AUTOGINE AUTOGINE-1157-144W4

AUTOGINE 1157/BAY15D LED Bulb Instruction Manual

Brand: AUTOGINE | Model: AUTOGINE-1157-144W4

1. Introduction

Thank you for choosing AUTOGINE 1157/BAY15D LED Bulbs. These high-performance LED bulbs are designed to provide superior brightness and longevity for various automotive lighting applications. This manual provides essential information regarding the product's specifications, features, installation, and troubleshooting.



Image: Two AUTOGINE 1157/BAY15D LED bulbs, showcasing their design and the product packaging.

2. Specifications

The AUTOGINE 1157/BAY15D LED bulbs are engineered with advanced technology to deliver optimal performance. Key specifications are detailed below:

Attribute	Value
Base Type	1157/BAY15D

Attribute	Value
LED Quantity	144 LEDs (3014 SMD)
Lighting Output (High Intensity)	1400 lumens/bulb
Lighting Output (Low Intensity)	500 lumens/bulb
Color Temperature	6500K Xenon White
Working Voltage	9V-30V DC
Wattage (Bright)	6.5W
Wattage (Dim)	1W
Length	2.1 inches (53mm)
Diameter	0.85 inches (18mm)
Lifespan	30,000+ Working Hours
Housing Material	Full Aluminum
Current	550 Milliamps



Image: A visual representation of the product's technical specifications, including base type, luminous flux, LED type, operating voltage, lifespan, color temperature, LED count, current, and polarity sensitivity.

3. Product Features

These LED bulbs incorporate several features designed for superior performance and durability:

- **High Brightness Output:** Each bulb delivers 1400 lumens in high-intensity mode and approximately 500 lumens in dim mode, providing a significant brightness difference for various lighting needs.
- **Advanced LED Chipsets:** Equipped with 144 pieces of high-power 3014 EX-chipsets per bulb, combined with a projector lens, resulting in up to 300% brighter illumination compared to standard halogen bulbs.
- **Efficient Heat Dissipation:** Constructed with a full aluminum housing, which ensures excellent heat dissipation, contributing to a longer lifespan for the bulbs.
- **Stable Performance:** Features a built-in Constant Current IC (Integrated Circuit) for stable input current, preventing

flickering and ensuring consistent light output. This also helps prevent digital and VHF signal interference.

- **Wide Voltage Compatibility:** Designed to operate efficiently within a 9V-30V DC range, making them suitable for a broad range of vehicle electrical systems.
- **360° Beam Angle:** Provides comprehensive light distribution for effective illumination.



Image: A detailed diagram illustrating the dimensions of the LED bulb, the 144 high-power LED chips, the Constant Current IC for stable input, and the standard 1157/BAY15D bayonet base.

