OBDResource TD50

OBDResource TD50 Solar Wireless TPMS Instruction Manual

Brand: OBDResource | **Model:** TD50

1. Introduction

The OBDResource TD50 Solar Wireless Tire Pressure Monitoring System (TPMS) is designed to provide real-time monitoring of your vehicle's tire pressure and temperature, enhancing driving safety. This system features a unique detachable bracket for easy charging and settings adjustment, dual solar and USB charging capabilities, and multiple alarm modes to alert you to abnormal tire conditions.

2. What's in the Box

Upon opening your OBDResource TD50 package, you will find the following components:

- TPMS Display Unit
- 4 External Wireless Sensors (labeled FL, FR, RL, RR for Front Left, Front Right, Rear Left, Rear Right)
- 4 Anti-theft Nuts
- 1 Small Wrench for sensor installation
- 1 USB Charging Cable
- Adhesive Pads for mounting
- User Manual



Image: All components included in the OBDResource TD50 TPMS kit.

3. Specifications

Feature	Detail
Model Number	TD50
Brand	OBDResource
Measuring Range	0-3.5 Bar / 0-50 PSI
Power Source	Solar Power & USB Charging
Sensor Type	External Wireless Sensors
Waterproof Rating	IP68 (Sensors)
Display Type	LCD Digital Display
Battery (included)	1 CR123A (for display unit)
Item Weight	2.3 Grams (sensors)
Material	Rubber (sensors)
Mounting Type	Flange Mount (display bracket)

4. Setup & Installation

The sensors are pre-programmed at the factory for ease of installation. Follow these steps for proper setup:

4.1. Initial Setup of Display Unit

1. **Power On:** Long press the left button (power button) on the display unit to turn it on.
2. **Attach Bracket:** Secure the detachable bracket to the display unit.
3. **Mount Display:** Fix the bracket to your vehicle's windshield or center console using the provided adhesive pads. The detachable design allows for easy removal for USB charging or settings adjustments.



Image: The detachable bracket allows for flexible positioning and easy removal of the display unit.

4.2. Sensor Installation

Install the sensors one by one according to the indicated positions (FL, FR, RL, RR) on the side of each sensor. It is recommended to install them in the order of Front Left (FL) → Front Right (FR) → Rear Left (RL) → Rear Right (RR).

1. **Screw Valve Cap:** Remove the original valve cap from the tire valve.
2. **Screw Anti-theft Nut:** Screw the anti-theft nut onto the tire valve stem.
3. **Install Sensor:** Screw the corresponding sensor onto the valve stem. Ensure it is tightened securely.
4. **Tighten Anti-theft Nut:** Use the provided wrench to reverse rotate the anti-theft nut against the sensor, tightening it to prevent theft and ensure a secure fit.
5. **Check for Leaks:** Apply soapy water around the sensor and valve stem to check for any air leaks. Bubbles indicate a leak, requiring further tightening or adjustment.

