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> Morimoto XB Hybrid LED Headlight Instruction Manual for Ford Super Duty (LF556.2)

## Morimoto LF556.2

# Morimoto XB Hybrid LED Headlight Instruction Manual

Model: LF556.2 | Brand: Morimoto

## 1. INTRODUCTION

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The Morimoto XB Hybrid LED Headlights are designed to enhance your vehicle's lighting system, providing improved visibility and a distinct aesthetic. These headlights feature LED technology for bright illumination and are engineered for a direct fit on compatible Ford Super Duty models.

### Key Features:

- **Enhanced Visibility:** Powerful LED projectors deliver exceptional light output and a precise beam pattern.
- **OEM-Grade Quality:** Constructed with durable materials and housed in OEM-grade casing, ensuring longevity.
- **Street-Legal Compliance:** Meets SAE, DOT, and FVMSS108 regulations for legal road use.
- **Plug and Play Design:** Engineered for straightforward installation without complex modifications.
- **Vehicle Compatibility:** Designed for 2020-2022 Ford Super Duty F-250, F-350, and F-450 models.

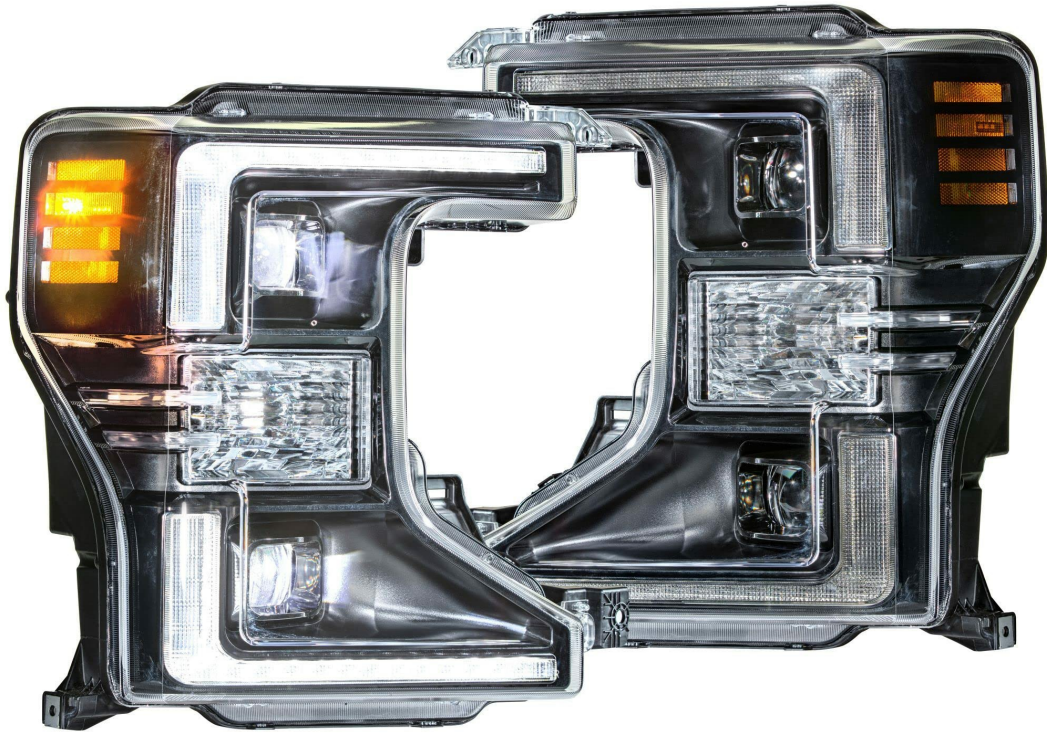


Figure 1.1: Front view of the Morimoto XB Hybrid LED Headlight assembly.

## Product Overview Video:

Video 1.1: Official Morimoto brand video showcasing product features and quality. This video provides a general overview of Morimoto's commitment to lighting performance.

## 2. PACKAGE CONTENTS

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Verify that all components are present in the package before beginning installation:

- Pair of Headlight Assemblies (Left and Right)
- Plug and Play Wiring Harnesses

## 3. TECHNICAL SPECIFICATIONS

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Specification	Detail
Brand	Morimoto
Model Number	LF556.2
Light Source Type	LED
Voltage	12 Volts (DC)
Auto Part Position	Front Left, Front Right
Lens Color	Clear
Lens Material	Polycarbonate

Special Features	Dustproof, Impact Resistant, Waterproof
Compatible Vehicle Type	2020-2022 Ford Super Duty F-250, F-350, F-450

## 4. INSTALLATION GUIDE

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This section provides general steps for installing your Morimoto XB Hybrid LED Headlights. Due to variations in vehicle configurations, it is recommended to consult your vehicle's service manual or seek professional installation if you are unfamiliar with automotive electrical systems or bodywork.

