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- › Standard Motor Products Ignition SLS-461 Stoplight Switch User Manual

Standard Motor Products SLS-461

Standard Motor Products Ignition SLS-461 Stoplight Switch

Model: SLS-461

Manufacturer: Standard Motor Products

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products Ignition SLS-461 Stoplight Switch. Please read this manual thoroughly before attempting any installation or service to ensure safe and correct usage.

2. PRODUCT OVERVIEW

The Standard Motor Products Ignition SLS-461 is a replacement stoplight switch designed for vehicle-specific applications. Its primary function is to activate the vehicle's brake lights when the brake pedal is depressed, signaling to other drivers that the vehicle is slowing down or stopping. It also plays a role in other vehicle systems such as cruise control and shifter interlocks in some models.



Figure 2.1: The Standard Motor Products SLS-461 Stoplight Switch. This image displays the overall design of the switch, featuring its black and white plastic housing and electrical terminals.

Key features include:

- Designed for vehicle-specific fitment.
- Activates brake lights upon pedal depression.
- Constructed with durable materials for reliable performance.

3. SAFETY INFORMATION

WARNING:

- Always disconnect the vehicle's battery before working on electrical systems to prevent electrical shock or damage to components.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the vehicle is securely parked with the parking brake engaged and the engine off.
- If you are unsure about any step, consult a qualified automotive technician.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

4. SETUP AND INSTALLATION

Installation of the stoplight switch typically involves accessing the brake pedal assembly. Due to variations in vehicle models, specific instructions are not provided here. Always refer to your vehicle's service manual for detailed, model-specific installation procedures.

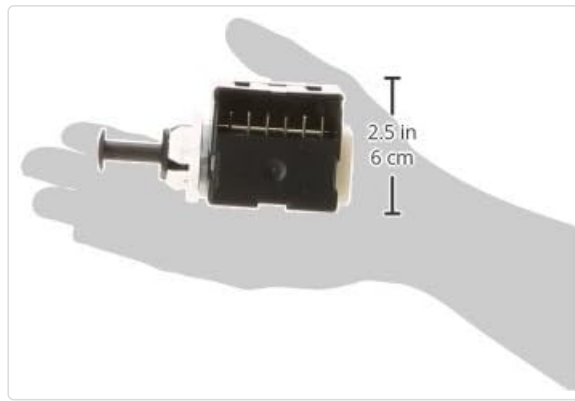


Figure 4.1: This image illustrates the approximate dimensions of the stoplight switch, showing a length of approximately 2.5 inches (6 cm) in relation to a human hand for scale.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the battery.
2. **Locate the Switch:** The stoplight switch is typically located near the brake pedal arm, often mounted to the pedal support bracket.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old switch.
4. **Remove Old Switch:** Depending on the design, the switch may twist out, unclip, or be held by a nut. Remove the old switch.
5. **Install New Switch:** Insert the new SLS-461 switch into its mounting position. Ensure it is properly seated and secured.
6. **Connect Wiring:** Reconnect the electrical connector to the new switch.
7. **Adjust (if necessary):** Some stoplight switches require adjustment to ensure proper activation and deactivation. Refer to your vehicle's service manual for adjustment procedures.
8. **Reconnect Battery:** Reconnect the negative battery terminal.
9. **Test Functionality:** Test the brake lights to ensure they illuminate when the brake pedal is pressed and turn off when released. Also, check any other systems affected by the switch (e.g., cruise control, shifter interlock).

Note: Improper installation can lead to brake light malfunction, which is a safety hazard. Professional installation is recommended if you are not experienced with automotive electrical repairs.

5. OPERATING INSTRUCTIONS

The SLS-461 Stoplight Switch operates automatically. When the brake pedal is depressed, the switch is activated, completing an electrical circuit that illuminates the vehicle's brake lights. When the brake pedal is released, the switch deactivates, turning off the brake lights.

No user interaction is required for the operation of the switch itself, beyond the normal use of the brake pedal.

6. MAINTENANCE

The Standard Motor Products SLS-461 Stoplight Switch is designed for long-term, maintenance-free operation. Regular maintenance is generally not required for the switch itself. However, it is advisable to periodically check the functionality of your vehicle's brake lights as part of routine vehicle inspections.

Inspection Points:

- Ensure brake lights illuminate promptly when the brake pedal is pressed.

- Verify that brake lights turn off completely when the brake pedal is released.
- Check for any flickering or intermittent operation of the brake lights.

If any issues are observed, refer to the troubleshooting section or consult a qualified technician.

7. TROUBLESHOOTING

If you experience issues with your brake lights or related systems after installing or using the SLS-461 switch, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Brake lights do not illuminate.	◦ Faulty stoplight switch. ◦ Blown fuse. ◦ Burnt-out brake light bulbs. ◦ Wiring issue.	◦ Verify switch operation (may require multimeter). ◦ Check and replace relevant fuse in fuse box. ◦ Inspect and replace brake light bulbs. ◦ Inspect wiring for damage or loose connections.
Brake lights stay on constantly.	◦ Stoplight switch stuck in "on" position. ◦ Improperly adjusted switch.	◦ Replace faulty switch. ◦ Adjust switch according to vehicle service manual.
Check Engine Light (CEL) or other warning lights.	◦ Faulty stoplight switch affecting other systems (e.g., cruise control, ABS).	◦ Scan vehicle for diagnostic trouble codes (DTCs). ◦ If codes point to brake switch, verify its operation or replace.

For complex issues or if troubleshooting does not resolve the problem, it is recommended to seek assistance from a certified automotive technician.

8. SPECIFICATIONS

The following specifications are provided for the Standard Motor Products Ignition SLS-461 Stoplight Switch:

Model Number	SLS-461
Brand	Standard Motor Products
Operation Mode	Motor
Contact Type	Normally Open
Connector Type	Micro-usb (Note: This might be a generic spec, actual automotive connectors vary)
Terminal Type	Screw

Item Dimensions (L x W x H)	2.44 x 2.44 x 2.38 inches
Circuit Type	1-way
Mounting Type	Panel Mount
Actuator Type	Ignition
Contact Material	Phosphor Bronze
Item Weight	1.6 ounces

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official Standard Motor Products website. Warranty terms and conditions may vary. If you require technical assistance or have questions about the SLS-461 Stoplight Switch, please contact Standard Motor Products customer support directly. Contact information can typically be found on their official website or product packaging.

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