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› [Nilight](#) /

› Nilight 16AWG Fog Light Wiring Harness Kit User Manual

Nilight FOG-W202

Nilight 16AWG Fog Light Wiring Harness Kit User Manual

Model: FOG-W202

Brand: Nilight

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Nilight 16AWG Fog Light Wiring Harness Kit. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image: Overview of the Nilight 16AWG Fog Light Wiring Harness Kit, showing the main wiring, the 5-pin rocker switch, and spare blade fuses.

SAFETY INFORMATION

Always exercise caution when working with automotive electrical systems. Improper installation can lead to electrical shorts, fire, or damage to your vehicle. It is recommended that installation be performed by a qualified professional if you are not familiar with automotive wiring.

- Disconnect the vehicle's battery before beginning any electrical work.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not exceed the maximum wattage capacity of 180W for the connected lights.
- If your power supply is 24V, replace the original 12V relay with a compatible 24V relay.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Fog Light Wiring Harness Kit

- 1 x 5-Pin LED Rocker Switch
- Extra Blade Fuses (10A, 15A)
- 1 x Wiring Diagram (included in this manual)

SETUP AND INSTALLATION

Follow these steps for proper installation of the wiring harness kit. Refer to the wiring diagram for visual guidance.

Component Overview:



Image: The 12V 40A power relay, designed for safety protection and circuit conversion. Features a high-quality copper coil and premium contactor for durability.

The kit includes a power relay (JD1912 12V 40A) for safety protection and circuit conversion. It features a high-quality copper coil for good conductivity and extended wear, along with a premium contactor.



Image: The water-resistant fuse holder, which houses a 10A or 15A fuse for overvoltage, overload, and short circuit protection. Three extra blade fuses are provided for replacement.

A blade fuse is integrated into the circuit to protect against over-current or short circuits. The fuse holder is water-resistant. The kit comes with two extra fuses (10A/15A options).

TWO CONNECTOR

880,886,889,892,893,H8,H9,H11,PG13,
PGJ13I,890,862,881,884,885,894,898,889
Connector, plug and play,easy to connect



Image: The two output connectors, designed for dual light fixtures. These connectors are compatible with H11, H9, H8, 886, 889, 892, PG13, PGJ13, 880, 889, 862, 881, 884, 885, 894, 898, and 899 fog light bulbs.

The harness features two sets of light output connectors, allowing for dual light fixtures. These connectors are compatible with a wide range of fog light bulbs including H11, H9, H8, 886, 889, 892, PG13, PGJ13, 880, 889, 862, 881, 884, 885, 894, 898, and 899. The maximum wattage supported is 180W.

STURDY AND DURABLE SWITCH

High quality ABS makes the switch sturdy 10,000 times pressing test makes the switch flexible and durable.

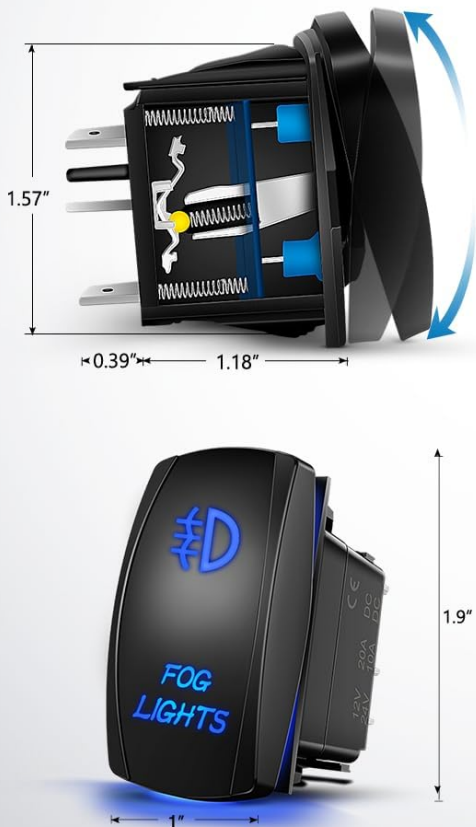


Image: Detailed view of the 5-pin rocker switch, showing its dimensions (1.57" x 0.83" x 1.9") and internal spring mechanism. Made from high-quality ABS for durability.

