

KC 91314

KC HiLiTES Pro6 LED Light Bar Instruction Manual

Model: 91314 | Brand: KC HiLiTES

1. INTRODUCTION

The KC HiLiTES Pro6 LED Light Bar is an advanced off-road lighting system designed for exceptional visibility and modularity. This manual provides essential information for the proper installation, operation, and maintenance of your Pro6 LED Light Bar.

Key features include:

- **Patented Gravity LED G6 Optical Inserts:** Provides high efficiency and light output.
- **Infinity Ring System:** An adjustable linking system allowing for expandable widths, modular beam shapes, and radius or straight configurations.
- **Universal Mounting Design:** Compatible with most standard LED bar widths and easily attaches to KC mounts on Jeeps, Trucks, or UTVs.
- **Combination Beam:** Ships with a combination of driving and Wide-40 G6 optical inserts for versatile lighting.

2. WHAT'S IN THE BOX

Carefully unpack the contents and ensure all items are present:

- Pro6 LED Light Bar (7 lights)
- Protective Covers

Note: Mounting brackets are not included with this kit and must be purchased separately.

3. SETUP AND INSTALLATION

The Pro6 LED Light Bar features a modular design for flexible installation. Professional installation is recommended for optimal performance and safety.

3.1 Component Overview



Figure 1: Front view of the Pro6 LED Light Bar, showcasing the seven individual light modules and their clear lenses.



Figure 2: Rear view of the Pro6 LED Light Bar, illustrating the integrated wiring and heat dissipation fins on each module.



Figure 3: Angled side view of the Pro6 LED Light Bar, emphasizing the robust construction and modular connection points between each light.

3.2 Mounting the Light Bar

1. **Select Mounting Location:** Choose a secure location on your vehicle (Jeep, Truck, UTV) that allows for optimal light projection and does not obstruct the driver's view.
2. **Attach Mounting Brackets:** Secure your chosen KC mounts (not included) to the vehicle according to their specific instructions.
3. **Position Light Bar:** Align the high-strength aluminum end mounts of the Pro6 light bar with your installed brackets.
4. **Secure Light Bar:** Fasten the light bar to the brackets using appropriate hardware, ensuring a tight and stable connection.

3.3 Adjusting the Infinity Ring System

The Infinity Ring system allows for customization of the light bar's shape:

- **Straight Configuration:** For a linear light output, ensure all Infinity Rings are locked in a straight position.
- **Radius Configuration:** To create a curved light bar, adjust the linking system between each ring to achieve the desired radius. Ensure all connections are securely tightened after adjustment.



Figure 4: The Pro6 LED Light Bar configured in a curved shape, demonstrating the flexibility of the Infinity Ring system.

3.4 Wiring

Connect the light bar's wiring harness to your vehicle's electrical system. Refer to your vehicle's manual and local regulations for proper wiring procedures. Ensure all connections are waterproof and secure.

4. OPERATING INSTRUCTIONS

The Pro6 LED Light Bar is designed for straightforward operation.

1. **Power On/Off:** Use the integrated switch (if supplied with a wiring harness kit) or your vehicle's auxiliary switch to turn the light bar on or off.
2. **Beam Pattern:** The light bar utilizes a combination of driving and Wide-40 G6 optical inserts, providing a broad and long-distance light pattern suitable for various off-road conditions.

Always ensure the light bar is used responsibly and in compliance with all applicable laws and regulations regarding auxiliary lighting.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Pro6 LED Light Bar.

- **Cleaning:** Clean the lenses and housing regularly with a mild soap solution and a soft cloth. Avoid abrasive cleaners that may scratch the lens.
- **Connection Check:** Periodically inspect all electrical connections for corrosion or looseness. Ensure all wiring is securely routed and protected.
- **Mounting Hardware:** Check mounting bolts and fasteners for tightness, especially after off-road use, to prevent vibration-induced damage.

6. TROUBLESHOOTING

If you encounter issues with your Pro6 LED Light Bar, refer to the following common troubleshooting steps:

- **Light Bar Not Turning On:**
 - Check all electrical connections for proper contact.
 - Verify the fuse in the wiring harness (if applicable) is not blown.
 - Ensure the power switch is functioning correctly.
- **Dim or Flickering Light:**
 - Inspect wiring for loose connections or damage.
 - Confirm adequate voltage supply to the light bar.
- **Moisture Inside Lens:**
 - While the unit is waterproof, extreme temperature changes can cause condensation. If persistent, inspect seals for damage.

For issues not resolved by these steps, contact KC HiLiTES customer support.

7. SPECIFICATIONS

Model:

45" Pro6 Gravity LED -7-Light - Light Bar System - 140W Combo Beam

Item Model Number:

91314

Dimensions (L x W x H):

60 x 12 x 6 inches

Item Weight:

21 Pounds

Wattage:

140W

Voltage:

9V-32V

LED Type:

Cree XPL HD LED

Lumens:

16,100lm

LUX at 10m:

6,100lx

Candela:

610,000cd

Beam Distance:

1,562m

Material:

Aluminum

Water Resistance Level:

Waterproof

Number of Pieces:

1

Automotive Fit Type:

Vehicle Specific Fit

UPC:

084709913144

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official KC HiLiTES website or contact their customer service department directly. Keep your purchase receipt for warranty claims.