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ELH ELH-034 (Compatible with 2006-2011 Cadillac DTS)

ELH Projector Headlight Assembly User Manual

Brand: ELH

Model: ELH-034 (Compatible with 2006-2011 Cadillac DTS)

1. PRODUCT OVERVIEW

The ELH Projector Headlight Assembly is designed as a direct fit replacement for the 2006-2011 Cadillac DTS models equipped with factory HID/Xenon headlights. This assembly provides an OE-style appearance and balanced light output without glare, ensuring clear visibility. It is built with a fully sealed housing and a UV-resistant lens for durability and long-term performance.



Figure 1.1: ELH Projector Headlight Assembly, showing the main unit, included HID bulb, and ballast.

Key Features:

- **True OE Appearance:** Matches the shape and style of the original headlight for a clean, stock look.
- **Direct Fit Replacement:** Bolts into place using factory mounting points, requiring no custom wiring.
- **Balanced Light Output:** Features OEM-style projectors for even, usable light without glare.
- **Ready for Daily Use:** Fully sealed housing and UV-resistant lens built to handle everyday wear.
- **Clear Lenses:** Provides clear light and visibility without dark tint or colored LEDs.

2. SETUP AND INSTALLATION

This headlight assembly is designed for a direct bolt-on installation, making it a 'Plug & Play' solution. No additional wiring modifications are typically required, as it utilizes existing factory mounting points and connections. Ensure all factory Xenon HID components are reused.

2.1 Pre-Installed Bulbs

The assembly comes with pre-installed bulbs, eliminating the need to purchase extra bulbs and wiring harnesses. The included bulbs are:

- Side Marker: W5W
- Turn Signal: 4157NA
- High / Low Beam: HID Bulbs (DIS)

PRE-INSTALLED BULBS

NO NEED TO BUY EXTRA BULBS AND WIRING HARNESSSES

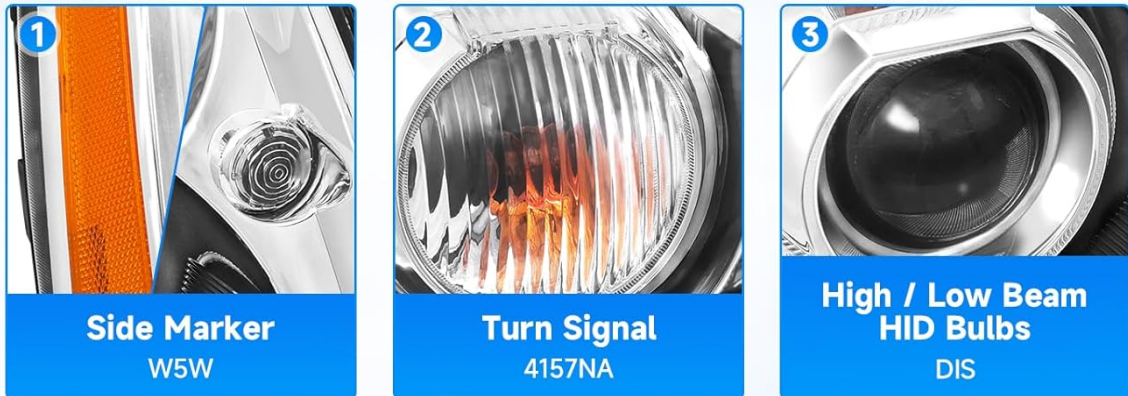


Figure 2.1: Diagram illustrating the locations of the pre-installed Side Marker, Turn Signal, and High/Low Beam HID bulbs within the headlight assembly.

2.2 Wiring and Connection

The design facilitates a straightforward 'Plug & Play' connection. Simply connect the assembly to the vehicle's existing wiring harness. Ensure all connections are secure before operation.

PLUG & PLAY



Figure 2.2: Visual guide to the 'Plug & Play' wiring connections, including the main connector, side marker, turn signal, and high/low beam connections.



Figure 2.3: Illustration demonstrating the direct bolt-on nature of the headlight assembly, emphasizing that no wiring modifications are needed for installation.