The included 5-pin on-off rocker switch features an SPST (single pole single throw) design for simple operation. It is constructed from high-quality ABS material for durability and has been tested for over 10,000 presses. The switch has built-in LEDs that illuminate to indicate its status.

Wiring Diagram:

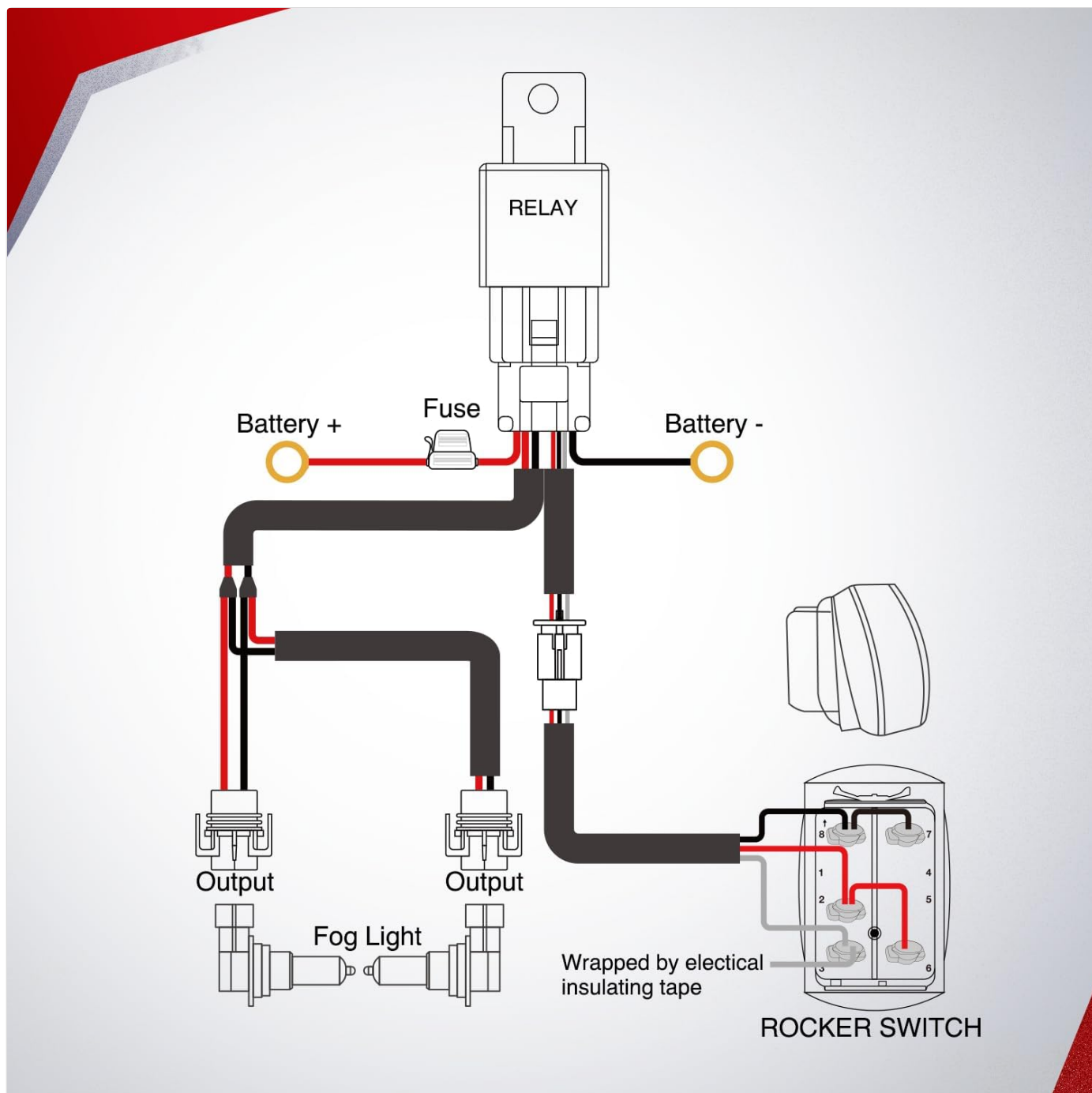


Image: Comprehensive wiring diagram illustrating connections from the battery to the relay, fuse, rocker switch, and two fog light outputs. Shows positive and negative terminals, output connectors, and the rocker switch pinout.

