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Model: AW-1046

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Standard Motor Products AW-1046 Door Jamb Switch. This component is designed to detect the open or closed state of a vehicle door, typically used for controlling interior lights or security systems. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to the vehicle's electrical system.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Ensure the replacement part matches the original specifications for your vehicle.
- If you are unsure about any step, consult a qualified automotive technician.

3. PRODUCT OVERVIEW

The AW-1046 is a plunger-type door jamb switch. When the door is open, the plunger extends, completing or breaking a circuit. When the door is closed, the plunger is depressed, reversing the circuit state.



Figure 3.1: Front view of the AW-1046 Door Jamb Switch, showing the plunger mechanism.

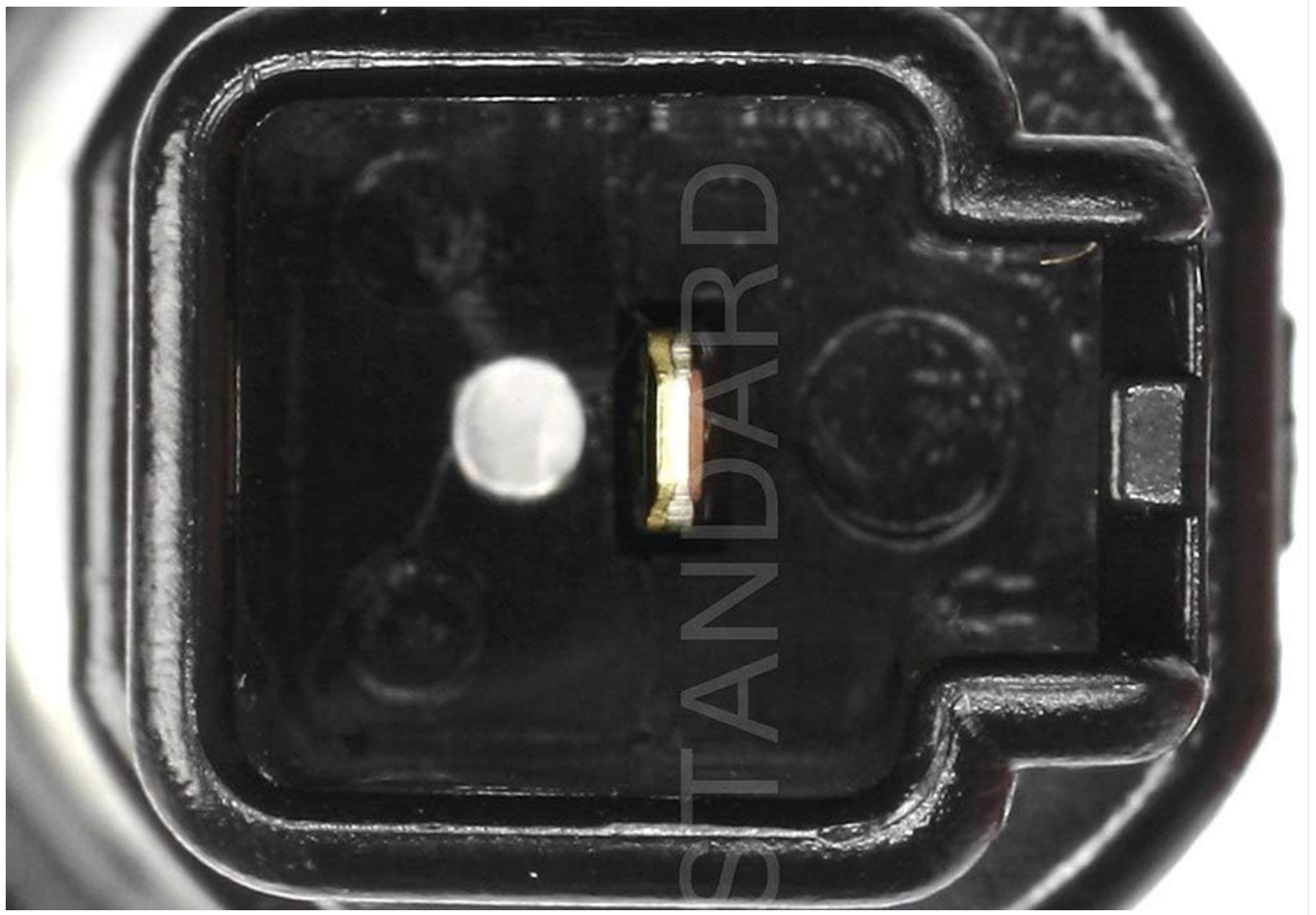


Figure 3.2: Rear view of the AW-1046 Door Jamb Switch, highlighting the electrical connector.

