

ASPL 46 inch 220 LED Rooftop Strobe Light Bar

ASPL 46-inch 220 LED Rooftop Strobe Light Bar Instruction Manual

Model: 46 inch 220 LED Rooftop Strobe Light Bar

1. PRODUCT OVERVIEW

The ASPL 46-inch 220 LED Rooftop Strobe Light Bar is designed for enhanced visibility and safety on various vehicles. Featuring 22 LED modules with a total of 220 high-power LEDs, it provides 360-degree lighting coverage. The light bar is suitable for emergency vehicles, utility workers, construction vehicles, and more. Its robust construction ensures reliable performance in diverse weather conditions.



Image 1: ASPL 46-inch 220 LED Rooftop Strobe Light Bar, Amber/White/Amber color variant.

2. SAFETY INFORMATION

- Always ensure the vehicle's power is disconnected before installation to prevent electrical shock.
- Mount the light bar securely to prevent detachment during vehicle operation.
- Verify local regulations regarding the use of emergency and warning lights before operating the product on public roads.
- Do not stare directly into the LED lights when illuminated, as this may cause eye strain or temporary vision impairment.
- Ensure all wiring connections are properly insulated and protected from environmental elements.

3. PRODUCT FEATURES

- **High Visibility:** Equipped with 220 high-power LEDs and TIR optic lenses, providing 360-degree lighting visible over 2000 feet, even in daylight.
- **Multiple Flashing Modes:** Features 20 distinct flashing patterns, including directional modes, selectable via a 5-button controller. Includes a last pattern recall function.

- **Durable Construction:** Built with high-quality materials, a rugged frame, and a sealed weatherproof design (IP68 rated) for over 50,000 hours of lifespan. Resistant to rain, fog, dust, and snow.
- **Universal Compatibility:** Designed for 12-24V vehicle systems with universal adjustable clamps for easy installation on most trucks and cars.



Image 2: Illustrates the 360-degree visible light and 2000ft illumination distance of the light bar.

