

# INSTALLATION INSTRUCTIONS

## Programmable Tire Pressure Monitor System( "P-TPMS") Sensor Assemblies VS-61U003(315MHz)

### WARNING

Read all instructions and warnings, and review all illustrations before installing. For reasons of safety and for optimal function, *Shanghai Vei Sheng Auto Parts Manufacturing Co.,ltd ("Cub")* recommends that any maintenance and repair work is carried out by trained experts only and according to the guidelines of the vehicle manufacturer. The valves are safety-relevant parts which are intended for professional installation only.

These Programmable Tire Pressure Monitoring System("P-TPMS") sensor assemblies are replacement or maintenance parts for motor vehicles that have a factory installed Tire Pressure Monitoring System("TPMS") only. Failure to follow installation instructions may result in the failure of the motor vehicle P-TPMS sensor to operate properly. Cub does not assume any liability in case of the faulty or incorrect installation of the product.

### CAUTION

Each P-TPMS sensor is designed and manufactured to operate in blank at initial status which using the proper frequencies to communicate with the motor vehicle TPM system. The original P-TPMS is blank software inside, be sure to program the sensor by Cub Gen.3 tool for your specific motor vehicle make, model and year before installation. Only install programmed P-TPMS sensors to the application listed in the tool. Improper TPMS installation or the use of unauthorized TPMS Sensors cause the motor vehicle TPM System to fail to operate properly. Do not install programmed P-TPMS sensors in damaged wheels. Upon completion of installation, test the motor vehicle TPMS System using procedures described in the original manufacturer's service guide to confirm proper installation. If the TPM System fails to operate properly, check all installation procedures to ensure proper installation and retest. If the TPMS System continues to fail to operate, immediately consult with Cub support or an authorized motor vehicle dealership.

These P-TPMS sensor assemblies are designed and manufactured to operate in Original Equipment wheels and tires only. If Original Equipment wheels and/or tires are not used, the TPM system and the low tire inflation warning threshold of your vehicle's TPM system may not function or may function correctly. If the Original Equipment wheels and/or tires are not used, it is the responsibility of the vehicle owner to ensure that the TPMS is working correctly. Refer to the Original Equipment manufacturer's vehicle service guide for instruction including the warning threshold reset procedure and seek the assistance of an authorized vehicle dealership to ensure the TPM system, including system compatibility with the non-Original Equipment wheels and/or tires, is working properly. The vehicle owner expressly assumes sole and complete Failure to ensure that the TPMS is working correctly can result in severe injury or death.

### WARRANTY

Cub warrants that the P-TPMS sensor complies with Cub's product specifications and shall be free from defects in workmanship and material for a period of twelve (12) months after the sale of product to customer. In the event that within the above mentioned warranty period, Cub confirms that a product is defective; Cub will replace the product at no cost to customer. If it is determined that the product has been subject to accident, misuse or abuse this warranty and the limited obligations hereunder will be void. THIS IS THE SOLE AND EXCLUSIVE WARRANTY AND LIABILITY TO CUSTOMER. CUB EXPRESSLY DISCLAIMS AND OTHER WARRANTY INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF OTHER IMPLIED OR EXPRESS WARRANTIES. UNDER NO CIRCUMSTANCES SHALL CUB BE LIABLE TO CUSTOMER FOR ANY OTHER AMOUNTS INCLUDING LABOR CHARGES FOR INSTALLATION OR REINSTALLATION OF PRODUCTS NOR SHALL CUB BE LIABLE UNDER ANY THEORY FOR ANY OTHER DAMAGES INCLUDING BUT NOT LIMITED TO DIRECTLY, INDIRECT, SPECIAL, CONSEQUENTIAL AND INCIDENTAL DAMAGES.

**IMPORTANT WARRANTY INFORMATION**

Professional installer: When replacing an entire P-TPMS sensor assembly, please complete the following P-TPMS sensor warranty information giving one copy to the customer and send the duplicate copy to the indicated address.

