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Nilight ZH327

Nilight ZH327 20-Inch LED Light Bar and 4-Inch LED Pods Kit User Manual

MODEL: ZH327

1. Introduction

Thank you for choosing the Nilight ZH327 LED Light Bar and Pods Kit. This manual provides essential information for the safe installation, operation, and maintenance of your new lighting system. Please read it thoroughly before installation and keep it for future reference.

Package Contents:

- 1 x 20-Inch LED Light Bar
- 4 x 4-Inch Cube LED Pods
- 1 x 2-Gang Rocker Switch Wiring Harness Kit (with relays and fuses)
- Mounting Brackets and Hardware

2. Safety Information

Please observe the following safety precautions to prevent personal injury or damage to the product and your vehicle:

- **Professional Installation Recommended:** If you are unsure about electrical wiring, consult a qualified professional.
- **Disconnect Power:** Always disconnect the vehicle's battery before beginning any electrical installation.
- **Voltage Compatibility:** This product is designed for 12V DC systems only. Do not connect to higher voltage systems.
- **Secure Mounting:** Ensure all lights are securely mounted to prevent detachment during vehicle operation.
- **Avoid Direct Eye Exposure:** Do not look directly into the light when it is illuminated, as it can cause eye strain or damage.
- **Proper Wiring:** Ensure all wiring connections are secure and insulated to prevent short circuits.

3. Product Features

The Nilight ZH327 LED lighting kit is engineered for superior performance and durability:

- **Super Brightness:** Features a triple-row design with a spot-flood combo beam pattern and nest reflector cups for

maximum light efficiency and broad illumination.

- **Upgraded Reflector Cups:** Broad reflective plates on both sides allow for multi-angle light refraction, enhancing ambient illumination.
- **Robust Wiring Harness:** Includes a 2-gang rocker switch wiring harness with 5 leads. Switch 1 controls the 20-inch LED light bar, and Switch 2 controls the 4-inch LED pods on a separate circuit.
- **Durable Switch Panel:** The rocker switch panel features a blue indicator light when active and laser-etched patterns for long-lasting visibility. Tested for over 5,000 presses.
- **Wide Application:** The 12-foot extendable wiring harness is suitable for most 12V battery vehicles, including Jeeps, ATVs, UTVs, trucks, cars, motorcycles, ships, yachts, and trailers.
- **Efficient Heat Dissipation:** Constructed with a die-cast aluminum alloy housing and advanced cooling fins to ensure rapid heat dissipation and extended LED lifespan.
- **IP67 Waterproof Design:** Features a waterproof silica gel strip, potting glue sealed wires, and rubber pads for enhanced water and dust resistance, ensuring reliable performance in harsh conditions.
- **Adjustable Mounting:** Equipped with a 45-degree adjustable bracket for easy direction changes, allowing optimal light positioning.



Image: Dimensions of the 20-inch LED light bar and 4-inch LED pods, showing length, width, and height measurements for proper fitment.

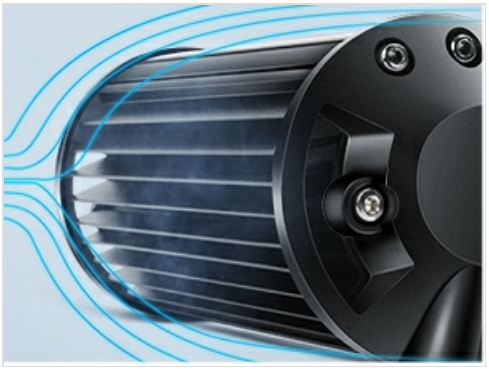


Image: Close-up view of the aluminum alloy housing and cooling fins, illustrating the effective heat dissipation design of the LED light bar.

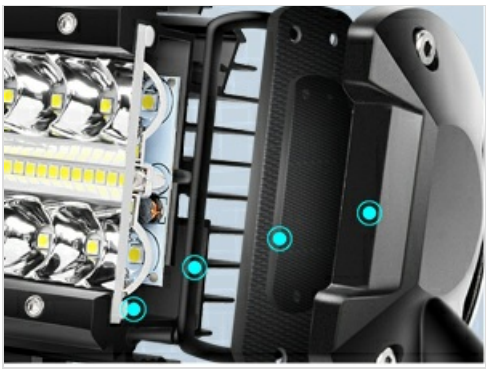


Image: Diagram showing the multi-layer IP67 waterproof construction, including sealed wires and rubber gaskets, ensuring durability against water and dust.

