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Alla Lighting Alla-WT21/7W-5730-33W-White

Alla Lighting WT21/7W WTY21W/7W LED Bulbs Instruction Manual

Model: Alla-WT21/7W-5730-33W-White

INTRODUCTION

This instruction manual provides essential information for the safe and effective use of Alla Lighting WT21/7W and WTY21W/7W LED Bulbs. These bulbs are designed as super bright replacements for rear brake, tail, and turn signal lights in various automotive applications. Please read this manual thoroughly before installation and operation to ensure proper functionality and longevity of the product.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to the vehicle's electrical system.
- Wear appropriate personal protective equipment, such as gloves and eye protection, during installation.
- Ensure the bulbs are compatible with your vehicle's specific make, model, and year before installation. Refer to your vehicle's owner's manual for correct bulb types.
- Handle LED bulbs by their base to avoid touching the LED chips, which can be sensitive to oils and dirt.
- Do not attempt to modify the bulbs or their wiring. Unauthorized modifications can void the warranty and pose safety risks.
- If you are unsure about the installation process, seek professional assistance from a qualified automotive technician.

PRODUCT OVERVIEW

The Alla Lighting WT21/7W LED Bulbs are engineered for high illumination and durability. Each bulb features 33 pieces of 5730 LED chips and a projector lens, providing a total of 1400 lumens per bulb. They are designed with a dual filament WZX2.5x16q base for direct replacement.

Key Features:

- **High Brightness:** 1400 lumens per bulb, equipped with 33 pieces of 5730 LED chips for superior light output.

- **Advanced Design:** Features a built-in USA-made IC driver and capacitors for efficient heat dissipation and extended lifespan.
- **Durable Construction:** Made with 6063 aviation aluminum material for optimal cooling.
- **Wide Voltage Range:** Operates on 12V to 24V systems.
- **Waterproof Rating:** IP67 rated for resistance against water and dust.
- **Direct Replacement:** Designed for plug-and-play installation, replacing WT21W/7W, WT21/7W, WTY21/7W incandescent bulbs.

Product Components and Design:



Image: The product packaging and two Alla Lighting WT21/7W LED bulbs, highlighting the 1-year warranty.



Image: An exploded diagram showing the internal components of the LED bulb, including the flame-retardant socket connector, constant current circuitry, aviation #6063 aluminum heatsink, 5730 high power LEDs, and projector lens.



Image: Detailed measurements of the LED bulb (2.36 inches total length, 1.89 inches LED section) and a close-up of the #6063 aluminum heatsink, emphasizing fast cooling and no overheat issues.

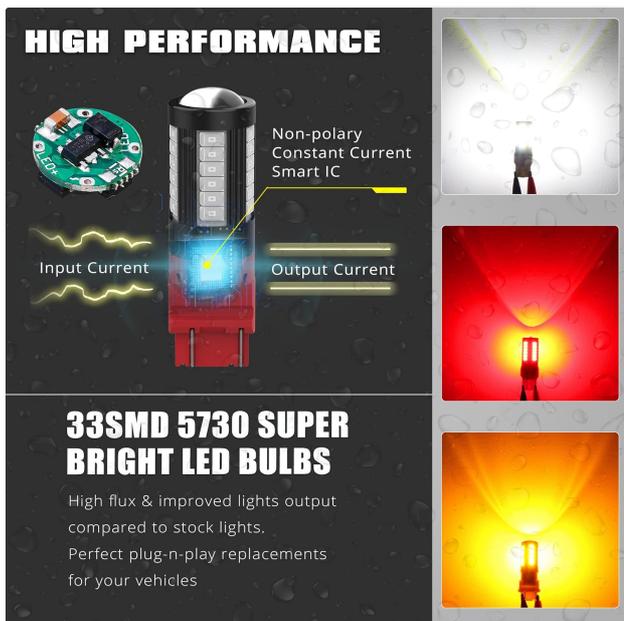


Image: Illustration of the non-polar constant current smart IC, showing stable input and output current, alongside examples of white, red, and amber light output from the 33SMD 5730 super bright LED chips.



Image: Three variations of the WT21/7W LED bulbs (red, white, and amber) displayed against a car background, highlighting features like full aluminum heatsink, CK compatibility, high power LED chips, and direct installation.

INSTALLATION GUIDE

These LED bulbs are designed for a plug-and-play installation, meaning no complex wiring or modifications are typically required. However, some vehicles may require additional steps to ensure optimal performance.

