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Standard Motor Products NS51

Standard Motor Products NS51 Neutral/Backup Switch Instruction Manual

Model: NS51

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products NS51 Neutral/Backup Switch. Please read these instructions thoroughly before proceeding with installation or use to ensure safe and effective performance. This switch is designed for specific automotive applications, primarily functioning as a neutral safety switch or a backup light switch.

2. Safety Information

Always observe the following safety precautions:

- Disconnect the vehicle's battery before beginning any electrical work to prevent electrical shock or damage to the vehicle's electrical system.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported if working underneath it.
- Refer to your vehicle's service manual for specific wiring diagrams and component locations.
- Improper installation can lead to vehicle malfunction or damage. If you are unsure about any step, consult a qualified automotive technician.

3. Product Overview

The Standard Motor Products NS51 is an electronic switch designed for automotive applications. It features a robust construction suitable for its intended environment.

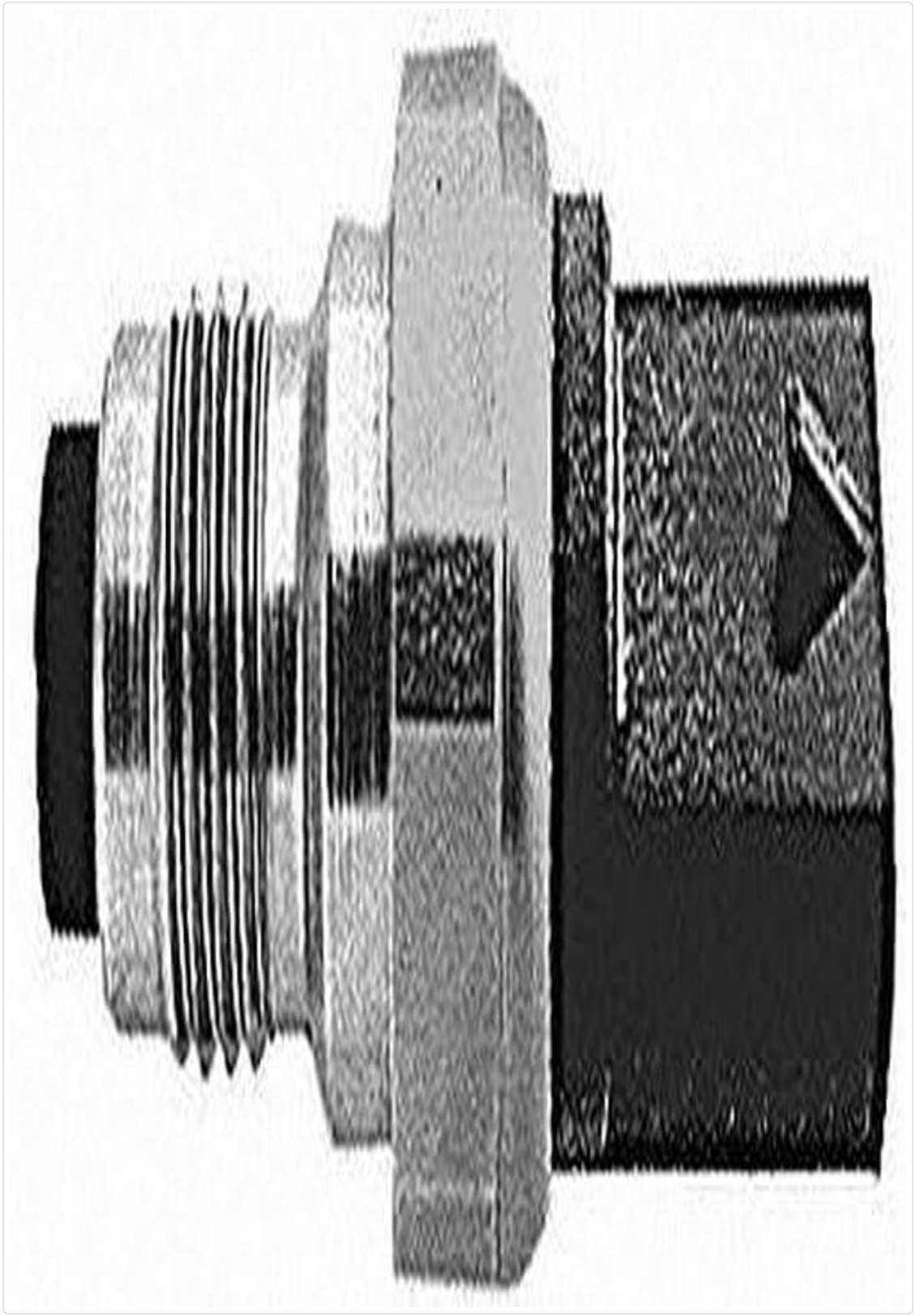


Figure 1: The Standard Motor Products NS51 Neutral/Backup Switch. This image displays the metallic threaded body and the black electrical connector end of the switch.