4. Setup and Installation

4.1. Pre-Installation Checklist

- Verify all package contents are present and undamaged.
- Gather necessary tools: wrench set, wire strippers, crimping tool, electrical tape, multimeter (optional).
- Ensure the vehicle's battery is disconnected before starting any electrical work.

4.2. Mounting the Lights

1. Determine the desired mounting location for the LED light bar and pods on your vehicle. Ensure the location provides adequate clearance and does not obstruct vehicle functions or safety features.
2. Attach the provided mounting brackets to the LED light bar and pods using the supplied hardware. Do not fully tighten the bolts yet, as adjustments may be needed.
3. Position the lights in the chosen location and mark the drilling points if necessary. Drill pilot holes if required.
4. Securely fasten the lights to the vehicle using the mounting hardware. Adjust the angle of the lights for optimal beam direction, then fully tighten all mounting bolts.



Image: Step-by-step visual guide demonstrating the easy installation process of attaching brackets and mounting the LED light bar to a vehicle.

4.3. Wiring Instructions

The wiring harness is designed for straightforward installation. Follow these steps carefully:

1. **Connect to Battery:** Connect the red wire from the wiring harness (with the fuse holder) to the positive (+) terminal of your vehicle's 12V battery. Connect the black wire to the negative (-) terminal or a suitable chassis ground point.
2. **Connect Lights:** The harness has multiple output leads. Connect the appropriate leads to your 20-inch LED light bar and the 4-inch LED pods. Ensure positive-to-positive and negative-to-negative connections.
3. **Install Rocker Switch:** Route the switch cable from the harness to your desired switch mounting location inside the vehicle cabin. Install the 2-gang rocker switch into a suitable panel opening. Connect the switch connector from the harness to the back of the rocker switch.
4. **Secure Wiring:** Route all wires away from hot engine parts, moving components, and sharp edges. Use zip ties or cable clips to secure the wiring neatly and prevent chafing or damage.
5. **Reconnect Battery:** Once all connections are made and secured, reconnect your vehicle's battery.

6. **Test Functionality:** Turn on your vehicle and test the functionality of both switches to ensure the light bar and pods illuminate correctly.