1. **Preparation:** Ensure your vehicle is turned off and the ignition key is removed. Disconnect the negative terminal of the vehicle's battery for safety.
2. **Locate Bulb Housing:** Identify the rear brake, tail, or turn signal light housing on your vehicle. Consult your vehicle's owner's manual for specific locations and access procedures.
3. **Remove Old Bulb:** Carefully twist or unclip the existing incandescent bulb from its socket. Gently pull the old bulb out.
4. **Insert New LED Bulb:** Insert the Alla Lighting WT21/7W LED bulb into the socket. Ensure it is seated firmly and correctly. These bulbs are non-polar, so the orientation typically does not matter.
5. **Test Functionality:** Reconnect the vehicle's battery. Turn on your vehicle and test the brake lights, tail lights, and turn signals to ensure the new LED bulbs are functioning correctly.
6. **Secure Housing:** Once confirmed working, reassemble the light housing and any removed panels.

Important Note on Hyperflash: Due to the lower power consumption of LED bulbs compared to incandescent bulbs, some vehicles may experience "hyperflash" (rapid blinking of the turn signals) or display error codes. This is a common issue and does not indicate a faulty bulb. To resolve this, extra load resistors (not included) may be required, or the vehicle's computer system (e.g., using FORScan for Ford vehicles) may need to be reprogrammed to recognize the LED bulbs. Consult a professional if you encounter hyperflash and are unsure how to proceed.

OPERATING INSTRUCTIONS

Once installed, the Alla Lighting WT21/7W LED Bulbs operate automatically with your vehicle's existing lighting system. They will illuminate when the corresponding function (brake, tail, or turn signal) is activated.

- **Brake Lights:** The bulbs will illuminate brightly when the brake pedal is pressed.

- **Tail Lights:** The bulbs will illuminate at a lower intensity when the vehicle's headlights or parking lights are on.
- **Turn Signals:** The bulbs will flash when the turn signal lever is engaged.

These bulbs are designed to provide consistent and bright illumination, enhancing visibility and safety on the road.

MAINTENANCE

Alla Lighting LED bulbs are designed for long-term, maintenance-free operation. Follow these general guidelines to ensure their longevity:

- **Cleaning:** If necessary, gently wipe the bulb's surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Inspection:** Periodically check the bulbs for any signs of damage or loose connections.
- **Environmental Factors:** While IP67 rated, extreme temperatures or prolonged exposure to harsh chemicals can affect lifespan.

Do not attempt to disassemble the bulbs, as this will void the warranty and may damage the product.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bulb does not light up.	Incorrect installation, loose connection, or vehicle fuse issue.	Ensure the bulb is fully seated in the socket. Check vehicle fuses related to the lighting circuit. Verify correct voltage supply.
Turn signals hyperflash (blink rapidly).	Lower power consumption of LED bulbs compared to incandescent bulbs, causing the vehicle's system to detect a "bulb out" error.	Install external load resistors (not included) in parallel with the LED bulbs, or use a vehicle-specific LED flasher relay. Alternatively, some vehicles can be reprogrammed via software (e.g., FORScan for Ford).
Error message on dashboard.	Vehicle's CANBUS system detects a change in resistance or current draw.	Similar to hyperflash, this often requires load resistors or CANBUS-compatible decoders. Ensure the bulbs are correctly installed.
Bulb flickers or dims.	Unstable voltage, loose connection, or incompatible vehicle electrical system.	Check connections for tightness. Ensure vehicle voltage is stable (12V-24V). If issues persist, consult a professional.

SPECIFICATIONS

Attribute	Detail
Model Number	Alla-WT21/7W-5730-33W-White
Bulb Type	WT21/7W, WTY21W/7W (Dual Filament)
LED Chip Type	33 pieces 5730 LED chips

Attribute	Detail
Lumen Output	1400 lumens per bulb (2600 lumens total for a pair)
Color Temperature	6000K Xenon White
Working Power	8.5W
Voltage	12V ~ 24V
Waterproof Rating	IP67
Operating Life	30,000 Hours
Dimensions (approx.)	2.44 x 0.7 x 1.34 inches
Weight (approx.)	1.44 ounces
Cross Reference Numbers	WT21W/7W, WT21/7W, WTY21/7W
Applications	Turn signal blinker light, brake light, taillights, tail light lamps, rear side marker lights.

WARRANTY AND SUPPORT

Alla Lighting provides a **one-year warranty** for these WT21/7W LED Bulbs from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

For technical assistance, troubleshooting, or warranty claims, please contact Alla Lighting customer support. Lifetime technical support is available from USA-based support.

Contact Information: Please refer to the Alla Lighting official website or your purchase documentation for the most current contact details.

