

## KC 91334

# KC Hilites Gravity LED Pro6 Light Bar Instruction Manual

Model: 91334

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your KC Hilites Gravity LED Pro6 Light Bar, Model 91334. This 7-light, 140-watt system is designed to provide powerful illumination for vehicle exterior applications, specifically fitting Ford F-150 models from 2015-2020. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

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Always observe the following safety precautions:

- Disconnect the vehicle's battery before beginning any electrical installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Mount the light bar securely to prevent vibration or detachment during vehicle operation.
- Do not look directly into the light when it is illuminated, as it can cause eye damage.
- Verify that the light bar's operation complies with all local and federal regulations regarding auxiliary lighting.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

## PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- Gravity LED Pro6 Light Bar (7-light system)
- Mounting Brackets (vehicle-specific)
- Wiring Harness with Switch and Relay
- Hardware (bolts, washers, nuts, zip ties)
- Installation Instructions (this manual)



Image: The KC Hilites Gravity LED Pro6 Light Bar system, showing the seven individual light modules, various black mounting brackets, a wiring harness with a switch and relay, and assorted hardware including bolts, washers, and zip ties.

## SETUP AND INSTALLATION

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This light bar system is designed for a vehicle-specific fit, particularly for Ford F-150 models from 2015-2020. Professional installation is recommended.

1. **Preparation:** Park the vehicle on a level surface and engage the parking brake. Disconnect the negative terminal of the vehicle's battery.
2. **Mounting Bracket Installation:** Identify the correct mounting points on your vehicle's bumper or grille area as per the vehicle-specific instructions (not included in this general manual). Securely attach the provided mounting brackets using the supplied hardware. Ensure brackets are aligned and tightened to vehicle manufacturer specifications.
3. **Light Bar Assembly:** Assemble the individual Gravity LED Pro6 light modules onto the main light bar frame, ensuring all connections are secure. Attach the assembled light bar to the installed mounting brackets. Adjust the angle of the light bar as desired for optimal light spread, then tighten all mounting bolts.
4. **Wiring Harness Connection:** Route the wiring harness from the light bar to the vehicle's battery and interior switch location. Connect the light bar's power input to the harness. Connect the positive lead of the harness to the positive terminal of the battery (via an inline fuse, if not pre-installed) and the negative lead to a suitable ground point on the vehicle chassis.
5. **Switch Installation:** Install the included switch in a convenient location within the vehicle's cabin. Connect the switch wires to the wiring harness as per the harness's color-coded instructions.
6. **Final Checks:** Reconnect the vehicle's battery. Test the light bar's functionality. Ensure all connections are secure and no wires are pinched or exposed to moving parts or excessive heat.

## OPERATING INSTRUCTIONS

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To operate your KC Hilites Gravity LED Pro6 Light Bar:

- Ensure the vehicle's ignition is in the "ON" or "ACC" position, or the engine is running, depending on how the light bar was wired.
- Locate the installed switch inside your vehicle.
- Flip the switch to the "ON" position to illuminate the light bar.

- Flip the switch to the "OFF" position to turn off the light bar.

*Note:* Always be mindful of local laws and regulations regarding the use of auxiliary lighting on public roads.

## MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your light bar:

- **Cleaning:** Clean the lenses and housing regularly with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the finish or lens.
- **Inspection:** Periodically inspect all mounting hardware and electrical connections for tightness and corrosion. Re-tighten any loose bolts and clean any corroded terminals.
- **Wiring:** Check the wiring harness for any signs of wear, fraying, or damage. Repair or replace damaged sections immediately.
- **Water Resistance:** While the light bar is waterproof, avoid directing high-pressure water sprays directly at the seals or electrical connections during washing.

## TROUBLESHOOTING

If you encounter issues with your light bar, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light bar does not turn on.	No power to the light bar; Blown fuse; Loose wiring connection; Faulty switch.	Check battery connections. Inspect and replace fuse if blown. Verify all wiring connections are secure. Test the switch for continuity.
Lights flicker or are dim.	Poor ground connection; Insufficient voltage; Loose wiring.	Ensure the ground connection is clean and secure. Check vehicle's charging system. Tighten all electrical connections.
Moisture inside the lens.	Seal compromise; Condensation.	Allow the light to dry out. If moisture persists, inspect seals for damage and contact manufacturer support.

## SPECIFICATIONS

Feature	Detail
Model Number	91334
Brand	KC
Light Type	Gravity LED Pro6 Light Bar
Number of Lights	7
Dimensions (L x W x H)	60 x 12 x 6 inches
Item Weight	0.01 Ounces <i>(Note: This weight seems unusually low and may refer to a component, not the full system. Refer to packaging for accurate shipping weight.)</i>

Feature	Detail
Power Output	140 Watt
Lumen Output	16100 Lumens
Candela Output	610000 Candela
Material	Stainless Steel
Color	Black
Water Resistance Level	Waterproof
Recommended Use	Vehicle Exterior
Automotive Fit Type	Vehicle Specific Fit (Ford F-150 2015-2020)
Included Components	Light bar system
Manufacturer	KC HiLiTES
UPC	084709913342

## WARRANTY AND SUPPORT

For specific warranty information and technical support, please contact KC HiLiTES directly through their official website or customer service channels. Keep your proof of purchase for warranty claims.

While protection plans may be offered by retailers, the product's manufacturer warranty details are typically provided with the product or available on the manufacturer's website.