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Baja Designs LP6 Pro (270003)



Baja Designs LP6 Pro 6-Inch LED Driving/Combo Light

Model: LP6 Pro (270003)

1. INTRODUCTION

The Baja Designs LP6 Pro is a high-performance 6-inch LED light designed for demanding off-road applications. It delivers exceptional illumination with a wide spread of light, making it suitable for various driving conditions. This manual provides essential information for the proper installation, operation, and maintenance of your LP6 Pro light.



Image: Front view of the Baja Designs LP6 Pro LED light, showcasing its six main LEDs and the central amber LED.

2. PRODUCT FEATURES

- **High Lumens Output:** Features 8,600 forward projecting lumens from 6 LEDs and 1,700 lumens of dedicated peripheral lighting from 4 LEDs, totaling 10,300 lumens.
- **Integrated Peripheral Technology (IPT):** Provides a 200-degree spread of usable LED light for enhanced visibility.
- **Direct Ducted Cooling (DDC):** Proprietary technology allowing air to travel through the housing and over heat sinks for improved cooling and performance.
- **Versatile Lighting Modes:** Includes an amber day-time running light, low power, and high power modes.
- **Durable Construction:** Hard-coated polycarbonate front lens, hard-anodized machined aluminum housing, billet

machined aluminum bezel, and stainless steel hardware/bracket material.

- **Extreme Weather Resistance:** IP69K rated (waterproof up to 9ft and pressure washable) and IK10 compliant (mechanical impact testing).
- **Built-In Overvoltage Protection:** Ensures longevity and safe operation.
- **5000K Daylight Color:** Reduces driver fatigue and provides natural color illumination.
- **Copper Drive:** Ensures LEDs are driven at 100% efficiency.
- **Replaceable Lenses and Optics:** Allows for customization and easy maintenance.

3. SPECIFICATIONS

Forward Projecting Lumens	8,600 (6 LEDs)
Forward Projecting Wattage/Amps	90W / 6.5A
IPT Lumens	1,700 (4 LEDs)
IPT Wattage/Amps	15W / 1.0A
Dimensions (H x W x D)	7.5 inch x 6.5 inch x 3.2 inch
Weight	4.2 lbs
LED Life Expectancy	49,930 Hours
Front Lens Material	Hard Coated Polycarbonate
Housing Material	Hard Anodized Machined Aluminum
Bezel Material	Billet Machined Aluminum
Hardware/Bracket Material	Stainless Steel
Environmental Rating	IP69K (Waterproof up to 9ft and Pressure Washable)
Impact Rating	IK10 Compliant
Color Temperature	5000K Daylight

4. WHAT'S IN THE BOX

Your Baja Designs LP6 Pro package includes the following components:

- LP6 Pro LED Light Unit
- Mounting Hardware
- Mounting Bracket

Note: Wiring harness may be sold separately. Please verify your purchase contents.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your LP6 Pro light. While the lights themselves are designed for straightforward installation, mounting solutions may vary depending on your vehicle.

5.1 Mounting

Utilize the provided mounting bracket and hardware to secure the LP6 Pro light to your desired location on the vehicle. Ensure the mounting surface is stable and can support the weight of the light. For custom installations, ensure the mounting bar or surface is robust enough to prevent vibration and maintain light alignment.



Images: Examples of Baja Designs LP6 Pro lights installed on off-road vehicles, demonstrating their application.

5.2 Wiring

Connect the LP6 Pro light to your vehicle's electrical system. It is recommended to use a dedicated wiring harness (often sold separately) to ensure proper power delivery and protection. If creating a custom wiring solution, ensure appropriate gauge wires, fuses, and relays are used. The LP6 Pro supports an amber day-time running light, low power, and high power modes, which will require specific wiring connections as per the wiring diagram provided with your harness or by Baja Designs.

Ensure all connections are secure and protected from environmental elements to prevent short circuits or corrosion. Refer to your vehicle's manual for specific electrical system details.

6. OPERATING INSTRUCTIONS

The LP6 Pro offers versatile lighting patterns and modes for different driving scenarios.

6.1 Lighting Modes

- **Amber Day-Time Running Light (DRL):** Provides a distinctive amber glow for daytime visibility.
- **Low Power Mode:** Suitable for general use or when less intense illumination is required.
- **High Power Mode:** Activates full lumen output for maximum trail coverage and distance.

6.2 Beam Patterns

The LP6 Pro is available with specific beam patterns to optimize light distribution:

- **Driving/Combo:** Offers maximum trail coverage by combining Wide Driving (42-degree) and Spot (6-degree) optics. This provides a smooth blend of light for both near-field applications and distance (Lighting Zone 3).
- **High Speed Spot:** A longer and narrower 6-degree beam focus for illumination further down the trail or road (Lighting Zones 4 and 5). This pattern is designed to be used in conjunction with additional Wide Driving and/or Driving/Combo beam lights.

