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Alla Lighting 2504/PSX24W

Alla Lighting 2504/PSX24W LED Fog Light Bulbs User Manual

Model: 2504/PSX24W (Alla-5730-2504-33W-White)

Brand: Alla Lighting

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1. PRODUCT OVERVIEW

The Alla Lighting Super Bright 2504 PSX24W LED Fog Lights Bulbs are designed to provide superior illumination for your vehicle's fog lights or daytime running lights (DRL). These bulbs feature high-quality 5730 SMD LED chips, offering a 360-degree full light output with a 6000K xenon white color temperature for enhanced visibility and a modern aesthetic.

Key Features:

- **High Illumination:** Equipped with 33pcs high power 5730 SMD LED chips per bulb, providing approximately 1400 lumens per bulb (2800 lumens total per set).
- **Easy Installation:** Designed for plug-n-play installation with a PG20/7 base socket.
- **Durable Design:** Features an aviation aluminum heat sink for fast cooling and a high-quality projector lens.
- **Waterproof:** IP67 rated for reliable performance in various weather conditions.
- **Non-Polarity:** Simplifies installation by eliminating concerns about correct electrical orientation.
- **Wide Voltage Range:** Operates efficiently within 9V~18VDC.



Figure 1.1: Alla Lighting 2504 PSX24W LED Fog Light Bulbs (Set of 2).

2. SETUP & INSTALLATION

These LED fog light bulbs are designed for a straightforward plug-n-play installation. No complex wiring or additional resistors are typically required. Always ensure your vehicle is turned off and cooled down before beginning installation.

2.1 Compatibility Check

Before installation, verify the correct bulb size for your vehicle. You can typically do this by:

1. Consulting your vehicle's owner's manual.
2. Checking the OEM bulb's part number.
3. Using online vehicle compatibility tools.



Figure 2.1: Methods for verifying correct bulb size for your vehicle.

2.2 Installation Steps

Follow these general steps for installing your new LED fog light bulbs:

1. **Access the Bulb:** Depending on your vehicle model, you may need to access the fog light bulb from behind the bumper, through the wheel well, or by removing part of the fender liner.
2. **Disconnect Wiring:** Carefully pinch the side tabs of the existing bulb's connector and pull to disconnect it from the old bulb.
3. **Remove Old Bulb:** Twist or unclip the old halogen bulb from its housing and remove it.
4. **Install New LED Bulb:** Insert the new Alla Lighting LED bulb into the housing. Ensure it is seated correctly and securely.
5. **Connect Wiring:** Plug the vehicle's wiring harness into the new LED bulb. You should hear a "click" indicating a secure connection.
6. **Test Functionality:** Before reassembling any removed parts, turn on your vehicle's fog lights to ensure the new LED bulbs are functioning correctly.

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Video 2.1: Official Alla Lighting installation guide for LED fog light bulbs. This video demonstrates the plug-n-play installation process, including disconnecting the old bulb, replacing it with the new LED bulb, and reconnecting the wiring harness.



Figure 2.2: Diagram illustrating the internal components and robust construction of the LED bulb, including the aluminum heat sink and projector lens.

3. OPERATION

Alla Lighting LED fog light bulbs are designed to provide a bright, clear, and consistent light output for improved driving visibility.

3.1 Light Performance

These bulbs emit a 6000K xenon white light, which is a crisp, bright white color. This color temperature is ideal for cutting through fog, rain, and snow, and also provides a modern look for daytime running lights.



Figure 3.1: Example of a vehicle illuminated with Alla Lighting LED fog lights, showcasing their bright, white output.



Figure 3.2: Direct comparison illustrating the significant brightness and color temperature difference between Alla Lighting LED bulbs and standard OEM halogen bulbs.

3.2 Applications

These bulbs are primarily used for upgrading:

- **Fog Lights:** To improve visibility in adverse weather conditions.
- **Daytime Running Lights (DRL):** To enhance vehicle visibility to other drivers during daylight hours.



Figure 3.3: Overview of various applications for Alla Lighting bulbs, highlighting their versatility beyond just fog lights.

4. MAINTENANCE

Alla Lighting LED bulbs are designed for long-term, maintenance-free operation. Due to their solid-state design and efficient cooling, they have a significantly longer lifespan compared to traditional halogen bulbs.

- **Cleaning:** If necessary, gently wipe the exterior of the bulb with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Waterproof Design:** The IP67 waterproof rating ensures the bulbs are protected against dust and temporary immersion in water, reducing the need for specific weather-related maintenance.
- **Expected Lifespan:** These bulbs are rated for an operating life of approximately 30,000 hours, far exceeding the typical 500-hour lifespan of halogen bulbs.