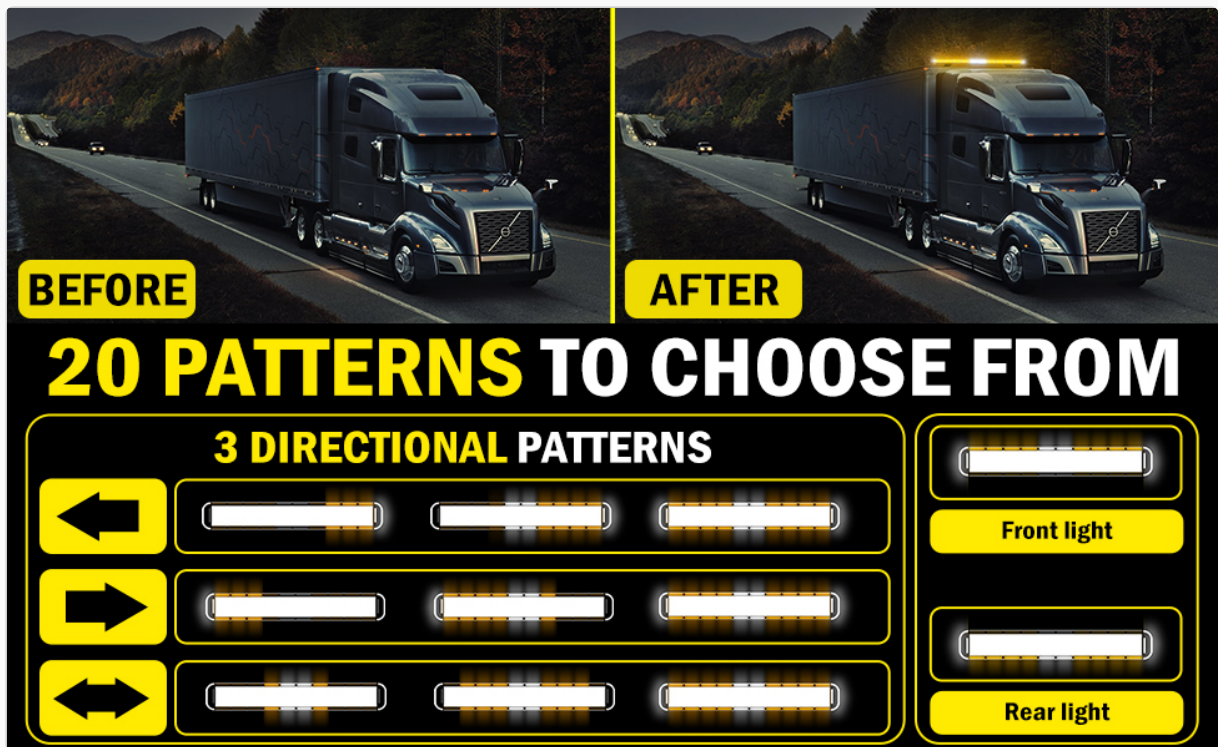


Image 3: Demonstrates the IP68 waterproof rating, showing the light bar operating under water spray.

4. INSTALLATION

Before installation, measure your vehicle's roof width to ensure it is greater than the light bar's 47-inch

length. The light bar is compatible with 12-24V systems.

4.1 Mounting the Light Bar

1. Position the light bar on the vehicle's roof.
2. Use the universal adjustable clamps to secure the light bar. Ensure the clamps are tightened firmly to prevent movement. Consider using rubber padding between the clamps and the vehicle surface to prevent damage.
3. For a more permanent installation, the light bar can be bolted directly through the roof (professional installation recommended for drilling).

4.2 Wiring Connections

The light bar includes a 15.4 ft heavy-duty cable and a 15.6 ft controller cable. It requires direct wiring to the vehicle's power system, as a cigarette lighter plug cannot support the high power output (over 100W).

- **Red Wire:** Connect to the vehicle's positive power terminal.
- **Black Wire:** Connect to the vehicle's negative power terminal (ground).

Route the cables safely, avoiding hot or moving parts, and ensure they are protected from abrasion and moisture. Professional wiring is recommended.



Image 4: Displays the product dimensions (47 inches length) and a basic wiring diagram for positive and negative connections.

HIGH BRIGHTNESS & HIGH-QUALITY

ASPL: Aspl strobe light bar uses high- intensity LED and crystal-cut clear TIR optic lenses to make the light still brihgt for several year.

OTHER: Other strobe light bar uses ordinary chips lens less,short span life. the brightness of the light will reduce after several time of use.



Image 5: Details the 8.3-inch ultra-wide design, non-slip bottom for vehicle protection, and bracket mounting components.

5. OPERATION

The light bar is controlled by a 5-button controller, allowing for easy selection of flashing modes and directional patterns.

5.1 Controller Functions

- **Power ON/OFF:** Use the main power switch on the controller to turn the light bar on or off.
- **Mode Selection:** Press the 'M' button once to cycle through the 20 available flashing patterns. The light bar will recall the last selected pattern upon restart.
- **Directional Patterns:** Use the directional arrow buttons (left, right, center-to-side) to activate specific warning patterns.
- **Front/Rear Light Control:** Separate buttons are provided to turn the front and rear sections of the light bar on or off independently.

Product Size:

