Morimoto Type F2

Morimoto XB LED Foglights User Manual

Model: Type F2 | Brand: Morimoto

1. INTRODUCTION

The Morimoto XB LED Foglights are designed as a direct replacement and upgrade for your vehicle's factory fog lights. These units feature high-performance LED chips and projector optics to provide superior illumination, enhancing visibility and safety. They are engineered for a plug-and-play installation, requiring no special wiring or modifications to your vehicle's existing system. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your new fog lights.

Image 1.1: Morimoto XB LED Foglights and packaging.

This image displays the Morimoto XB LED Foglights alongside their product packaging, highlighting the sleek design of the fog lights and the branding on the box.

Key features include:

- Powered by three Philips Luxeon-T 5000K LEDs, producing approximately 1200 raw lumens per side for a total of 2400 lumens.
- Projector-based optics concentrate light into a wide and perfectly distributed beam pattern.
- SAE, DOT, and ECE approved for legal on-road use.
- Durable polycarbonate lens and powder-coated cast aluminum housing for long-term resistance to wear, UV, moisture, and road debris.
- Plug-and-play design for easy installation into factory power outlets.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the Morimoto XB LED Foglights. Failure to follow these instructions may result in injury or damage to the product or vehicle.

- **Electrical Safety:** Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits or electrical shock.
- **Professional Installation:** If you are not comfortable with automotive electrical systems or vehicle disassembly, it is recommended to seek professional installation.
- **Handling:** Handle the fog lights carefully to avoid damaging the lens or internal components.
- **Heat:** The fog light housings act as heat sinks for the LEDs and may become warm during operation. Avoid touching them immediately after use.
- **Eye Protection:** Wear appropriate eye protection during installation.
- **Proper Aiming:** Ensure fog lights are aimed correctly after installation to avoid blinding oncoming drivers and to maximize their effectiveness.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 2x Morimoto XB LED Foglight Assemblies (Left and Right)
- Necessary Connectors
- Rubber Seals
- Pigtails for Plug-and-Play Installation

Image 3.1: Front view of two Morimoto XB LED Foglights.

This image shows the front perspective of two Morimoto XB LED Foglights, highlighting their clear lenses and internal projector elements.

4. INSTALLATION GUIDE

The Morimoto XB LED Foglights are designed for a straightforward plug-and-play installation. The process may vary slightly depending on your vehicle's make and model. For specific vehicle disassembly instructions, consult your vehicle's service manual or an online resource.

4.1. Pre-Installation Steps

1. **Gather Tools:** You will typically need basic hand tools such as screwdrivers, wrenches, and possibly trim removal tools.
2. **Disconnect Battery:** For safety, disconnect the negative terminal of your vehicle's battery.
3. **Access Fog Light Area:** Depending on your vehicle, this may involve removing fender liners, bumper covers,

or accessing from underneath the vehicle.

4.2. Step-by-Step Installation

1. **Remove Existing Fog Lights:** Carefully unclip or unscrew the factory fog lights from their mounting points. Disconnect the electrical connector from the back of the factory fog light. For some vehicles like the F-150, butter knives (taped to prevent scratching) can be used to unlock tabs and 'pop' them out from the front after removing the adjusting screw and spring.

2. **Connect New Fog Lights:** Take one Morimoto XB LED Foglight assembly. Connect the provided pigtail to the fog light. Then, connect the pigtail to your vehicle's factory fog light harness. Ensure the connection is secure. Note that these lights are continuity sensitive; ensure correct positive and negative wiring. For some Ford F-150 models, with the wire lock on top, the positive wire is on the left for both driver and passenger sides. Confirm polarity before fully seating wires into the plug, as removal can be difficult.

3. **Secure New Fog Lights:** Mount the Morimoto XB LED Foglight assembly into the factory fog light opening. Ensure all mounting points align and the light is securely fastened.

4. **Repeat for Other Side:** Perform steps 1-3 for the other fog light.