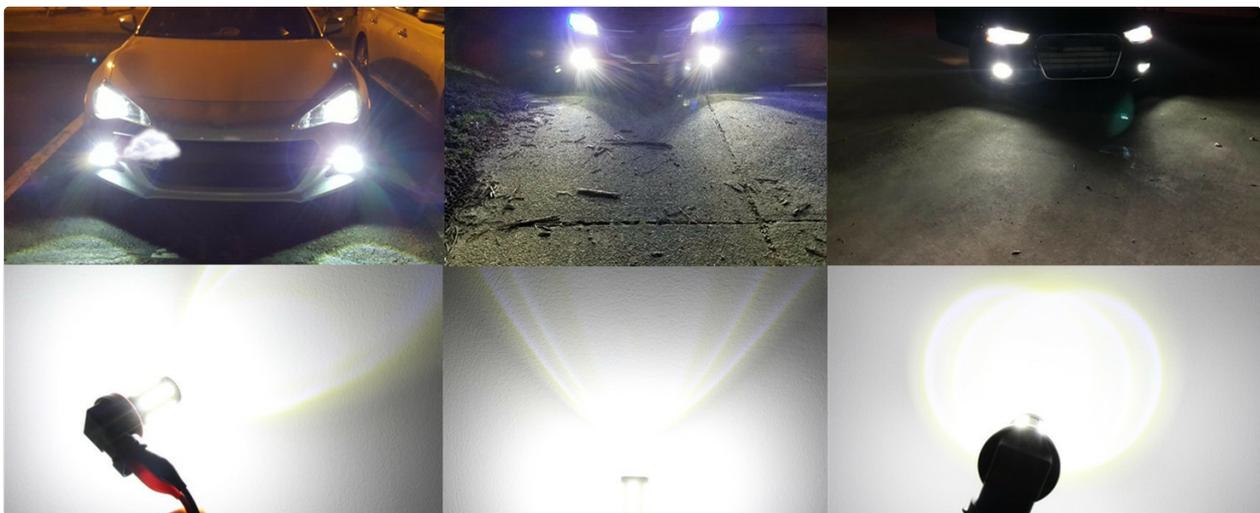


Figure 4.1: Illustration highlighting the waterproof design of Alla Lighting LED bulbs, ensuring durability in wet conditions.

3 WAYS TO CHECK BULB SIZE GUIDE



1 / AMAZON BULB SIZE GUIDE



2

CHECK OEM BULB'S PART NO



3 / CHECK OWNER'S REPLACEMENT BULB'S GUIDE



Figure 4.2: Visual comparison demonstrating the significantly longer lifespan of Alla Lighting LED bulbs (30,000 hours) versus traditional halogen bulbs (500 hours).

5. TROUBLESHOOTING

Alla Lighting LED fog light bulbs are designed for reliable performance. If you encounter any issues, consider the following common troubleshooting steps:

• Bulb Not Lighting Up:

- Ensure the electrical connector is fully seated and clicked into place.
- Verify the vehicle's fog light circuit is receiving power. Check fuses if necessary.
- Although these bulbs are non-polarity, double-check the connection.

• Flickering or Error Messages:

- Most modern vehicles have CANBUS systems that may detect lower power draw from LEDs as a fault. While these bulbs are designed to minimize this, some sensitive vehicles might require an additional load resistor (decoder) to prevent flickering or dashboard error messages. This is not common for fog lights but can occur.

• Loose Fitment:

- Ensure the bulb is securely twisted or clipped into the housing. If the fit is slightly loose, a small amount of electrical tape around the base (avoiding the electrical contacts) can sometimes help secure it, but ensure it does not interfere with heat dissipation.

If issues persist after these steps, please contact Alla Lighting customer support for further assistance.

6. SPECIFICATIONS

Attribute	Value
Model Number	Alla-5730-2504-33W-White
Bulb Type	LED Fog Lights Bulbs
Cross Reference Number	2504, PSX24W, 12276
LED Chips	33pcs 5730 SMD
Brightness	2800 Lumens (total for both bulbs)
Color Temperature	6000K Xenon White
Operating Voltage	9V~18VDC
Working Power	6.5W/bulb
Waterproof Rating	IP67
Operating Life	30,000 Hours
Base Socket	PG20/7
Product Dimensions	2.2 x 0.71 x 1.34 inches
Item Weight	2 ounces



PSX24W
2504



Product size



super bright



waterproof



good quality



RoSH



Figure 6.1: Detailed product dimensions for the Alla Lighting 2504/PSX24W LED bulb.

7. WARRANTY & SUPPORT

Alla Lighting is committed to providing high-quality products and excellent customer service.

7.1 Warranty Information

These Alla Lighting LED fog light bulbs come with a **One-Year Manufacturer Defect Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Alla Lighting customer support. As a USA-located company with headquarters in Chino, CA, and a sub-branch in Dallas, TX, Alla Lighting is dedicated to providing professional technical support.

You can find more information and contact details by visiting the official Alla Lighting Store:

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