

OBEST 31880

OBEST TPMS Tire Pressure Sensor Instruction Manual

Model: 31880

1. INTRODUCTION

This manual provides comprehensive instructions for the OBEST TPMS (Tire Pressure Monitoring System) Tire Pressure Sensor, Model 31880. This sensor is designed to monitor tire pressure in compatible Lexus and Toyota vehicles, enhancing driving safety and tire longevity. Please read this manual thoroughly before installation and operation.

Why a TPMS is Essential

A properly functioning TPMS is crucial for vehicle safety and performance. It helps maintain consistent tire pressure, which is vital for:

- Improving fuel efficiency.
- Reducing tire wear and extending tire lifespan.

Detecting air leakage early. Balancing tire pressure for optimal handling. Guarding overall vehicle security by preventing tire-related incidents.

Why you need a TPMS?



Image 1.1: Benefits of a Tire Pressure Monitoring System (TPMS). This diagram highlights how a TPMS contributes to better fuel economy, less tire wear, early detection of air leaks, balanced tire pressure, extended tire life, and improved vehicle safety.

2. SETUP AND INSTALLATION

The OBEST TPMS Tire Pressure Sensor (Model 31880) is designed as a replacement part. Proper installation is critical for accurate performance and vehicle safety. Professional installation by a qualified technician is highly recommended.

Compatibility Check

Before installation, it is essential to verify that this sensor is compatible with your vehicle. The OE (Original Equipment) part number for this sensor is **42607-06020**. Please cross-reference this number with your vehicle's existing TPMS sensor or consult your vehicle manufacturer's specifications to ensure proper fitment and function.

Installation Steps (General Guidance)

1. **Preparation:** Ensure the vehicle is safely lifted and the wheel is removed.
2. **Remove Old Sensor:** Carefully remove the old TPMS sensor from the wheel rim.

3. **Install New Sensor:** Insert the new OBEST TPMS sensor into the valve stem opening on the wheel rim. Ensure the sensor is securely fastened with the provided nut, tightening to the specified torque (typically 4.0 Nm, as indicated on the sensor).
4. **Mount Tire:** Mount the tire back onto the wheel rim, ensuring it is properly seated.
5. **Inflate Tire:** Inflate the tire to the vehicle manufacturer's recommended pressure.
6. **Relearn Procedure:** After installation, the vehicle's TPMS system will need to be 'relearned' or reprogrammed to recognize the new sensor. This procedure varies by vehicle model and year. Refer to your vehicle's owner's manual or consult a professional for the specific relearn process.



Image 2.1: OBEST TPMS Tire Pressure Sensor. This image displays the sensor unit, including the valve stem and the main body with markings such as 'PMV-107J', '5457392', and torque specification '4.0 Nm'.

3. OPERATING INSTRUCTIONS

Once correctly installed and recognized by your vehicle's TPMS system, the OBEST sensor will automatically begin monitoring your tire pressure. The system provides real-time data to ensure optimal tire conditions.

Real-time Monitoring

The sensor continuously monitors the internal pressure of your tires. This data is transmitted wirelessly to your vehicle's TPMS receiver, which then displays the information on your dashboard or vehicle's information screen. The system is designed for:

- **Real-time Detection:** Constant monitoring of tire pressure.
- **Gas Leakage Prediction:** Early warning for potential slow leaks.
- **Rapid Updates:** Data is typically updated within 3 seconds, providing timely information.
- **Alarm Function:** In case of abnormal tire pressure (too low or too high), the system will trigger an alarm to alert the driver.
- **Prevention of Flat Tires:** Early detection helps prevent sudden flat tires and associated hazards.
- **Reduced Wear:** Maintaining correct pressure minimizes uneven tire wear.

