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› Nilight 15026C-A 52-Inch 300W LED Light Bar Instruction Manual

Nilight 15026C-A

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Model: 15026C-A

INTRODUCTION

The Nilight 15026C-A 52-inch 300W LED Light Bar is engineered to deliver powerful and versatile illumination for a wide range of applications, including off-road vehicles, trucks, and boats. This light bar integrates both spot and flood beam patterns, providing a balanced combination of focused long-distance light and broad-area coverage. Constructed with robust materials and an IP67 waterproof rating, it is designed for durability and performance in challenging environmental conditions.

PACKAGE CONTENTS

Please verify that all components are present before beginning installation:

- 1 x Nilight 15026C-A 52-Inch LED Light Bar
- 1 x Mounting Bracket Set (includes brackets, screws, washers, and Allen wrench)



Image: Detailed diagram illustrating the dimensions of the 52-inch LED light bar and its accompanying mounting hardware, including brackets, bolts, and an Allen key.

PRODUCT SPECIFICATIONS

Feature	Specification
Model Number	15026C-A
Dimensions	52 inches (length)
Wattage	300 Watts
Light Output	Up to 30,000 Lumens
Beam Pattern	Spot and Flood Combo
Voltage	12 Volts
Material	Aluminum Housing, PC Lens

Waterproof Rating	IP67
Mounting Type	Side Bracket Mount
Item Weight	4 Pounds

HIGH-PERFORMANCE

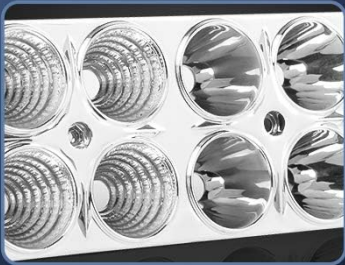




50 high-power highlight chips



Customized high Lumens Chips



UPGRADING REFLECTOR CUP allows multi-angle refraction.

Image: A detailed view of the light bar's internal components, highlighting the high-power LED chips and advanced reflector design for enhanced light distribution.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your LED light bar. If you are unsure about any steps, it is recommended to seek professional assistance.

Safety Precautions:

- Always disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate safety gear, including eye protection.
- Ensure the mounting location is secure and can support the weight of the light bar.

Installation Steps:

1. **Choose Mounting Location:** Select a suitable location on your vehicle (e.g., roof rack, bumper) that provides clear visibility and does not obstruct other vehicle functions.
2. **Attach Brackets to Light Bar:** Secure the provided side mounting brackets to the ends of the LED light bar using the smaller screws and washers. Do not fully tighten yet.
3. **Mount Light Bar to Vehicle:** Position the light bar with attached brackets onto your chosen mounting surface. Use the larger bolts, washers, and nuts to firmly secure the brackets to the vehicle.
4. **Adjust Beam Angle:** Once mounted, adjust the angle of the light bar to achieve the desired beam direction. The side brackets allow for 180-degree adjustment. Tighten all bolts securely.
5. **Wiring:** Connect the light bar to a 12V DC power source. A dedicated wiring harness (not included with this specific product variant, but highly recommended) with a relay and switch is advised for safe and efficient operation. Ensure all connections are waterproof and properly insulated.
6. **Test Functionality:** Reconnect the vehicle's battery and test the light bar to ensure it functions correctly.



Image: Visual guide demonstrating the adjustable nature of the mounting brackets and a simplified four-step installation sequence for the light bar.

Installation Video Guide:

Your browser does not support the video tag.

Video: An official Nilight video providing a general overview of LED light bar installation and features. This video is intended as a supplementary guide.

OPERATING INSTRUCTIONS

Once the Nilight 15026C-A LED Light Bar is correctly installed and wired, operation is straightforward:

- **Power On/Off:** Use the switch connected to your wiring harness to turn the light bar on or off.
- **Beam Pattern:** This light bar features a combination of spot and flood beams. The spot beams provide concentrated light for long-distance visibility, while the flood beams offer wider illumination for peripheral areas, enhancing overall visibility in dark conditions.

Your browser does not support the video tag.

Video: An official Nilight video demonstrating the improved visibility provided by Nilight brand lamps on country trails at night.

Your browser does not support the video tag.

Video: An official Nilight video showcasing the effectiveness of light bars for driving on village roads at night.

MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your LED light bar.

- **Cleaning:** Periodically clean the lens of the light bar with a soft cloth and a mild soap solution. Avoid using abrasive cleaners or harsh chemicals that could damage the lens or housing. Rinse thoroughly with clean water.
- **Connection Inspection:** Regularly check all electrical connections and mounting hardware for tightness and signs of corrosion. Loose connections can lead to flickering or intermittent operation.
- **Water Resistance:** The light bar has an IP67 waterproof rating, meaning it is protected against dust ingress and temporary immersion in water up to 1 meter for 30 minutes. While durable, avoid directing high-pressure water jets directly at the seals for extended periods.
- **Heat Dissipation:** The aluminum alloy housing is designed for efficient heat dissipation. Ensure that the cooling fins are not obstructed by dirt or debris to maintain optimal operating temperature.



Image: An illustration highlighting the robust construction and high-performance aspects of the 52-inch 300W LED light bar.



IP67 1 Waterproof silica gel strip 2 Potting Glue Sealed Wire 3 Rubber Pad

Nilight



Potting Glue Sealed Wire, Fully sealed for increased water resistance.

vs

Other



NO waterproof ability, metalwork vulnerable to rust and corrosion

Image: A comparison demonstrating Nilight's superior IP67 waterproofing, featuring potting glue sealed wires and rubber pads, contrasted with a non-waterproof alternative.



Image: A diagram explaining how the all-aluminum alloy housing and streamline design facilitate efficient heat dissipation, reducing wind resistance and ensuring cooler operation.

TROUBLESHOOTING

If you encounter issues with your Nilight LED Light Bar, refer to the following common problems and solutions:

- **Light Bar Does Not Turn On:**

- Check all power connections to ensure they are secure and properly connected.
- Verify that the fuse in your wiring harness (if used) is not blown. Replace if necessary.
- Confirm the switch is functioning correctly.
- Ensure the vehicle's battery has sufficient charge and is providing adequate voltage.

- **Dim or Flickering Light:**

- Inspect wiring for any loose connections, frayed wires, or corrosion.
- Check for proper voltage supply to the light bar. Low voltage can cause dimming.

- **Moisture Inside the Lens:**

- While the light bar is IP67 rated, extreme temperature fluctuations can sometimes cause minor condensation. This usually dissipates on its own.
- If persistent or excessive moisture is present, inspect the seals around the lens for any damage or improper seating. Contact customer support if the issue persists after inspection.

- **Excessive Wind Noise:**

- Some installations, particularly on roof racks, may experience wind noise at higher speeds. This is often due to airflow over the light bar's fins. Solutions may include adding rubber trim or a wind deflector (not included).



Image: An illustration comparing the expected lifespan and consistent brightness of Nilight LEDs over 50,000 hours against a generic LED that shows degradation over time.

WARRANTY AND SUPPORT

Your Nilight 15026C-A 52-Inch 300W LED Light Bar is covered by a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

What the Warranty Does Not Cover:

- Damage caused by improper installation, accident, abuse, misuse, natural disaster, or unauthorized modification.
- Normal wear and tear.

For Warranty Claims or Technical Assistance:

Please contact Nilight customer support directly through their official website (www.nilight.com) or the retailer from whom you purchased the product. Be prepared to provide your proof of purchase and the product model number (15026C-A).