**WARNING: FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS OR THE USE OF IMPROPER TPMS SENSORS MAY RESULT IN THE MOTOR VEHICLE TPM SYSTEM FAILURE CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**

**CUSTOMER TPMS P-SENSOR Multi-Application Sensor Information Card**

(Please keep in motor vehicle glove box)

Professional Installer: Name: \_\_\_ Place of Repair: \_\_\_ Address: \_\_\_ Phone: \_\_\_

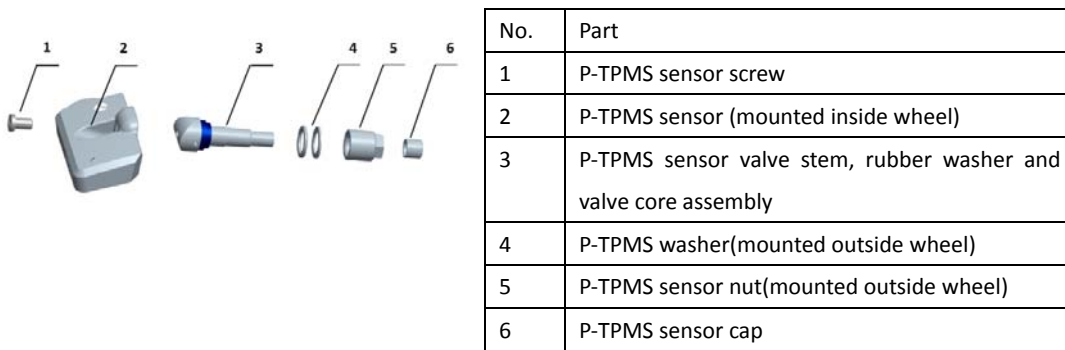
Vehicle Owner: Name: \_\_\_\_\_ Address: \_\_\_\_\_

Motor Vehicle: Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year: \_\_\_\_\_ VIN Number: \_\_\_\_\_

P-TPMS sensor date of installation: (M)\_\_\_\_/(D)\_\_\_\_/(Y)\_\_\_\_\_

P-TPMS sensor date code. Take date code from P-TPMS sensor housing: \_ \_ \_ \_  
\_ \_ \_ \_ (8 digits)

1. Clear valve stem hole in rim of any corrosion or dirt. Ensure there is a clean smooth surface for the mating of the P-TPMS sensor screw (fig.1), rubber washer and valve core assembly (fig.3), P-TPMS washer (fig. 4), and P-TPMS nut (fig.5) to the rim.
2. Remove P-TPMS sensor screw (fig.1), washers(fig.4) and nut(fig.5) from P-TPMS sensor valve stem assembly (fig.3)
3. While holding P-TPMS sensor body(fig.2), the grey(plastic) side of P-TPMS sensor facing the tire, push P-TPMS sensor valve stem(fig.3) through rim by hand until P-TPMS rubber washer(fig.3) meets inside edge of rim.
4. Lock the P-TPMS sensor(fig.2) and P-TPMS sensor valve stem assembly together by screw(fig.1)
5. Hold P-TPMS sensor body (fig.2) down against the rim drop center and thread/tighten P-TPMS sensor washer(fig.4) and nut(fig.5) to 35 inch-pounds, and tighten P-TPMS sensor screw and valve assembly(fig.3) to 9.7inch-pounds.



Each time a tire is serviced or dismounted, or if the P-TPMS sensor (fig.2) is removed, it is MANDATORY to replace the P-TPMS sensor washer(fig.4), P-TPMS sensor nut(fig.5), and P-TPMS sensor valve core(fig.3) with CUB parts(use only CUB service component kits designed for P-TPMS sensor) to ensure proper sealing.

It is MANDATORY to replace the P-TPMS sensor if it is externally damaged.

Warning: The P-TPMS sensor nut must be properly installed and tightened for proper installation. Carefully follow instructions and use a torque wrench to ensure proper installation. Failure to torque the P-TPMS sensor nut properly will void the warranty and the TPMS may not function properly.

Correct P-TPMS sensor nut torque: 35 inch-pounds, correct P-TPMS sensor screw torque: 9.7 inch-pounds.

P-TPMS SENSOR AND/OR P-TPMS SENSOR VALVE STEMS BROKEN BY OVERTORQUE ARE NOT COVERED UNDER WARRANTY. FAILURE TO ACHIEVE THE NECESSARY P-TPMS SENSOR NUT TORQUE MAY RESULT IN AN INADEQUATE AIR SEAL, RESULTING IN TIRE AIR LOSS.

