XTOOL TS200 Programmable Universal Tire Pressure Sensor User Manual

TS200
Programmable Universal Tire-Pressure Sensor
TS200 Universal Tire-Pressure Sensor
User Manual Metal Valve / Camp-n Style)

Contents

Disclaimer

Please read this manual carefully before installing TS200 universal tire sensor (hereinafter referred to as TS200). For safety reasons, all the installation and maintenance operations should be carried out by trained professionals, with the guidance of vehicle manufacturer. Tire valves are vehicle-safety related component and incorrect installations may cause malfunctions for tire valves or TPMS sensors. Shenzhen Xtooltech Intelligent Co., Ltd. (hereinafter referred to as “Xtooltech”) does not assume any liability in case of incorrect installation of the product. Pictures illustrated here are for reference only and this user manual is subject to change without prior notice.

Warranty

TS101 sensor is guaranteed to be free from material or manufacturing defects for a period of 24 months or 40,000km (25,000 miles), whichever comes first. In case of defections caused by material or workmanship, Xtooltech will repair or replace (according to the situations) the product or parts for free by inspecting the proof of purchase. Xtooltech are not responsible for defects caused in the following circumstances: Incorrect installation; Irregular usage; Damage caused by collision or tire damage; Exceeding specific using limits of the product.

Specification

Sensor Weight (valve not included)	approx. 13 g
Dimensions (valve not included)	46.1 x 25 x 16.2mm (1.81° x 0.98″ x 0.64″)
Max. Pressure	900 kPa (9.0 bar or 130.5 psi)
Max. Speed	240 km/h (150mph)

⚠ **Warning!**
Before Installation, please use the “XTool TPMS” Mobile app and program the sensor(s). Make sure the vehicle is equipped with TPMS(Tire Pressure Monitoring System) before installation. You can check all vehicle models that are supported by TS200 sensor via “XTool TPMS” app. • Do not install a programmed TS101 sensor inside a broken wheel. To ensure the best performance, do not install valve stems from other manufacturers, or install other parts which is not included inside TS101 sensor. After finished installation, please test the TPMS system according to the guidance inside user manual from the original vehicle manufacturer, in order to confirm that the sensor is installed correctly. When the tire is removed, it is highly recommended to replace or service the sensor. If the tire is using rubber valve, the valve stem must be replaced. When driving vehicles with TS101 installed, the speed should be under 240km/h (150mph) and the tire pressure should be no higher than 900 kPa (9.0 bar or 130.5 psi).

Contact Us

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E-mail Address: **supporting@xtooltech.com**

Before USE – Programming Sensors

⚠ To makesure thesersors are workng properly,pleas eread this guide befoe unpackng and program thesensor according tothe programming instructions.

Get XTool TPMS App

Please take a smartphone (Android 5.1(64-bt)or iOS 90+ required),and find “XToolTPMS” app in the appstoreYou can also gettheapp by scanning the QRCode on the packageThis app canbeusedas TS200 sensor programming & detecton and can aso be used to search for TPMSrelearning method and OEM sensor information.

⚠ Make sure your smartphone (or othe smart devices) supports NFC function befor enstalng the app.

Select Vehicle (or sensor P/N)

In the “XTool TPMS” app (hereinafter called “App”) you can select the vehicle brand, find the model and model year and get into the programming page for the vehicle. Or you can also search for the OE sensor P/N (Parts Number), and get to the programming page for the sensor.

Programming Page

Here is a brief introduction on the programming page.

1. Programming mode: You can select the mode here, from auto to manual. Auto: The sensor ID will be randomly generated and be written to the sensor. The sensor needs to be relearned after installation. Manual: You can enter a sensor ID manualy and the app will write the ID to the sensor. If you can get the original ID and write it to the sensor, the sensor does not need to be relearned.

2. ID enter fields: If you select “Manual”, then the ID fields will appear. DEC fields only accept decimal IDs. HEX fields only accept hexadecimal IDs.
3. OK button: Click this button to start programming.

