BLAUPUNKT

Brand Established 1924

TIRE PRESSURE MONITORING SYSTEM

TPMS 3.1

Enjoy it.

Operating and Installation Instructions

CAUTIONS

Safety Notes

This TPMS (Tire Pressure Monitoring System) has been manufactured according to established safety guidelines. Nevertheless, risks may arise if the safety instructions outlined in this manual are not adhered to. The purpose of this manual is to acquaint the user with the crucial functions of the TPMS. Prior to operating the appliance, carefully read through this manual and store it in a readily accessible location. Furthermore, ensure compliance with the instructions for any devices used in conjunction with this appliance.

Road Safety

Always adhere to the following guidelines for road safety:

- Utilize the device in a manner that enhances the user's safety while operating the vehicle. It is advisable for the user to park at a suitable location when inspecting the tires in the event of an abnormal alert

General Safety

- The device is designed for installation and operation in a vehicle with a 12V system, and therefore, it should be installed at least 500mm away from the DVD or other high-power equipment to prevent signal disruption during a system outage.
- It is crucial not to dismantle or modify the device. Installation or repair should be carried out by a specialist. Blaupunkt assumes no responsibility for any loss or damage resulting from unauthorized disassembly or modification of the device.
- The device's primary function is to monitor tire pressure and temperature exclusively. The driver is responsible for maintaining the tires. Blaupunkt is not responsible for any loss of sensors. If sensors are lost, contact your Blaupunkt dealer to purchase new ones.
- The package includes pre-set sensors for designated tires. If sensor replacement or a change in sensor location is necessary, ensure that the sensors are reprogrammed before operating the device.
- Please refrain from operating the device under extreme temperature conditions (either extremely high or low). Ensure that the car's interior temperature falls within the range of -10°C to 60°C before beginning the installation process and during operation.

Disclaimer

- Blaupunkt is not liable for any loss or damage caused or resulting from unauthorized disassembly or modification to the product.
- Under no circumstances shall Blaupunkt be held liable for any direct, indirect, punitive, incidental, or special consequential damages, whether related to property or life, arising out of or connected with the use or misuse of our products, including but not limited to issues of improper storage.
- USA & CANADA: This product is not intended for sale in the United States and Canada. If acquired in the U.S. or Canada, it is obtained on an "as-is" basis. No warranty, whether express or implied, is provided in the U.S. and Canada.

Compatibility

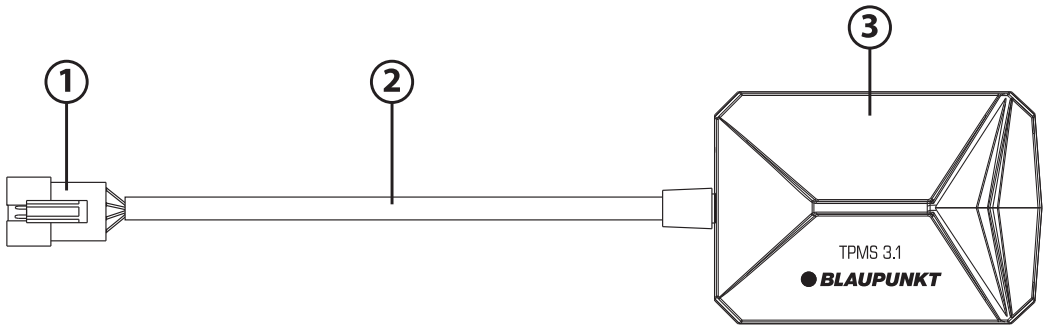
This TPMS is only compatible with below 2-Din Car Players;

- Cape Town 900 DSP
- Cape Town 1000 DSP
- Palm Spring 900 DSP
- Palm Spring 1000 DSP

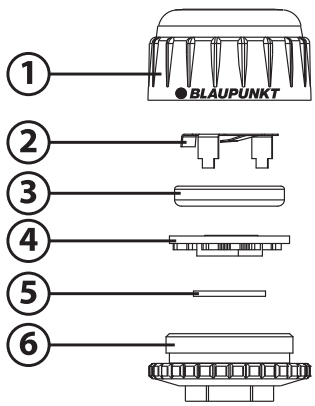
This manual may be updated from time to time without any notice. Visit www.blaupunkt.com for more info.

