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› DNA Motoring HL-HAY-013-BK Headlights Instruction Manual for Peterbilt 579/587

DNA MOTORING HL-HAY-013-BK

DNA Motoring HL-HAY-013-BK Headlights

INSTRUCTION MANUAL

Model: HL-HAY-013-BK | Brand: DNA MOTORING

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DNA Motoring HL-HAY-013-BK Dual LED Halo Rings Sequential Turn Signal High/Low Beam Projector Headlights. These headlights are designed to be a direct replacement for specific Peterbilt models, enhancing visibility and vehicle aesthetics. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Safety Information

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Verify that the headlights are correctly aimed after installation to avoid blinding oncoming traffic and to ensure optimal road illumination.
- If you are unsure about any part of the installation process, consult a qualified automotive technician.

Package Contents

The package includes the following items:

- 1 Pair of DNA Motoring HL-HAY-013-BK Headlight Assemblies (Driver and Passenger Side)
- Integrated Wiring Harnesses
- Load Resistors (if required for proper turn signal function)
- Basic Installation Tools (e.g., screwdriver, gloves)

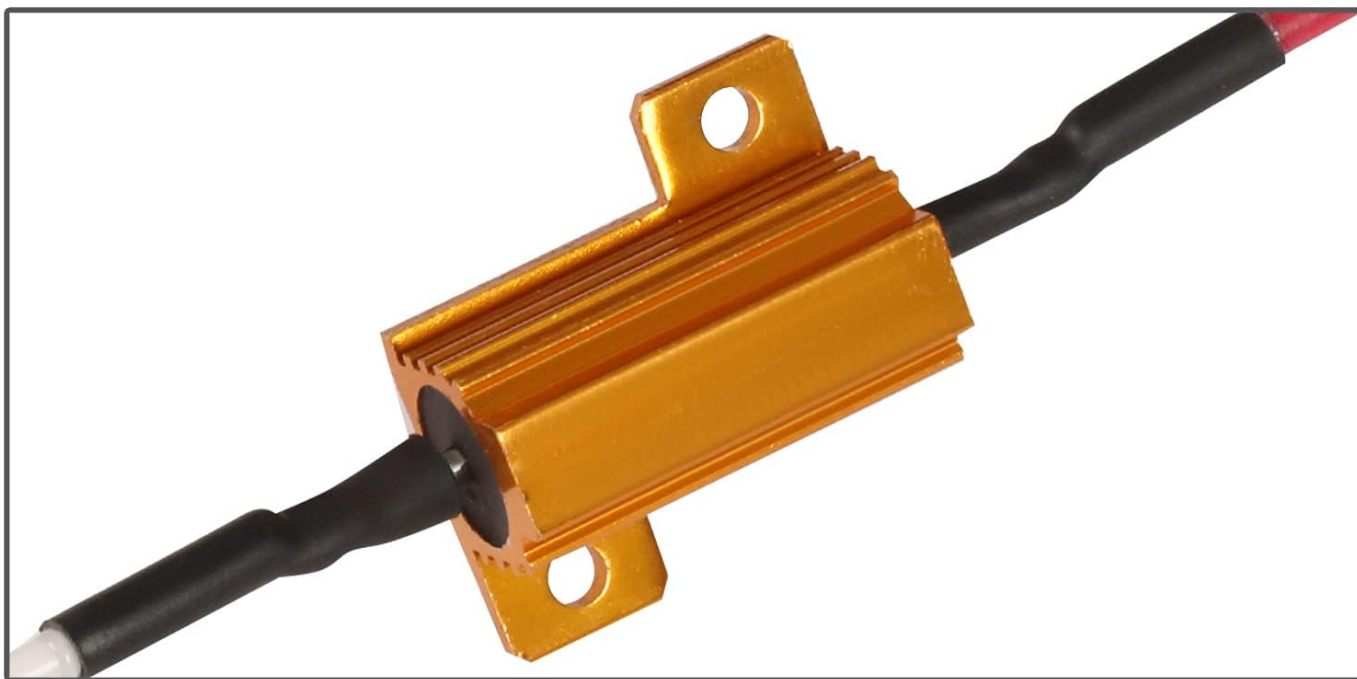


Image: Included wiring harness, gloves, and load resistor for installation.

