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WEELMOTO TYTD14

WEELMOTO Headlights for 2014-2021 Toyota Tundra Instruction Manual

Model: TYTD14

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your new WEELMOTO Headlight Assemblies. These headlights are designed as a direct replacement for specific Toyota Tundra models, ensuring optimal performance and fitment when installed correctly.

1.1. Compatibility

- **Vehicle Models:** 2014-2021 Toyota Tundra
- **OEM Part Numbers:** 81150-0C101, 81110-0C101
- **ABPA Partslink Numbers:** TO2502220, TO2503220

1.2. Important Compatibility Notes

These headlights are NOT COMPATIBLE with the following models:

- Toyota Tundra models equipped with an adjustable headlight leveling dial or buttons.
- Toyota Tundra models with factory LED DRL (Daytime Running Light) strips.

Please verify your vehicle's specifications before proceeding with installation.

Check your original lights

YES



**Fits 14-21 Tundra with
no factory LED strip or
level adjuster motor ONLY**

**Same Year,
Two Different Types!**

NO



LED



**Does NOT fit models
with factory LED strips**

Image 1.1: Compatibility check for original headlights. The left image shows a compatible headlight without an LED strip or level adjuster motor. The right image shows an incompatible headlight with an LED strip.

Not Compatible

This headlight will NOT fit vehicles with a **headlight leveling motor or dial**. If your car has this dial, the headlight's rear design differs and cannot be installed.



Image 1.2: An example of an incompatible headlight leveling dial on a vehicle dashboard.

2. PACKAGE CONTENTS

Upon opening the package, please ensure all components are present and undamaged. The package should contain:

- One (1) Driver Side Headlight Assembly
- One (1) Passenger Side Headlight Assembly

Note: Bulbs are not included with these headlight assemblies. Please use your vehicle's existing stock bulbs (HB2 type) for installation.

3. SETUP AND INSTALLATION

The WEELMOTO Headlight Assemblies are designed for a plug-and-play installation. However, some vehicle-specific variations may require minor adjustments. Always ensure the vehicle is turned off and the battery is

disconnected before beginning any electrical work.

3.1. Installation Steps

1. **Prepare the Vehicle:** Remove the front grille. Locate and unbolt the screws, clips, or retainer springs that secure the existing headlight assembly. These fasteners are typically found at the top and bottom of the headlight unit.
2. **Remove Old Headlight:** Carefully disconnect the electrical wiring harness from the stock headlight and then detach the old headlight assembly from the vehicle.
3. **Install New Headlight:** Position the new WEELMOTO headlight assembly into the vehicle's headlight opening. Ensure it fits securely in place.
4. **Connect Wiring:** Reconnect the electrical wiring harness to the new headlight assembly. Verify all connections are secure. Ensure all screws, clips, or retainer springs are properly sealed and tightened.
5. **Reassemble:** Reinstall the front grille and secure it in place.



Credit to WEELMOTO™ Technical Center

Image 3.1: A visual guide to installation steps and beam adjustment.

3.2. Potential Fitment Considerations

Based on user feedback, some 2014 Toyota Tundra models may require minor modifications for optimal fitment:

- **Rear Housing Rib:** An extra rib on the new headlight's rear housing might interfere with a vehicle mounting tab. This may require careful trimming of the rib to allow the tab to slide and latch correctly.
- **Upper Mounting Hole:** The upper mounting hole on the new headlight might be slightly undersized. It may need to be drilled slightly larger to accommodate the vehicle's mounting hardware.
- **Level Adjuster:** If your vehicle has an electronic level adjuster, you can remove it from your old headlight and swap it onto the new assembly. A mounting screw boss on the new headlight might need to be ground down to allow proper seating of the electronic actuator.
- **Corner Marker Light:** The design of the corner marker light hole may allow the light to spin freely instead of stopping at a fixed point. Ensure it is securely seated to prevent rattling.

Proceed with caution and consult a professional if you are unsure about performing these modifications.

4. OPERATING AND ADJUSTMENT

Your WEELMOTO Headlight Assemblies are pre-adjusted at the factory for standard beam patterns. Manual adjustment is generally not required. However, if you observe an unsatisfactory light pattern, you can adjust the

beam angle.

4.1. How to Adjust Your Headlights

1. **Position Vehicle:** Park your vehicle on a level surface approximately 25 feet (7.6 meters) in front of a flat wall.
2. **Mark Reference Points:** Mark the center points of each headlight on the wall using tape.
3. **Isolate Headlights:** Block one headlight (e.g., with a towel) to focus on adjusting the other.
4. **Locate Adjustment Screws:** Open the hood and locate the adjustment screws on top of each bulb housing.
5. **Adjust Beam:** Turn the adjustment screws as needed until the low beam line is horizontal and the high beam's brightest spot is centered on the 'X' mark you made on the wall.
6. **Repeat:** Repeat the process for the other headlight.