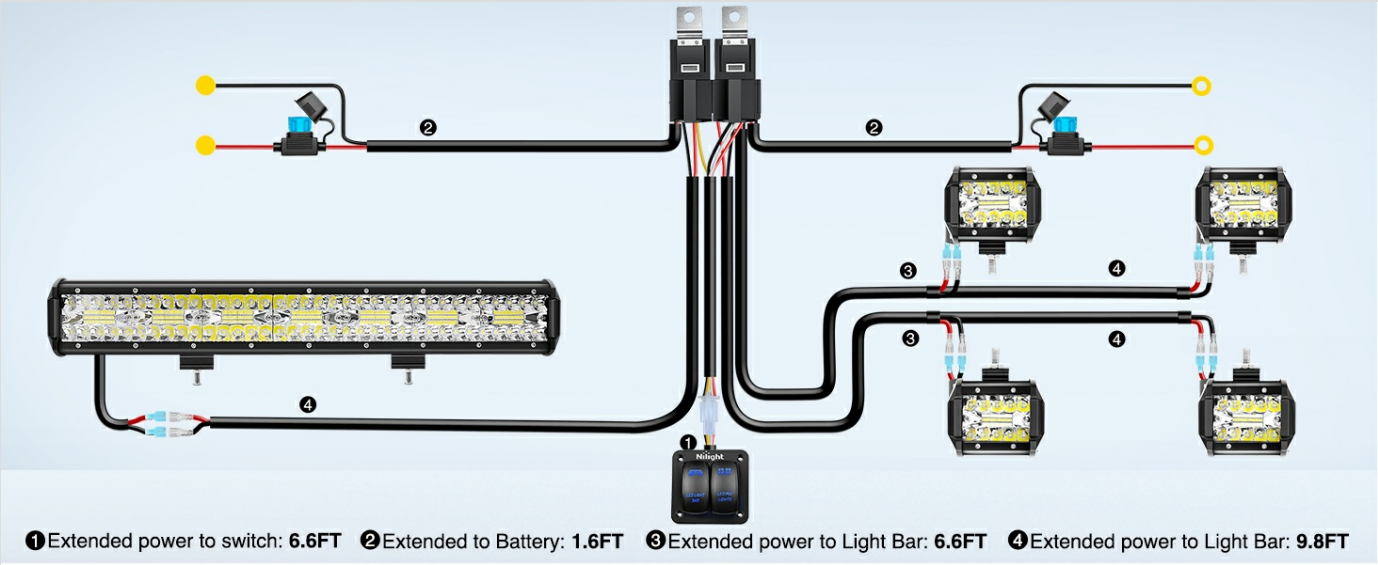


Image: Detailed wiring diagram illustrating the connections for the 20-inch LED light bar, four 4-inch LED pods, 2-gang rocker switch, relays, fuses, and battery terminals.

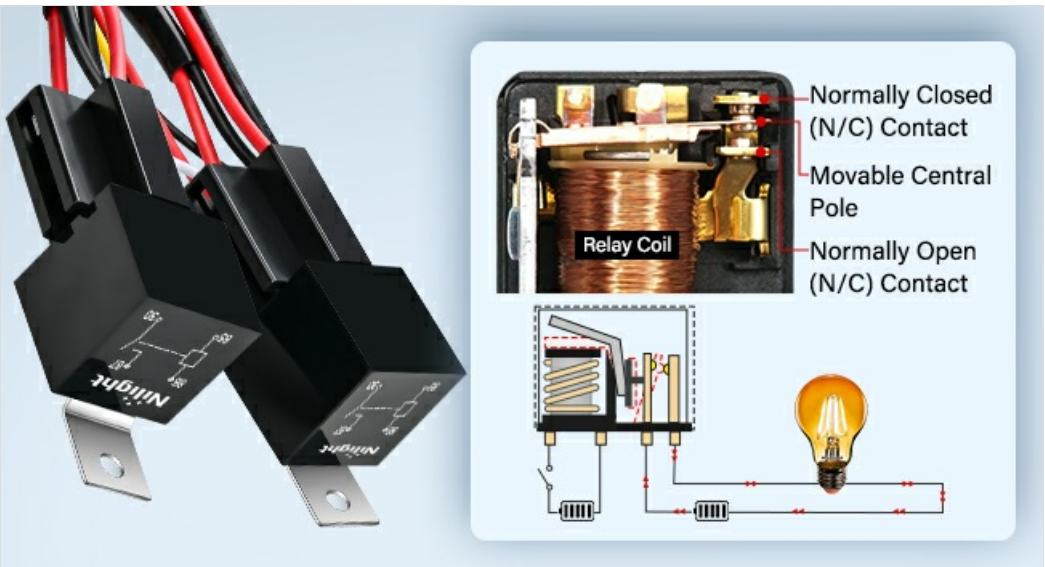


Image: Diagram explaining the working principle of an automotive relay, showing how it uses a small current to control a larger current for the lights.