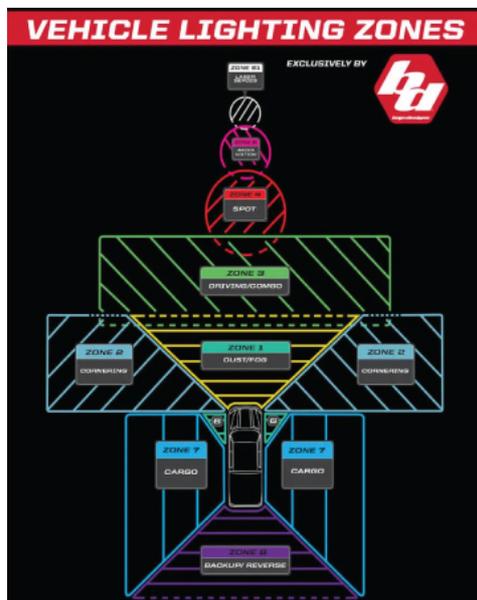


Image: Diagram illustrating Baja Designs' vehicle lighting zones, showing optimal placement and use of different beam patterns.

7. MAINTENANCE

To ensure the longevity and optimal performance of your LP6 Pro lights, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the lens and housing with mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the polycarbonate lens or anodized finish.
- **Inspection:** Periodically inspect the mounting hardware and wiring connections for any signs of looseness, corrosion, or damage. Tighten any loose fasteners and repair or replace damaged wiring as needed.
- **Lens and Optics:** The LP6 Pro features replaceable lenses and optics. If a lens becomes scratched or damaged, contact Baja Designs for replacement parts to maintain light output and beam integrity.
- **Cooling Fins:** Ensure the cooling fins on the back of the light housing are free from mud, dirt, or debris to allow for efficient heat dissipation.

8. TROUBLESHOOTING

If you encounter issues with your LP6 Pro light, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Light does not turn on	No power, loose connection, blown fuse, faulty switch.	Check power source, inspect all wiring connections, check and replace fuse if necessary, test the switch.
Light flickers or dims	Loose connection, insufficient voltage, faulty wiring.	Secure all connections, verify vehicle's electrical system voltage, inspect wiring for damage.
Reduced light output	Dirty lens, damaged optics, internal component issue.	Clean the lens thoroughly. If issue persists, contact Baja Designs support for further diagnosis or replacement parts.

Excessive heat from housing	Blocked cooling fins, prolonged use in extreme temperatures.	Ensure cooling fins are clear of obstructions. While the DDC system is efficient, prolonged use in very high ambient temperatures can cause the light to run hot, which is normal. If overheating leads to dimming, allow the light to cool.
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If troubleshooting steps do not resolve the issue, please contact Baja Designs customer support for assistance.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Baja Designs offers a **Limited Lifetime Warranty** on the LP6 Pro light, providing complete purchase protection. This warranty covers defects in materials and workmanship for the lifetime of the product. For specific terms and conditions, please refer to the official Baja Designs warranty policy on their website or contact their customer service.

9.2 Customer Support

For technical assistance, warranty claims, or general inquiries regarding your Baja Designs LP6 Pro light, please contact Baja Designs directly through their official website or customer service channels. Ensure you have your product model number (270003) and purchase details available when contacting support.

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For more information, visit www.bajadesigns.com

Related Documents - LP6 Pro (270003)

	<p>A10 Moto 127085 LP6 Mount W/Fairing Installation Instructions Universal Tree Mount for Harley</p> <p>Comprehensive installation guide for the A10 Moto 127085 LP6 Mount W/Fairing. This 3.5" Universal Tree Mount is designed for Harley Dyna and Softail models, including Low Rider S, and is compatible with fairings like the Memphis Shades Road Warrior. Follow step-by-step instructions and part lists for a successful installation.</p>
	<p>Bestop Gladiator Rear Bumper Installation Instructions</p> <p>Detailed installation guide for the Bestop Gladiator Rear Bumper, including parts list, tools required, step-by-step instructions, and warranty information for Jeep Gladiator 2020-current.</p>
	<p>2022 Toyota Tundra TRD Pro Grille Conversion Kit Installation Guide</p> <p>Detailed installation instructions for the Baja Designs 2022 Toyota Tundra TRD Pro Grille Conversion Kit (models 44-8078, 44-8079). Includes tools required, step-by-step guidance, warranty information, and product specifications.</p>



[Cali Raised Moto Road Glide Twin LP6 Bracket Installation Instructions](#)

Step-by-step installation guide for the Cali Raised Moto Road Glide Twin LP6 Bracket (Part #127051), including required tools and kit contents.



[Can-Am Maverick R Mini6 SourceLT Center Console Kit Installation Guide \(87-0139\)](#)

Detailed installation guide for the sPOD Mini6 SourceLT Center Console Kit (87-0139) for the Can-Am Maverick R (2024-On). Includes parts list, tools required, step-by-step instructions, warranty, and return policy.



[Losi Super Baja Rey 2.0: Instruction Manual](#)

Comprehensive guide for the Losi Super Baja Rey 2.0 RC vehicle, covering setup, operation, maintenance, troubleshooting, and safety. Features Spektrum Smart technology.