STRUCTURE & FUNCTIONS

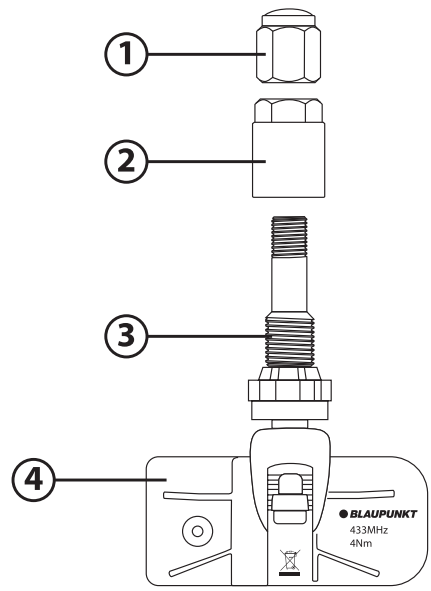
Receiver



External Sensor



Valve Sensor



Receiver
1. Connector
2. Cable
3. Receiver Unit

External Sensor
1. Sensor Cover
2. Battery Holder
3. Battery
4. Sensor
5. Rubber Seal
6. Base

Valve Sensor
1. Dust Cap
2. Aluminium Alloy Nut
3. Aluminium Alloy Valve
4. Transmitter

SPECIFICATIONS

Sensor

Operating frequency	433.92 +/- 0.03MHz
Battery voltage	DC2.1V ~ DC 3.3V
Operating temperature	-30°C ~ 60°C (External Sensor) -40°C ~ 120°C (Valve Sensor)
Pressure range	0~8 Bar / 0~116 PSI

Receiver

Operating current	<15mA
Operating frequency	433.92 +/- 0.05MHz
Operating voltage	DC12V +/- 2V
Operating temperature	-40°C ~ 125°C
Dimension (LxWxH)	56.5 x 40 x 13.5mm

Default Value

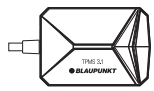
High pressure value	310 Kpa / 3.1 Bar / 45PSI
Low pressure value	180 Kpa / 1.8 Bar / 26 PSI
High temperature value	75°C

Precision

Temperature	+/- 3°C
Pressure	0.15 Bar / 2.2 PSI
Temperature unit	1 °C = 33.8 °F = 274.15 K
Air pressure unit	1 Bar = 14.5 PSI = 100 Kpa = 1.02Kgf/cm²

Accessories

Receiver



1x Receiver

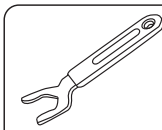

2x 3M Tape

TPMS 3.1E

4x External Sensor

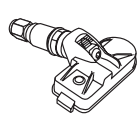

4x Anti-theft Nut


4x Rubber Seal


1x spanner
(keep in car)