Compatibility

These headlights are compatible with the following vehicle models:

- Peterbilt 579: Model Years 2013-2020
- Peterbilt 587: Model Years 2011-2018

These units are designed as a direct replacement for OEM Part Numbers P54-6102-10000 and P54-6102-10000R.

Setup and Installation

The installation process involves replacing your existing headlight assemblies with the new DNA Motoring units. These headlights are designed for direct fitment and plug-and-play connection to your vehicle's existing wiring harness. They are inspected and vacuum tested to ensure an air-tight and water-resistant seal.

Component Overview

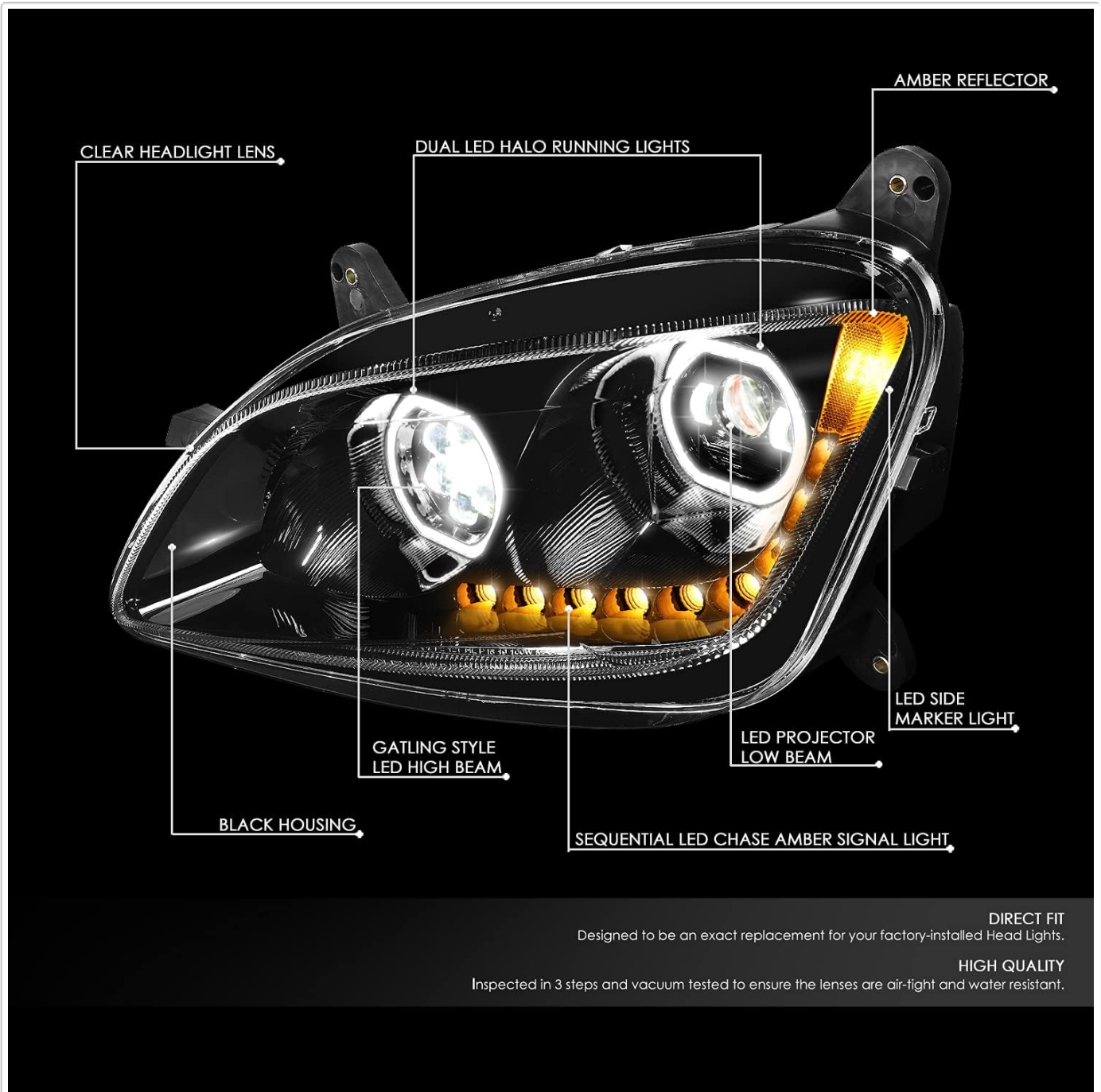


Image: Labeled diagram of the headlight assembly, showing key components like the clear lens, LED halo, projector low beam, and sequential turn signal.