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**WARNING**

**Read all instructions and warning, and review all illustrations before installing.**

**Professional installation only.**

**Failure to follow installation instruction may result in the failure of the motor vehicle Tire Pressure Monitoring System(“TPMS”) to operate properly.**

**WARNING**

Failure to complete and return P-TPMS sensor warranty information will make it difficult of Cub to contact you in the unlikely event the P-TPMS sensor requires special servicing.

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**IMPORTANT WARRANTY INFORMATION** TO ACTIVE WARRANTY, please complete the following section and send to:

P-TPMS sensor warranty●**Shanghai Vei Sheng Auto Parts Manufacturing Co., Ltd**  
● Attn: No.51, Jinwen Road, Zhuqiao Town, Pudong New District, Shanghai, PRC 201323

Professional Installer: Name: \_\_\_ Place of Repair: \_\_\_ Address: \_\_\_ Phone: \_\_\_  
Vehicle Owner: Name: \_\_\_ Address: \_\_\_\_\_  
Motor Vehicle: Make: \_\_\_ Model: \_\_\_ Year: \_\_\_ VIN Number: \_\_\_\_\_  
P-TPMS sensor date of installation: (M) \_\_\_ / (D) \_\_\_ / (Y) \_\_\_  
P-TPMS sensor date code. Take date code from P-TPMS sensor housing: \_ \_ \_ \_  
\_ \_ \_ \_ (8 digits)  
Part Number of sensor being replaced(take from old sensor housing): \_\_\_\_\_  
Manufacturer of sensor being replaced(take from old sensor housing), circle selection:  
Schrader or AirAware/TRW or EnTire Solutions/Orange/Beru/Lear/IntelliTire/Simens VDO/Continental/Pacific/other: \_\_\_\_\_

**Important Installer and Customer P-TPMS sensor Information**

**Installer to review prior to installation. Installer to review with customer and keep in motor vehicle glove box. Photocopy as necessary.**

- Upon P-TPMS sensor’s installation, nearly every Chrysler vehicle model year 2004 and later must be driven for the vehicle relearn process, with no TPMS scan tool procedure(automatic relearn).
- For all other vehicles, an electronic TPMS scan tool(also known as a trigger or relearn tool) must be used for the P-TPMS sensor’s vehicle relearn process. P-TPMS sensors work with all major TPMS scan tools including Cub Gen.3 tool.

Follow the OE TPMS sensor procedure on the scan tool for the vehicle relearn.

- Under certain circumstances, the TPMS scan tool trigger button may need to be pressed more than once or the tool may need to be reset to complete vehicle relearn process(may apply to both P-TPMS sensor multi-application sensors and OE sensors).
- Under certain circumstances, the TPMS scan tool display during P-TPMS sensor's triggering process may show different information versus OE sensors. TPMS scan tool vehicle relearn process remains unchanged.
- Each P-TPMS sensor has a unique ID#. The ID# can be obtained after programming the blank sensor by Cub Gen.3 tool. Due to the large variety of different vehicle requirement and the TPMS scan tool used, the sensor ID# on the TPMS scan tool display may be in hexadecimal or decimal format and may be equal to or fewer than 10-digit. These differences may result in an ID# on the TPMS scan tool display during triggering that appears to not coincide with the ID# which read on Gen.3 tool. The hexadecimal or decimal format can be transformed by setting the Cub Gen.3 tool. After transforming the format, reprogram the P-TPMS sensor. Be sure to confirm the ID# after the reprogramming.
- Due to differing TPMS protocol scaling factors, tire pressure displayed on electronic TPMS scan tool may not be accurate (may apply to both P-TPMS sensors and OE sensors). Be sure to confirm tire pressure with tire pressure gauge.
- P-TPMS sensor's maximum potential pressure reading is approximately 130 psi. P-TPMS sensors are not intended for high pressure vehicle applications.
- P-TPMS sensors transmit tire pressure and temperature data regularly while the vehicle is in motion above a predetermined vehicle speed threshold (approx. 15mph(25kph)), or at the time of triggering by an electronic TPMS scan tool.

**FCC Caution**

- . Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- . This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

**FCC Notice**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.