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› Nilight Turn Signal Rocker Switch (Model 90742G) User Manual

Nilight 90742G

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User Manual

1. PRODUCT OVERVIEW

The Nilight 4-Pin ON-OFF-ON Rocker Switch, Model 90742G, is a durable toggle switch designed for controlling turn signals. It features a green backlight and laser-etched patterns for clear indication. This switch is rated for 12V DC at 20 Amps and 24V DC at 10 Amps, making it suitable for a wide range of vehicles including cars, trucks, RVs, boats, campers, and trailers.



Image 1.1: Nilight Turn Signal Rocker Switch with jumper wires.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x 4-Pin Rocker Switch
- 1x Jumper Wires Set
- 1x Wiring Diagram (typically included with the product or available online)

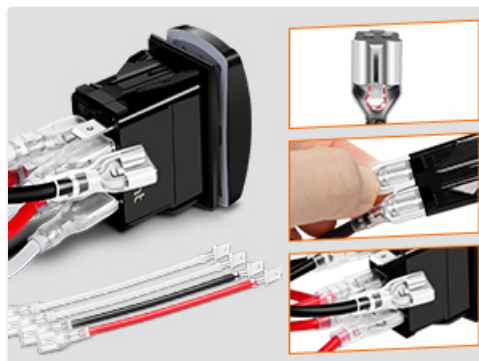


Image 2.1: Included jumper wires for easy connection.

3. SPECIFICATIONS

Feature	Specification
Operation Mode	ON-OFF-ON
Current Rating	20 Amps (12V DC), 10 Amps (24V DC)
Operating Voltage	12 Volts / 24 Volts
Contact Type	Normally Open
Connector Type	Quick Connect
Switch Type	Rocker
Terminal	Spade
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Dimensions (L x W x H)	2.36 x 2.36 x 1.97 inches
Circuit Type	5-way
Mounting Type	Panel Mount
Actuator Type	Rocker
International Protection Rating	IP64
Certification	CE

4. INSTALLATION

4.1 Wiring Method

The switch uses a 4-pin configuration. Refer to the wiring diagram below for proper connections. Ensure all connections are secure and insulated to prevent short circuits.

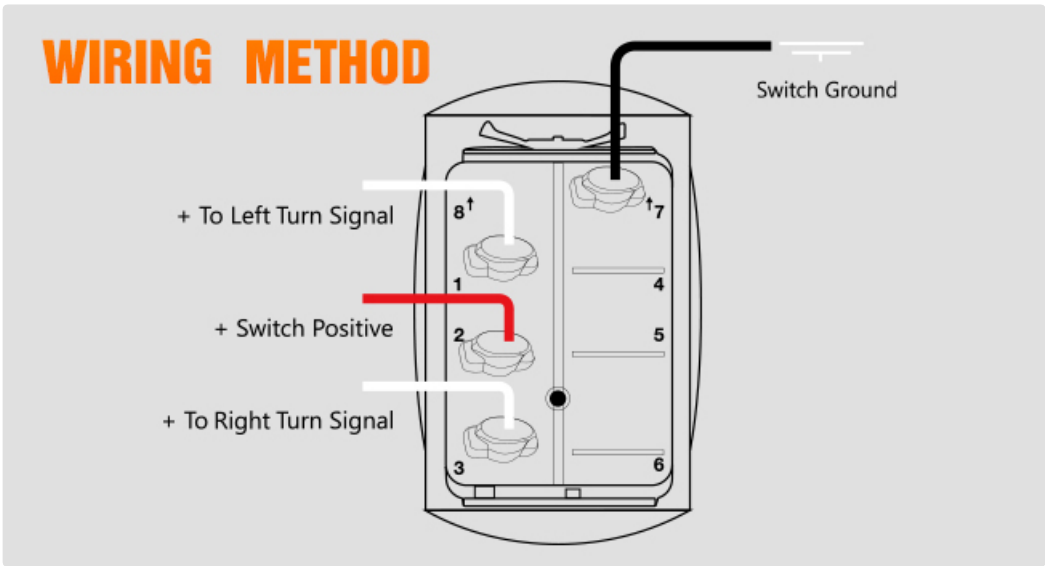


Image 4.1: Wiring Diagram. Connect the switch ground, switch positive, and wires to the left and right turn signals as indicated.

