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TMH TMH-25LED-R

TMH 6-Inch Oval Arrow LED Red Tail Lights (2-Pack) Instruction Manual



Figure 1: Overview of TMH 6-Inch Oval Arrow LED Red Tail Lights.

1. INTRODUCTION

Thank you for choosing TMH 6-Inch Oval Arrow LED Red Tail Lights. This manual provides essential information for the safe and correct installation, operation, and maintenance of your new lights. Please read these instructions thoroughly before installation and retain this manual for future reference. These lights are designed for use as tail lights and turn signals on various vehicles including trucks, trailers, buses, and dump trucks, operating on a 12V DC system.



Image 1.1: TMH 6-Inch Oval Arrow LED Red Tail Lights. This image displays two red oval LED lights, each featuring an arrow pattern. Four mounting screws are visible in the foreground.

Each light features 25 super bright F3 Piranha LEDs arranged in an arrow pattern, providing clear visibility and signaling.

NUMBER OF LED **25 PIECE**

A UNIQUE ARROW TURN SIGNAL FUNCTION



THE LIGHT PROVIDES BRIGHTNESS WITH **F3 PIRANHA LED**

Image 1.2: LED Count and Arrow Pattern. This image provides a close-up view of the light's lens, clearly showing the 25 individual F3 Piranha LEDs arranged to form a distinct arrow shape.



Image 1.3: F3 Piranha LED. This image shows a detailed view of the F3 Piranha LED component used in the lights, known for its brightness and durability.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or short circuits.
- Ensure all wiring connections are secure and properly insulated to prevent corrosion and electrical faults.
- Verify that the operating voltage of your vehicle is 12V DC. Connecting to an incorrect voltage may damage the lights.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Do not modify the lights or their components. Unauthorized modifications may void the warranty and create safety hazards.
- If you are unsure about any part of the installation process, consult a qualified automotive electrician.

3. PACKAGE CONTENTS

The package includes the following items:

- 2 x TMH 6-Inch Oval Arrow LED Red Tail Lights
- 4 x Mounting Screws

4. SPECIFICATIONS

Feature	Detail
Brand	TMH
Model Number	TMH-25LED-R
Light Type	LED Tail Light / Turn Signal
LED Quantity	25 Piranha LEDs per light
Color	Red Light & Red Lens
Functions	Tail Light (Low Brightness), Brake/Turn Signal (High Brightness)
Operating Voltage	12V DC
Wattage	3.31 watts
Mounting Type	Surface Mount
Dimensions (L x W x H)	7.5 x 3.3 x 1 inches
Material	ABS Housing, Polycarbonate Lens
Features	Waterproof, Shockproof, Dustproof
UPC	757347529700



Image 4.1: Product Dimensions. This diagram illustrates the oval shape and measurements of the light, indicating a length of 7.5 inches, a width of 3.3 inches, and a depth of 1 inch.

5. INSTALLATION

5.1 Pre-Installation Check

- Ensure the mounting surface is clean, flat, and free from obstructions.
- Confirm that the vehicle's electrical system is 12V DC.
- Gather necessary tools: drill, screwdriver, wire strippers, crimpers, electrical tape or heat shrink tubing.

5.2 Mounting Instructions

1. Position the light on the desired surface. Ensure the arrow pattern is oriented correctly for the intended signal direction.
2. Mark the locations for the four mounting screws.

3. Drill pilot holes if necessary, ensuring they are appropriately sized for the provided screws.
4. Secure the light to the surface using the provided mounting screws. Do not overtighten.

5.3 Wiring Diagram and Connections

The TMH LED Tail Lights feature a 3-wire connection system for dual-functionality (low brightness for tail light, high brightness for brake/turn signal).

- **Black Wire:** Ground (-)
- **Red Wire:** Low Brightness (Tail Light / Running Light) (+)
- **White Wire:** High Brightness (Brake Light / Turn Signal) (+)

1. Connect the **Black wire** from the light to the vehicle's chassis ground or negative (-) terminal.
2. Connect the **Red wire** from the light to the vehicle's tail light or running light positive (+) circuit. This will activate the low brightness mode.
3. Connect the **White wire** from the light to the vehicle's brake light or turn signal positive (+) circuit. This will activate the high brightness mode.
4. Ensure all connections are secure and protected from moisture and abrasion using electrical tape or heat shrink tubing.

COVERED WITH
HIGH-QUALITY PVC

Black wire ground

Red wire (Low)

White wire (High)



2-STEP FUNCTION LOW- HIGH BRIGHTNESS



Image 5.1: Wiring Diagram. This image illustrates the three-wire connection: black for ground, red for low brightness (tail light), and white for high brightness (brake/turn signal).

Image 5.2: Two-Step Brightness Function. This image demonstrates the difference between the low brightness (Step 1) and high brightness (Step 2) modes of the LED light.

6. OPERATION

Once properly installed and wired, the TMH 6-Inch Oval Arrow LED Red Tail Lights will operate as follows:

- When the vehicle's running lights or tail lights are activated, the lights will illuminate **at low brightness** (via the Red wire connection).
- When the vehicle's brake pedal is pressed or the turn signal is activated, the lights will illuminate **at high brightness** (via the White wire connection). If used as a turn signal, the high brightness will flash according to the vehicle's flasher relay.

Note: If you intend to use these lights solely as turn signals or emergency lights, a flasher relay or controller (not included) may be required for proper flashing functionality.

7. MAINTENANCE

The TMH LED Tail Lights are designed for durability and minimal maintenance.

- **Cleaning:** Clean the lens periodically with a soft cloth and mild soap and water to ensure maximum light output. Avoid abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the lights and wiring for any signs of damage, loose connections, or corrosion. Address any issues promptly to maintain optimal performance and safety.
- **Weather Resistance:** These lights are waterproof, shockproof, and dustproof, designed to withstand various environmental conditions.

WATERPROOF & WEATHERPROOF

EFFECTIVELY WATERPROOF AND RAINPROOF.

PROVIDES HIGH BRIGHTNESS AND INCREASES SAFETY ON THE ROAD
EVEN IN INCLEMENT WEATHER OR HEAVY SNOW.



Image 7.1: Waterproof and Weatherproof Design. This image shows the light being exposed to water, highlighting its resistance to environmental elements.

8. TROUBLESHOOTING

If you encounter issues with your TMH LED Tail Lights, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Lights do not illuminate	No power supply, incorrect wiring, faulty ground connection, blown fuse.	<ul style="list-style-type: none">◦ Check all wire connections for proper contact and insulation.◦ Verify 12V DC power is reaching the Red and White wires.◦ Ensure the Black wire has a solid ground connection.◦ Inspect vehicle fuses related to lighting circuits.
Lights are dim or flicker	Poor electrical connection, insufficient voltage, corrosion in wiring.	<ul style="list-style-type: none">◦ Tighten all wire connections.◦ Clean any corroded terminals or wires.◦ Check vehicle's battery voltage and alternator output.
Only one brightness level works	Incorrect wiring for Red or White wire, faulty connection.	<ul style="list-style-type: none">◦ Re-check connections for the Red (low brightness) and White (high brightness) wires.◦ Ensure each wire is connected to its corresponding positive (+) circuit.

If troubleshooting steps do not resolve the issue, please contact TMH customer support.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

TMH provides a **1-year Premium TMH warranty** for these LED Tail Lights, covering free replacement for manufacturing defects. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your TMH product, please visit the official TMH website or contact their customer support department.

TMH Brand Store: <https://www.amazon.com/stores/TMH/page/47AA2177-AADC-4F12-A7C1-4D521FE33484>