4x Built-in Battery

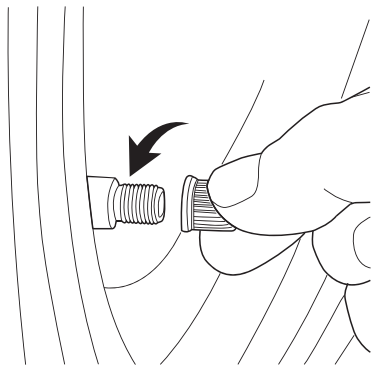
TPMS 3.1V


4x Valve Sensor

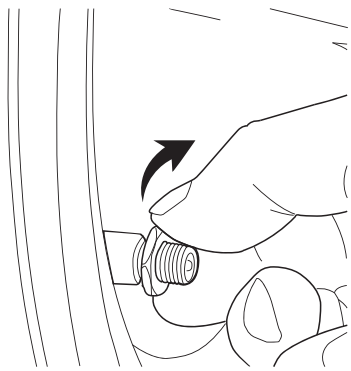
4x Warning Label

EXTERNAL SENSOR INSTALLATION

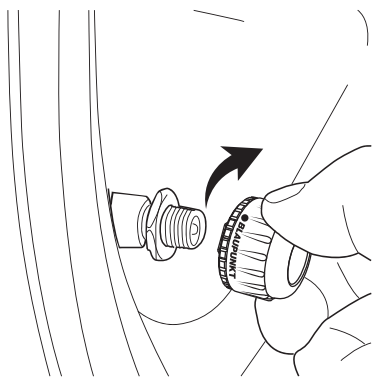
1. Remove the valve cap.



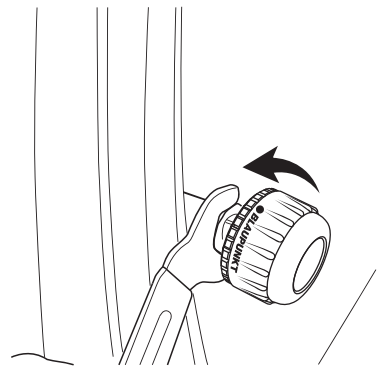
2. Screw in the nut.



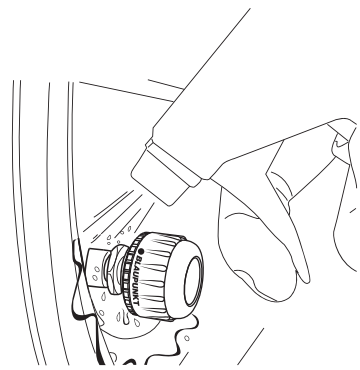
3. Screw on the sensor.



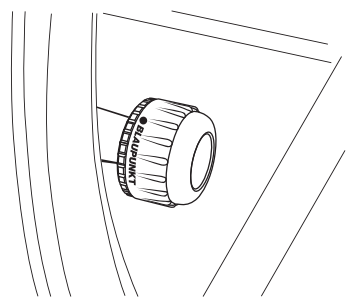
4. Tighten up the nut to the sensor by using the spanner.



5. Spray soap water on the nozzle to check for leakage problem.

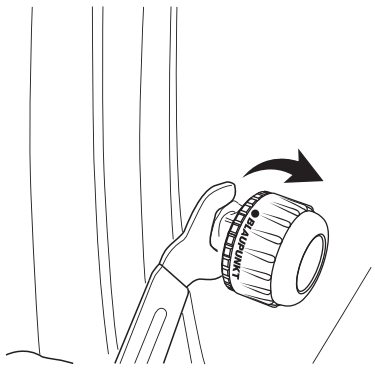


6. Clean the area before using it.

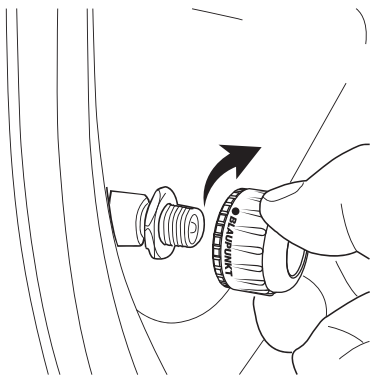


EXTERNAL SENSOR BATTERY REPLACEMENT

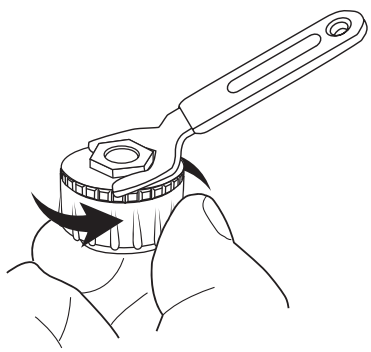
1. Unscrew the nut.



