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› Nilight 18W Flood LED Off-Road Lights Instruction Manual

Nilight 60001F-B

Nilight 18W Flood LED Off-Road Lights Instruction Manual

Model: 60001F-B

1. INTRODUCTION

Thank you for choosing Nilight 18W Flood LED Off-Road Lights. These lights are engineered to provide powerful and wide illumination for various applications, including off-road vehicles, trucks, SUVs, ATVs, boats, and more. Designed for durability and performance, they feature advanced LED technology, efficient heat dissipation, and robust construction to withstand challenging environments. This manual provides essential information for safe installation, operation, and maintenance of your new LED lights.



Figure 1.1: Nilight 18W Flood LED Off-Road Lights (2-pack).

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installation and operation to prevent injury or damage.

- **Electrical Safety:** Always disconnect the vehicle's battery before performing any electrical work. Ensure proper wiring and fuse protection to prevent short circuits and electrical fires. Consult a professional if you are unsure about electrical connections.
- **Mounting:** Securely mount the lights to a stable surface that can support their weight and withstand vibrations. Improper mounting can lead to detachment and potential hazards.
- **Heat:** LED lights generate heat during operation. Ensure adequate airflow around the light bar to facilitate heat dissipation and prevent overheating.
- **Eye Protection:** Do not look directly into the light when it is illuminated, as the intense brightness can cause eye strain or damage.
- **Vehicle Compatibility:** Verify that the lights are compatible with your vehicle's electrical system and intended use.

3. PRODUCT FEATURES

The Nilight 18W Flood LED Off-Road Lights offer several key features for superior performance:

- **Super Bright and Wide Illumination Range:** Advanced LED chips produce a bright, white light for clear visibility. The specially designed lamp cup ensures a wider illumination range, enhancing visibility to the left and right.
- **Better Heat Dissipation:** Equipped with quick-cooling aluminum alloy heat sinks and high-quality heat conduction silicone gel, these lights effectively extend their lifespan to over 30,000 hours.
- **High Protective Performance:** With an IP67 waterproof rating, the lights are waterproof up to 1 meter of water for 30 minutes and are effectively dustproof. The stainless steel mounting brackets are rustproof and anticorrosive.
- **Adjustable Mounting Bracket:** The adjustable mounting bracket allows the work light to be adjusted to approximately 45 degrees, simplifying direction changes.
- **Widespread Uses:** Compatible with almost all Jeeps, 4x4s, Trucks, Motorcycles, SUVs, ATVs, Cars, Boats, etc. Suitable for many indoor and outdoor uses, including Garden Lighting, Backyard Lighting, Back-up Light, Off-Road Lighting, and Construction Lighting.



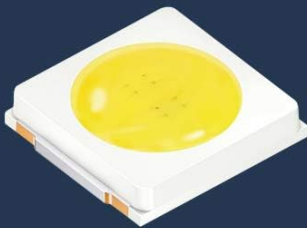
Figure 3.1: Product dimensions and included mounting hardware.



BRIGHTNESS

- ✓ Multi-angle refraction
- ✓ High Light Density
- ✓ Maximum Light Efficiency

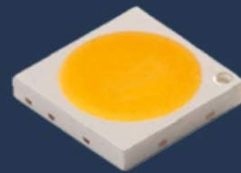
Nilight



Customized High Lumens Chips , Long Time High Intensity, Stable Lighting

VS

Other



Cheapest SMD , Bright at first, But higher decay rate

Figure 3.2: Brightness comparison highlighting Nilight's customized high lumens chips.



Figure 3.3: IP67 Waterproof design with rubber pad and EVA strip for sealing.



ADJUSTABLE & DURABLE

45 degree adjustable angel is easy to change the direction





Nilight

Sturdy Construction Military aluminum for exceptional strength



Other

Jerry-built Junky metalwork vulnerable to rust and corrosion



Figure 3.4: Adjustable mounting bracket and military-grade aluminum construction.



Figure 3.5: Efficient heat dissipation design with die-cast aluminum housing and thermal grease.

