes
Maximum Range	100 Meters
Remote Control Included?	Yes
Manufacturer	CarBest
Date First Available	October 12, 2020
UPC	754914536901

Setup and Installation

Proper installation is crucial for the optimal performance of your car alarm system. It is recommended that installation be performed by a qualified professional. Always disconnect the vehicle's battery before beginning any wiring work.

Installation Circuit Diagram

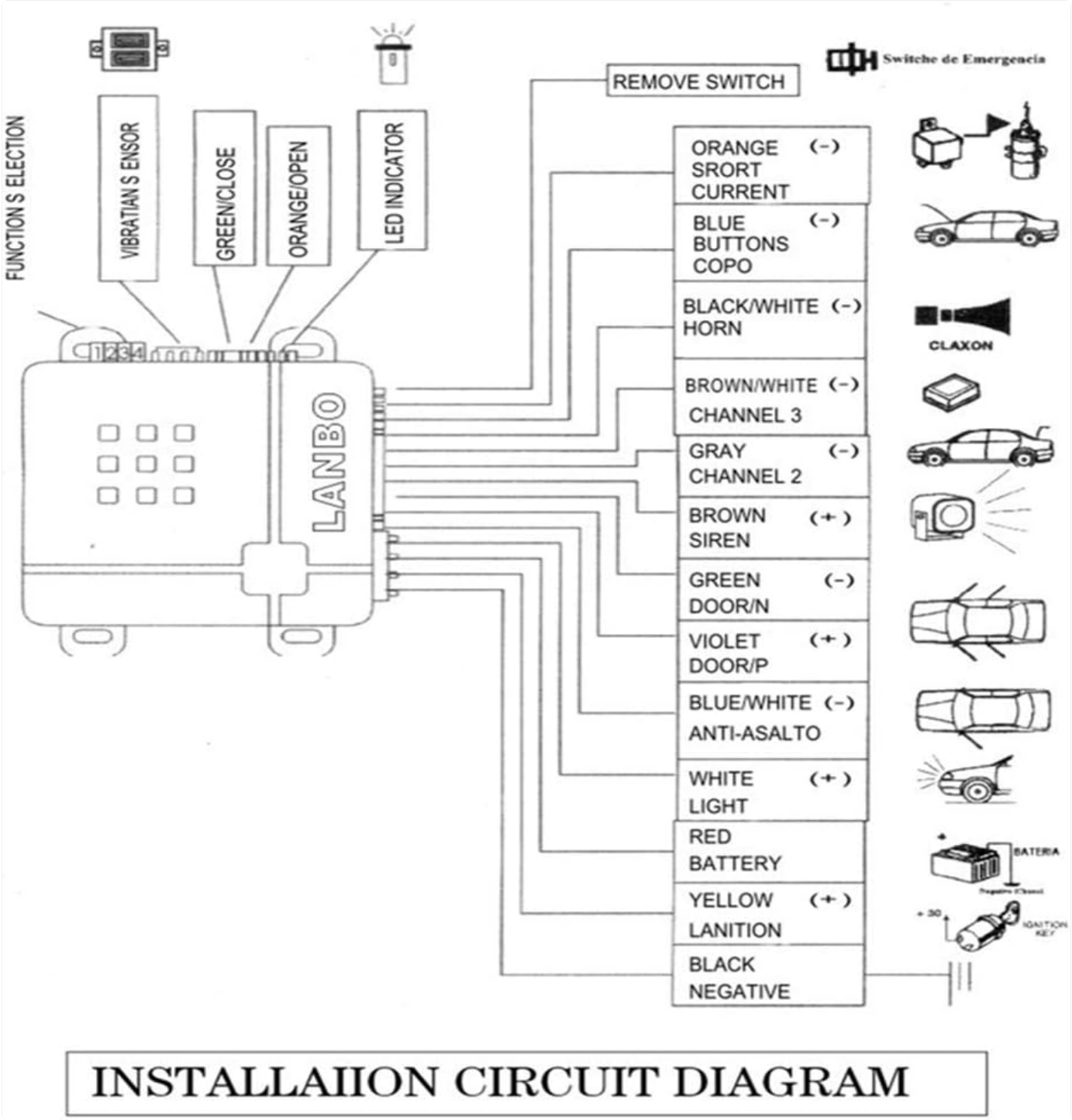


Image: Comprehensive installation circuit diagram for the L401 system, showing connections for various components like the siren, horn, door sensors, and power. This diagram is essential for correct wiring.