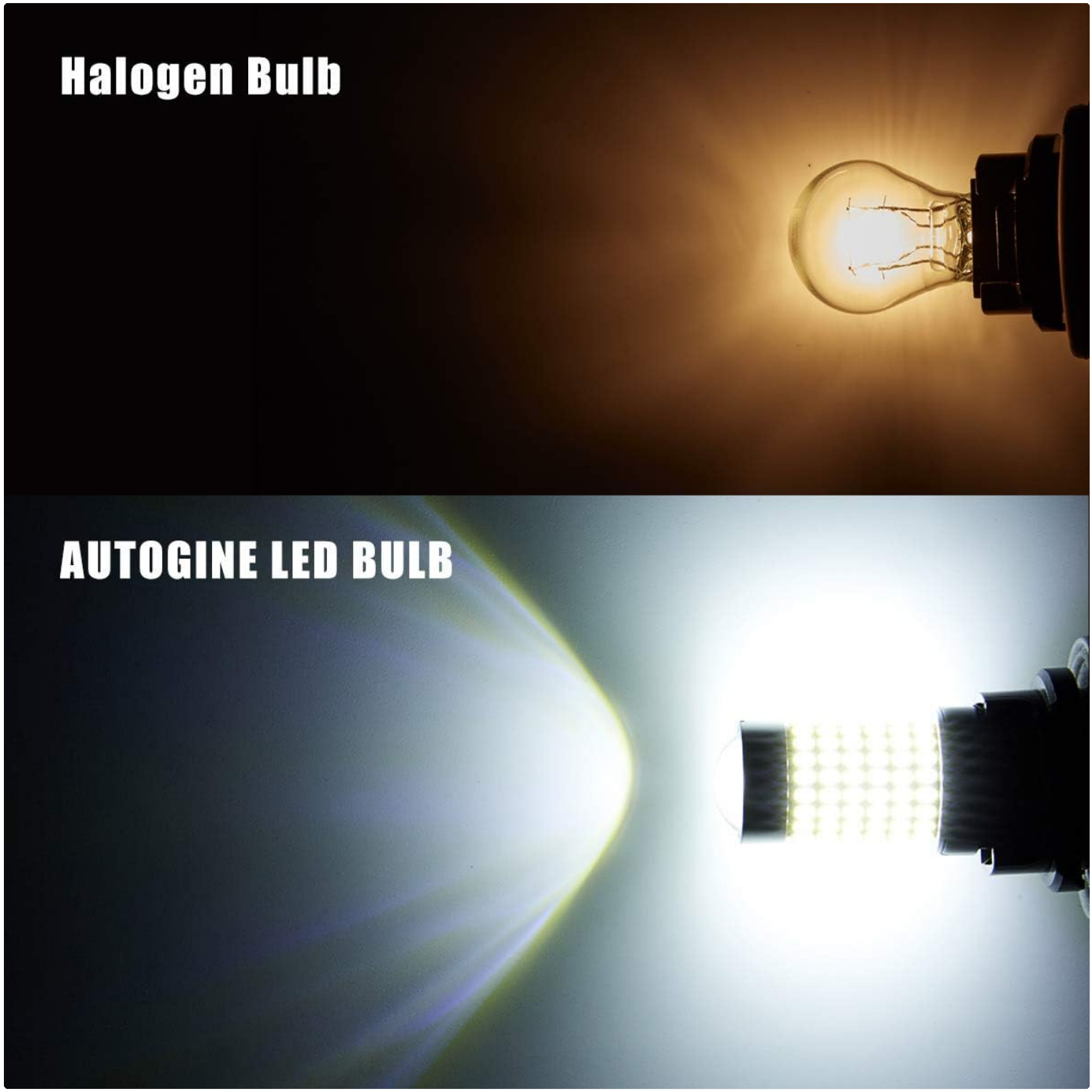


Image: A visual comparison demonstrating the significant difference in brightness and light quality between a standard halogen bulb and an AUTOGINE LED bulb.

4. Setup and Installation

The AUTOGINE 1157/BAY15D LED bulbs are designed for a straightforward plug-and-play installation process. Follow these general steps:

1. **Verify Compatibility:** Before installation, confirm that your vehicle uses 1157/BAY15D type bulbs for the intended application. Refer to your vehicle's owner's manual or the original bulb size to ensure compatibility.
2. **Safety First:** Ensure the vehicle's ignition is off and the lights are cool to the touch before beginning installation.
3. **Locate Bulb Socket:** Access the bulb socket for the light you intend to replace (e.g., backup, tail, brake light). This typically involves opening the trunk, accessing the taillight assembly, or removing specific trim panels.
4. **Remove Old Bulb:** Carefully twist or pull out the old bulb from its socket.

5. **Insert New LED Bulb:** Insert the AUTOGINE LED bulb into the socket. Ensure it is seated firmly and correctly. The 1157/BAY15D base has offset pins, so align them properly.
6. **Test Functionality:** Turn on your vehicle's ignition and test the newly installed LED bulb to ensure it functions correctly.

Important Note: When handling the LED bulbs, avoid touching the LED chips directly to prevent damage or transfer of oils from your skin.

5. Operating Instructions

Once installed, the AUTOGINE 1157/BAY15D LED bulbs operate automatically with your vehicle's lighting system. They are designed for the following applications:

- **Backup Lights / Reverse Lights:** Provides powerful illumination when the vehicle is in reverse, enhancing visibility for the driver and alerting others.
- **Tail Lights:** Functions as a standard tail light, providing rear visibility.
- **Brake Lights:** Activates with increased brightness when the brake pedal is pressed, signaling deceleration to following vehicles.
- **Parking Lights:** Provides illumination when the parking lights are engaged.
- **DRL / Day Time Running Lights:** Can be used as daytime running lights where applicable, increasing vehicle visibility during daylight hours.