Key features include:

- **Product Type:** Electronic Switch
- **Operation Mode:** ON-OFF
- **Contact Type:** Normally Open
- **Connector Type:** Crimp
- **Terminal:** Screw

What's in the Box:

- Main component only (Standard Motor Products NS51 Neutral/Backup Switch)

4. Setup and Installation

Installation of the NS51 Neutral/Backup Switch requires mechanical and electrical knowledge. If you are not confident in your abilities, seek professional assistance.

4.1 Pre-Installation Steps

1. Identify the location of the existing neutral/backup switch on your vehicle. This is typically found on the transmission or transaxle.
2. Disconnect the negative terminal of the vehicle's battery.
3. Carefully disconnect the electrical connector from the old switch.
4. Using an appropriate wrench, loosen and remove the old switch. Be prepared for a small amount of transmission fluid to drain.

4.2 Installation Procedure

1. Apply a small amount of thread sealant to the threads of the new NS51 switch, if not pre-applied.
2. Carefully thread the new NS51 switch into its mounting location by hand to prevent cross-threading.
3. Tighten the switch with a wrench to the manufacturer's specified torque (refer to your vehicle's service manual). Do not overtighten.
4. Reconnect the electrical connector to the new switch, ensuring a secure connection.
5. Reconnect the negative terminal of the vehicle's battery.

5. Operating the Switch

The NS51 Neutral/Backup Switch operates automatically as part of your vehicle's transmission system. Its function is to either prevent the engine from starting unless the transmission is in Park or Neutral (neutral safety switch) or to activate the backup lights when the transmission is shifted into Reverse (backup light switch).

- **Neutral Safety Function:** When the transmission is in Park or Neutral, the switch completes a circuit allowing the engine to start. If the transmission is in any other gear, the circuit remains open, preventing engine start.
- **Backup Light Function:** When the transmission is shifted into Reverse, the switch completes a circuit, illuminating the vehicle's backup lights.

No direct user interaction is required for the operation of this switch once correctly installed.

6. Maintenance

The Standard Motor Products NS51 Neutral/Backup Switch is designed for long-term reliability and typically requires no routine maintenance. However, periodic inspection is recommended during vehicle service.

- Inspect the electrical connector for corrosion or damage. Clean or replace as necessary.
- Check for any signs of fluid leaks around the switch mounting area.
- Ensure the switch is securely tightened in its mounting.

If the switch shows signs of wear or malfunction, it should be replaced.

7. Troubleshooting

If you experience issues related to the neutral/backup switch, consider the following:

- **Engine does not crank in Park or Neutral:**
  - Check battery charge and connections.
  - Verify the transmission is fully engaged in Park or Neutral.
  - Inspect the wiring and connector to the neutral safety switch for damage or corrosion.
  - Test the switch for continuity in Park/Neutral positions (requires a multimeter and knowledge of electrical testing).
- **Backup lights do not illuminate when in Reverse:**
  - Check backup light bulbs for functionality.
  - Inspect the wiring and connector to the backup light switch for damage or corrosion.
  - Test the switch for continuity in Reverse position.
  - Check the fuse for the backup lights.

If troubleshooting steps do not resolve the issue, professional diagnosis and repair may be necessary.

8. Specifications

Specification	Value
Product Type	Electronic Switch
Operation Mode	ON-OFF
Current Rating	20 Amps
Operating Voltage	5 Volts
Contact Type	Normally Open
Connector Type	Crimp
Terminal	Screw
Item Dimensions (L x W x H)	2 x 2 x 3 inches
International Protection Rating	IP54
Connectivity Protocol	X-10
Unit Count	1 Count
Item Weight	1.6 ounces
Model Number	NS51
UPC	091769086367
Manufacturer	Auto Extra
Country Of Origin	Taiwan

9. Warranty and Support

Standard Motor Products offers a warranty on its products against defects in material and workmanship. For specific warranty terms and conditions, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
For technical support or further assistance, please contact Standard Motor Products customer service. When contacting support, please have your product model number (NS51) and purchase details available.

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