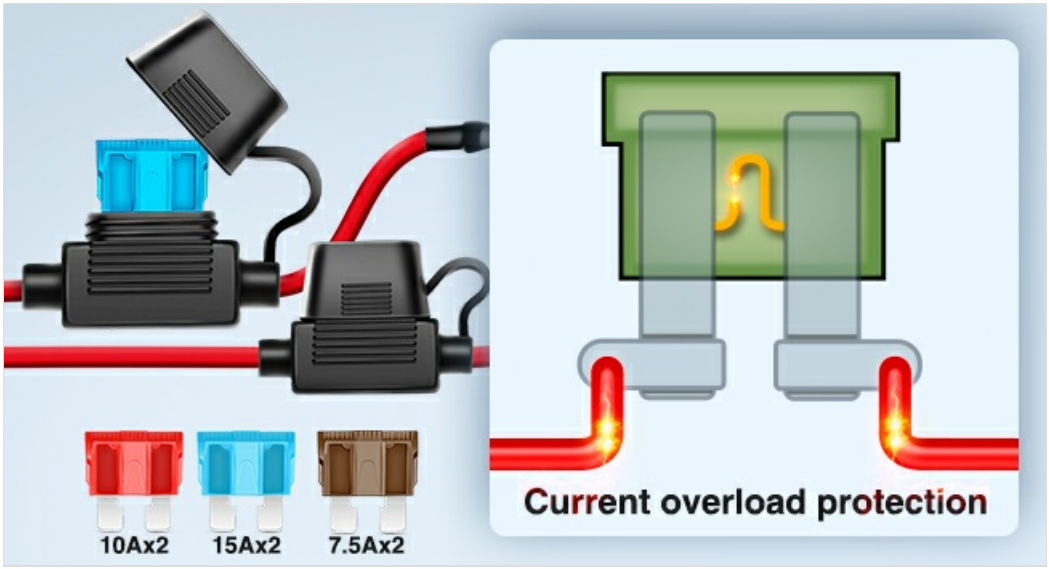


Image: Illustration demonstrating how inline blade fuses protect electrical circuits from overcurrent by melting and breaking the circuit.

5. Operation

Using the Rocker Switch Panel

The included 2-gang rocker switch panel allows independent control of the LED light bar and the LED pods:

- **Left Switch (LED Light Bar):** Press this switch to turn on/off the 20-inch LED light bar. A blue indicator light will illuminate when the light bar is active.
- **Right Switch (LED Pod Lights):** Press this switch to turn on/off the four 4-inch LED pods. A blue indicator light will illuminate when the pods are active.

You can operate the light bar and pods together or independently, depending on your lighting needs.



Image: Close-up view of the Nilight 2-gang rocker switch panel, showing the 'LED LIGHT BAR' and 'LED POD LIGHTS' labels with blue illumination when activated.

6. Maintenance

To ensure the longevity and optimal performance of your Nilight LED lighting kit, follow these simple maintenance guidelines:

- **Cleaning:** Periodically clean the lenses of the light bar and pods with a soft cloth, mild soap, and water. Avoid abrasive cleaners that could scratch the lens.
- **Inspect Wiring:** Regularly check all wiring connections for signs of wear, fraying, or corrosion. Ensure all connections remain tight and properly insulated.
- **Check Mounting:** Periodically inspect the mounting hardware to ensure all bolts are tight and the lights are securely fastened to the vehicle.
- **Fuse Inspection:** If a light stops working, check the inline fuses in the wiring harness. Replace blown fuses with ones of the same amperage rating.

7. Troubleshooting

Lights Not Turning On:

- **Check Power Connection:** Ensure the wiring harness is correctly connected to the vehicle's battery (positive and negative terminals).
- **Inspect Fuses:** Check the inline fuses in the wiring harness. If a fuse is blown, replace it with a new one of the same amperage (e.g., 10A, 15A).
- **Verify Switch Connection:** Ensure the rocker switch is properly connected to the wiring harness.
- **Check Light Unit Connections:** Confirm that the light bar and pod connections to the harness are secure and correctly polarized.

Flickering Lights:

- **Loose Connections:** Check all wiring connections for looseness. Tighten any loose terminals or connectors.
- **Poor Ground:** Ensure the ground wire is securely connected to a clean, unpainted metal surface on the vehicle chassis.
- **Voltage Fluctuation:** Verify your vehicle's electrical system is providing stable 12V power.

8. Specifications

Feature	Specification
Model Number	ZH327
Brand	Nilight
Light Source Type	LED
Wattage	420 Watts (Total)
Voltage	12 Volts DC
Material	Aluminum (Housing)
Finish Type	Painted
Mounting Type	Bracket Mount
Special Features	Triple Row Beam, Multi-Angle Refraction, Dual Circuit Control
Waterproof Rating	IP67 (Inferred from product description)

9. Warranty and Support

Nilight provides a **2-year warranty** for this product, covering manufacturing defects from the date of purchase. This warranty does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications. For technical support, warranty claims, or any questions regarding your Nilight LED Light Bar and Pods Kit, please contact Nilight customer service through their official website or your point of purchase. Please have your model number (ZH327) and proof of purchase ready when contacting support.

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