AUTEL TPMSDFA21 Programmable Universal TPMS Sensor User Manual

TPMSDFA21 Programmable Universal TPMS Sensor User Manual

1 SENSOR E
Web: www.autel.com
www.maxitpms.com
PROGRAMMABLE UNIVERSAL TPMS SENSOR MX-SENSOR
Metal Valve Sensor (Press-in)

CAUTION:

- This guide takes 1 Sensor as an example for Illustration.
- Autel MX-Sensors arrive blank and must be programmed with Autel TPMS tool, which recommended to program prior to Installation.
- Do not race with the vehicle on which the Clamp-In NV-Sensor Is mounted, and always keep the drive speed under 300 km/h (186 mph).

Contents

SAFETY INSTRUCTIONS

Before installing the sensor, read the installation and safety instructions carefully. For reasons of safety and for optimal operation, we recommend that any maintenance and repair work be carried out by trained experts only, in accordance with the guidelines of the vehicle manufacturer. The valves are safety-relevant parts which are intended for professional installation only. Failure to do so may result in the failure of the TPMS sensor. AUTEL does not assume any liability in case of faulty or incorrect installation of the product.

CAUTION

- The TPMS sensor assemblies are replacement or maintenance parts for vehicles with factory installed TPMS.
- Make sure to program the sensors by AUTEL sensor programming tools by the specific vehicle make, model and year before installation.
- Do not install programmed TPMS sensors in damaged wheels.
- In order to guarantee optimal function, the sensors may only be installed with original valves and accessories provided by AUTEL
- Upon completing the installation, test the vehicle’s TPMS following the procedures described in the original manufacturer’s user guide to confirm proper installation.

✓ WARRANTY

AUTEL guarantees that the sensor is free from material and manufacturing defects for a period of twenty-four (24) months or for 25,000 miles, whichever comes first. AUTEL will at its discretion replace any merchandise during the warranty period.
The warranty shall be void if any of the following occurs:

1. Improper installation of products
2. Improper usage
3. Induction of defect by other products
4. Mishandling of products
5. Incorrect application
6. Damage due to collision or tire failure
7. Damage due to racing or competition
8. Exceeding specific limits of the product

CUSTOMER & TECH SUPPORT

☎ 855-288-3587 (US) 0049 (0)
61032000522 (EU) 0086-755-86147779 (CN)
sales@autel.com
supporttpms@auteltech.com
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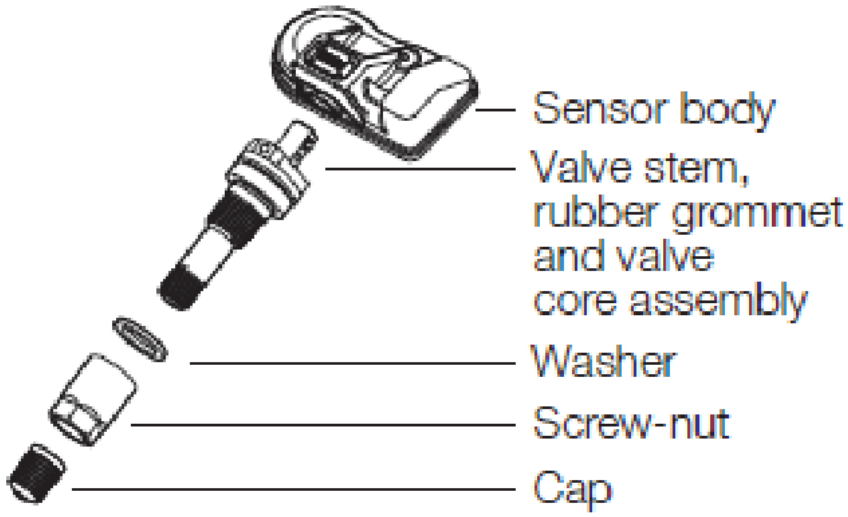
EXPLODED VIEW OF SENSOR



Technical data of the sensor

Weight of sensor without valve	12 g
Dimensions	approx. 42.2’27.9’17.4 mm
Max. pressure range	800 kPa

⚠ **CAUTION:** Each time a tire is serviced or dismounted, or if the sensor is removed or replaced, it is mandatory to replace the rubber grommet, washer, nut and valve core with our parts to ensure proper sealing. It is mandatory to replace the sensor if it is externally damaged. Correct sensor nut torque: 4 Newton-meters.