Components:

- **Switch Body:** The main housing of the switch.
- **Plunger:** The movable part that is depressed by the door.
- **Electrical Connector:** Provides the connection points for the vehicle's wiring harness.

4. SETUP AND INSTALLATION

The AW-1046 Door Jamb Switch is designed for direct replacement in compatible vehicles. Installation typically involves removing the old switch and installing the new one in its place.

Installation Steps:

1. **Prepare the Vehicle:** Ensure the vehicle is turned off and the battery's negative terminal is disconnected to prevent accidental electrical shorts.
2. **Locate the Old Switch:** Identify the existing door jamb switch, usually located in the door frame or the door itself.
3. **Remove the Old Switch:** Depending on the vehicle model, this may involve unscrewing the switch or carefully prying it out. Disconnect the electrical connector from the old switch.
4. **Connect the New Switch:** Attach the vehicle's electrical harness to the connector on the new AW-1046 switch. Ensure a secure connection.
5. **Install the New Switch:** Insert the new switch into its mounting location. Secure it with any screws or clips as per the original installation. Ensure it is firmly seated.
6. **Test Functionality:** Reconnect the vehicle's battery. Open and close the door to verify that the switch correctly activates or deactivates the associated function (e.g., interior light, door ajar warning).

Note: Some installations may require the switch to be screwed in to establish a proper ground connection for functionality.

5. OPERATING PRINCIPLES

The AW-1046 operates as a simple ON-OFF switch. It is typically a **Normally Closed** contact type. This means that when the door is open and the plunger is extended, the circuit is closed (allowing current flow, e.g., turning on a light). When the door is closed and the plunger is depressed, the circuit is opened (breaking current flow, e.g., turning off a light).

6. MAINTENANCE

The Standard Motor Products AW-1046 Door Jamb Switch is designed for long-term, maintenance-free operation. No regular maintenance is required. Keep the area around the switch clean and free from debris that could impede the plunger's movement.

- Periodically inspect the switch for any visible damage or corrosion.
- Ensure the electrical connection remains secure.
- Clean the switch and surrounding area with a damp cloth if necessary, avoiding excessive moisture.

7. TROUBLESHOOTING

If the door jamb switch is not functioning correctly, consider the following common issues and solutions:

- **Interior Light Stays On/Off:**
 - Check the electrical connection to the switch. Ensure it is fully seated and free of corrosion.
 - Verify the switch is properly grounded if applicable (e.g., by being screwed into the metal frame).
 - Inspect the plunger for free movement. Ensure it is not stuck or obstructed.
 - Confirm the switch is the correct part for your vehicle's specific application.
- **Intermittent Functionality:**
 - This could indicate a loose connection or a worn switch. Re-check connections.
 - Ensure the door is closing fully and consistently depressing the plunger.
- **Physical Damage:**
 - If the switch body or plunger is cracked or broken, it will need to be replaced.

If troubleshooting steps do not resolve the issue, it may indicate a fault with the switch itself or another component in the vehicle's electrical system. Professional diagnosis may be required.

8. SPECIFICATIONS

Attribute	Value
Model Number	AW-1046
Brand	Standard Motor Products
Operation Mode	ON-OFF
Current Rating	2 Amps
Operating Voltage	120 Volts
Contact Type	Normally Closed

Attribute	Value
Connector Type	Crimp
Terminal	Through Hole
Item Dimensions (L x W x H)	2 x 1.44 x 3.38 inches
Circuit Type	1-way
Mounting Type	Door Mount
Actuator Type	Plunger
Contact Material	Copper
International Protection Rating	IP00
Number of Positions	2
Color	Assorted
Item Weight	1.12 ounces
UPC	025623795201

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Standard Motor Products AW-1046 Door Jamb Switch, please refer to the warranty documentation provided with your purchase or contact Standard Motor Products directly. General return policies for purchases made through Amazon typically allow for returns within 30 days of receipt for a refund or replacement.

For technical support or further assistance, please visit the official Standard Motor Products website or contact their customer service department. When contacting support, please have your product model number (AW-1046) and purchase details readily available.

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