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> Morimoto XB LED Taillights Instruction Manual

Morimoto LF351

Morimoto XB LED Taillights Instruction Manual

Model: LF351

Brand: Morimoto

1. PRODUCT OVERVIEW

The Morimoto XB LED Taillights are designed to provide a significant upgrade to your vehicle's lighting system, specifically for Ford Superduty models from 2017 to 2021. These taillights integrate advanced LED technology to deliver superior illumination and enhanced safety.

Key features include:

- **Bright Red Brake/Tail Lights:** Ensures high visibility for following traffic.
- **Intense White Reverse Lights:** Illuminates the area behind your vehicle for improved visibility when backing up, compatible with backup cameras.
- **Noticeable Turn Signals:** Clearly indicates your intentions to other drivers.
- **Plug and Play Installation:** Designed for straightforward integration with existing vehicle wiring.
- **Durable Construction:** Crafted from high-quality materials, including a plastic lens, and designed to be waterproof.



Figure 1.1: Morimoto XB LED Taillight installed on a Ford Superduty truck, showcasing its sleek design and bright illumination.

2. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's negative battery terminal to prevent accidental short circuits or electrical shock.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and gloves.
- **Proper Tools:** Use only the correct tools for the job.
- **Professional Installation:** If you are unsure about any step of the installation process, it is highly recommended to seek assistance from a qualified automotive technician.
- **Handle with Care:** Avoid dropping the taillight assemblies, as this can cause damage to the internal components or lens.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation. The package should contain:

- Morimoto XB LED Taillight Assemblies (Left and Right)
- Integrated Wiring Harnesses (pre-attached)

- Installation Guide (this document)

Note: Mounting hardware is typically reused from the factory taillights or integrated into the new assembly.

4. INSTALLATION INSTRUCTIONS

The Morimoto XB LED Taillights are designed for a "Plug and Play" installation, meaning they connect directly to your vehicle's existing wiring without requiring modifications. Installation typically takes approximately 30-60 minutes per side.

Tools Required:

- Phillips Head Screwdriver
- 8mm Socket
- 7mm Socket
- Ratchet

Installation Steps:

1. **Prepare Vehicle:** Park your vehicle on a level surface and engage the parking brake. Turn off the ignition and remove the key. Disconnect the negative terminal of the vehicle's battery.
2. **Access Factory Taillights:** Open the tailgate. Locate the mounting screws/bolts securing the factory taillight assembly. These are typically accessible from inside the tailgate opening or along the side of the taillight.
3. **Remove Factory Taillights:** Using the appropriate Phillips head screwdriver or sockets (8mm and 7mm are commonly used for Ford Superduty taillights), carefully remove all securing fasteners. Gently pull the taillight assembly straight back from the vehicle to disengage any alignment pins.
4. **Disconnect Wiring:** Once the taillight is loose, carefully disconnect the electrical connector(s) from the back of the factory taillight assembly.
5. **Install Morimoto XB LED Taillights:** Connect the wiring harness of the new Morimoto XB LED Taillight assembly to the vehicle's factory wiring connector. Ensure the connection is secure and fully seated.
6. **Mount New Taillights:** Align the new taillight assembly with the mounting holes and alignment pins on the vehicle. Gently push the taillight into place until it sits flush. Reinstall all securing fasteners that were removed in step 3. Do not overtighten.
7. **Repeat for Other Side:** Follow steps 2-6 for the opposite side taillight.
8. **Reconnect Battery & Test:** Reconnect the negative battery terminal. Turn on your vehicle's ignition and test all lighting functions: parking lights, brake lights, reverse lights, and turn signals. Ensure all functions operate correctly.



Figure 4.1: Rear view of the Ford Superduty with Morimoto XB LED Taillights installed and illuminated.

5. OPERATING INSTRUCTIONS

The Morimoto XB LED Taillights operate in conjunction with your vehicle's existing lighting controls. No special operation is required beyond the standard use of your vehicle's lighting system.

- **Parking/Running Lights:** Activate when your vehicle's parking lights or headlights are on.
- **Brake Lights:** Illuminate brightly when the brake pedal is pressed.
- **Reverse Lights:** Activate automatically when the vehicle is shifted into reverse gear.
- **Turn Signals:** Flash when the turn signal lever is engaged.



Figure 5.1: Detailed view of the Morimoto XB LED Taillight's illuminated pattern.

6. MAINTENANCE

Morimoto XB LED Taillights are designed for long-term durability and minimal maintenance. Follow these simple guidelines to keep them in optimal condition:

- **Cleaning:** Clean the lens with a soft cloth and mild automotive soap and water. Avoid abrasive cleaners or harsh chemicals, which can damage the lens material.
- **Inspection:** Periodically inspect the taillight assemblies for any signs of damage, loose connections, or moisture intrusion.
- **Waterproof Design:** While designed to be waterproof, avoid directing high-pressure water sprays directly at the seals for extended periods.

7. TROUBLESHOOTING

If you encounter issues with your Morimoto XB LED Taillights, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lights not illuminating	Loose electrical connection, blown fuse, incorrect installation.	Check all electrical connections for secure fitment. Inspect vehicle's fuse box for a blown fuse related to taillights and replace if necessary. Review installation steps.
Flickering lights	Loose connection, voltage fluctuation, incompatible vehicle system (rare for plug-and-play).	Ensure connections are tight. If flickering persists, consult a professional auto electrician.
Moisture inside lens	Condensation due to temperature changes, seal compromise.	Small amounts of condensation may dissipate naturally. If excessive or persistent, inspect seals for damage. Contact support if issue continues.

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

8. SPECIFICATIONS

Feature	Detail
Brand	Morimoto
Model	XB (LF351)
Compatible Vehicle Service Type	Truck (Ford Superduty 2017-2021)
Auto Part Position	Rear
Lens Color	Red
Lens Material	Plastic
Special Feature	Waterproof
Item Weight	Approximately 14 pounds (per pair)
Package Dimensions	Approximately 22 x 19 x 7 inches
UPC	840203396940

9. WARRANTY AND SUPPORT

Morimoto products are manufactured to high standards and typically come with a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the official Morimoto website or your purchase documentation.

For technical support, warranty claims, or general inquiries, please visit the official Morimoto store or contact their customer service:

- **Morimoto Official Store:** [Visit Morimoto Store on Amazon](#)

- **Manufacturer Website:** Refer to packaging or product documentation for direct website link.

When contacting support, please have your product model number (LF351) and proof of purchase readily available.

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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

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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