5. **Adjust Aim:** The aim of the fog lights can be adjusted just like stock units using the integrated adjustment mechanism. It is recommended to adjust the aim on a level surface, ensuring the beam pattern is low and wide, not pointing upwards.

6. **Reconnect Battery:** Once both fog lights are installed and secured, reconnect the negative terminal of your vehicle's battery.

7. **Test Functionality:** Turn on your vehicle's fog lights to ensure they are functioning correctly.

Image 4.1: Rear view of Morimoto XB LED Foglights.

This image displays the rear of the Morimoto XB LED Foglights, showing the integrated heat sinks and the electrical connectors for installation.

Image 4.2: Morimoto XB LED Foglights installed on a vehicle.

This image shows the Morimoto XB LED Foglights seamlessly integrated into the front bumper of a vehicle, demonstrating their appearance once installed.

5. OPERATING INSTRUCTIONS

The Morimoto XB LED Foglights operate in conjunction with your vehicle's existing fog light switch. Once installed, they will function identically to your factory fog lights.

- **Activation:** Turn on your vehicle's fog lights using the dedicated switch or control on your dashboard or steering column.
- **Beam Pattern:** These fog lights produce a super wide and low beam pattern, designed to illuminate the road directly in front of and to the sides of your vehicle, especially useful in conditions with reduced visibility such as fog, rain, or snow. They are not intended to be driving lights that project far down the road.
- **Deactivation:** Turn off your vehicle's fog lights using the same switch or control.

6. MAINTENANCE

The Morimoto XB LED Foglights are designed for durability and require minimal maintenance.

- **Cleaning:** Clean the polycarbonate lens periodically with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens.
- **Inspection:** Periodically inspect the fog lights for any signs of damage, loose connections, or debris accumulation. Ensure the housing remains free of dirt and mud to allow for proper heat dissipation.
- **No User-Serviceable Parts:** The internal LED components are not user-serviceable. Do not attempt to open the sealed housing.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Fog lights do not turn on.	Loose or incorrect electrical connection. Blown fuse in vehicle's fog light circuit.	Check all electrical connections, ensuring they are secure and correctly polarized. Refer to Section 4.2. Inspect and replace the vehicle's fog light fuse if necessary.
One fog light is not working.	Faulty connection to that specific light. Damaged light assembly.	Verify the connection to the non-functioning light. Ensure proper polarity. If connections are good, contact Morimoto support for warranty assistance.
Light output is dim or flickering.	Insufficient power supply. Loose connection.	Ensure the vehicle's electrical system is functioning correctly. Check all connections for tightness.
Condensation inside the lens.	Extreme temperature changes or high humidity. Compromised seal (unlikely due to IP67 rating).	Minor condensation may dissipate with normal operation. If persistent or excessive, contact support.

If you are unable to resolve an issue using the troubleshooting steps above, please contact Morimoto customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Morimoto XB LED Foglights:

Brand	Morimoto
Model	Type F2
Specific Uses For Product	Fog Lights
Light Source	3x Philips Luxeon-T LEDs per side
Color Temperature	5000K (Pure White)
Raw Lumens	Approx. 1200 per side (2400 total)
Wattage	9 watts
Lens Material	Polycarbonate
Housing Material	Powder-coated Cast Aluminum
Waterproof Rating	IP67 Certified
Certifications	SAE, DOT, ECE Approved
Dimensions (L x W x H)	5.4 x 9.5 x 4 inches
Item Weight	2.1 pounds

UPC	851469006061

Image 8.1: Morimoto XB LED Foglight dimensions diagram.

This technical drawing illustrates the key dimensions of the Morimoto XB LED Foglight assembly, including length, width, and height in millimeters.

9. COMPATIBILITY

The Morimoto XB LED Foglights (Type F2) are designed to fit a wide range of modern vehicle applications. These include, but are not limited to, certain models from Subaru, Honda, Acura, Ford, and Nissan.

- Known to fit 2015-2016 Ford F-150 models.
- Known to fit 2017 Ford F-150 models.