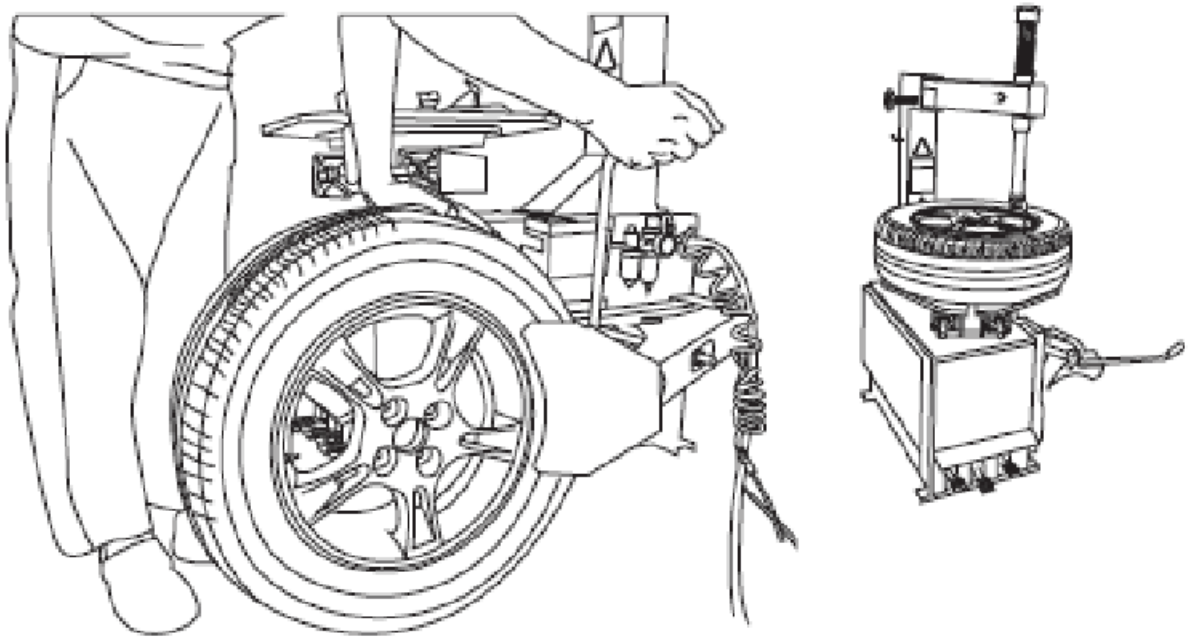
INSTALLATION GUIDE

⚠ **IMPORTANT:** Before operating or maintaining this unit, please read these instructions carefully and pay extra attention to the safety warnings and precautions. Use this unit correctly and with care. Failure to do so may cause damage and/or personal injury and will void the warranty.

1. **Loosening the tire**

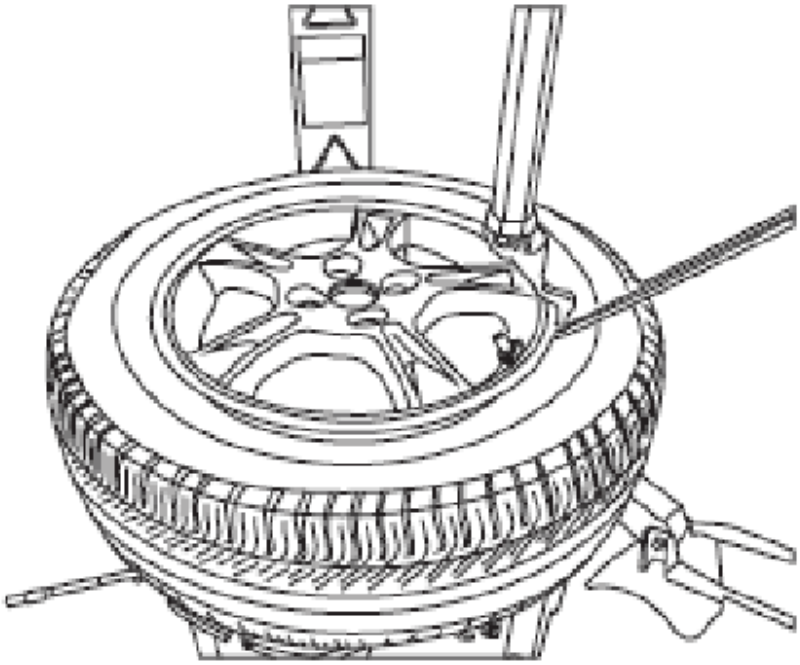
   Remove the valve cap and core and deflate the tire. Use the bead loosener to unseat the tire bead.