Start Programming

Click “OK” to start programming. Put the back of the sensor (the square part, transparent side up) close to the NFC sensing area of your smartphone (or other devices) . If the phone detects the sensor, the app will start programming automatically. DO NOT move the sensor or the smartphone until the programming succeeded, or the programming will fail and you will have to try again.

⚠ The NFC sensing area differs between smartphones. Normally, smartphones with Android / HarmonyOS usually place the sensing area on the upper side on the back of the phone; And iPhones normally place the sensing area on top of the phone. Please check the location of the sensing area on your phone before programming.

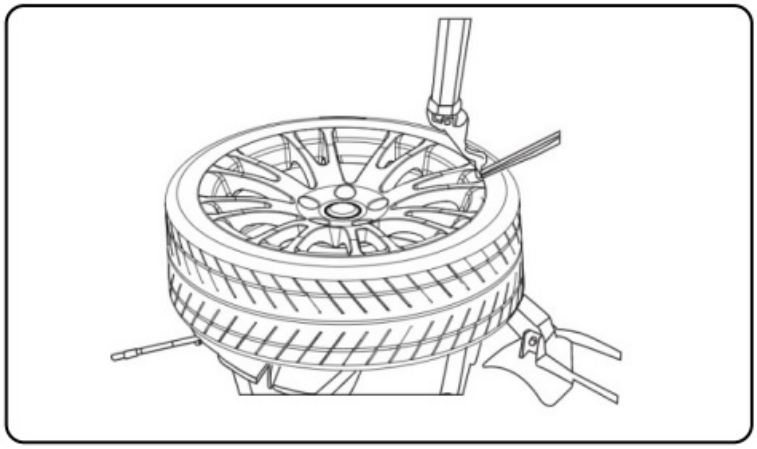
Other APP funcrions

1. Check sensors: You can check all sensor informations (ID, SN, battery voltage, etc.) by NFC using the app.
2. History records: Vehicles / Sensor menus that has been programmed before will be shown here. This can be used as a shortcut to get into the menus.
3. Settings & Updates: You can update the database, or send feedbacks here.

Before USE – Install Sensors

⚠ Before repairing, uninstall tires, or installing sensors, please use the original valve, rubber gasket, screws, etc. from XTool to ensure airtightness. Sensors have to be changed if the tires are damaged. The torque of the valve nut should be under 4Nm.

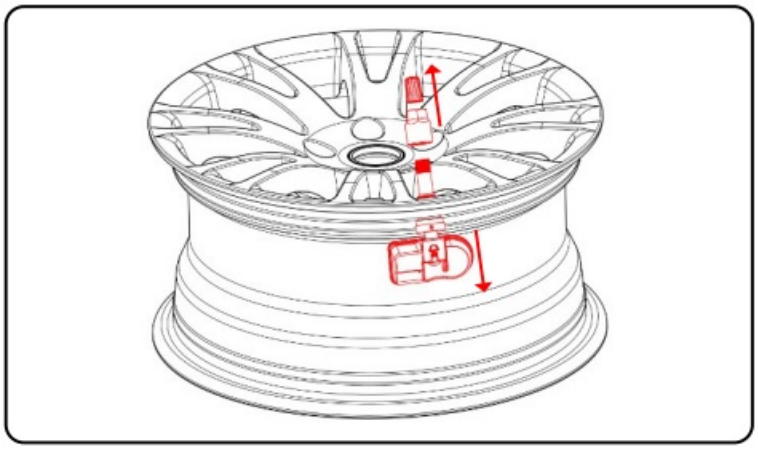
1. Uninstall tires Remove the valve cap and valve core, and deflate the tire. After deflation, use a pneumatic shovel to peel the rubber tire off the rim. Fix the tire, adjust the valve to the 1 o’clock position relative to the tire separation head, insert the tire tool and lift the tire bead onto the installation head to remove the bead.



⚠When removing the tire and rim, please face the valve at 180° towards the air pressure shovel. During the tire removal process, the starting position must be maintained.