It is highly recommended to verify compatibility with your specific vehicle's make, model, and year before purchase and installation. Consult the product listing or contact Morimoto support for a comprehensive list of compatible applications.

10. WARRANTY INFORMATION

Morimoto stands behind the quality and durability of its products. The Morimoto XB LED Foglights come with a **10-Year Warranty**.

- This warranty covers defects in materials and workmanship under normal use.
- For detailed terms, conditions, and limitations of the warranty, please refer to the official Morimoto warranty policy available on their website or contact their customer support.
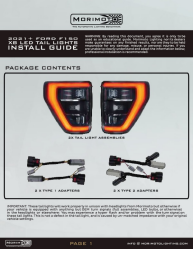- Keep your proof of purchase for warranty claims.

11. SUPPORT & CONTACT

For further assistance, technical support, or warranty inquiries regarding your Morimoto XB LED Foglights, please contact Morimoto customer service through their official channels.

- **Online Support:** Visit the official Morimoto website for FAQs, support articles, and contact forms.
- **Amazon Store:** You can also visit the Morimoto Store on Amazon for product information and seller contact options.

Related Documents

	2016+ Toyota Tacoma XB LED Headlights Installation Guide A comprehensive installation guide for the Morimoto XB LED Headlights for the 2016 and newer Toyota Tacoma models. This guide details the package contents and provides step-by-step instructions for removing factory headlights and installing the new LED units, including wiring and aiming.
	2021+ Ford F-150 XB LED Tail Lights Installation Guide by Morimoto A comprehensive installation guide for Morimoto XB LED Tail Lights for the 2021 and newer Ford F-150. This guide covers installation for OEM LED, OEM Incandescent with BLIS, and OEM Incandescent without BLIS configurations, along with instructions for installing the optional Boost Bar License Plate Light. Includes required tools and troubleshooting tips for turn signal errors.
	Morimoto XB Headlights Install Guide for 2016-2021 Honda Civic Comprehensive installation guide for Morimoto XB LED Headlights (LF2-473) for the 2016-2021 Honda Civic. Covers disassembly, installation, and aiming procedures.
	Morimoto BAF132H/BAF133H BigBanger Wire Harness Installation Guide Comprehensive installation guide for Morimoto BigBanger and BangerBar wire harnesses (models BAF132H, BAF133H), covering wiring diagrams, switch connections, fuse tap usage, and optimal routing for automotive LED lighting.

Documents - Morimoto – Type F2

[pdf] Guide Diagram

Exploded Diagrams cdr Andrew Powers baf013 guide images carid morimoto items |||
Type F2 Fog Light Bracket Assembly Designed as a direct replacement for your original fog lights. For SAE compliance and minimal glare to oncoming traffic, we recommend using the NCS Wide Beam with a -3 Degree aim. 4 5 1 2 3 4 1. **Type F2** Inner Mount 2. 4Banger Light Pod 3. **Type F2** Outer Mount 4....
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[pdf] Dimension Guide Accessories Catalog

Morimoto Headlights Catalog headlights custom aftermarket factory replacement conversions kits projector beams leds halos u bar euro sealed round rectangular daytime running lights drls fog side marker parking signal corner roof auxiliary driving hid reflector black colors bulbs CARiD 12 13 Mini D2S 3 0HID PROJECTORS Technical Info Dimensions 145mm deep 100mm wide 95mm tall Lens or 2 25 x 5 square optically clear Mounting Shaft 35mm diameter 2016 catalog images carid morimoto info lighting was established in 2008 to fill the gap for truly high quality automotive products Without budget of a major PRODUCT CATALOG WE REDEFINE THE AUTOMOTIVE AFTERMARKET FOR HIGH INTENSITY LIGHTING TABLE OF CONTEN ... n 2008-2012, Civic Hybrid 2006-2008, Fit base only 2009-2013, Insight 2010-2012 XB LED Fog Light **Type F2** : Part # 50373 **TYPE F2** APPLICATIONS: Ford: F-150 Truck 2015 57 FOG FULL HEADLIGHTS XB...
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