   ⚠ **CAUTION:** The bead loosener must be facing the valve.



2. Dismounting the tire

   Clamp the tire onto the tire changer, and adjust the valve at 1 o'clock relative to the tire separation head. Insert the tire tool and lift the tire bead onto the mounting head to dismount the bead.



⚠ **CAUTION:** This starting position must be observed during the whole dismounting process.

3. Dismounting the sensor

   Remove the cap, screw nut, and washer from the valve stem, and then remove the sensor assembly from the rim.

4. Mounting sensor and valve

   Step 1. Firmly connect the valve stem and the sensor body.

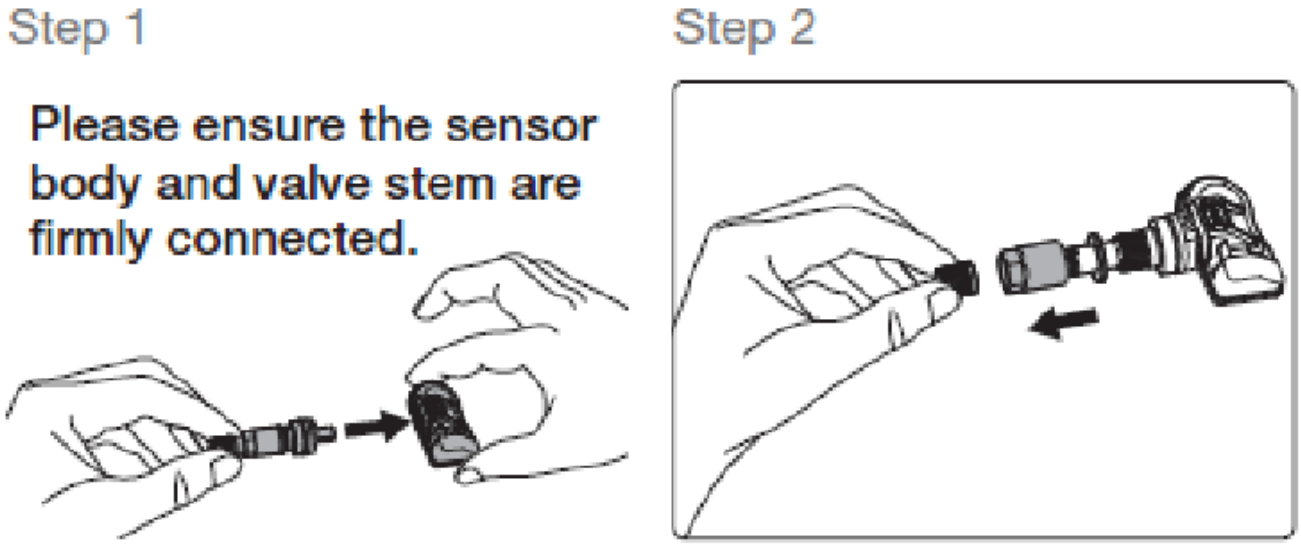
   Note: ensure the assembly will not fall apart.

   Step 2. Remove the cap, screw nut, and washer from the valve stem one by one.

