

Aurora ALO-S1-50-P7E7J

Aurora 50 Inch Off Road LED Light Bar User Manual

Model: ALO-S1-50-P7E7J

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Aurora 50 Inch Off Road LED Light Bar, Model ALO-S1-50-P7E7J. Please read this manual thoroughly before installation and use to ensure proper function and safety.

PRODUCT OVERVIEW

The Aurora 50 Inch Off Road LED Light Bar is designed for demanding off-road conditions, providing powerful illumination with a combination beam pattern. It features a robust construction and includes a comprehensive wiring harness for installation.

Key Features:

- **High Output:** Produces 21,500 lumens with 250 watts of power.
- **Durable Construction:** IP69 rated housing made from high-quality 6063 aluminum, paired with a UV and scratch-resistant GE Lexan lens.
- **Secure Sealing:** Sealed with 316 stainless steel screws for an impenetrable seal, suitable for extreme off-road environments.
- **Complete Wiring Harness:** Includes an on/off switch with LED indicator light, in-line fuse, and a 12V 40A relay for professional installation.
- **Advanced LED Technology:** Utilizes 5 Watt Cree LED Chips for efficient and powerful lighting.



Figure 1: Aurora 50 Inch Off Road LED Light Bar. This image displays the full length of the LED light bar, showcasing its sleek black housing and the array of individual LED lights.



Figure 2: Aurora 50 Inch LED Light Bar from various angles. This image provides detailed views of the light bar's front, top, and bottom, highlighting its construction and design.

SPECIFICATIONS

✓ **Size:** 50 Inch

✓ **Beam Type:** Combination Beam

✓ **Dimensions:** 51.9" x 3.2" x 1.8"

✓ **Number of LED's:** 50

✓ **LED Type:** Cree XTE 5 Watt

✓ **LED Rows:** 1


✓ **Wattage:** 250 Watts

✓ **Amp Draw:** 12.4 Amps

✓ **Lumens:** 21,500

✓ **IP Rating:** IP69

✓ **Overall Height When Mounted:** 2.5"

A long, slender, black LED light bar with a series of small, square LED chips visible along its length. It is shown at an angle, highlighting its slim profile.

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Figure 3: Key specifications of the Aurora LED Light Bar. This image provides a visual summary of the product's technical details, including size, beam type, dimensions, number of LEDs, wattage, amperage, lumens, and IP rating.

Technical Specifications - Model ALO-S1-50-P7E7J

Feature	Detail
Model Number	ALO-S1-50-P7E7J
Size	50 inches
Dimensions (L x W x H)	51.9 x 3.2 x 1.8 inches
Weight	14.3 pounds
Beam Type	Combination
Number of LEDs	50
LED Type	Cree XTE 5 Watt
Wattage	250 Watts
Operating Voltage	10-30V DC
Amp Draw	12.4 Amps
Lumens	21,500 lm
IP Rating	IP69 (Waterproof & Shock Resistant)
Life Span	50,000 hours
Operating Temperature	-40 to 145 degrees Fahrenheit
Housing Material	6063 Aluminum
Lens Material	GE Lexan (UV & Scratch Resistant)

Feature	Detail
Hardware Material	316 Stainless Steel
Safety Rating	SAE Certified
Special Features	Deutsch connector, Integrated Temperature protection



Figure 4: Dimensional chart for Aurora S1 Series light bars. This image illustrates the length and width measurements for various models within the S1 series, including the 50-inch version, which helps in planning mounting locations.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your LED light bar. It is recommended that installation be performed by a qualified professional. Always disconnect the vehicle's battery before beginning any electrical work.

Components Included:

- Aurora 50 Inch LED Light Bar
- Mounting Brackets (pre-attached or separate)
- Deluxe Wiring Harness (with on/off switch, LED indicator, in-line fuse, 12V 40A relay)
- Necessary Hardware (bolts, nuts, washers, Allen wrench)



Figure 5: Example of a mounting bracket and an Allen wrench. This image shows the type of bracket used for securing the light bar and the tool required for adjustment or installation.

Installation Steps:

1. **Choose Mounting Location:** Select a secure and appropriate location on your vehicle for the light bar. Ensure it does not obstruct vision or airflow.
2. **Attach Mounting Brackets:** Securely fasten the provided mounting brackets to the light bar. Use the included hardware and Allen wrench for adjustment.
3. **Mount Light Bar:** Position the light bar with attached brackets onto the chosen location on your vehicle. Mark and drill any necessary holes. Secure the light bar firmly using appropriate fasteners.
4. **Route Wiring Harness:** Carefully route the deluxe wiring harness from the light bar to the vehicle's battery and the desired switch location. Ensure the wiring is protected from sharp edges, heat, and moving parts.
5. **Connect Electrical Components:**
 - Connect the Deutsch connector from the light bar to the wiring harness.
 - Connect the positive (+) wire of the harness to the positive terminal of the vehicle's 12V battery.
 - Connect the negative (-) wire of the harness to the negative terminal of the vehicle's 12V battery or a suitable ground point on the chassis.
 - Install the in-line fuse as close to the battery as possible.
 - Mount the on/off switch in an accessible location within the vehicle's cabin.
 - Ensure all connections are secure and properly insulated.
6. **Test Functionality:** Reconnect the vehicle's battery. Activate the on/off switch to verify the light bar operates correctly.
7. **Adjust Beam:** If necessary, adjust the angle of the light bar to achieve the desired beam pattern.

