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Avutrel HJ03

Avutrel TPMS Tire Pressure Monitoring System HJ03

User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Avutrel TPMS (Tire Pressure Monitoring System) Model HJ03. This system is designed to monitor your vehicle's tire pressure and temperature in real-time, providing alerts for potential issues to enhance driving safety.

2. Safety Information

- Ensure all components are securely installed before driving.
- Do not attempt to adjust sensor settings or perform maintenance while driving.
- Regularly check tire pressure with a calibrated gauge, as the TPMS is an auxiliary monitoring system.
- Keep the display unit clear of obstructions to ensure proper solar charging and visibility.
- Store the device and its components out of reach of children.

3. Package Contents

Verify that all items are present in your package:

- 1 x TPMS Display Monitor
- 4 x External Sensors (FR, FL, RR, RL labeled)
- 4 x Anti-theft Nuts
- 1 x Spanner
- 1 x Type-C USB Charging Cable
- 1 x Double-sided Tape
- 1 x User Manual
- 2 x CR1632 Coin Cell Batteries (for sensors, may be pre-installed)



Figure 3.1: All accessories included with the Avutrel TPMS: monitor, 4 external sensors, 4 anti-theft nuts, spanner, Type-C cable, double-sided tape, manual, and 2 coin cells.

4. Product Overview

The Avutrel TPMS HJ03 features a display unit and four external sensors designed for universal compatibility with 4-wheeled vehicles.

4.1 Display Unit

- **Real-time Monitoring:** Displays tire pressure and temperature for all four tires, updating every 3-5 seconds.
- **Dual Charging:** Supports solar power charging and Type-C USB charging.
- **Automatic Sleep/Wake:** The screen enters sleep mode after 5 minutes of inactivity to conserve battery and automatically reactivates when driving or manually shaken.
- **Auto-adjustable Backlight:** An integrated light sensor adjusts display brightness for optimal readability in various lighting conditions (day/night).

- **Anti-glare Visor:** Designed for clear visibility even in direct sunlight.
- **Alerts:** Provides visual and audible alerts for high/low pressure, high temperature, tire leakage, low sensor battery, and no signal.



Figure 4.1: Avutrel TPMS display unit showing real-time monitoring and alert indicators.



Figure 4.2: Solar and Type-C USB charging capabilities of the display unit.



Figure 4.3: HD LCD display with automatic brightness adjustment.

4.2 External Sensors

- **IPX7 Waterproof:** Sensors are designed to withstand water exposure.
- **Durable Construction:** Features an anti-corrosion brass casing for stable transmission and longevity.
- **Anti-theft Design:** Includes anti-theft rings for secure attachment to tire valves.
- **Pre-configured:** Sensors are pre-configured to 5 bar / 72 psi and activate automatically after 5-10 minutes of driving.



Figure 4.4: Durable and weather-resistant external sensors.

4.3 Compatibility

The Avutrel TPMS HJ03 is compatible with various 4-wheeled vehicles, including:

- Cars
- SUVs
- MPVs
- Trailers
- Camping-cars (RVs)



Figure 4.5: Vehicle compatibility overview.

5. Setup and Installation

5.1 Display Unit Placement and Charging

1. Choose a suitable location on your dashboard that does not obstruct your view or interfere with driving.
2. Clean the dashboard surface thoroughly.
3. Attach the display unit using the provided double-sided tape. Ensure the solar panel faces upwards to receive sunlight for charging.
4. For initial charging or when solar charging is insufficient, connect the display unit to a USB power source using the Type-C cable.

5.2 Sensor Installation

Follow these steps to install the external sensors on your vehicle's tires:

1. Unscrew the original valve cap from the tire valve.
2. Screw the anti-theft nut onto the tire valve stem.
3. Screw the corresponding sensor (FR, FL, RR, RL) onto the tire valve stem until it is hand-tight.
4. Use the provided spanner to tighten the anti-theft nut against the sensor, securing it in place. This prevents unauthorized removal.
5. Repeat for all four tires.