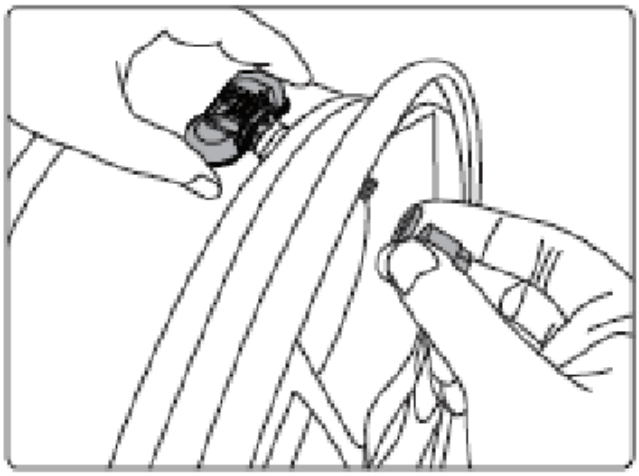
   Step 3. Slide the valve stem through the valve hole of the rim with the sensor on the inside of the rim, assemble the two parts back on the stem in the order of washer, screw nut.

   Step 4. Tighten the screw nut with 4.0 N.m with the help of the find rod, then assemble the cap back on the stem.

   ⚠ **WARNING:** It's mandatory to use the feed rod to instal the clamp-in W-Sensor, else some unknown damages wifi be caused. The washer, screw nut, and cap should be located outside of the rim.



Step 3



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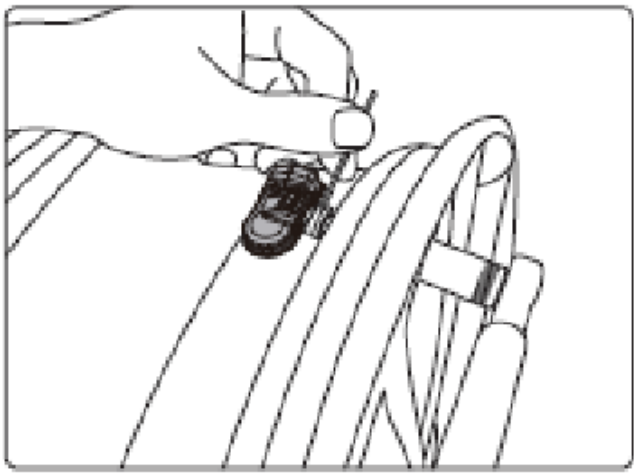
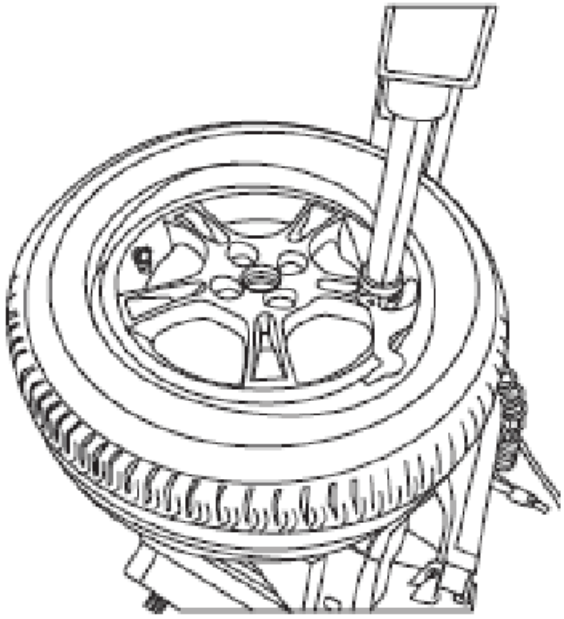


5. Mounting the tire

   Place the tire on the rim, make sure that the valve faces the separation head at an angle of 180 °. Mount the tire over the rim.



CAUTION: The tire should be mounted to the wheel using tire changer manuf-acturer's instructions.