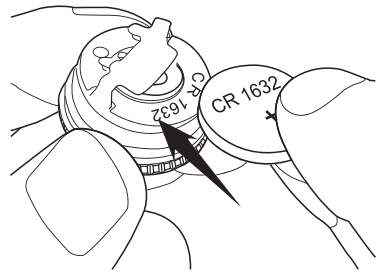
2. Unscrew the sensor.



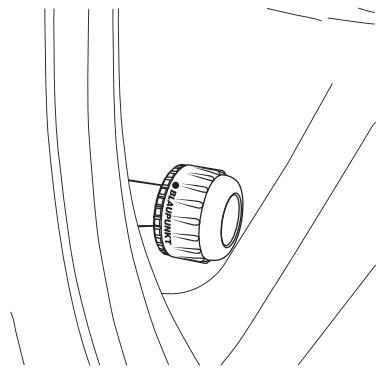
3. Unscrew the sensor cover by using spanner.



4. Replace new battery.

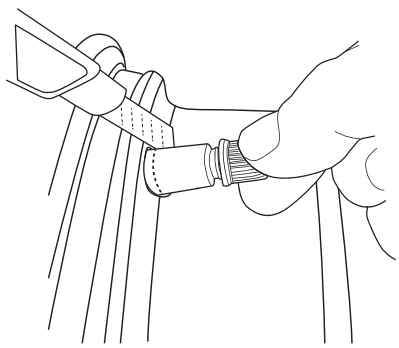


5. Refer to "Sensor Installation" steps.

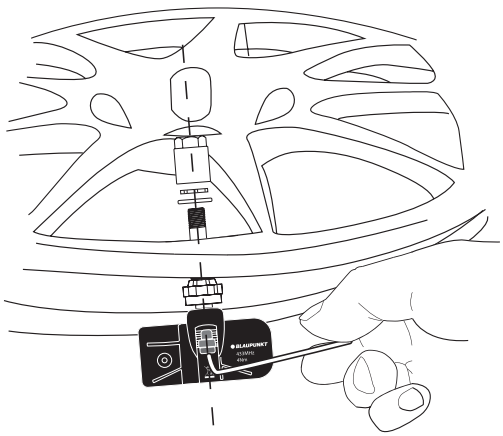


VALVE SENSOR INSTALLATION

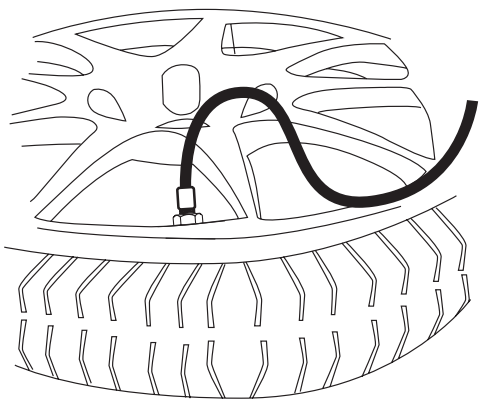
1. Remove the original air valve from the wheel barrel.



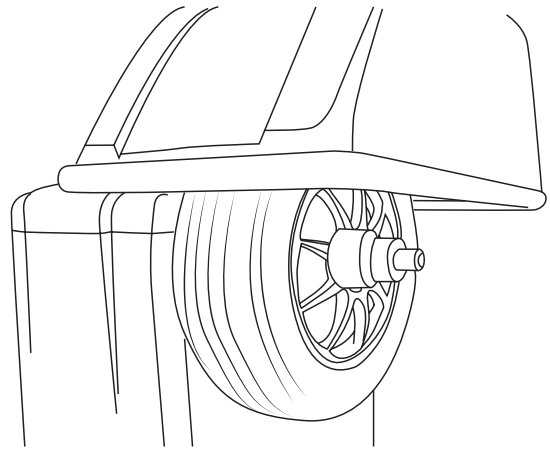
2. Install & adjust the valve sensor onto the wheel barrel. Screw & tighten the nut & valve.