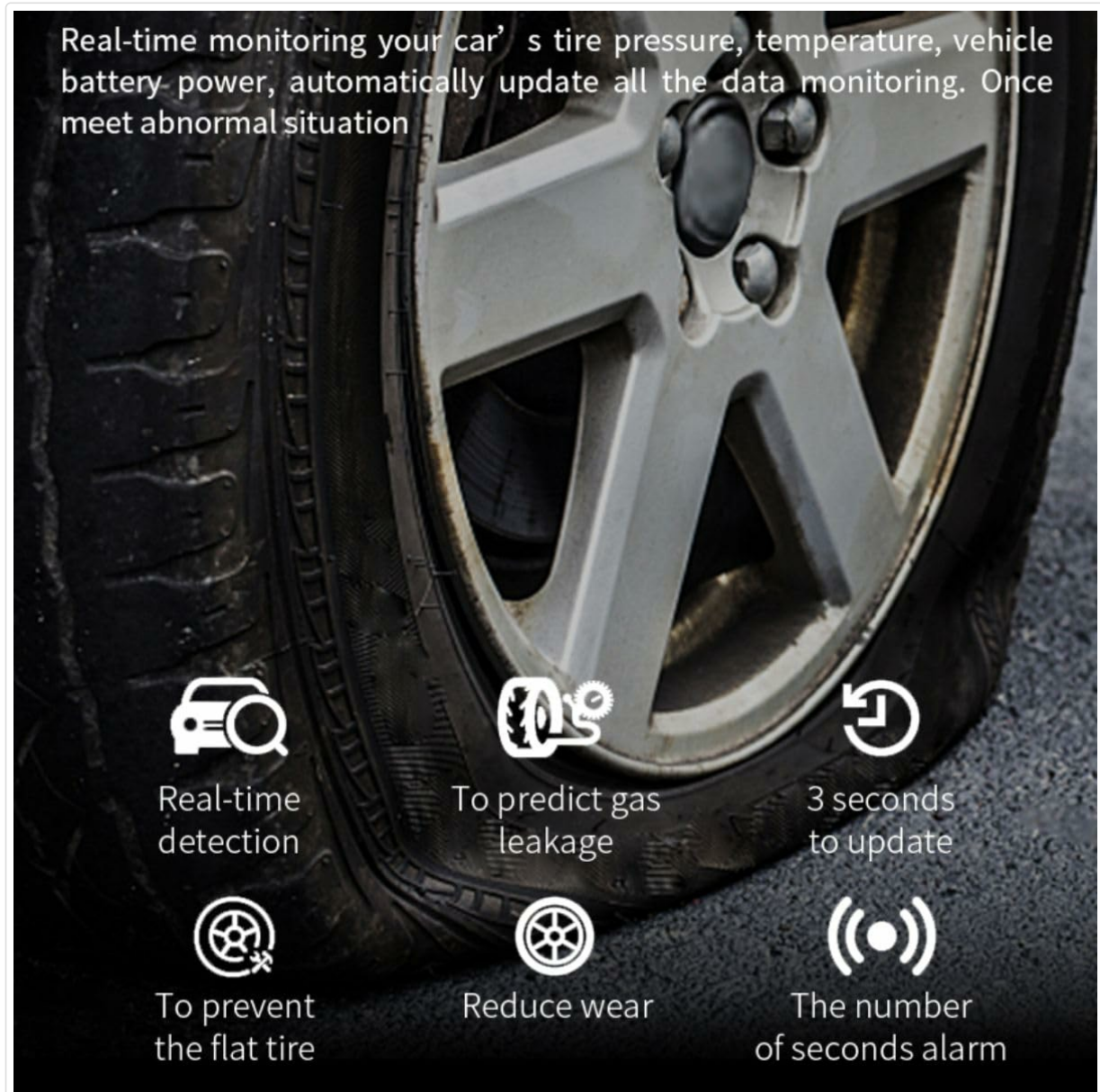


Image 3.1: Real-time Monitoring Features. This image illustrates the key functionalities of the TPMS, including continuous pressure detection, predictive leakage alerts, quick data updates, prevention of flat tires, reduction of tire wear, and an alarm system for critical pressure changes.

4. MAINTENANCE

The OBEST TPMS sensor is designed for durability and long-term performance. While the sensor itself requires minimal maintenance, proper tire care is essential to maximize its effectiveness and lifespan.

- **Regular Tire Checks:** Periodically inspect your tires for visible damage, uneven wear, or embedded objects.
- **Maintain Proper Inflation:** Always keep your tires inflated to the vehicle manufacturer's recommended pressure, even with a TPMS installed. The TPMS alerts you to deviations, but it does not inflate your tires.
- **Valve Stem Care:** The sensor features a high-precision air valve designed to effectively prevent air leakage. Avoid overtightening valve caps or applying excessive force to the valve stem.
- **Professional Servicing:** When tires are rotated, replaced, or repaired, it is recommended to have the TPMS sensors checked by a professional to ensure they are still functioning correctly and to perform any necessary relearn procedures.

5. TROUBLESHOOTING

If you experience issues with your OBEST TPMS sensor or the vehicle's TPMS warning light illuminates, consider the following:

- **TPMS Warning Light On:** This typically indicates low tire pressure in one or more tires. Check all tire pressures with a reliable gauge and inflate to the recommended levels. If the light persists after inflation, there might be a sensor issue or a slow leak.
- **Sensor Not Detected:** If a new sensor is not being recognized, ensure the installation was correct and that the vehicle's TPMS relearn procedure has been performed according to the manufacturer's guidelines.
- **Inaccurate Readings:** Verify tire pressure with a calibrated manual gauge. If there's a significant discrepancy, the sensor might be faulty or require recalibration.
- **Intermittent Warnings:** This could be due to a weak sensor battery (though these sensors are typically sealed units with long-life batteries) or external interference.

For persistent issues or complex diagnostics, it is advisable to consult a professional automotive technician. They have specialized tools to diagnose and resolve TPMS-related problems.

6. SPECIFICATIONS

Feature	Specification
Brand	OBEST
Model Number (Part Number)	31880
OE Part Number	42607-06020
UPC	784482192162
Product Weight	40 g
Package Dimensions	8 x 7.9 x 2.9 cm
Battery Required	No (Integrated)
First Available Date	2024/03/30

7. WARRANTY AND SUPPORT

For any questions or concerns regarding the OBEST TPMS Tire Pressure Sensor, please contact the seller or manufacturer directly. It is recommended to clarify any product-related inquiries before purchase to ensure compatibility and satisfaction.

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