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Rubber Valve Sensor (Press-in)

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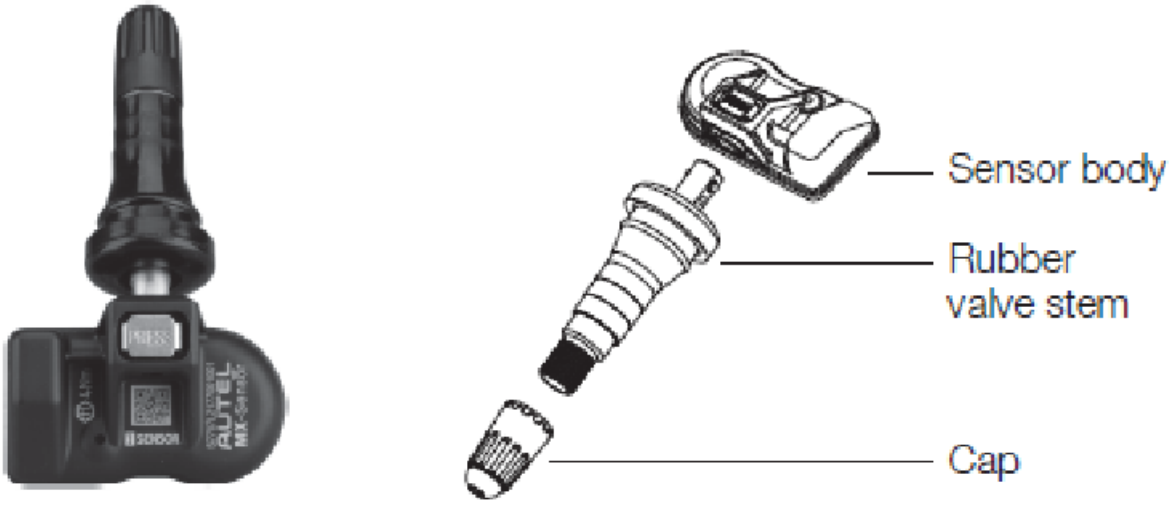
EXPLODED VIEW OF SENSOR



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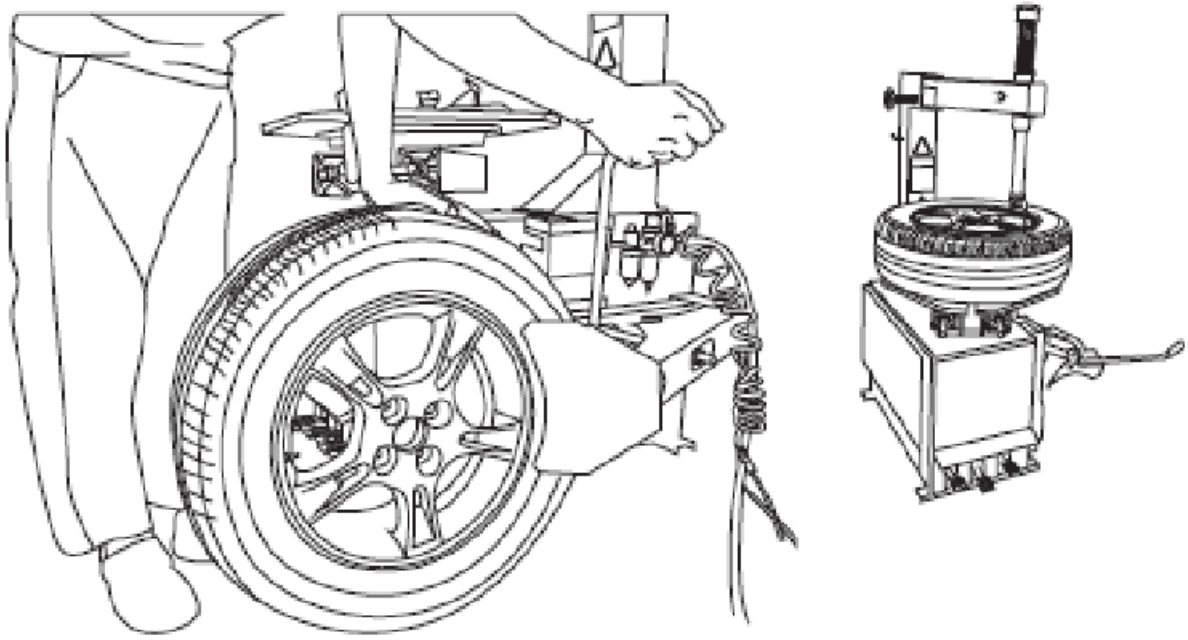

