



Web: www.xtooltech.com

Programmable Universal Tire Pressure Sensor

TS100 Uni-Sensor (Metal Cycle Valve)1-Sensor



⚠ Attention: Before using the Xtool TS100 tire pressure sensor, you must use Xtool tire pressure programming device to program first, we suggest finishing programming before installing tires. When driving the vehicle which is equipped with this type of tire pressure sensor, we suggest maintaining vehicle driving speed $\leq 240\text{km/h}$.

Security guidance

Before installing TS100 tire pressure sensor, please read this security instruction. For the reason of security and optimized operation, we suggest all of the maintaining and repairing work be operated only by trained personnel according to vehicle manufacturer's guiding principle. Cycle valve is related to vehicle security parts, use only for professional installation, otherwise it may be result in TPMS tire pressure sensor damage. If error or incorrect installation occurs, Shenzhen Xtooltech Intelligent Co., Ltd do not undertake any responsibility.

Attention

- TS100 tire sensor module is replaceable and repairable parts of vehicle which is equipped with tire pressure monitor system of factory configuration factory.
- Before installation, make sure using Xtool tire pressure sensor programming tool via selecting specific vehicle series, vehicle type and the year of manufacture to program TS100 tire pressure sensor.
- Please do not install TPMS tire pressure sensor into the broken tire which has been programmed.
- In order to guarantee optimum performance, please do not install cycle valve and parts which are not belong to Xtool on Xtool TS100 tire pressure sensor.
- After finishing installation, please test vehicle TPMS according to original vehicle manufacturer's user guide steps to confirm correct installation.

Warranty repair

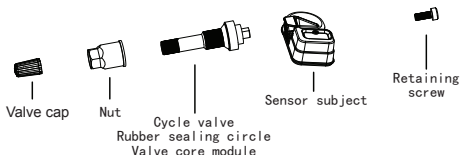
Shenzhen Xtooltech Intelligent Co., Ltd (Hereinafter referred to as "Company") promise to all this product original retail buyers, since the day of delivery and under two years or under 40000 km, if in the case of normal use, this product or any parts is confirmed to exist material or the flaw of craft resulting in device breakdown, the company will repair or replace (new products or new parts) free of charge accordingly via proof of purchase.

The company assume no responsibility for incidental damage or indirect damage caused by product misuse, improper operation or improper installation.

This warranty repair service is not applicable to these following situations:

1. Product rig up error.
2. Misuse.
3. Product damage caused by crash or tire defect.
4. Product damage caused by racing or other unconventional use.
5. Exceeding the product's specific using limit.

TS100 tire pressure sensor detail sketch



TS100 tire pressure sensor technical parameters

TS100 tire pressure sensor weight (Do not contain cycle valve)	13.8 g
Boundary dimension	About 46.4*25*16.2mm
Maximum pressure	900 kPa

⚠ Attention

Every time tire repair or disassembling, TS100 tire pressure sensor disassembling or replacement, must use our parts to replace rubber washer, washer, nut and valve core, make sure sealing well.

If it is external damage, must replace TS100 tire pressure sensor.

Correct TS100 tire pressure sensor nut torque: 4Nm.

Installation guide

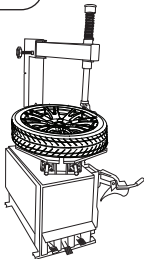
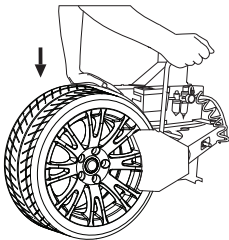
⚠ Significance: Before installing TS100 tire pressure sensor, please read this instruction carefully, pay special attention to safety warning and announcements of this instruction. Please use TS100 tire pressure sensor correctly according to this instruction, otherwise it may result in TS100 damage or personal injury, and make the warranty repair invalid.

① Loosen tire

Take down valve cap and valve core, deflate the tire.