Refer to the diagram above for all wiring connections. Ensure each wire is connected to its corresponding function in your vehicle's electrical system. Key connections include:

- **Red Wire:** Connect to the vehicle's positive battery terminal (+12V).
- **Black Wire:** Connect to the vehicle's negative ground point.
- **Brown Siren Wire:** Connect to the positive terminal of the siren.
- **Black/White Horn Wire:** Connect to the vehicle's horn relay (negative trigger).
- **Green Door/N Wire:** Connect to the negative door trigger.
- **Violet Door/P Wire:** Connect to the positive door trigger.
- **Yellow Ignition Wire:** Connect to the vehicle's ignition switch (ACC or ON position).
- **Orange Short Current Wire:** Typically for central locking or trunk release (negative output).
- **Blue Buttons COPO Wire:** For specific button functions (negative output).

- **Gray Channel 2 & Brown/White Channel 3:** Auxiliary outputs for additional features.
- **White Light Wire:** Connect to parking lights or indicator lights.
- **Blue/White Anti-Assault Wire:** For anti-hijack or emergency functions.

Secure all connections with electrical tape or heat shrink tubing. Mount the main control unit in a hidden, dry location within the vehicle, away from excessive heat or moisture. Mount the siren in the engine bay, facing downwards to prevent water accumulation.

Operating Instructions

Your L401 system operates primarily via the provided remote controls. Familiarize yourself with the buttons and their functions.

Remote Control Functions



Image: One of the two remote controls for the L401 system, featuring buttons for locking, unlocking, and siren control.

- **Lock Button (Closed Lock Icon):** Press once to arm the alarm system and lock the vehicle doors. The siren will chirp once, and parking lights will flash.
- **Unlock Button (Open Lock Icon):** Press once to disarm the alarm system and unlock the vehicle doors. The siren will chirp twice, and parking lights will flash.
- **Siren/Mute Button (Speaker Icon with X):** Press to temporarily mute the alarm siren during arming/disarming, or to locate your vehicle (panic function).
- **Trunk Release/Auxiliary Button (Trunk Icon):** Press and hold for 3 seconds to activate the trunk release (if connected) or other auxiliary functions.

Alarm Features

- **Arming:** When armed, the system monitors doors, ignition, and shock sensor. Any unauthorized entry or impact will trigger the alarm.
- **Disarming:** Disarming the system allows normal vehicle operation.
- **Panic Mode:** Activates the siren and flashing lights to deter threats or locate the vehicle.
- **Car Locating:** Briefly flashes lights and chirps the siren to help find your car in a parking lot.
- **Anti-Hijack (Optional):** If connected, this feature can be activated to disable the engine in an emergency.

Maintenance

To ensure the longevity and reliable operation of your Carbest L401 alarm system, follow these simple maintenance guidelines:

- **Remote Control Batteries:** Replace batteries in your remote controls annually or when the range decreases significantly.

Refer to the remote's casing for battery type (typically CR2032 or similar).

- **Wiring Inspection:** Periodically check all wiring connections for corrosion or loose terminals, especially after any vehicle maintenance.
- **Cleanliness:** Keep the main control unit and siren free from excessive dust and moisture. Do not spray water directly onto the components.
- **Shock Sensor Adjustment:** If you experience false alarms or the alarm is not sensitive enough, the shock sensor sensitivity may need adjustment. Consult a professional for this.

Troubleshooting

If you encounter issues with your L401 system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not arm/disarm with remote.	Dead remote battery; Remote out of range; System not receiving signal.	Replace remote battery; Move closer to vehicle; Check main unit power connection.
Alarm triggers without apparent reason (false alarms).	Shock sensor too sensitive; Loose wiring; Faulty door/hood pin switch.	Adjust shock sensor sensitivity; Inspect and secure all wiring; Check and replace faulty switches.
Siren does not sound.	Siren disconnected or faulty; Siren wire not connected correctly.	Check siren connection; Verify siren wire connection to main unit.
Doors do not lock/unlock.	Central locking wires not connected; Vehicle's central locking system issue.	Verify central locking wire connections; Consult vehicle's manual for central locking troubleshooting.

If problems persist after attempting these solutions, please contact a qualified automotive electronics technician or Carbest customer support for assistance.

Warranty and Support

For information regarding the warranty coverage for your Carbest L401 Car Alarm System, please refer to the warranty card included with your purchase or visit the official Carbest website. Keep your proof of purchase for warranty claims.
For technical support, installation queries, or any other assistance, please contact Carbest customer service through the contact information provided on their official website or product packaging. When contacting support, please have your product model (L401) and purchase details ready.

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