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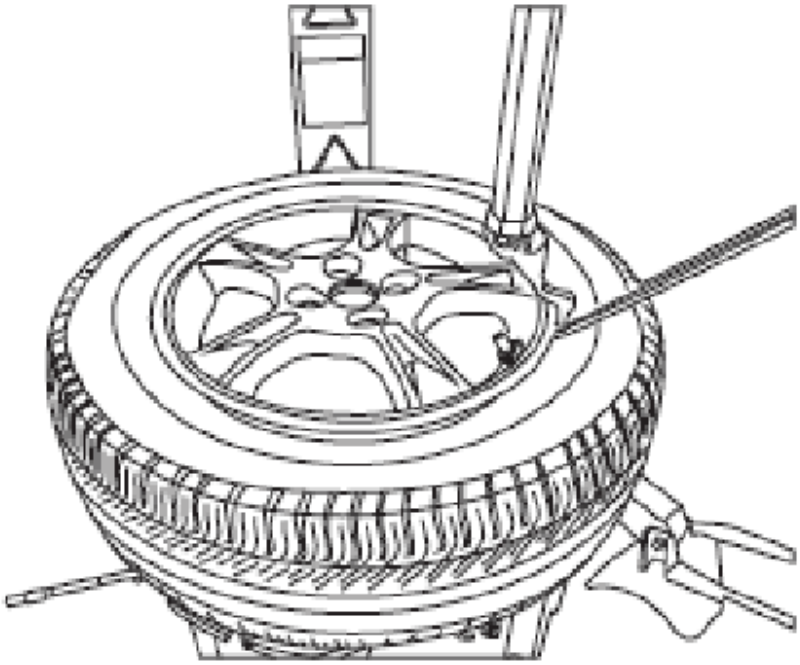
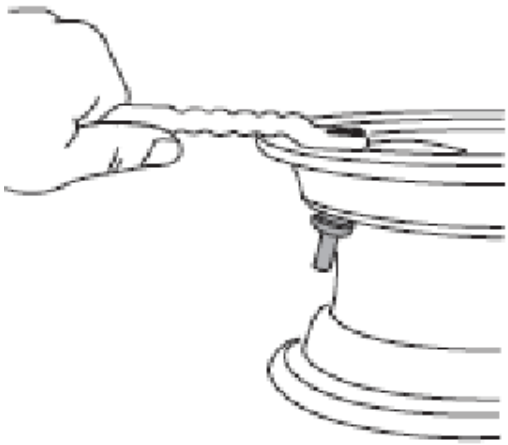


⚠ **CAUTION:** This starting position must be observed during the whole dismounting process.

2. Dismounting the sensor

   Depress the Press button on the sensor body, carefully pull the sensor body straight back off the valve. Cut the rubber bulb and attach a standard TN tool to the valve. Remove the valve from the rim by pulling through the rim.



3. Mounting sensor and valve

   Step 1. Apply tire soap or lube solution to the rubber valve stem.

   Step 2. Line the sensor up with rim hole and attach a standard TN pull in tool to the end of the valve.

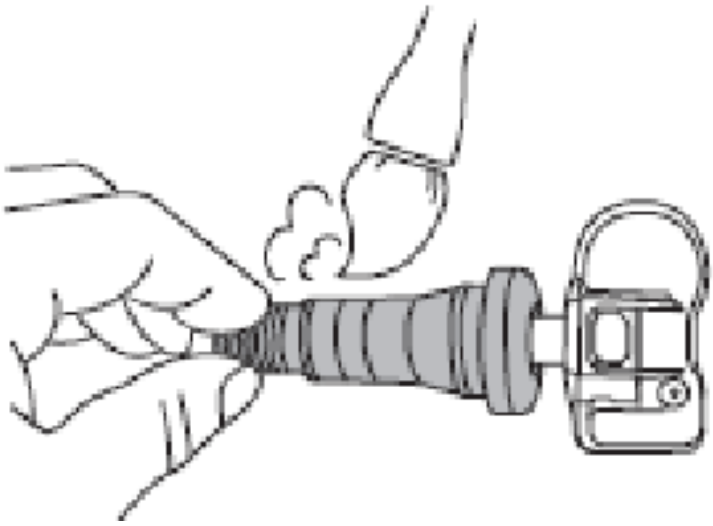
   Step 3. Pull the valve stem straight through the valve hole.