2. Uninstall sensor

   Remove the valve cap and nut from the valve stem, and then remove the original tire pressure sensor assembly from the rim.



3. Install sensor

   Remove the valve cap from the valve.

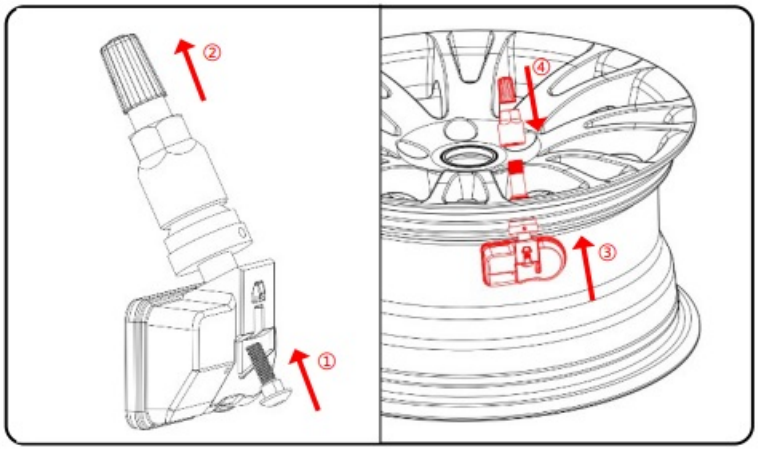
   Pass the valve core and the sensor body through the rim valve hole so that the sensor is placed inside the rim.

   Install the nut back on the valve stem and tighten the nut with a torque of 4Nm.

   According to the installation of the sensor on the rim, adjust the angle between the sensor body and the valve, and tighten the fastening screws on the sensor.

   Place the tire on the rim, make sure the valve faces the separation head at an angle of 180°, and install the tire.

   After installation, inflate the tire according to the tire pressure reference value on the vehicle nameplate.



Compliance Information

FCC Compliance

FCC ID: 2AW3ITPMS4

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

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 can generate, use and 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 the receiver.
- Connect the equipment to 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 Exposure Warning Statements:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

Responsible Party
Company name: TianHeng Consulting, LLC
Address: 392 Andover Street, Wilmington, MA 01887, United States
E-mail: **tianhengconsulting@gmail.com**

ISED Statement
IC: 29441-TPMS4
PMN: Tire Pressure Sensor
HVIN: TPMS4
This device contains licence-exempt transmitter(s Vreceiver(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.
CAN ICES (B) / NMB (B).
This device meets the exemption from the routine evaluation limits in section 6.6 of RSS 102 and compliance with RSS 102 RF exposure, users can
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.
The device for operation in the band 5150-5350 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
This radio transmitter has been approved by Industry Canada to operate with the antenna types listed with the maximum permissible gain indicated. Antenna types not included in this list, having again greater than the maximum gain indicated for that type, are strictly prohibited foruse with this device.
This equipment complies with IC exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

Declaration of conformity
Hereby, Shenzhen XTOOLtech Intelligent Co., Ltd declares that this Tire Pressure Sensor is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. In accordance with Article 10(2) and Article 10(10), this product allowed to be used in all EU member states.

UKCA
Hereby, Shenzhen XTOOLtech Intelligent Co., Ltd declares that this Tire Pressure Sensor satisfies all the technical regulations applicable to the product within the scope of UK Radio Equipment Regulations (SI 2017/1206); UK Electrical Equipment (Safety) Regulations (SI 2016/1101); and UK Electromagnetic Compatibility Regulations (SI 2016/1091) and declare that the same application has not been lodged with any other UK Approved Body.

XTOOL
Next Tool for Auto

Documents / Resources

	XTOOL TS200 Programmable Universal Tire Pressure Sensor [pdf] User Manual TPMS4, 2AW3ITPMS4, TS200 Programmable Universal Tire Pressure Sensor, TS200, Programmable Universal Tire Pressure Sensor, Universal Tire Pressure Sensor, Tire Pressure Sensor, Pressure Sensor, Sensor

References

- ☑ _____
- User Manual