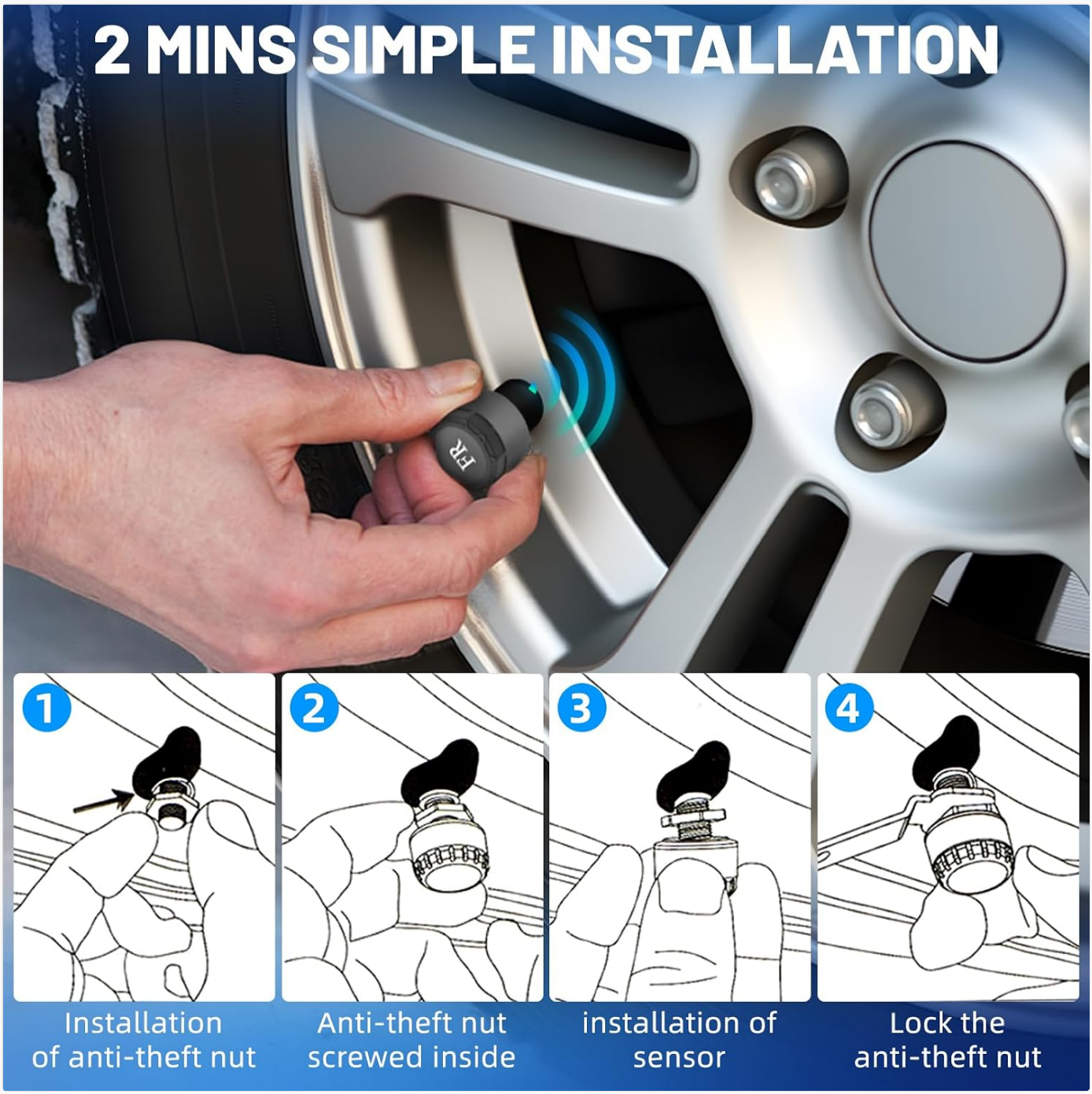


Figure 5.1: Sensor installation steps.

The sensors will activate automatically once the vehicle starts moving for 5-10 minutes. The display unit will then show the tire pressure and temperature readings.

6. Operating Instructions

6.1 Power On/Off

- **Power On:** The display unit automatically powers on when it detects vibration (e.g., when you open the car door or start driving).
- **Power Off:** The display unit automatically enters sleep mode after 5 minutes of no vibration.

6.2 Display Readings

The display shows real-time data for each tire:

- **Tire Pressure:** Indicated in PSI or Bar.
- **Tire Temperature:** Indicated in °C or °F.
- **Sensor Battery Level:** An icon indicates the battery status for each sensor.
- **System Battery Level:** An icon indicates the display unit's battery status.

6.3 Alert System

The system provides alerts for the following conditions:

- **High Pressure:** When tire pressure exceeds the preset high limit.
- **Low Pressure:** When tire pressure falls below the preset low limit.
- **High Temperature:** When tire temperature exceeds the preset high limit.
- **Tire Leakage:** Rapid pressure drop detected.
- **Low Sensor Battery:** Indicates a sensor battery needs replacement.
- **No Signal:** A sensor is not transmitting data.

6.4 Unit Settings (PSI/Bar, °C/°F)

Refer to the included user manual for specific instructions on how to access and change the pressure units (PSI/Bar) and temperature units (°C/°F) on your display unit.

7. Maintenance

- **Cleaning:** Wipe the display unit and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Solar Panel:** Ensure the solar panel on the display unit is clean and unobstructed to maximize charging efficiency.
- **Sensor Battery Replacement:** If a sensor battery low alert appears, replace the CR1632 coin cell battery. Unscrew the sensor, carefully open it, replace the battery, and reassemble, ensuring the seal is intact for waterproofing.
- **Storage:** If storing the system for an extended period, ensure the display unit is fully charged.

8. Troubleshooting

Problem	Possible Cause	Solution
Display not turning on	Low battery; no vibration detected.	Charge the display unit via USB. Shake the unit or start driving to activate.
No sensor signal	Sensor battery low/dead; sensor not installed correctly; interference.	Replace sensor battery. Reinstall sensor securely. Check for strong electromagnetic interference. Drive for 5-10 minutes to activate sensors.

Problem	Possible Cause	Solution
Inaccurate readings	Sensor not fully tightened; sensor damaged.	Ensure sensors are tightly secured. Compare with a manual tire gauge. If persistent, contact support.
Alerts constantly trigger	Preset limits are too sensitive or tire pressure/temperature is genuinely outside limits.	Adjust tire pressure/temperature limits in settings (refer to manual). Check actual tire conditions.

9. Specifications



Figure 9.1: Product dimensions and sensor details.

Feature	Detail

Feature	Detail
Brand	Avutrel
Model Number	HJ03
Item Weight	210 g
Product Dimensions (L x W x H)	16.1 x 12.6 x 5.79 cm
Pressure Range	Up to 5 Bar / 72 psi (pre-configured)
Sensor Type	External
Sensor Waterproof Rating	IPX7
Charging Method	Solar / Type-C USB
Display	HD LCD with auto-adjustable backlight

10. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact Avutrel customer service directly. Contact details can typically be found on the product packaging or the official Avutrel website.

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