   Note the rubber bulb of the valve resting against the rim, then assemble the cap back on the stem.

   ⚠ **CAUTION:** The valve and rim hole should be concentric.

   Step 1

   Please ensure the sensor body and valve stem are firmly connected



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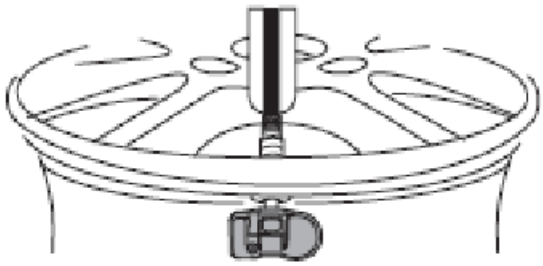

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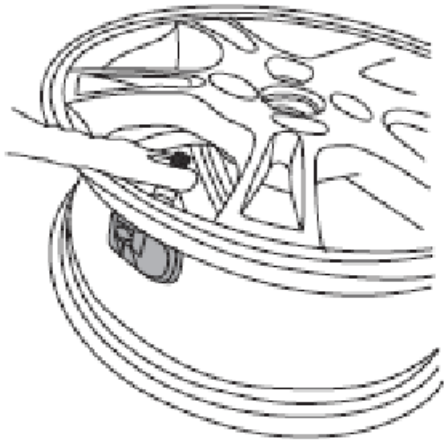

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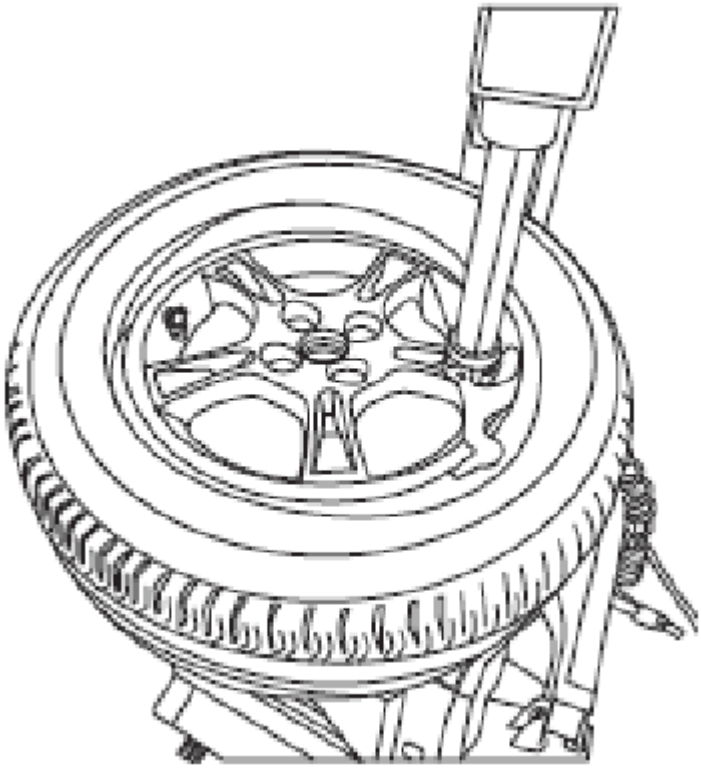

CAUTION: The tire should be mounted to the wheel using tire changer manufacturer's instructions.

FCC STATEMENT:

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.
Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
ISED Statement
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device. The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).
This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian Information on RF exposure and compliance.
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Documents / Resources

	AUTEL TPMSDFA21 Programmable Universal TPMS Sensor [pdf] User Manual TPMSDFA21 Programmable Universal TPMS Sensor, TPMSDFA21, Programmable Universal TPMS Sensor, Universal TPMS Sensor, TPMS Sensor, Sensor