

## Pilot PLV-1014

# Pilot Automotive PLV-1014 Dual LED Light Bar Instruction Manual

Model: PLV-1014

## INTRODUCTION

Welcome to the instruction manual for your Pilot Automotive PLV-1014 Dual LED 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 attempting any installation or operation to ensure proper function and longevity of the product. This product is designed for use on trucks and off-road vehicles.

## SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and vehicle.

- **Electrical Safety:** Disconnect the vehicle's battery before beginning any electrical work. Ensure all wiring connections are secure and properly insulated to prevent short circuits. Use appropriate fuses as recommended.
- **Installation Safety:** Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation. Ensure the mounting surface is strong enough to support the weight of the light bar and that the light bar is securely fastened to prevent detachment during vehicle operation.
- **Operation:** Do not look directly into the light bar when it is illuminated, as the intense light can cause eye strain or damage. Ensure the light bar is used in compliance with all local and national regulations regarding auxiliary lighting.
- **Maintenance:** Only perform maintenance when the light bar is cool and disconnected from power.

## PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 2 x Pilot Automotive PLV-1014 Dual LED Light Bars
- Mounting Brackets (specific to PLV-1014, quantity sufficient for two light bars)
- Mounting Hardware (bolts, nuts, washers)

- Basic Wiring Leads (may require additional wiring harness for full installation)



Image of the Pilot Automotive PLV-1014 Dual LED Light Bar, showing its rectangular form factor with two rows of LED lights and mounting brackets on each end. The light bar measures approximately 31.5 inches in length.

## INSTALLATION GUIDE

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This section outlines the steps for installing your PLV-1014 LED Light Bar. Professional installation is recommended if you are not familiar with vehicle electrical systems.

### Tools Required

- Wrench set or socket set
- Drill (if new mounting holes are required)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter (optional, for testing electrical connections)

### Mounting the Light Bar

1. **Identify Mounting Location:** Choose a suitable location on your truck or off-road vehicle that provides clear visibility and secure attachment. Common locations include the bumper, roof rack, or grille guard.
2. **Attach Brackets to Light Bar:** Securely fasten the provided mounting brackets to the ends of the light bar using the supplied hardware. Ensure the brackets are oriented correctly for your desired mounting position.
3. **Secure Light Bar to Vehicle:** Position the light bar with attached brackets on the chosen mounting surface. Mark the drilling points if new holes are needed. Drill pilot holes carefully, then secure the light bar assembly to the vehicle using the appropriate bolts, washers, and nuts. Ensure all fasteners are tightened to prevent vibration and movement.

### Wiring Instructions

1. **Disconnect Battery:** Before starting any wiring, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
2. **Connect Power:** Connect the positive (+) wire from the light bar to a fused 12V power source. It is highly recommended to use a relay and a dedicated wiring harness (sold separately) for optimal performance and safety, especially for high-power LED light bars.
3. **Connect Ground:** Connect the negative (-) wire from the light bar to a clean, unpainted metal surface on the vehicle chassis to establish a good ground connection.
4. **Install Switch (Optional but Recommended):** If using a switch, wire it into the positive line, typically between the relay and the light bar, or directly to the light bar if it's a low-power application and the switch is rated for the current.
5. **Test Connections:** Once all connections are made and insulated, reconnect the vehicle's battery. Test the light bar to ensure it functions correctly. If it does not illuminate, recheck all connections and fuses.

## OPERATION

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Once properly installed and wired, the Pilot Automotive PLV-1014 LED Light Bar operates by activating the connected switch. Ensure your vehicle's ignition is on if the light bar is wired to an ignition-switched circuit. Turn the switch to the "ON" position to illuminate the light bar and to the "OFF" position to turn it off.

## MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your LED light bar.

- **Cleaning:** Periodically clean the lens of the light bar with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens or housing. Rinse thoroughly with clean water.
- **Inspection:** Regularly inspect the mounting hardware for tightness. Vibrations from vehicle operation can loosen bolts over time. Check wiring for any signs of wear, fraying, or corrosion. Ensure all electrical connections remain secure and insulated.
- **Environmental Exposure:** While designed for outdoor use, prolonged exposure to extreme conditions (e.g., saltwater, harsh chemicals) may accelerate wear. Rinse the light bar with fresh water after exposure to such environments.

## TROUBLESHOOTING

If you encounter issues with your PLV-1014 LED Light Bar, refer to the following table for common problems and solutions.

Problem	Possible Cause	Solution
Light bar does not turn on.	No power, blown fuse, loose wiring connection, faulty switch.	Check all wiring connections for tightness. Verify power supply to the light bar. Inspect and replace any blown fuses. Test the switch for proper function.
Light bar is dim or flickers.	Insufficient power, poor ground connection, loose wiring, voltage drop.	Ensure adequate voltage is supplied. Check ground connection for corrosion or looseness. Inspect all wiring for damage or loose connections. Consider a heavier gauge wire if voltage drop is suspected.
Moisture inside the lens.	Seal compromise, condensation.	Ensure all seals are intact and not damaged. Small amounts of condensation may dissipate with use; if persistent or significant, contact manufacturer support.

## TECHNICAL SPECIFICATIONS

Brand	Pilot
Model	PLV-1014
Product Dimensions (L x W x H)	94.49 x 28.45 x 16.51 cm (approximately 37.2 x 11.2 x 6.5 inches)
Item Weight	6.06 kg (approximately 13.36 lbs)


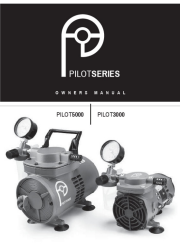

Light Source Type	LED
Form Factor	Bar
Vehicle Service Type	Truck, Off-Road Vehicles
Position	Front
Quantity	2 Light Bars (as sold in this package)




## WARRANTY AND SUPPORT

Pilot Automotive products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Pilot Automotive website. If you require technical assistance or have questions regarding your PLV-1014 LED Light Bar, please contact Pilot Automotive customer support through their official channels.

*Note: Warranty terms and conditions may vary and are subject to change by the manufacturer.*

### Related Documents - PLV-1014

	<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 Series Vacuum Pump Owner's Manual: PILOT5000, PILOT3000</a></p> <p>This owner's manual provides comprehensive guidance for the PILOT Series vacuum pumps, including models PILOT5000, PILOT5000C, and PILOT3000. It details safety procedures, installation steps, operational best practices, maintenance instructions, technical specifications, and warranty information to ensure optimal performance and longevity.</p>
	<p><a href="#">PILOT Hi-Tecpoint V5/V7 Safety Data Sheet (SDS) - Ink Properties &amp; Hazards</a></p> <p>Official Safety Data Sheet (SDS) for PILOT Hi-Tecpoint V5 and PRECISE V5, and Hi-Tecpoint V7 and PRECISE V7 writing instruments. Provides detailed information on ink composition, hazards, first aid, handling, storage, and regulatory compliance.</p>

	<p><a href="#">Pilot Precision Tools: G2, FriXion, Precise Pens &amp; V Board Markers</a></p> <p>Explore Pilot's range of precision writing instruments, including G2 Edge, FriXion Synergy, Precise V10, and V Board Master markers. Discover quality pens for powerful thoughts and office productivity.</p>
	<p><a href="#">PILOT 2022 Product Catalogue: Chargers, Power Banks, and Accessories</a></p> <p>Discover the comprehensive 2022 product catalogue from PILOT, featuring a wide array of high-quality electronic accessories including chargers, power banks, wireless chargers, TWS headsets, docking stations, and portable power stations. PILOT emphasizes advanced technology for faster, safer charging and reliable power solutions.</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>