1. Connect the red wire from the harness to the positive (+) terminal of your vehicle's 12V battery.
2. Connect the black wire from the harness to the negative (-) terminal of your vehicle's 12V battery or a suitable ground point on the vehicle chassis.
3. Route the wiring harness to the desired location for your fog lights. The harness has two output connectors for dual light fixtures.
4. Connect your H11, H9, H8, or other compatible fog light bulbs to the output connectors. Ensure a secure connection.
5. Install the 5-pin rocker switch in a suitable location within your vehicle's dashboard or console. Refer to the switch dimensions for proper fitment.
6. Connect the wires from the harness to the rocker switch according to the wiring diagram. The switch has specific pins for power input, output to the relay, and ground.
7. Ensure all connections are tight and insulated. Use electrical insulating tape where necessary.
8. Once all connections are made, reconnect the vehicle's battery.

9. Test the fog lights using the rocker switch.

The harness length is 7.2 feet, providing ample length for various mounting positions. The extended power wire to the switch is approximately 6.87 feet, and to the battery is 1.77 feet. The extended power to each fog light is approximately 3.88 feet and 7.33 feet respectively.

OPERATING INSTRUCTIONS

The 5-pin rocker switch controls the power to your fog lights.



Image: Demonstrates the LED lighting behavior of the rocker switch. The lower LED illuminates constantly when the ignition key is on (back-up LED lights), or only when the switch is in the ON position (no back-up LED lights).

- **Turning On:** Press the top part of the rocker switch labeled "FOG LIGHTS" to the ON position. The built-in LEDs will illuminate, and your connected fog lights will turn on.
- **Turning Off:** Press the bottom part of the rocker switch to the OFF position. The built-in LEDs will turn off (or the lower LED will remain on if configured as a back-up light), and your fog lights will turn off.
- The lower LED on the switch can be configured to illuminate constantly when the ignition is on (back-up LED lights) or only when the switch is in the ON position (no back-up LED lights).

MAINTENANCE

- Periodically inspect all wiring connections for tightness and corrosion. Clean any corroded terminals.
- Check the fuse regularly. If the fog lights stop working, the fuse may have blown. Replace it with a new fuse of the same amperage (10A or 15A). Extra fuses are provided.
- Ensure the wiring harness is not exposed to excessive heat, sharp edges, or moving parts that could cause damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Fog lights do not turn on.	Blown fuse.	Check and replace the blade fuse in the fuse holder. Use a fuse of the correct amperage (10A or 15A).
Fog lights do not turn on.	Loose or incorrect wiring connections.	Verify all connections are secure and follow the wiring diagram. Ensure positive and negative terminals are correctly connected.
Fog lights do not turn on.	Faulty rocker switch.	Test the switch for continuity. If faulty, replace the switch.
Fog lights flicker or are dim.	Poor ground connection.	Ensure the ground wire is securely connected to a clean, unpainted metal surface on the vehicle chassis.
Fog lights flicker or are dim.	Insufficient power supply or overloaded circuit.	Ensure the vehicle's battery is adequately charged. Verify the total wattage of connected lights does not exceed 180W. If using 24V, ensure a 24V relay is installed.

SPECIFICATIONS



Image: A comparison table detailing the specifications of the Nilight harness versus an ordinary harness, covering length, wire gauge, max wattage, max amperage, switch type, and number of fuses.

Feature	Specification
Brand	Nilight
Model Number	FOG-W202
Material	Polyvinyl Chloride (PVC)
Harness Length	7.2 feet
Wire Gauge	16 AWG
Max Wattage	180W
Max Amperage	15A
Switch Type	5 Pin Rocker Switch (SPST)
Fuse Type	Blade Fuse (10A/15A)
Connector Compatibility	H11, H9, H8, 886, 889, 892, PG13, PGJ13, 880, 889, 862, 881, 884, 885, 894, 898, 899
Item Weight	14.3 ounces (0.41 Kilograms)
Package Dimensions	7.83 x 3.11 x 2.24 inches

WARRANTY AND SUPPORT

Nilight products are designed for quality and durability. This product comes with a 2-year warranty.

For technical support, troubleshooting assistance, or warranty claims, please contact Nilight customer service. Refer to the official Nilight website or product packaging for current contact information.

Nilight is committed to standing behind its products and ensuring customer satisfaction.