3. OPERATING INSTRUCTIONS

Once installed, the ELH Projector Headlight Assembly operates in conjunction with your vehicle's existing headlight controls. The projector design ensures a focused and balanced light output for optimal visibility.

3.1 Headlight Functions

The assembly supports the following lighting functions:

- **Low Beam HID Bulbs:** Provides standard illumination for general driving conditions.
- **High Beam HID Bulbs:** Offers increased illumination for enhanced visibility on dark roads.
- **Turn Signal:** Amber light for indicating turns.
- **Side Marker:** Provides additional visibility from the side of the vehicle.

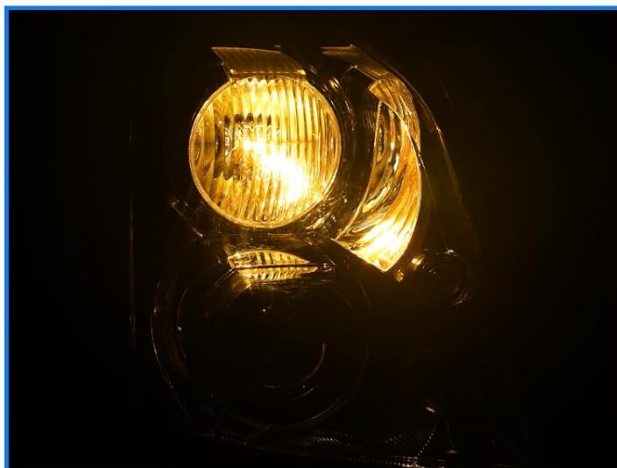
Headlight Functional Display



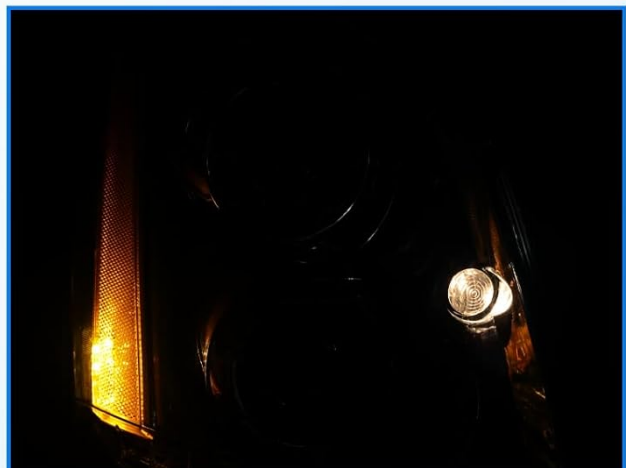
Low Beam HID Bulbs



High Beam HID Bulbs



Turn Signal



Side Marker

Figure 3.1: Display of the headlight's functional modes, including Low Beam, High Beam, Turn Signal, and Side Marker illumination.



