

[Manuals.plus](#) /

› [Standard Motor Products](#) /

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MODEL: NS55

Brand: Standard Motor Products

1. PRODUCT OVERVIEW

The Standard Motor Products NS55 Neutral/Backup Switch is an automotive component designed to ensure proper vehicle operation by detecting the transmission's neutral position and activating backup lights when reverse gear is engaged. This switch is engineered with robust materials to meet the demands of automotive applications, providing reliable electrical conductivity and switching performance.

What's in the Box:

- One (1) Standard Motor Products NS55 Neutral/Backup Switch



Figure 1: Main view of the Standard Motor Products NS55 Neutral/Backup Switch, showing the primary housing and wiring harness.



Figure 2: Alternate view of the NS55 switch, highlighting the internal mechanism and connector.

2. INSTALLATION

Installation of the Neutral/Backup Switch typically involves working with vehicle electrical and transmission systems. Due to the complexity and safety considerations, it is highly recommended that installation be performed by a qualified automotive service professional.

Safety Precautions:

- Always disconnect the vehicle's battery before beginning any electrical work to prevent electrical shock or damage to components.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications for switch replacement.
- Wear appropriate personal protective equipment, including safety glasses and gloves.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. Locate the existing neutral/backup switch on your vehicle's transmission. Its position can vary by make and model.
2. Carefully disconnect the electrical connector from the old switch.
3. Remove the old switch using appropriate tools. Be prepared for potential fluid leakage if the switch is submerged in transmission fluid.
4. Install the new Standard Motor Products NS55 switch, ensuring it is properly seated and tightened to the manufacturer's specifications.
5. Reconnect the electrical connector, ensuring a secure connection.
6. Reconnect the vehicle's battery.
7. Test the switch's functionality (see "Operation" section).

3. OPERATION

The Standard Motor Products NS55 Neutral/Backup Switch performs two primary functions critical to vehicle safety and operation:

- **Neutral Safety Switch Function:** This prevents the engine from starting unless the transmission is in Park or Neutral. This safety feature ensures the vehicle does not unexpectedly move when the engine is started.
- **Backup Light Switch Function:** When the transmission is shifted into Reverse, the switch activates the vehicle's backup lights, signaling to others that the vehicle is moving backward.

After installation, verify both functions:

1. With the parking brake engaged, attempt to start the vehicle in a gear other than Park or Neutral. The engine should not crank.
2. Shift the transmission into Reverse. The vehicle's backup lights should illuminate.

4. MAINTENANCE

The Standard Motor Products NS55 Neutral/Backup Switch is designed for durability and typically requires minimal maintenance. However, periodic inspection can help ensure its continued reliable operation.

Inspection Guidelines:

- **Visual Check:** Periodically inspect the switch and its wiring harness for any signs of physical damage, corrosion, or loose connections.
- **Functionality Test:** Regularly test the neutral safety and backup light functions as described in the "Operation" section.
- **Cleanliness:** Ensure the area around the switch is free from excessive dirt, debris, or fluid leaks that could affect its operation or lead to corrosion.

If any issues are observed during inspection or testing, refer to the "Troubleshooting" section or consult a qualified automotive technician.

5. TROUBLESHOOTING

If you experience issues related to vehicle starting or backup lights, the neutral/backup switch may be a contributing factor. Here are some common symptoms and basic troubleshooting steps:

Symptom	Possible Cause	Action
Engine does not crank in Park or Neutral.	Faulty neutral safety switch, misadjusted switch, wiring issue.	• Ensure transmission is fully engaged in Park or Neutral. • Check for loose or corroded electrical connections at the switch. • Consult a professional for diagnosis and potential replacement or adjustment.

Symptom	Possible Cause	Action
Backup lights do not illuminate when in Reverse.	Faulty backup light switch, burnt-out bulbs, wiring issue, blown fuse.	• Check backup light bulbs and replace if necessary. • Inspect the vehicle's fuse box for a blown fuse related to backup lights. • Check electrical connections at the switch for looseness or corrosion. • If bulbs and fuse are good, the switch may be faulty and require replacement.
Engine cranks in gear (not Park/Neutral).	Faulty neutral safety switch, misadjusted switch.	• This is a safety hazard. Immediately cease operation and have the vehicle inspected by a qualified technician. • The switch likely requires adjustment or replacement.

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

6. SPECIFICATIONS

Feature	Detail
Model Number	NS55
Brand	Standard Motor Products
Operation Mode	ON-OFF
Current Rating	20 Amps
Operating Voltage	5 Volts
Contact Type	Normally Open
Connector Type	Plug In
Terminal Type	Solder
Item Dimensions (L x W x H)	5.19 x 2.5 x 5.19 inches
Item Weight	8 ounces
International Protection Rating	IP00
Number of Positions	2
Country Of Origin	China
UPC	091769086404

7. WARRANTY AND SUPPORT

For specific warranty information regarding the Standard Motor Products NS55 Neutral/Backup Switch, please refer to the documentation provided with your purchase or contact the seller directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support or further inquiries, please visit the official Standard Motor Products website or contact their customer service department. You can often find contact information and additional resources on their official website: www.smpcorp.com

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question