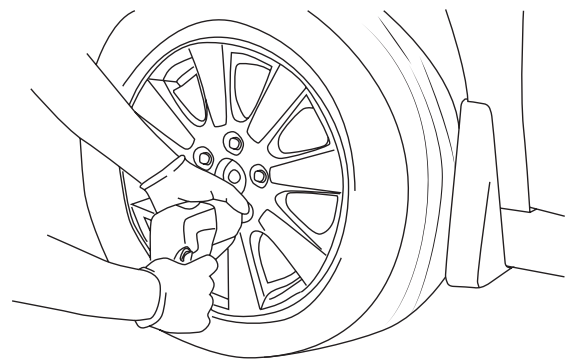
3. Inflate the tire after installation.



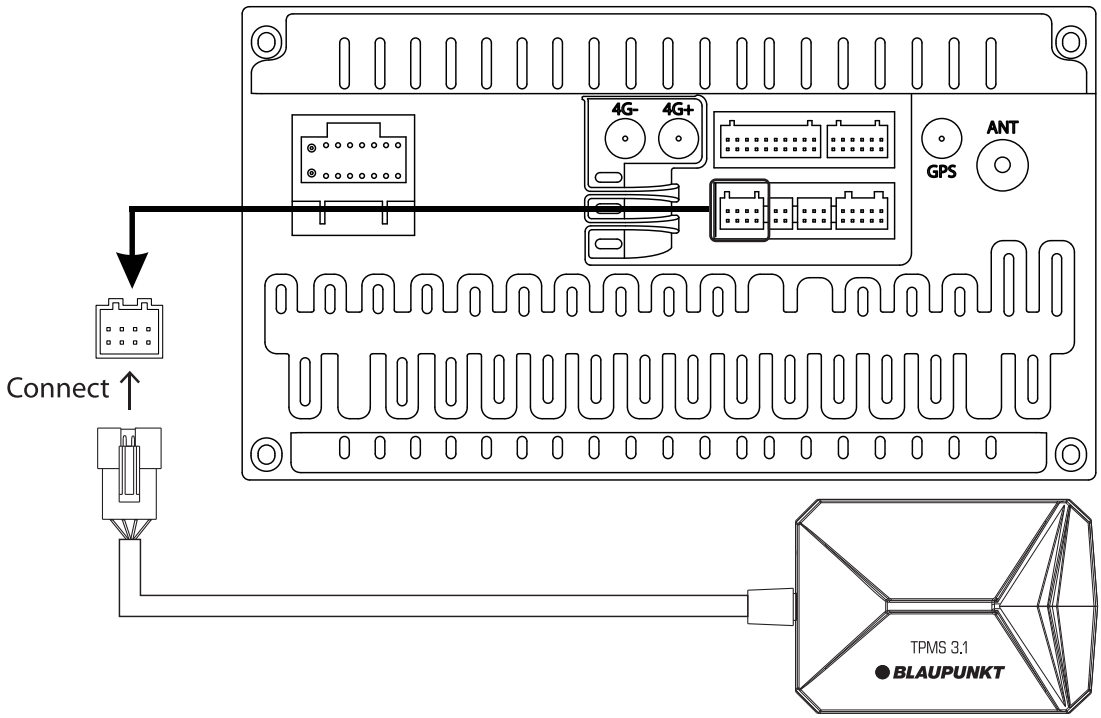
4. Rebalance the wheel to ensure radial uniformity.