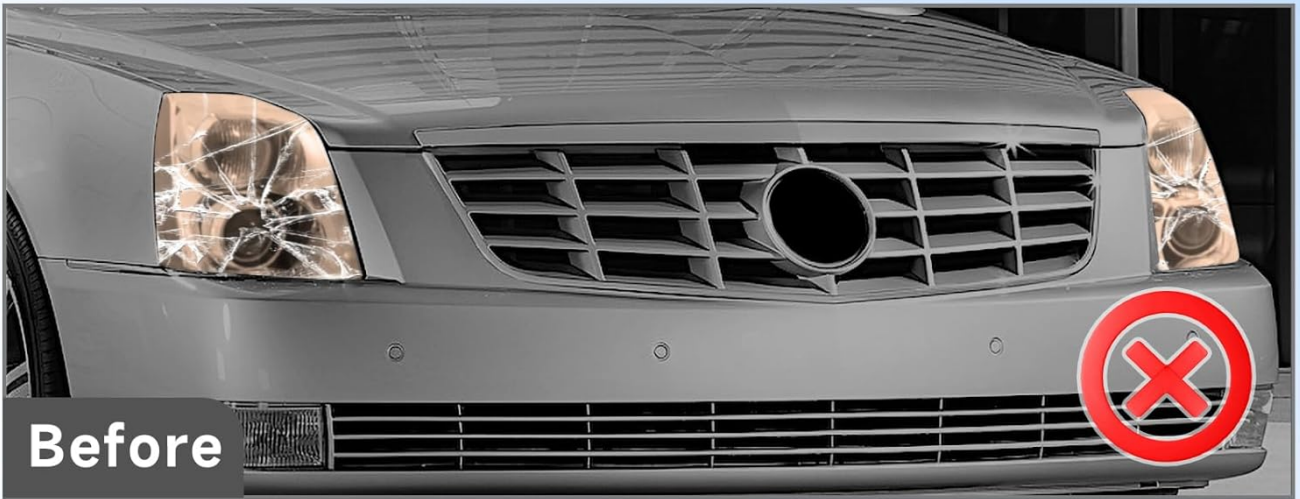
Figure 3.2: Illustration of the even light output provided by the OEM-style projector beam, designed to improve visibility without glare or light scatter.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ELH Projector Headlight Assembly. Regular cleaning and inspection are recommended.

4.1 UV Coating Protection

The headlight lens features a UV coating designed to prevent yellowing and cracking over time, common issues with older headlight assemblies. This coating helps maintain clarity and light output.



UV COATING

Prevent Yellowing And Cracking



Figure 4.1: Comparison showing a headlight before and after the benefits of UV coating, highlighting its role in preventing yellowing and cracking for sustained clarity.

SNOWY DAY

RAINY DAY

FOGGY DAY

Sealed Housing UV-Coated Lens

Figure 4.2: Visual representation of the OEM-style clarity provided by the lens, demonstrating the absence of light flash or scattering for optimal visibility.

4.2 Waterproof Design

The assembly is designed to be waterproof, protecting internal components from moisture and environmental elements. This feature contributes to its readiness for daily use in various weather conditions.



Figure 4.3: Image depicting the waterproof nature of the headlight assembly, with water splashing over it, indicating its resistance to moisture.

Even Light Output OEM-Projector Beam



NO GLARE



NO SCATTER



Figure 4.4: Visual illustrating the sealed housing and UV-coated lens, ensuring reliable performance in snowy, rainy, and foggy conditions.

5. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, professional assistance is recommended.

5.1 Common Issues and Solutions

- **Headlight Not Functioning:**

- Check all electrical connections to ensure they are secure and properly seated.
- Verify the vehicle's fuses related to the headlight system.
- Inspect the bulb for damage or burnout.

- **Dim or Flickering Light:**

- Ensure the vehicle's battery and charging system are functioning correctly.
- Check for loose or corroded wiring connections.
- If using HID, ensure the ballast is functioning correctly.

- **Moisture Inside Headlight:**

- While the unit is sealed, extreme temperature changes can cause condensation. This usually dissipates.
- If persistent, inspect the housing for cracks or damage that might compromise the seal.

6. SPECIFICATIONS

Detailed specifications for the ELH Projector Headlight Assembly.

Attribute	Detail
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Attribute	Detail
Brand	ELH
Model	ELH-034 (Compatible with 2006 - 2011 Cadillac DTS)
ASIN	B0FJLS1211
Color	Chrome Housing Amber Reflector
Specific Uses For Product	Head Lights
Vehicle Service Type	2006 - 2011 Cadillac DTS Factory HID / Xenon Headlight Models 4 - Door Sedan
Special Feature	Waterproof
Assembly Required	No
Automotive Fit Type	Vehicle Specific Fit
Manufacturer	ELH
Item Weight	16.27 pounds
Package Dimensions	22.44 x 18.11 x 16.14 inches
Exterior	Polished
Date First Available	July 23, 2025

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact ELH customer service directly. Keep your purchase receipt for warranty claims.

ELH Customer Service: Please visit the official ELH website or contact your retailer for support contact details.