### Required Tools (Not Included):

- Basic hand tools (e.g., screwdrivers, socket set)
- Trim removal tools (optional, but recommended)
- Protective gloves and eyewear

### Installation Steps:

- 1. Safety First:** Park your vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the vehicle's battery to prevent electrical shorts.
- 2. Access Existing Headlights:** Depending on your vehicle model, you may need to remove the front grille, bumper cover, or fender liners to access the mounting bolts and electrical connectors of the factory headlights. Carefully remove any retaining clips, screws, or bolts.
- 3. Remove Factory Headlights:** Once accessible, unbolt the factory headlight assemblies. Disconnect all electrical connectors by pressing the release tabs and pulling them apart. Carefully remove the old headlight units from the vehicle.
- 4. Prepare Morimoto Headlights:** Inspect the new Morimoto XB Hybrid LED Headlights for any damage. Ensure all wiring harnesses are securely attached to the new assemblies.
- 5. Connect New Headlights:** Carefully position the new Morimoto headlight assembly into the vehicle's headlight opening. Connect the provided plug-and-play wiring harnesses to the vehicle's factory connectors. Ensure all connections are secure and properly seated.
- 6. Mount New Headlights:** Secure the new headlight assemblies using the factory mounting bolts. Do not overtighten.
- 7. Test Functionality:** Before reassembling the vehicle's front end, reconnect the negative battery terminal. Turn on the vehicle's ignition and test all headlight functions: low beam, high beam, daytime running lights (DRL), and turn signals. Verify proper operation and alignment.
- 8. Reassemble Vehicle:** If all functions are working correctly, reattach any removed grille, bumper cover, or fender liners. Ensure all clips, screws, and bolts are reinstalled.
- 9. Final Adjustment:** Perform a final headlight aim adjustment if necessary, following local regulations and vehicle manufacturer guidelines.