5. Reinstall the balanced wheel onto the vehicle.

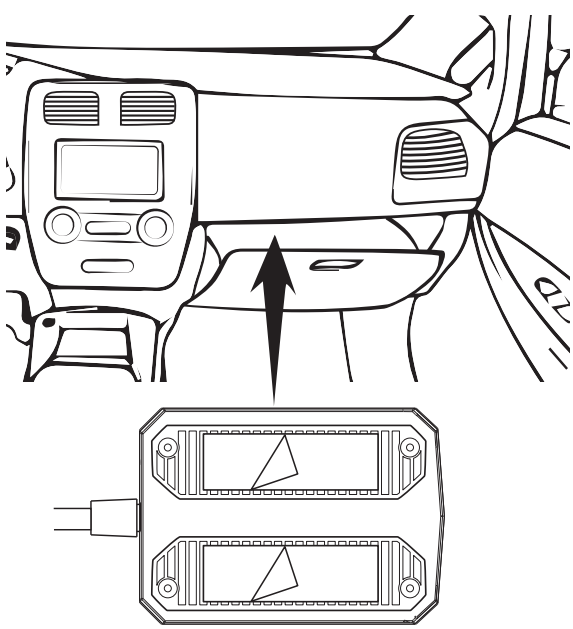


RECEIVER WIRING DIAGRAM

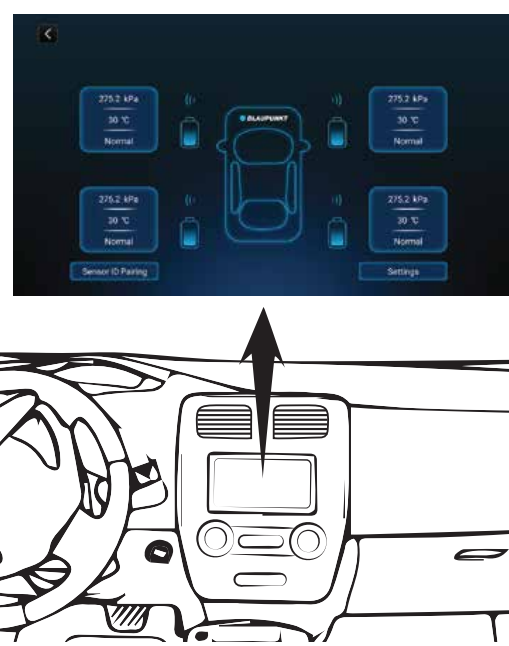


OPERATION INSTRUCTION

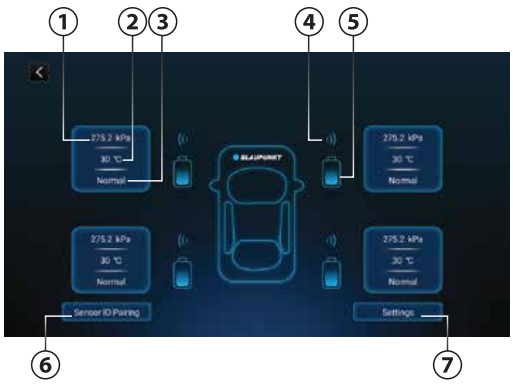
1. Remove the 3M tape protective film to affix the receiver on the car glove compartment.



2. The TPMS user interface will immediately activate to display the status when an abnormal scenario occurs.

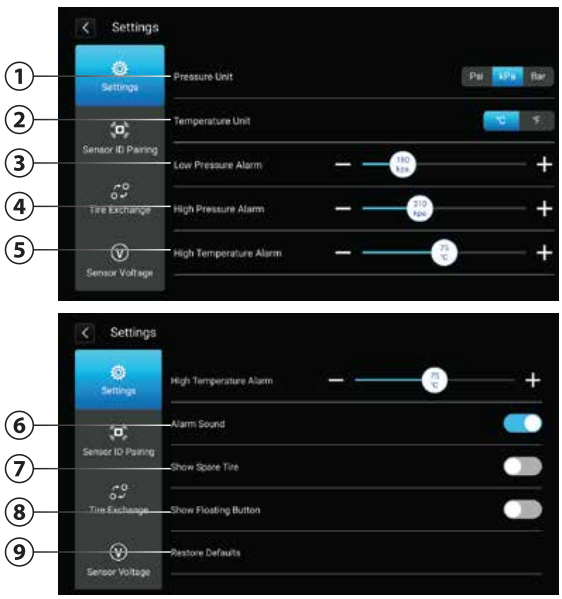


Main Interface



1. Display tire pressure
2. Display tire temperature
3. Display tire status: Normal/High temperature/Low pressure. etc.
4. Sensor signal: Turn to yellow when signal is abnormal
5. Sensor voltage: Turn to yellow when voltage is low
6. Enter the sensor ID pairing interface
7. Enter the settings interface

