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› Standard Motor Products NS126 Neutral/Backup Switch Instruction Manual

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INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products NS126 Neutral/Backup Switch. Please read this manual thoroughly before installation and retain it for future reference. This product is designed as a replacement part for specific vehicle applications.

SAFETY INFORMATION

Warning: Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to the vehicle's electrical system.

Caution: Improper installation can lead to vehicle malfunction or damage. If you are unsure about any step, consult a qualified automotive technician.

- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

SETUP AND INSTALLATION

The NS126 Neutral/Backup Switch is a vehicle-specific electronic switch. Installation typically involves replacing the existing neutral/backup switch on the transmission.

Pre-Installation Checks:

1. Verify that the NS126 switch is the correct part for your vehicle's make, model, and year.
2. Inspect the new switch for any visible damage.
3. Gather necessary tools, which may include wrenches, sockets, and a torque wrench.

Installation Steps:

1. Park the vehicle on a level surface and engage the parking brake.
2. Disconnect the negative terminal of the vehicle's battery.
3. Locate the existing neutral/backup switch on your vehicle's transmission. Consult your vehicle's service manual for

the exact location.

4. Carefully disconnect the electrical connector from the old switch.
5. Using the appropriate wrench or socket, remove the old switch from the transmission. Be prepared for some transmission fluid to drain.
6. Install the new Standard Motor Products NS126 switch into the transmission. Ensure it is properly seated.
7. Tighten the switch to the manufacturer's specified torque. Refer to your vehicle's service manual.
8. Reconnect the electrical connector to the new switch, ensuring a secure connection.
9. Reconnect the negative terminal of the vehicle's battery.
10. Check for proper operation of the neutral safety and backup lights.



Figure 1: The Standard Motor Products NS126 Neutral/Backup Switch. This image shows the black plastic housing of the switch with a central circular opening and several mounting points and an electrical connector extending from one side.

OPERATING INSTRUCTIONS

The Neutral/Backup Switch performs two primary functions:

- **Neutral Safety:** Prevents the engine from starting unless the transmission is in Park or Neutral. This is a critical safety feature to prevent accidental vehicle movement upon starting.
- **Backup Lights:** Activates the vehicle's backup lights when the transmission is shifted into Reverse.

After installation, verify both functions are operating correctly:

1. Attempt to start the vehicle in Drive or Reverse. The engine should not crank.
2. Shift the transmission into Park or Neutral and start the vehicle. The engine should crank and start normally.
3. With the engine running, shift the transmission into Reverse. Have someone observe the rear of the vehicle to confirm the backup lights illuminate.

MAINTENANCE

The Standard Motor Products NS126 Neutral/Backup Switch is designed for long-term reliability and typically requires no routine maintenance. However, periodic inspection of the electrical connector and wiring for corrosion or damage is recommended during other vehicle maintenance procedures.

- Keep the area around the switch clean and free from excessive dirt or debris.
- Ensure the electrical connector remains securely attached.

TROUBLESHOOTING

If you experience issues after installing the NS126 switch, consider the following:

Symptom	Possible Cause	Solution
Engine does not crank in Park or Neutral.	Loose electrical connection, faulty switch, incorrect installation.	Check electrical connector. Re-verify installation steps. Test switch continuity if possible.
Engine cranks in Drive or Reverse.	Faulty neutral safety function of the switch, incorrect installation.	Re-verify installation. Replace switch if confirmed faulty.
Backup lights do not illuminate in Reverse.	Blown fuse, faulty backup light bulbs, loose electrical connection, faulty switch.	Check fuses and bulbs. Inspect electrical connector. Test switch for backup light circuit continuity.
Backup lights remain on when not in Reverse.	Faulty switch (stuck closed).	Replace switch.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	Standard Motor Products
Model Number	NS126
Product Type	Electronic Switch (Neutral/Backup Switch)
Operation Mode	Automatic

Feature	Detail
Contact Type	Normally Open
Connector Type	Screw
Terminal Type	Screw
Circuit Type	Series
Mounting Type	Panel Mount
Actuator Type	Hinge Lever
Contact Material	Copper
Item Weight	4.8 ounces
Product Dimensions (L x W x H)	3.88 x 3.38 x 3.88 inches
Country of Origin	Taiwan
Fit Type	Vehicle Specific

WARRANTY INFORMATION

Standard Motor Products offers a limited warranty on its products. For specific warranty terms and conditions, please refer to the official Standard Motor Products website or contact their customer service. Typically, warranties cover defects in material and workmanship under normal use and service.

SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact Standard Motor Products customer support:

- **Website:** www.smpcorp.com (This is a general link, specific support contact might be on their site)
- Refer to the product packaging or the official website for the most current contact information.

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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.

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