Important Safety Note: Always ensure that the light bar is securely mounted and all electrical connections are properly made to prevent hazards.

OPERATING INSTRUCTIONS

The Aurora LED Light Bar is designed for straightforward operation.

1. **Power On:** Locate the installed on/off switch. Press the switch to the "ON" position. The LED indicator on the switch will illuminate, and the light bar will turn on.
2. **Power Off:** Press the switch to the "OFF" position. The LED indicator will turn off, and the light bar will cease operation.

Note: This light bar is intended for off-road use only. Check local regulations regarding the use of auxiliary lighting on public roads.

MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your Aurora LED Light Bar.

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens or finish.
- **Inspection:** Regularly inspect the mounting hardware for tightness and the wiring harness for any signs of wear, fraying, or damage. Tighten any loose bolts and repair or replace damaged wiring as needed.
- **Connector Check:** Ensure the Deutsch connector remains clean and free of debris to maintain a secure electrical connection.

TROUBLESHOOTING



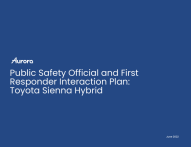


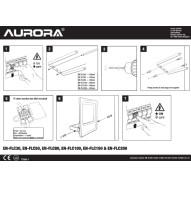
If you encounter issues with your Aurora LED Light Bar, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light bar does not turn on.	<ul style="list-style-type: none">◦ No power to the light bar.◦ Blown fuse in the wiring harness.◦ Faulty switch or wiring connection.◦ Loose ground connection.	<ul style="list-style-type: none">◦ Check battery connections and ensure they are secure.◦ Inspect and replace the in-line fuse if blown.◦ Verify all wiring connections, including the switch and Deutsch connector.◦ Ensure the ground connection is clean and secure.
Light bar is dim or flickers.	<ul style="list-style-type: none">◦ Insufficient power supply.◦ Loose or corroded electrical connections.◦ Voltage drop in wiring.	<ul style="list-style-type: none">◦ Ensure the vehicle's electrical system is providing adequate voltage (10-30V DC).◦ Clean and tighten all electrical connections.◦ Inspect wiring for damage or inadequate gauge.
Moisture inside the lens.	<ul style="list-style-type: none">◦ Compromised seal.◦ Damage to the housing or lens.	<ul style="list-style-type: none">◦ Contact customer support for assistance. Do not attempt to open the sealed unit.

WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the original purchase documentation or contact the seller directly. Keep your proof of purchase for any warranty claims.
The product is manufactured by Aurora LED Lighting.



	<p>50" Slim LED Light Bar 2.0 User Manual Aurora</p> <p>Comprehensive user manual for the Aurora 50" Slim LED Light Bar 2.0. Includes installation guides, wiring diagrams, safety warnings, kit contents, and technical specifications for vehicle lighting.</p>
	<p>Aurora AU120MB Paper Shredder User Manual - Operation, Maintenance, and Troubleshooting</p> <p>Comprehensive user manual for the Aurora AU120MB paper shredder, covering installation, operation, maintenance, troubleshooting, and warranty information. Learn how to safely and effectively use your Aurora shredder.</p>
	<p>Aurora Public Safety Official and First Responder Interaction Plan: Toyota Sienna Hybrid</p> <p>This guide provides essential information for public safety officials and first responders on interacting with Aurora's self-driving Toyota Sienna Hybrid vehicles, covering identification, operational procedures, emergency response, and towing.</p>
	<p>Aurora AU-R6CWSBF LED Downlight: Installation Guide and Specifications</p> <p>This document provides installation instructions for the Aurora AU-R6CWSBF LED downlight. It details safety precautions, wiring, wattage and colour temperature selection, and environmental disposal information. Ensure proper installation by a qualified electrician for optimal performance and safety.</p>
	<p>Aurora AU870MA Shredder Troubleshooting Guide: Paper Jams and Overheating</p> <p>Troubleshooting guide for the Aurora AU870MA 8-Sheet Micro-Cut Paper Shredder, covering solutions for paper jams, miss-feeding, fast-feeding, over-filled baskets, and overheating issues.</p>
	<p>Aurora EN-FLC Series High Power LED Floodlights Installation Guide & Warranty</p> <p>Installation guide and warranty information for Aurora EN-FLC Series High Power LED Floodlights (models EN-FLC30, EN-FLC50, EN-FLC80, EN-FLC100, EN-FLC150, EN-FLC200). Details include electrical specs, safety, mounting, wiring, IP65 rating, Class I, and a 5-year guarantee. Covers environmental WEEE compliance.</p>