

SnowAir QPGJ-49

User Manual

PORTABLE TPMS TIRE PRESSURE SENSOR

Brand: SnowAir

Model: QPGJ-49

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your SnowAir Portable TPMS (Tire Pressure Monitoring System) Tire Pressure Sensor. This sensor is designed as a replacement part for specific Chrysler, Dodge, and Jeep vehicles manufactured between 2005 and 2014, with part numbers 56029526AA and 68078861AC. Please read this manual thoroughly before attempting any installation or use to ensure safety and optimal performance.

SAFETY INFORMATION

Always adhere to the following safety guidelines:

- Professional Installation Recommended:** Installation of TPMS sensors requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician.
- Proper Torque:** Ensure that the sensor is installed with the correct torque specifications to prevent damage to the sensor or the wheel. Refer to your vehicle's service manual for specific torque values.
- Vehicle Compatibility:** Verify that this sensor is compatible with your specific vehicle make, model, and year before installation. Incompatible sensors may not function correctly.
- Tire Deflation/Inflation:** Exercise caution when deflating and inflating tires. Always use appropriate safety equipment and follow standard tire service procedures.
- Sensor Programming:** After installation, the new TPMS sensor(s) must be programmed or relearned to the vehicle's TPMS system. This often requires a specialized TPMS scan tool.

PRODUCT OVERVIEW

The SnowAir TPMS sensor is a critical component of your vehicle's tire pressure monitoring system, designed to accurately measure and transmit tire pressure data to your vehicle's onboard computer. This helps alert the driver to under-inflated tires, improving safety and fuel efficiency.



Figure 1: Main view of the SnowAir TPMS sensor, showing the valve stem and the sensor body with markings.



Figure 2: Top view of the sensor body, displaying FCC ID, part numbers (56029526AA), and the Chrysler brand marking, along with the 315 MHz frequency indicator.



Figure 3: Close-up view of the aluminum valve stem, showing the threaded portion for the valve cap and the internal valve core.

INSTALLATION GUIDE

Pre-Installation Checks

- Confirm the sensor's compatibility with your vehicle's make, model, and year.
- Ensure you have all necessary tools, including a tire changer, valve stem tool, torque wrench, and a TPMS scan tool.
- Inspect the new sensor for any visible damage before installation.

Installation Steps (Professional Installation Recommended)

1. **Deflate Tire:** Completely deflate the tire from which the old sensor will be removed.
2. **Remove Old Sensor:** Carefully remove the tire from the wheel. Unscrew the retaining nut or bolt holding the old TPMS sensor to the wheel rim and remove the sensor.
3. **Install New Sensor:** Insert the new SnowAir TPMS sensor through the valve stem hole from the inside of the wheel. Ensure the sensor body is correctly oriented within the wheel.
4. **Secure Sensor:** Hand-tighten the retaining nut or bolt onto the valve stem from the outside of the wheel. Then, use a torque wrench to tighten it to the vehicle manufacturer's specified torque (typically between 4 Nm and 8 Nm, but always refer to your vehicle's service manual).
5. **Mount Tire:** Carefully remount the tire onto the wheel, taking care not to damage the sensor.
6. **Inflate Tire:** Inflate the tire to the vehicle manufacturer's recommended pressure.
7. **Sensor Programming/Relearn:** After installation, the vehicle's TPMS system must be updated to recognize the new sensor. This process, known as 'relearn' or 'programming', varies by vehicle model and typically requires a specialized TPMS scan tool. Follow your vehicle's specific relearn procedure.

OPERATION

Once properly installed and programmed, the SnowAir TPMS sensor will continuously monitor the air pressure within its respective tire. This data is wirelessly transmitted to the vehicle's TPMS receiver. If a tire's pressure falls below a predetermined threshold, the TPMS warning light on your vehicle's dashboard will illuminate, alerting you to a low tire pressure condition. Some vehicles may also display the specific tire pressure on the instrument cluster.

It is important to note that the TPMS system is a safety feature and not a substitute for regular manual tire pressure checks. Always ensure your tires are inflated to the pressure recommended by your vehicle manufacturer, typically found on a sticker inside the driver's side door jamb or in the owner's manual.

MAINTENANCE

- **Regular Tire Pressure Checks:** Even with a TPMS, manually check your tire pressure monthly using a reliable gauge.
- **Valve Stem Caps:** Ensure valve stem caps are always in place to prevent dirt and moisture from entering the valve.
- **Sensor Lifespan:** TPMS sensors are battery-powered. The battery is sealed within the sensor and is not replaceable. The typical lifespan of a TPMS sensor battery is 5-10 years, depending on usage and environmental conditions. When the battery depletes, the sensor will need to be replaced.
- **Tire Service:** Inform your tire technician that your vehicle is equipped with TPMS sensors before any tire service (e.g., rotation, repair, replacement) to ensure proper handling and prevent damage to the sensors.

TROUBLESHOOTING

If you experience issues with your TPMS system, consider the following common scenarios:

Symptom	Possible Cause	Solution
TPMS warning light is on.	Low tire pressure.	Check all tire pressures with a gauge and inflate to recommended levels. The light should turn off after driving.

Symptom	Possible Cause	Solution
TPMS warning light is flashing, then stays solid.	TPMS system malfunction (e.g., dead sensor battery, sensor failure, system error).	Have the TPMS system diagnosed by a qualified technician using a TPMS scan tool. Sensors may need replacement or reprogramming.
New sensor installed, but TPMS light remains on.	Sensor not properly programmed/relearned to the vehicle.	Perform the correct TPMS relearn procedure for your vehicle. This often requires a specialized TPMS tool.
Incorrect pressure readings.	Faulty sensor, incorrect programming, or external interference.	Verify tire pressure with a calibrated gauge. Re-program the sensor. If issues persist, the sensor may be faulty and require replacement.

SPECIFICATIONS

Attribute	Value
Brand	SnowAir
Model Number	QPGJ-49
Item Dimensions (L x W x H)	2.95 x 1.97 x 0.59 inches
Item Weight	0.26 Pounds (approx. 4.2 ounces)
Style	Portable
Mounting Type	Flange Mount
Specific Uses For Product	Pressure Monitoring
Compatible Part Numbers	56029526AA, 68078861AC

WARRANTY INFORMATION

SnowAir products are manufactured to high-quality standards. This product comes with a limited warranty against defects in materials and workmanship under normal use. Please retain your proof of purchase. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact customer support.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your SnowAir TPMS sensor, please contact our customer support team. Provide your product model number (QPGJ-49) and details of your inquiry for faster service.

Email: support@snowair.com (example)

Phone: 1-800-XXX-XXXX (example)

Website: www.snowair.com (example)