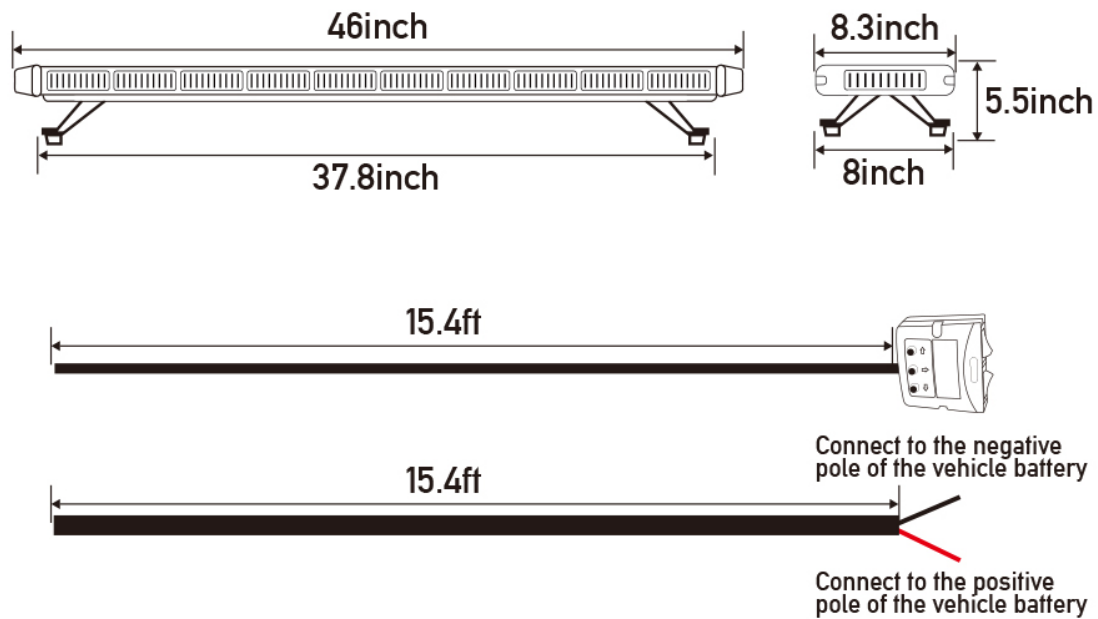


Image 6: Illustrates the 20 flashing patterns and the functions of the 5-button controller, including directional modes and front/rear light control.

5.2 Operational Videos

Video 1: ASPL 46 inch 220 LED Low Profile Emergency Strobe Light Bar Features

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This video demonstrates the various features and flashing patterns of the ASPL 46-inch 220 LED Rooftop Strobe Light Bar, including its construction and operational modes.

Video 2: ASPL 46 inch 220 LED Rooftop Low Profile Strobe Light Bar in Action

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This video showcases the ASPL 46-inch 220 LED Rooftop Strobe Light Bar's performance and different light patterns in a dynamic setting.

6. MAINTENANCE

- Regularly inspect the light bar for any physical damage, loose connections, or wear on the mounting hardware.
- Clean the lens and housing periodically with a soft cloth and mild soap solution to maintain optimal light output. Avoid abrasive cleaners.
- Ensure all seals remain intact to maintain the IP68 waterproof rating.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light bar does not illuminate	No power, loose connection, blown fuse, faulty wiring.	Check power supply, inspect all wiring connections, verify fuse in vehicle's electrical system, consult a professional for wiring issues.
Some LEDs are not working	Individual LED module failure, internal wiring issue.	Contact customer support for assistance or replacement.
Controller not responding	Controller cable issue, internal controller fault.	Ensure controller cable is securely connected. If issues persist, contact customer support.
Interference with radio/VHF	Electromagnetic interference (EMI) from the light bar.	Ensure proper grounding of the light bar. Consider adding ferrite beads to power cables. If severe, professional consultation may be needed.

8. SPECIFICATIONS

- **Brand:** ASPL
- **Model:** 46 inch 220 LED Rooftop Strobe Light Bar
- **Light Source Type:** LED
- **Number of LEDs:** 220 (across 22 modules)
- **Color:** Amber/White/Amber (for this specific variant)
- **Length:** 47 inches (approx. 119.4 cm)
- **Voltage Compatibility:** 12-24V DC
- **Special Feature:** 20 Flashing Modes, Last Pattern Recall
- **Waterproof Rating:** IP68
- **Lifespan:** Over 50,000 hours
- **Lens Material:** Polycarbonate
- **Cable Length:** 15.4 ft (power cable), 15.6 ft (controller cable)
- **Mounting:** Universal adjustable clamps

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the product packaging or contact ASPL customer service directly. Keep your purchase receipt for warranty claims.