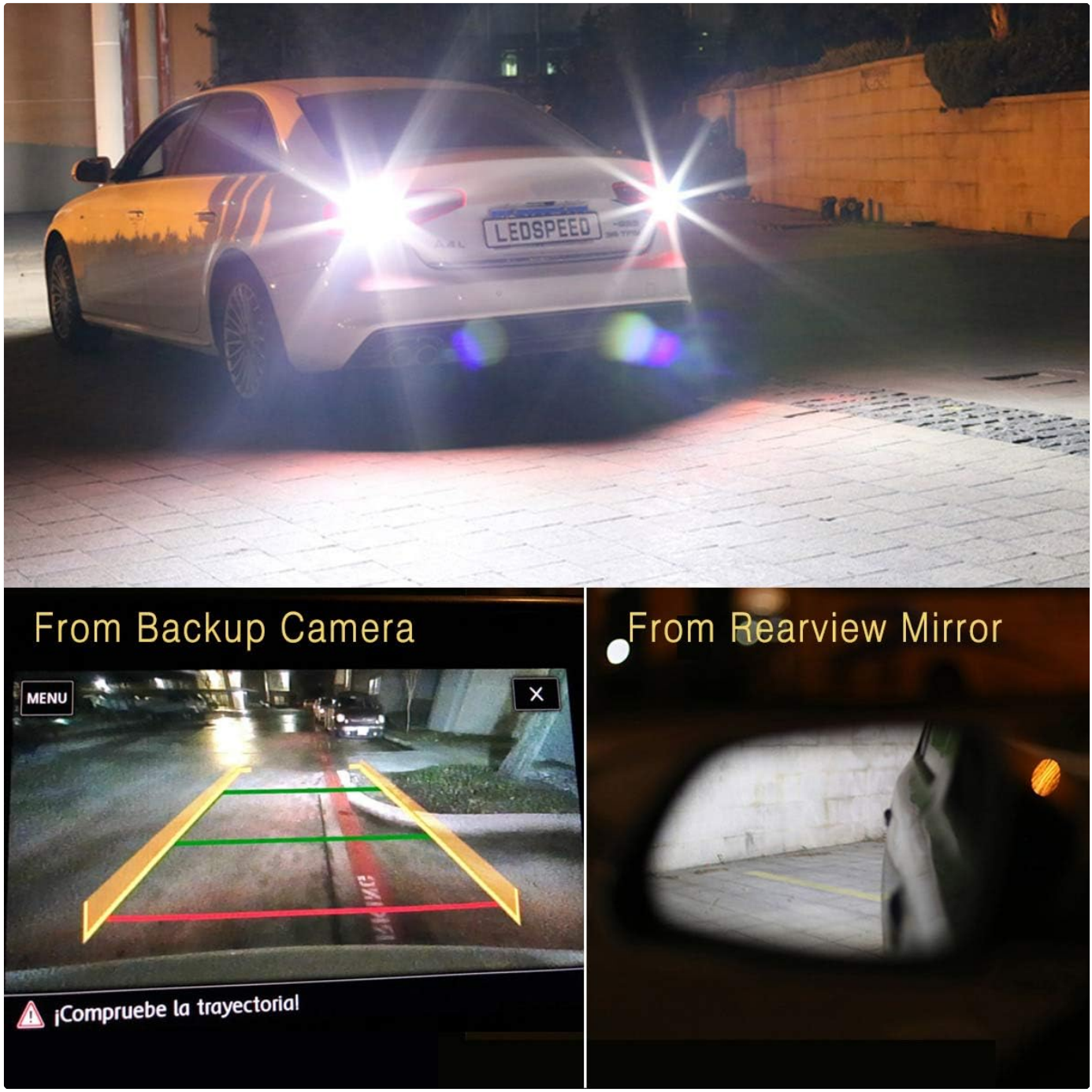


Image: Demonstrates the real-world effect of the bright LED reverse lights from various perspectives, including a car's exterior, a backup camera display, and a rearview mirror view.



Image: A collage showcasing the effective light distribution and brightness of the LED bulbs in various nighttime scenarios, highlighting their performance as reverse lights.

6. Maintenance

AUTOGINE LED bulbs are designed for a long operational life of over 30,000 working hours, significantly outlasting traditional halogen bulbs. Due to their solid-state design and robust construction, these LED bulbs require minimal maintenance. No regular cleaning or replacement of internal components is necessary.

To ensure optimal performance and longevity:

- Avoid exposing the bulbs to extreme physical shock or impact.

- Ensure proper installation to prevent loose connections.
- Keep the bulb's surface clean from excessive dirt or debris, though this is typically handled by the vehicle's light housing.

7. Troubleshooting

While AUTOGINE LED bulbs are designed for reliable performance, certain issues may arise, particularly when replacing incandescent bulbs with LEDs in some vehicle systems:

Hyper Flash or No Flash (Turn Signal Application)

Issue: When using these LED bulbs as turn signals, you might experience a rapid flashing (hyper flash) or no flashing at all. This occurs because LED bulbs draw significantly less power than traditional halogen bulbs, causing the vehicle's flasher relay to detect a

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