

## Pilot PLV-1004

# Pilot Automotive PLV-1004 Dual Row Light Bar User Manual

Model: PLV-1004

## INTRODUCTION

---

Thank you for choosing the Pilot Automotive PLV-1004 Dual Row Light Bar. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new light bar. Please read this manual thoroughly before installation and keep it for future reference.

## PRODUCT OVERVIEW

---

The Pilot Automotive PLV-1004 Dual Row Light Bar is designed to provide powerful illumination for various automotive applications. It features a robust aluminum housing and is engineered for durability and performance in challenging environments. This light bar is part of Pilot Automotive's extensive range of LED lighting solutions, known for their quality and innovation.



Figure 1: Front view of the Pilot Automotive PLV-1004 Dual Row Light Bar, showcasing its dual row LED design.

## WHAT'S IN THE BOX

---

Upon opening the package, please verify that all components are present and undamaged:

- Dual Row Light Bar
- Mounting Brackets
- Hardware (bolts, nuts, washers)
- Wiring Diagram (typically included with harness kits, but general wiring guidance is provided in this manual)

## FEATURES

---

The Pilot Automotive PLV-1004 Dual Row Light Bar offers the following key features:

- 72W Power Output
- 4,680 Lumens Brightness
- IP68 Waterproof Rating for superior protection against dust and water ingress
- 6000K Color Temperature, providing a bright white light
- Durable Aluminum Housing for enhanced heat dissipation and longevity



Figure 2: Close-up view of the light bar's aluminum housing and heat sink fins, designed for efficient heat dissipation.

## SPECIFICATIONS

Detailed technical specifications for the PLV-1004 Dual Row Light Bar:

Specification	Value
Brand	Pilot
Model	PLV-1004 (Dual Row Light Bar)
Power Output	72W
Luminous Flux	4,680 Lumens
Waterproof Rating	IP68
Color Temperature	6000K

Specification	Value
Housing Material	Aluminum
Item Dimensions (L x W x H)	5 x 17 x 5 inches
Item Weight	3.34 pounds
Form Factor	Bar
Auto Part Position	Front
Number of Pieces	1

## SETUP AND INSTALLATION

---

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

### Safety Precautions

- Disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the mounting location is secure and can support the weight of the light bar.
- Avoid installing the light bar in a position that obstructs the driver's view or vehicle's safety features.

### Mounting the Light Bar

1. Identify a suitable mounting location on your vehicle (e.g., bumper, roof rack, grille guard).
2. Attach the provided mounting brackets to the light bar using the supplied hardware. Do not fully tighten yet.
3. Position the light bar with brackets in the desired location and mark the drilling points.
4. Drill pilot holes at the marked locations. Ensure no vital vehicle components are behind the drilling area.
5. Securely fasten the light bar and brackets to the vehicle using appropriate hardware. Tighten all bolts evenly.



Figure 3: Side view of the light bar, illustrating the adjustable mounting brackets.

### Wiring Instructions

The light bar requires a 12V DC power source. It is highly recommended to use a dedicated wiring harness with a relay and fuse (sold separately) to protect your vehicle's electrical system.

- Connect the positive (+) wire from the light bar to the relay's output.

- Connect the negative (-) wire from the light bar to a suitable ground point on the vehicle chassis.
- Wire the relay to a fused 12V power source (e.g., directly to the battery with an inline fuse) and to a switch for activation.
- Ensure all connections are secure and insulated to prevent short circuits.
- Route wiring away from hot or moving parts and sharp edges.

## OPERATING INSTRUCTIONS

---

Once properly installed and wired, operating the light bar is straightforward.

1. Ensure all wiring connections are secure and the vehicle's battery is reconnected.
2. Activate the light bar using the installed switch.
3. To turn off the light bar, simply toggle the switch to the off position.

**Important:** Always be aware of local laws and regulations regarding auxiliary lighting. Some jurisdictions may restrict the use of off-road lights on public roads.

## MAINTENANCE

---

The Pilot Automotive PLV-1004 Dual Row Light Bar is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the lens with a soft cloth and mild soap and water to remove dirt, mud, or debris that may obstruct light output. Avoid abrasive cleaners.
- **Inspections:** Regularly check all mounting hardware for tightness. Vibrations from vehicle operation can loosen bolts over time.
- **Wiring:** Inspect wiring for any signs of wear, fraying, or corrosion. Ensure all connections remain secure and waterproof.
- **Waterproofing:** While IP68 rated, avoid directing high-pressure water jets directly at the light bar's seals for extended periods.

## TROUBLESHOOTING

---

If you encounter issues with your light bar, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Light bar does not turn on.	No power, blown fuse, loose wiring, faulty switch.	Check power supply, inspect fuse in the wiring harness, verify all connections are secure, test the switch.
Light bar flickers or is dim.	Insufficient power, poor ground connection, voltage drop.	Ensure adequate gauge wiring is used, check ground connection for corrosion, verify battery voltage.
Moisture inside the lens.	Seal compromise, extreme temperature changes.	Allow light bar to dry out. If persistent, contact customer support. Small amounts of condensation can be normal with temperature fluctuations.

## SAFETY INFORMATION

---

This product is intended for off-road or auxiliary use only. Always adhere to local and national regulations regarding vehicle lighting.

- Do not look directly into the light bar when it is illuminated, as it can cause eye damage.
- Ensure proper ventilation around the light bar to prevent overheating, especially during prolonged use.
- Keep out of reach of children.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Pilot Automotive website or contact their customer service department directly. Keep your proof of purchase for any warranty claims.

### Pilot Automotive Contact Information:

Please visit [Pilot Automotive Store on Amazon](#) or their official website for the most current support details.



© 2024 Pilot Automotive. All rights reserved.  
Manual Version: 1.0

## Related Documents

	<p><a href="#">Pilot 12V, 400A Jump Starter/Charger User Manual</a></p> <p>Comprehensive user manual for the Pilot 12V, 400A InstaBoost Jump Starter/Charger, covering safety, operation, troubleshooting, and warranty information. Visit <a href="http://www.pilotautomotive.com">www.pilotautomotive.com</a> for more details.</p>
	<p><a href="#">Pilot V Board Master Marker - Chisel Tip</a></p> <p>Pilot V Board Master Marker featuring pure liquid ink, a chisel tip, and refillable design. Available in various colors.</p>
	<p><a href="#">Pilot Erasable Pens and Dry Erase Markers - Product Catalog</a></p> <p>Explore Pilot's range of erasable pens, including FriXion Waai, Synergy Clicker, Clicker, Colorsticks, Fineliner, and Colors marker pens. Also features Pilot's V Board Master dry erase markers and refills. Learn about product specifications, pricing, and a special Visa gift card promotion.</p>