General Installation Steps

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the vehicle's battery.
2. **Access:** Depending on your vehicle model, you may need to remove the grille or other front-end components to access the headlight mounting bolts.
3. **Remove Old Headlights:** Unbolt the existing headlight assemblies and carefully disconnect the wiring harnesses.
4. **Install New Headlights:** Connect the wiring harness of the new DNA Motoring headlights to the vehicle's factory harness. Ensure all connections are secure. Mount the new headlight assemblies into position and secure them with the appropriate bolts.
5. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.

6. **Test Functionality:** Turn on the vehicle and test all headlight functions: low beam, high beam, turn signals, and running lights.
7. **Aiming:** Properly aim the headlights according to local regulations and manufacturer guidelines to ensure optimal visibility and prevent glare for other drivers.

Operating Instructions

These headlights feature advanced LED lighting components for various functions:

- **Dual LED Halo Running Lights:** These illuminate as white halo rings when your vehicle's running lights are active, providing a distinct visual signature.
- **Projector LED Low Beam:** Provides a focused and wide beam pattern for standard driving conditions. (2,500 Lumens, 1.13 Amps, 12V DC Input)
- **Barrel Style LED High Beam:** Offers a powerful, long-range beam for maximum visibility when needed. (1,700 Lumens, 1.42 Amps, 12V DC Input)
- **Sequential Chase LED Turn Signal:** The amber LEDs illuminate in a sequential pattern, clearly indicating your turning intentions.
- **Amber Side Marker Light:** Enhances side visibility of the vehicle.

FULL WHITE LED HALO
RUNNING LIGHT



FULL LED
HIGH BEAM AND LOW BEAM



Image: Headlights with full white LED halo running lights active.



Image: Close-up of the full LED high beam and low beam in operation.



Image: Headlight demonstrating the sequential LED amber turn signal.

Maintenance

- **Cleaning:** Regularly clean the headlight lenses with a soft cloth and mild soap and water to remove dirt and debris. Avoid abrasive cleaners or harsh chemicals that can damage the polycarbonate lens.
- **Inspection:** Periodically inspect the headlight assemblies for any signs of damage, cracks, or moisture intrusion. Ensure all wiring connections remain secure.
- **Bulb Replacement:** These headlights utilize integrated LEDs, which are designed for long life and typically do not require bulb replacement. If an LED component fails, the entire assembly may need servicing or replacement.

Troubleshooting

- **Lights Not Working:** Check all wiring connections to ensure they are secure. Verify that the vehicle's fuses related to the headlights are intact. Ensure the battery is properly connected and charged.

- **Flickering Lights:** This could indicate a loose connection or an issue with the vehicle's electrical system. Recheck connections. If load resistors were provided, ensure they are correctly installed.
- **Moisture Inside Lens:** While designed to be water-resistant, extreme temperature changes can sometimes cause temporary condensation. If persistent moisture or water accumulation is observed, inspect the seals and housing for damage.
- **Turn Signals Malfunctioning:** If turn signals flash too fast (hyper-flashing), ensure any provided load resistors are correctly installed. This issue often occurs when replacing incandescent bulbs with LEDs without proper resistance.

Specifications

Feature	Specification
Model Number	HL-HAY-013-BK
Brand	DNA MOTORING
Light Source Type	LED
Lens Material	Polycarbonate
Lens Colour	Clear
Special Feature	Waterproof
Voltage	12 Volts
Wattage	16.64 watts
Low Beam Application	2,500 Lumens, 1.13 Amps, 12V DC Input
High Beam Application	1,700 Lumens, 1.42 Amps, 12V DC Input
Auto Part Position	Front
OEM Equivalent Part Number	P54-6102-10000, P54-6102-10000R
GTIN / UPC	194286092290

Warranty Information

For warranty information regarding this product, please contact the seller directly. Warranty terms and conditions may vary.

Support

If you encounter any issues or have questions not covered in this manual, please refer to the seller's support channels or contact a certified automotive professional for assistance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question