Settings



1. Set pressure units (Psi/kPa/Bar)
2. Set temperature units (°C/°F)
3. Configure the low-pressure alarm threshold to trigger an alert when the tire pressure falls below the specified level
4. Configure the high-pressure alarm threshold to trigger an alert when the tire pressure surpasses the specified level
5. Configure the high-temperature alarm threshold to trigger an alert when the tire temperature surpasses the specified level
6. Alarm Sound: Enable/Disable
7. Show Spare Tire: Enable/Disable
8. Show Floating Button: Enable/Disable
9. Restore Defaults: Reset to original factory configuration

Sensor ID Pairing

1. Select a preferred tire

2. Start Sensor ID Pairing status

3. Sensor ID Pairing process can be interrupted

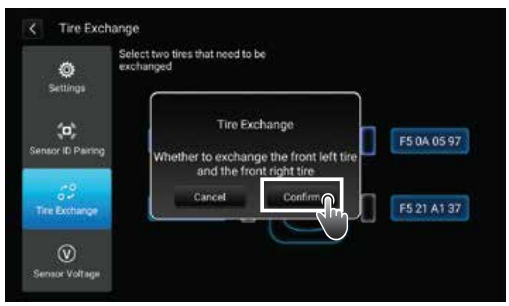
4. The Sensor ID Pairing process will time out and exit if the sensor signal pairing exceeds 300 seconds

5. Sensor ID pairing completed

Tire Exchange

1. Select the two tires that need to be exchanged

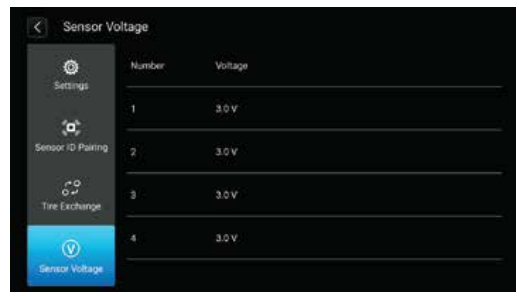
2. Confirm tire exchange



3. Tire exchange completed

Sensor Voltage

1. Display the voltage values of each sensor



DIFFERENT SCENARIO

1. **Normal**
   • Display real time tire pressure of 4 tires.

2. **High Pressure**
   • Emits deep beeping alarm sound

3. **Air Leakage**
   • Emits deep beeping alarm sound

4. **High Temperature**
   • Emits deep beeping alarm sound

5. **Low Battery**
   • Emits deep beeping alarm sound

6. **Sensor Failure**
   • Emits deep beeping alarm sound

TROUBLESHOOTING

If any of the following problems occur, please refer to the Troubleshooting section for potential solutions. If the problem persists, seek assistance from an authorized Blaupunkt dealer.

Problems	Solutions
Air leakage after sensor installation	The tire valves may not be universal standard, please check with the local workshop
No tire data are displayed after completing installation	Ensure ACC is turned on
	If external sensor, check rubber seal condition
Missing or lost sensor	Please purchase new sensor
External sensor battery low	Please replace with battery CR1632
Change of tire location	Please reprogram the corresponding sensors
	Refer to Tire Exchange steps

R0

TPMS 3.1 E
1 311 23 013 45 01

TPMS 3.1 V
1 311 23 014 45 01

Blaupunkt Car Entertainment - Asia Pacific Competence Centre