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Morimoto LF533-ASM

Morimoto XB LED Headlight Housing Upgrade Instruction Manual

For 2007-2013 Toyota Tundra (Model LF533-ASM)

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Morimoto XB LED Headlight Housing Upgrade for the 2007-2013 Toyota Tundra. These headlights are designed to be a direct plug-and-play replacement, offering enhanced visibility and a modern aesthetic without requiring complex modifications.
The Morimoto XB LED headlights meet and exceed all SAE, DOT, and FMVSS108 regulations when aimed properly, ensuring legal on-road use in the US and Canada.

Setup and Installation

The Morimoto XB LED Headlight Housing Upgrade is designed for a plug-and-play installation on your 2007-2013 Toyota Tundra. No wiring modifications are typically required, and the assemblies connect directly to factory connectors.

Required Tools:

- Trim removal tool
- Socket wrench set
- Phillips head screwdriver

Installation Steps:

1. **Prepare Vehicle:** Ensure the vehicle is turned off and the hood is open.
2. **Remove Trim Panels:** Carefully remove the trim panels located on both the left and right sides of the car, adjacent to the headlights. Use a trim removal tool to prevent damage to the paint or plastic.
3. **Remove Factory Headlights:** Locate and remove the screws securing the factory headlights. There are typically three mounting points per headlight.
4. **Disconnect Wiring:** Gently pull off all electrical plugs connected to the rear of the factory headlight assembly. Inspect the bulbs and wiring for any signs of wear or damage.
5. **Install New Headlights:** Connect all the plugs from the new Morimoto XB LED headlight assembly to the corresponding factory wiring harnesses. Ensure all connections are secure.
6. **Position Headlights:** Carefully slide the new headlight assembly into place, ensuring it aligns correctly with the mounting points.
7. **Secure Headlights:** Tighten the screws to secure the new headlight assembly.

8. **Reinstall Trim Panels:** Reattach the trim panels removed in step 2.
9. **Repeat for Other Side:** Follow the same steps for the headlight on the opposite side of the vehicle.
10. **Test Functionality:** Before driving, test all headlight functions: low beam, high beam, daytime running lights (DRL), and turn signals.

Installation Visual Guide:

Refer to the following videos for a visual demonstration of the installation process:

▶ **Watch video online**
VLAND Headlights for Tundra&Sequoia(INSTALLATION)

Video Description: This video demonstrates the installation process for VLAND Headlights on a Toyota Tundra and Sequoia (2007-2013 models). It covers removing trim panels, unscrewing factory headlights, disconnecting wiring, and installing the new LED assemblies.

▶ **Watch video online**
2007-2013 Toyota Tundra Headlight Installation Video

Video Description: A detailed installation video for 2007-2013 Toyota Tundra Headlights, showing step-by-step procedures for replacing the factory units with aftermarket LED headlights.

Product Components:



Image Description: Diagram illustrating key features of the Morimoto XB LED Headlight, including OEM quality injection-molded ABS plastic housing, intense white DRL with dim parking light function, sequential turn signal, and OEM Grade PC lens.

Operating Instructions

Your Morimoto XB LED Headlights offer advanced lighting features for improved visibility and safety.

Daytime Running Lights (DRL):

The LED daytime running lights are powered by Osram 5000K LEDs, providing bright illumination during the day. These LEDs border the top and bottom edges of the lamp and are diffused using custom optics. If your Tundra did not come with a factory DRL, a harness is included to easily enable this feature.

Sequential LED Turn Signals:

The headlights feature an integrated sequential LED turn signal. When the turn signal is engaged, amber LEDs sweep across the top and bottom of the lamp in a smooth, chasing sequence. After the turn is completed, the turn signals automatically switch back to the bright white DRL function.

Headlight Leveling System:

These lamps are designed to retain the vehicle's electronic headlight leveling system. Each lamp includes its own leveling motor that is fully compatible with the factory system. The factory connector plugs directly in, allowing you to use the factory adjustment knob inside the truck to fine-tune the headlight aim.

Beam Pattern and Output:

The Morimoto XB LED headlights produce a well-defined beam pattern with significant width, intensity, and proper light distribution, resulting in a substantial improvement in on-road visibility compared to standard halogen setups.



Image Description: Rear view of the Morimoto XB LED Headlight assembly, highlighting the horizontal and vertical adjusters for precise beam alignment.

Feature Overview Video:

▶ **Watch video online**

2014-2021 Toyota Tundra LED Headlights | FORM Lighting

Video Description: This video from FORM Lighting provides an overview of LED headlight features, including projector and reflector models, DRLs, and sequential turn signals. While the video mentions 2014-2021 Toyota Tundra, the general features discussed are applicable to Morimoto XB LED headlights.

Maintenance

To ensure the longevity and optimal performance of your Morimoto XB LED Headlights, follow these maintenance guidelines:

- **Cleaning:** Clean the polycarbonate outer lens regularly with a mild soap and water solution and a soft cloth. Avoid abrasive cleaners or harsh chemicals that could damage the UV coating.
- **UV Coating:** The durable UV-coated polycarbonate outer lens is designed to resist fading and yellowing over time. Regular cleaning helps maintain its clarity.
- **Breather Vents:** The headlights are equipped with breather vents to prevent condensation buildup inside the housing. Ensure these vents remain clear of debris.
- **Inspection:** Periodically inspect the wiring and connections for any signs of wear, corrosion, or looseness.

Troubleshooting

The Morimoto XB LED Headlights are designed for seamless integration. If you encounter any issues, consider the following:

- **No Error Codes:** These headlights are engineered to prevent error codes, flickering, hyper-flashing, or radio interference. If any of these occur, re-check all electrical connections to ensure they are fully seated.
- **Improper Aim:** If the beam pattern appears incorrect, use the integrated vertical and lateral adjusters on the rear of the headlight housing to fine-tune the aim. A Phillips head screwdriver can be used for this adjustment.
- **Condensation:** Minor condensation can occur under certain environmental conditions. The integrated breather vents are designed to manage this. If excessive or persistent condensation occurs, ensure the breather vents are not obstructed and the housing is properly sealed.

Specifications

Feature	Specification
Brand	Morimoto
Model Number	93000427
UPC	840203399118
Vehicle Service Type	Car, Truck (Toyota Tundra 2007-2013)
Specific Uses For Product	Head Lights
Color	Black Housing, Clear Lens

Feature	Specification
Lens Material	Polycarbonate
Special Feature	Waterproof
Wattage	55 watts
Item Weight	6 pounds
Assembly Required	No
Automotive Fit Type	Vehicle Specific Fit

Warranty and Support

Morimoto XB LED Headlights are rigorously tested for reliability and are backed by a **two-year warranty**. For technical support, troubleshooting assistance, or warranty claims, please contact Morimoto customer service or your authorized dealer.
For additional resources and product information, visit the official Morimoto website or refer to your purchase documentation.

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