4. SPECIFICATIONS

Attribute	Detail
Brand	Nilight
Model	60001F-B
Color	2Pcs 18w Led Light
Wattage	18W/PC
Lumen	1260LM
LED Color Temperature	6000K-6500K

Input Voltage	9-30V DC
Waterproof Rate	IP67
Lifespan	Over 30,000 hours
Item Weight	1 pound
Product Dimensions (L x W x H)	8 x 3 x 3 inches
UPC	795213063811

5. SETUP & INSTALLATION

The Nilight LED Pods are designed for straightforward installation. For detailed, step-by-step instructions, please refer to the official Installation Manual (PDF) provided by Nilight. A general overview of the process is as follows:

- Unpack Components:** Carefully remove all items from the packaging. Verify that all parts, including the LED pods, mounting brackets, and hardware, are present.
- Choose Mounting Location:** Select a suitable mounting location on your vehicle that provides optimal light projection and does not obstruct visibility or vehicle operation. Ensure the surface is strong enough to support the lights.
- Assemble Brackets:** Attach the mounting brackets to the LED pods using the provided hardware. Do not fully tighten the bolts at this stage to allow for adjustment.
- Secure Lights to Vehicle:** Position the assembled lights on the chosen mounting surface. Mark and drill pilot holes if necessary. Secure the lights using the appropriate bolts, nuts, and washers.
- Adjust Angle:** Adjust the angle of the lights to achieve the desired beam direction. Once satisfied, fully tighten all mounting bolts to secure the lights in place.
- Wiring:** Connect the lights to your vehicle's electrical system. This typically involves connecting the positive wire to a fused 12V power source (e.g., battery, accessory circuit) and the negative wire to a ground point. It is recommended to use a relay and switch for safe and convenient operation.
- Test Functionality:** After all connections are made, test the lights to ensure they function correctly.

For a comprehensive guide, including wiring diagrams and specific mounting considerations, please download the official Installation Manual from the product page or the Nilight website. You can also find the PDF manual [here](#).



Figure 5.1: Example installation of Nilight LED pods on a truck.

6. OPERATION

Operating your Nilight LED Pods is straightforward once properly installed:

- **Power On/Off:** If wired with a switch, simply toggle the switch to turn the lights on or off.
- **Beam Pattern:** These are flood beam lights, designed to provide a wide spread of illumination. They are ideal for off-road driving, work areas, or as auxiliary lighting where broad coverage is needed.
- **Adjusting Angle:** If you need to change the direction of the light, loosen the mounting bolts slightly, adjust the light to the desired angle, and then re-tighten the bolts securely.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Nilight LED Pods:

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap and water. Avoid abrasive cleaners or solvents that could damage the finish or lens.
- **Inspection:** Regularly inspect the mounting hardware and wiring connections for any signs of looseness, corrosion, or damage. Tighten any loose bolts and repair or replace damaged wiring as needed.
- **Heat Sinks:** Ensure the heat sinks on the back of the lights are free from dirt, mud, or debris to allow for efficient heat dissipation.

8. TROUBLESHOOTING

If you encounter issues with your Nilight LED Pods, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lights do not turn on	No power, blown fuse, loose connection, faulty switch	Check power supply, inspect fuse, tighten all connections, test switch functionality.
Lights are dim or flickering	Insufficient power, poor ground connection, voltage drop	Verify adequate voltage, ensure secure ground connection, check wiring for damage or corrosion.
Moisture inside the lens	Seal compromise, extreme temperature changes	Allow moisture to evaporate (may take time), inspect seals for damage. If persistent, contact support.
Excessive heat from lights	Blocked heat sinks, improper ventilation	Clear any obstructions from heat sinks, ensure proper airflow around the lights.

If the problem persists after attempting these solutions, please contact Nilight customer support.

9. WARRANTY & SUPPORT

Nilight stands behind the quality of its products. For information regarding warranty coverage, returns, or technical assistance, please visit the official Nilight website or contact their customer support team directly.

- **Nilight Brand Store:** For product information and support, visit the [Nilight Store on Amazon](#).
- **General Inquiries:** Refer to the contact section on the official Nilight website for the most up-to-date support options.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question