4.2 Physical Installation

This rocker switch is designed for panel mounting and fits standard switch panels and holders. It is the same size as other 5-pin and 7-pin Nilight rocker switches, allowing for easy integration into existing setups.



Image 4.2: Easy installation into a switch holder (sold separately).



Image 4.3: Installation into a switch holder.



Image 4.4: Installation into a switch panel.

5. OPERATION

5.1 Switch Functionality

This is an ON-OFF-ON switch with three positions to control turn signals:

- **Upper Position (ON):** Activates the right turn signal. The upper arrow pattern illuminates.
- **Middle Position (OFF):** Deactivates both turn signals. The middle "TURN SIGNAL" text does not illuminate.
- **Lower Position (ON):** Activates the left turn signal. The lower arrow pattern illuminates.



Image 5.1: SPDT Switch positions for turn signal control.

5.2 LED Lighting Effect

The switch features built-in green LEDs that illuminate the laser-etched patterns, making it easy to locate and operate the switch in low-light conditions.

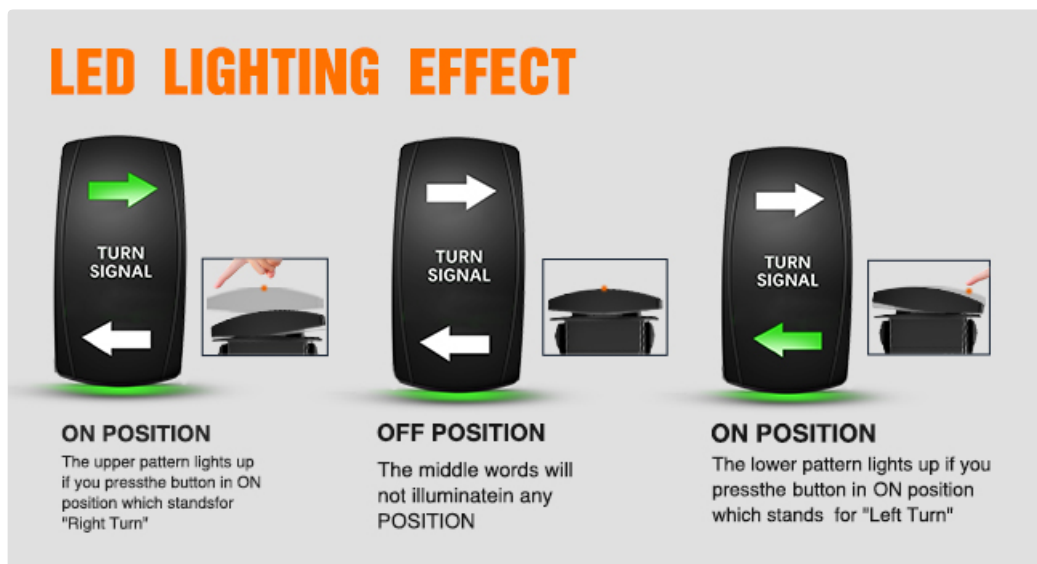


Image 5.2: LED illumination for ON and OFF positions.

6. MAINTENANCE

The Nilight rocker switch is designed for durability and requires minimal maintenance. Periodically inspect the switch and its wiring for any signs of wear, damage, or loose connections. Clean the surface of the switch with a soft, dry cloth if necessary. Avoid using harsh chemicals or abrasive materials that could damage the switch or its laser-etched patterns.

7. TROUBLESHOOTING

- **Switch Not Lighting Up:**

Check the power supply to the switch. Ensure the wiring is correctly connected according to the diagram (Image 4.1). Verify that the vehicle's electrical system is functioning correctly and providing the appropriate voltage (12V or 24V DC).

- **Turn Signals Not Activating:**

Confirm that the switch is fully engaged in the ON position (either upper or lower). Inspect the wiring from the switch to the turn signal lights for any breaks or loose connections. Ensure the turn signal bulbs or LEDs are functional.

- **Intermittent Functionality:**

This may indicate a loose connection. Re-check all wiring terminals and ensure they are securely fastened. Inspect the switch for any physical damage that might affect its internal mechanism.

8. WARRANTY AND SUPPORT

Nilight products are manufactured to high-quality standards. For warranty information or technical support, please refer to the official Nilight website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Visit the [Nilight Store](#) for more information.