

## Forester SJ LED Reflector

# Subaru Forester SJ LED Reflector Tail Lamp User Manual

## 1. INTRODUCTION

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This manual provides essential information for the installation and operation of your new LED Reflector Tail Lamp for the Subaru Forester SJ series. This product is designed to replace the standard rear reflectors with LED-illuminated units, enhancing visibility and the aesthetic appeal of your vehicle. Please read these instructions carefully before installation and keep them for future reference.

## 2. SAFETY INFORMATION

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- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- If you are unsure about any part of the installation process, consult a qualified automotive technician.
- This product is intended for specific vehicle models. Verify compatibility before installation.
- Consider applying additional waterproofing to the reflector unit if operating in cold or wet climates, as the reflector itself is not manufactured in Japan and additional waterproofing is recommended for peace of mind.

## 3. PACKAGE CONTENTS

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- Coupler-on LED Reflector Set (for one vehicle)

*Note: An instruction manual is not included in the package. This document serves as a comprehensive guide.*

## 4. COMPATIBILITY

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This LED Reflector Tail Lamp is designed for the following vehicle model:

- Subaru Forester SH/SJ Series (Model Year 2013)

**Important:** Before purchasing and installing, please verify the shape of your vehicle's existing couplers and reflectors to ensure proper fitment. Compatibility may vary based on vehicle year, grade, or cold-weather specifications.

## 5. FEATURES

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- **LED Illumination:** Replaces the standard, non-illuminated rear reflectors with bright LED lights.

- **Dual Functionality:**

- Illuminates at 30% brightness when small (parking) lights are on.
- Illuminates at 100% brightness when brake lights are applied.

- **Coupler-on Design:** Features a plug-and-play wiring harness for direct connection to the vehicle's existing wiring, eliminating the need for complex wiring modifications.

- **High-Quality Components:** The wiring harness utilizes components from reputable domestic manufacturers such as Sumitomo Wiring Systems and Yazaki Corporation. Terminals are crimped using specialized dies and press machines, ensuring a secure and reliable connection comparable to genuine parts.

- **Enhanced Visibility:** Improves rear visibility of your vehicle, especially during nighttime driving or adverse weather conditions.

## 6. INSTALLATION

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Installation of this LED reflector set requires basic automotive knowledge. If you are not confident in your ability to perform the installation, it is highly recommended to seek assistance from a professional installer.

### 6.1 Preparation

1. Ensure the vehicle is turned off and the parking brake is engaged.
2. Disconnect the negative terminal of the vehicle's battery.
3. Gather necessary tools (e.g., screwdrivers, trim removal tools, wire cutters/strippers if modification is needed).

### 6.2 Removing Existing Reflectors

Locate the rear reflectors on your Subaru Forester. These are typically found on the lower part of the rear bumper. Carefully remove the existing reflectors. This may involve unscrewing fasteners or prying them out with a trim removal tool. Be gentle to avoid damaging the bumper or surrounding paintwork.



Image: The two LED reflector units provided in the set.

### 6.3 Wiring Connection

The LED reflector set features a coupler-on design for simplified wiring. Identify the corresponding wiring harness on your vehicle. Connect the provided coupler from the LED reflector to the vehicle's harness.

**車両とリフレクターの接続は  
カプラーオンなので非常に簡単です**



*Image: Detail of the coupler connection, showing the plug-and-play design.*

The harness is designed to connect directly without complex wire cutting or splicing. However, depending on your vehicle's specific configuration, it may be necessary to create a small opening or route the wiring through an existing access point to pass the reflector's wires. Ensure all connections are firm and secure.



# スバル フォレスター SJ カプラーオン LED リフレクター

*Image: An LED reflector unit showing the integrated wiring harness.*



*Image: Underside view of the reflector, illustrating the wiring and mounting points.*

## 6.4 Mounting the LED Reflectors

Once the wiring is connected, carefully insert the new LED reflectors into the bumper openings. Secure them using the original fasteners or any provided with the kit. Ensure they are flush and properly seated.

## 6.5 Final Steps

1. Reconnect the negative terminal of the vehicle's battery.
2. Test the functionality of the LED reflectors. Turn on your parking lights to check the 30% illumination. Then, press the brake pedal to verify the 100% illumination.
3. Ensure all lights are functioning correctly before driving.

*Note: The reflector itself is not manufactured in Japan. If you have concerns about water ingress, it is advisable to apply additional waterproofing during installation.*

## 7. OPERATION

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The LED reflector operates in conjunction with your vehicle's existing lighting system:

- When your vehicle's parking lights (small lights) are active, the LED reflectors will illuminate at approximately 30% of their full brightness.
- When the brake pedal is pressed, the LED reflectors will illuminate at 100% brightness, providing a clear and immediate signal to following drivers.



*Image: The LED reflector fully illuminated, demonstrating its brightness.*

## 8. MAINTENANCE

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The LED reflectors are designed for durability and require minimal maintenance. Periodically inspect the reflectors for any signs of damage, cracks, or loose connections. Clean the surface with a soft cloth and mild automotive cleaner to maintain optimal light output.

## 9. TROUBLESHOOTING

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- **Reflectors not illuminating:**
  - Check all wiring connections to ensure they are secure.
  - Verify that the vehicle's parking lights and brake lights are functioning correctly.
  - Inspect for any blown fuses related to the tail lights or brake lights.
- **Incorrect brightness (e.g., always 100% or always 30%):**
  - Recheck the wiring connections to ensure the correct wires for parking lights and brake lights are connected to the corresponding inputs on the reflector harness.

If issues persist after basic troubleshooting, it is recommended to consult a professional automotive electrician.

## 10. SPECIFICATIONS

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<b>Product Type</b>	LED Reflector Tail Lamp
<b>Model Compatibility</b>	Subaru Forester SH/SJ Series
<b>Model Year</b>	2013 (Please verify with actual vehicle)
<b>Light Source Type</b>	LED
<b>Illumination Function</b>	30% brightness (parking lights), 100% brightness (brake lights)
<b>Connection Type</b>	Coupler-on (Plug-and-play harness)
<b>Harness Components</b>	Domestic manufacturer parts (e.g., Sumitomo Wiring Systems, Yazaki Corporation)
<b>Color</b>	Red (Lens Color: Red)
<b>Special Features</b>	Waterproof (additional waterproofing recommended)
<b>Assembly Required</b>	Yes (Installation)

## 11. WARRANTY AND SUPPORT

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This product is manufactured with high-quality domestic components for the wiring harness, ensuring reliability. However, please note that the reflector unit itself is not manufactured in Japan. No specific warranty information or direct installation support is provided by the seller. For any concerns or complex installation scenarios, consulting a professional automotive technician is advised.