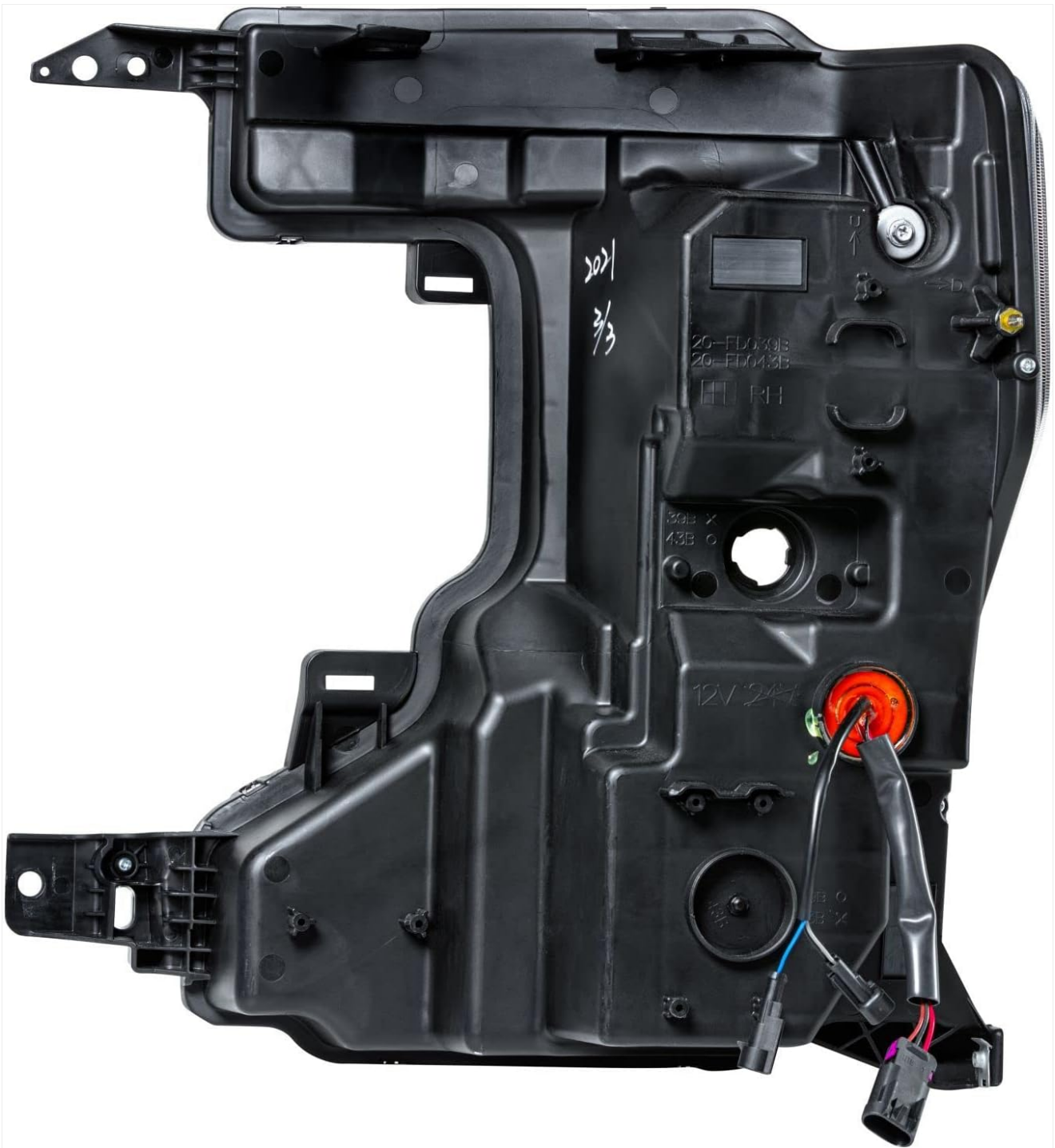


Figure 4.1: Rear view of the Morimoto XB Hybrid LED Headlight assembly, illustrating the wiring connection points.

## 5. OPERATION

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The Morimoto XB Hybrid LED Headlights integrate seamlessly with your vehicle's existing lighting controls. Refer to your vehicle's owner's manual for specific instructions on operating your vehicle's lighting system.

- **Daytime Running Lights (DRL):** The integrated white LED DRL strip will illuminate automatically when the vehicle is running, enhancing daytime visibility.
- **Low Beam Headlights:** Activate your low beam headlights using your vehicle's standard headlight switch. These provide primary illumination for night driving.
- **High Beam Headlights:** Engage your high beam headlights for maximum forward illumination when conditions permit.
- **Switchback Turn Signals:** The turn signals will flash amber when activated, and revert to white DRL when not in use.

## 6. CARE AND MAINTENANCE

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Proper care ensures the longevity and optimal performance of your Morimoto XB Hybrid LED Headlights.

- **Cleaning:** Clean the headlight lenses regularly with a soft cloth and mild automotive soap or glass cleaner. Avoid abrasive cleaners or harsh chemicals that can damage the UV-coated lens.
- **Inspection:** Periodically inspect the headlight assemblies for any signs of damage, loose connections, or moisture intrusion. Address any issues promptly.
- **Bulb Replacement:** These headlights utilize integrated LED technology, meaning individual bulbs are not user-replaceable. If an LED component fails, the entire assembly may require service or replacement.

## 7. TROUBLESHOOTING

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If you encounter issues with your Morimoto XB Hybrid LED Headlights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Headlights not illuminating	Loose electrical connection, blown fuse, incorrect wiring.	Check all wiring connections for security. Inspect vehicle's fuse box for blown fuses related to headlights and replace if necessary. Verify wiring against installation instructions.
DRL not working	Incorrect wiring, vehicle setting, DRL module issue.	Ensure DRL wiring is correctly connected. Check vehicle's infotainment or settings for DRL activation.
Turn signals not flashing or incorrect color	Loose connection, incorrect wiring, vehicle flasher relay issue.	Verify turn signal wiring connections. Ensure the switchback function is receiving proper signals. Consult a professional if the issue persists.
Moisture inside headlight lens	Seal compromise, extreme temperature changes.	Small amounts of condensation may dissipate naturally. If excessive or persistent, inspect seals for damage. Contact customer support if seals appear compromised.

If these steps do not resolve the issue, please contact Morimoto customer support for further assistance.

## 8. WARRANTY AND SUPPORT

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### Warranty Information:

The Morimoto XB Hybrid LED Headlights are backed by a **5 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For full warranty terms and conditions, please visit the official Morimoto website or contact customer support.

### Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact Morimoto customer support:

- **Website:** [www.morimotohid.com](http://www.morimotohid.com)
- **Email:** Refer to the website for contact forms or email addresses.
- **Phone:** Refer to the website for current contact numbers.

When contacting support, please have your product model number (LF556.2) and proof of purchase readily

available.