Caution: Do NOT adjust the regulator more than three times in either a clockwise or counter-clockwise direction to prevent damage to the adjustment mechanism.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your WEELMOTO Headlight Assemblies. These headlights are constructed with high-durability materials designed to withstand various environmental conditions.

5.1. Durability Features

- **Impact Tested:** Designed to pass drop, vibration, rain, ultraviolet radiation, sand, and dust spray tests.
- **Temperature Resistant:** Engineered for performance in temperatures ranging from -22°F to 140°F.
- **UV Coating:** Exterior features a UV coating to resist aging and yellowing from sun exposure.
- **Waterproof:** Designed to prevent moisture ingress.

HIGH DURABILITY

- ANTI-HEAT
- ANTI-UV-AGING
- ANTI-FREEZING



-22°F TO 140°F EXCEEDING ALL REGULATIONS

Image 5.1: High durability features of the headlight assembly, including resistance to extreme temperatures.

5.2. Preventing and Addressing Condensation

It is normal for headlight lenses to exhibit temporary misting or fogging due to differences in temperature, air pressure, and other weather conditions. Your headlights are equipped with one-way vents to manage this.

To drive away temporary condensation:

1. **Check Vents:** Ensure the one-way vents on the headlight housing are not blocked.
2. **Activate Lights:** Turn on your vehicle's low beams for approximately 20 minutes. The heat generated by the bulbs can help dissipate moisture.
3. **Manual Drying (if persistent):** If condensation persists, carefully remove the bulbs and clear any visible mist. Placing a silica gel packet inside the housing temporarily can also help absorb moisture.

5.3. Bulb Compatibility Reminder

Safety Reminder: Do NOT directly replace the original halogen bulbs with LED bulbs in these assemblies. These headlights are designed for halogen bulbs, and installing incompatible LED bulbs can lead to improper light patterns, reduced visibility, and potential damage to the headlight unit or vehicle's electrical

system.



Image 5.2: Important safety reminder regarding bulb compatibility.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your headlight assemblies.

6.1. Headlights Not Functioning

- **Check Connections:** Ensure all electrical connectors are securely plugged into the headlight assembly and the vehicle's wiring harness.
- **Inspect Bulbs:** Verify that the stock bulbs are correctly installed and not burnt out. Replace if necessary.
- **Fuse Check:** Consult your vehicle's owner's manual to locate and check the relevant headlight fuses. Replace any blown fuses.
- **Vehicle Compatibility:** Reconfirm that your vehicle is compatible with these headlight assemblies (refer to Section 1.2).

6.2. Condensation Inside Headlight

As mentioned in Section 5.2, temporary condensation is normal. If it persists or is excessive, follow the steps outlined in "Preventing and Addressing Condensation" in Section 5.2.

6.3. Improper Light Pattern

If the light beam appears misaligned or unsatisfactory, refer to Section 4.1, "How to Adjust Your Headlights," for detailed adjustment procedures.

7. SPECIFICATIONS

Feature	Detail
Brand	WEELMOTO
Model	TYTD14 (Toyota Tundra)
OEM Part Numbers	81150-0C101, 81110-0C101

ABPA Partslink Numbers	TO2502220, TO2503220
Vehicle Service Type	2014-2021 Toyota Tundra (Excluding models with adjustable leveling dial/buttons or factory LED DRL)
Color	Clear Lens, Chrome Housing, Amber Reflector
Lens Color	Crystal Clear
Lens Material	Polycarbonate
Wattage	60 watts
Auto Part Position	Front Outside
Special Features	High Beam, Low Beam, Waterproof
Assembly Required	No (Bulbs not included)
Item Weight	12.82 pounds
Package Dimensions	22 x 18 x 15 inches

8. WARRANTY AND SUPPORT

WEELMOTO stands behind the quality of its products.

8.1. Warranty Information

These headlight assemblies come with a **3-year warranty period** from the date of purchase, covering manufacturing defects and material failures under normal use.

8.2. Customer Support

For any questions, concerns, or warranty claims, WEELMOTO offers dedicated 1-to-1 customer service. If you need to return the product for any reason, please contact WEELMOTO directly through the retailer's platform (e.g., by clicking on the 'WEELMOTO' store link and then 'Ask a question') to facilitate the process and avoid additional charges.