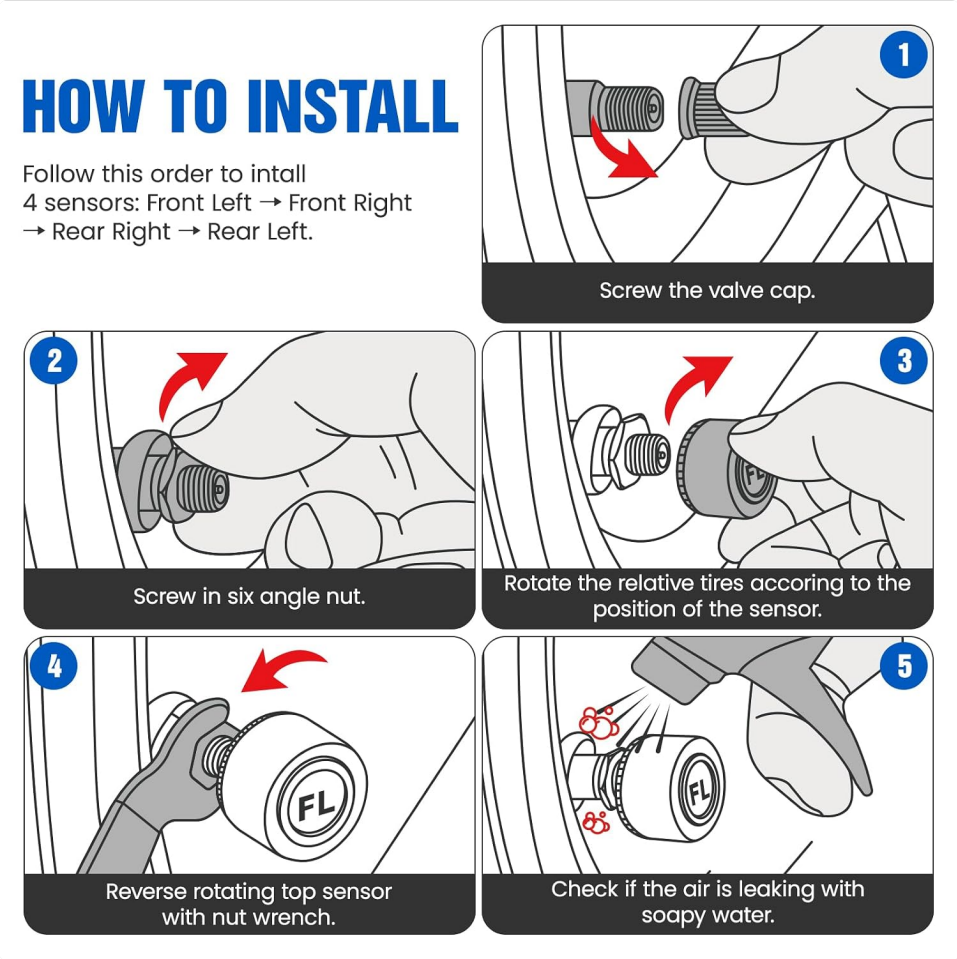


Image: Detailed steps for installing the external tire pressure sensors.

4.3. Pairing and Initial Readings

After installation, the display unit should automatically receive signals from the sensors. If readings do not appear immediately, drive the vehicle for a short period (e.g., above 20 KM/H) to activate the sensors and complete the pairing process.

Video: An overview of the OBDResource Solar Wireless Tire Pressure Monitoring System, including its components and basic functionality.

Video: A guide on how to use the solar tire pressure monitor, demonstrating key features and settings.

5. Operating Instructions

5.1. Display Overview

The LCD display provides real-time information for all four tires:

- **Tire Temperature:** Displays the current temperature of each tire.
- **Tire Pressure:** Shows the current pressure for each tire.
- **Battery Power:** Indicates the battery level of the display unit.
- **Pressure Unit:** Selectable between PSI and Bar.
- **Temperature Unit:** Selectable between Celsius (C) and Fahrenheit (F).



Image: Understanding the real-time data displayed on your TPMS unit.

5.2. Adjusting Settings

To adjust units or alarm thresholds:

1. In standby mode, long press the 'M' key for 3 seconds to enter the system setting state.
2. Use the right selection key to navigate through different settings modes (e.g., unit selection, alarm thresholds).
3. Use the left button to adjust values or select options.
4. The system allows setting maximum and minimum alarm values for tire pressure and temperature according to your specific needs.

6. Alarm Modes

The TD50 TPMS is equipped with 6 safe and reliable alarm modes to promptly report abnormal tire conditions:

- **High Pressure Alarm:** Alerts when tire pressure exceeds the set maximum limit.
- **Low Pressure Alarm:** Alerts when tire pressure falls below the set minimum limit.
- **High Temperature Alarm:** Alerts when tire temperature exceeds a safe threshold.
- **Fast Leak Alarm:** Detects and alerts rapidly decreasing tire pressure.
- **Sensor Fault Alarm:** Indicates a malfunction or communication issue with a sensor.
- **Sensor Low Battery Alarm:** Alerts when a sensor's battery is low and needs replacement.

In addition to visual alerts on the display, the system provides voice reminders for critical alarms.



Image: Visual representation of the various alarm types.

7. Charging

The TD50 TPMS offers dual charging methods to ensure continuous operation:

- **Solar Power:** The built-in solar lithium battery panel charges the unit automatically when exposed to sunlight.
- **USB Charging:** For cloudy or rainy weather, or when sunlight is insufficient, the unit can be charged via the provided USB cable. Simply detach the display unit from its bracket for convenient charging.



Image: Dual charging methods for all-weather monitoring.

8. Maintenance

- Keep the display unit clean and free from dust to ensure optimal solar charging and screen visibility.
- Regularly check the external sensors for any signs of damage or loose fitting.
- If a sensor battery is low, replace it promptly to maintain accurate readings.

9. Troubleshooting

- **No Readings on Display:** Ensure the display unit is powered on. Drive the vehicle for a few minutes to allow sensors to activate and transmit data. If still no readings, check sensor installation and battery levels.
- **Inaccurate Readings:** Verify that the sensors are installed on the correct tire positions (FL, FR, RL, RR). Compare readings with a reliable manual tire gauge. Allow some time for the system to stabilize after installation.
- **Air Leakage After Installation:** Re-tighten the sensor and anti-theft nut using the provided wrench. Apply soapy water to confirm the leak has stopped.
- **Display Not Charging:** Ensure the solar panel is exposed to direct sunlight. If using USB, confirm the cable and power source are functioning correctly.
- **Difficulty Adjusting Angle:** The detachable bracket allows for angle adjustment. Ensure the unit is properly seated in the bracket and the adjustment mechanism is not overtightened.

10. Warranty and Support

For warranty information, technical support, or any inquiries regarding your OBDResource TD50 TPMS, please refer to the contact details provided on the product packaging or visit the official OBDResource website. Keep your

purchase receipt for warranty claims.

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