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Standard Motor Products NS58

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Model: NS58

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products NS58 Neutral/Backup Switch. Please read these instructions thoroughly before proceeding with installation or use to ensure safety and optimal performance.

2. PRODUCT OVERVIEW

The Standard Motor Products NS58 is a Neutral/Backup Switch designed for automotive applications. It functions as a safety switch, typically used to prevent engine starting when the transmission is not in neutral or park, and to activate backup lights when the vehicle is in reverse. This component is crucial for vehicle safety and proper electrical system operation.



Figure 1: The Standard Motor Products NS58 Neutral/Backup Switch. This image displays the main body of the switch, including its electrical connector and mounting points. The central circular component is likely the rotational sensor for gear position, and the rectangular protrusions are connection terminals.

3. SPECIFICATIONS

Feature	Detail
Model Number	NS58
Operation Mode	ON-OFF
Current Rating	20 Amps
Operating Voltage	5 Volts
Contact Type	Normally Open
Connector Type	Crimp

Terminal Type	Solder
Contact Material	Copper
International Protection Rating	IP58
Number of Positions	2
Item Weight	2.08 ounces
Product Dimensions (L x W x H)	4 x 2 x 5 inches
Country of Origin	China

4. SETUP AND INSTALLATION

Important Safety Notice: Installation of automotive electrical components should ideally be performed by a qualified professional. Disconnect the vehicle's battery before beginning any electrical work to prevent injury or damage to the vehicle's electrical system.

- Preparation:** Ensure the vehicle is turned off and the battery's negative terminal is disconnected. Identify the location of the existing neutral/backup switch, typically found on the transmission.
- Removal of Old Switch:** Carefully disconnect the electrical connector from the old switch. Use appropriate tools to unbolt or unclip the old switch from its mounting point. Be prepared for potential fluid leakage if the switch is submerged in transmission fluid.
- Inspection:** Inspect the mounting surface and electrical connector for any damage or corrosion. Clean as necessary.
- Installation of New Switch:** Position the new NS58 switch in the correct orientation. Secure it using the original mounting hardware. Ensure it is seated properly and tightened to the manufacturer's specifications (if available).
- Electrical Connection:** Reconnect the vehicle's wiring harness to the NS58 switch. Ensure the crimp connector is secure and free from corrosion.
- Final Checks:** Reconnect the vehicle's battery. Test the functionality of the neutral safety feature (ensure the engine only starts in Park or Neutral) and the backup lights (ensure they illuminate when the vehicle is in Reverse).

5. OPERATION

The Standard Motor Products NS58 Neutral/Backup Switch operates automatically based on the transmission's gear selection. Its primary functions are:

- Neutral Safety Function:** This prevents the engine from starting unless the transmission is in the "Park" or "Neutral" position. This is a critical safety feature to avoid accidental vehicle movement upon ignition.
- Backup Light Activation:** When the transmission is shifted into "Reverse," the switch completes a circuit, illuminating the vehicle's backup lights. This alerts others to the vehicle's rearward movement and provides illumination for the driver.

The switch operates in an ON-OFF mode, changing its internal contact state (Normally Open) based on the mechanical input from the transmission linkage.

6. MAINTENANCE

The NS58 Neutral/Backup Switch is designed for durability and typically requires minimal maintenance. However, periodic checks can help ensure its longevity and proper function:

- Visual Inspection:** Periodically inspect the switch and its wiring for any signs of physical damage, corrosion, or loose connections.

- **Cleanliness:** Keep the area around the switch free from excessive dirt, debris, or fluid buildup, which could interfere with its mechanical operation or electrical connections.
- **Connection Integrity:** Ensure the electrical connector remains firmly attached and that the crimp terminals are not corroded.

If any issues are observed, consult a qualified automotive technician.

7. TROUBLESHOOTING

If you experience issues with your vehicle's neutral safety or backup light system, the NS58 switch may be a contributing factor. Here are some common symptoms and basic troubleshooting steps:

Symptom	Possible Cause / Action
Engine will not start in Park or Neutral.	Faulty neutral safety switch, loose wiring, or misadjusted shift linkage. Check electrical connections and ensure the transmission is fully engaged in Park or Neutral.
Backup lights do not illuminate when in Reverse.	Blown fuse, faulty backup light bulbs, faulty backup light switch (NS58), or loose wiring. Check fuses and bulbs first, then inspect switch connections.
Engine starts in gear (not Park/Neutral).	Faulty neutral safety switch or severely misadjusted shift linkage. This is a serious safety concern; seek professional service immediately.

For complex electrical diagnostics or if the above steps do not resolve the issue, it is recommended to consult a certified automotive technician.

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Standard Motor Products NS58 Neutral/Backup Switch, please refer to the documentation provided at the point of purchase or visit the official Standard Motor Products website. For technical support or further assistance, please contact Standard Motor Products customer service directly.

Manufacturer: Standard Motor Products
Website: [www.smpcorp.com](#) (Example link, actual link may vary)

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