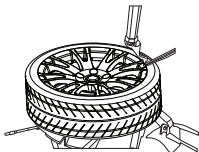
Use wind pressure shovel to strip tire rubber cover tire away from rim.

⚠ Attention: please let the cycle valve via 180° face to wind pressure shovel.



② Unload tire

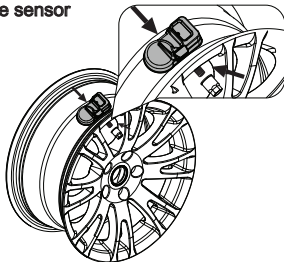
Clamp the tire on tire changer, adjust cycle valve to relative to tire separated plug 1 o'clock location, insert tire tool and lift the tire bead on installation plug to remove tire bead.



⚠ Attention: In the whole removal process must abide by this beginning location.

③ Remove TS100 tire pressure sensor

Remove the valve cap, nut, washer from cycle valve rod, then remove TS100 tire pressure sensor module from rim.



④ Install TS100 tire pressure sensor and cycle valve

Step1. Connect cycle valve and TS100 tire pressure sensor subject firmly.

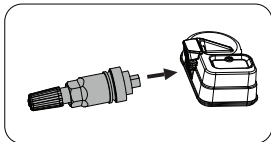
Attention: Make sure the parts are connected firmly.

Step2. Remove the valve cap, nut and washer from cycle valve.

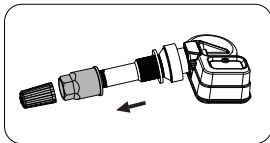
Step3. Valve rod across the valve opening, let TS100 tire pressure sensor located in rim interior, assemble washer, nut on valve rod fist at last.

Step4. Use 4.0 N•m torque screw up nut, then assemble bonnet back on valve rod.

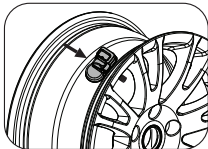
Step 1



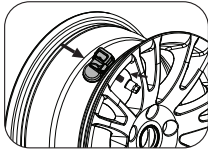
Step 2



Step 3



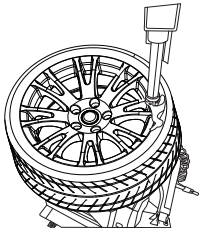
Step 4



⑤ Install tire

Put tire on the rim, make sure the valve is facing the separation head at 180 ° angle on the rim.

⚠ Attention: Should abide by change tire machine manufacturer instruction to install tire on rim.





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Programmable Universal Tire Pressure Sensor

TS100 Uni-Sensor (Rubber cycle valve)1-Sensor

⚠ Attention: Before using Xtool TS100 tire pressure sensor must use Xtool tire pressure device to program, suggest finishing programming before tire mounting. When driving the vehicle which is equipped with this type of tire pressure sensor, we suggest maintaining vehicle driving speed $\leq 210\text{km/h}$.

Security guidance

Before installing TS100 tire pressure sensor, please read this security instruction. For the reason of security and optimized operation, we suggest all of the maintaining and repairing work be operated only by trained personnel according to vehicle manufacturer's guiding principle. Cycle valve is related to vehicle security parts, use only for professional installation, otherwise it may be result in TPMS tire pressure sensor damage. If error or incorrect installation occurs, Shenzhen Xtooltech Intelligent Co., Ltd do not undertake any responsibility.

Attention

- TS100 tire sensor module is replaceable and repairable parts of vehicle which is equipped with tire pressure monitor system of factory configuration factory.
- Before installation, make sure using Xtool tire pressure sensor programming tool via selecting specific vehicle series, vehicle type and the year of manufacture to program TS100 tire pressure sensor.
- Please do not install TPMS tire pressure sensor into the broken tire which has been programmed.
- In order to guarantee optimum performance, please do not install cycle valve and parts which are not belong to Xtool on Xtool TS100 tire pressure sensor.
- After finishing installation, please test vehicle TPMS according to original vehicle manufacturer's user guide steps to confirm correct installation.

Warranty repair

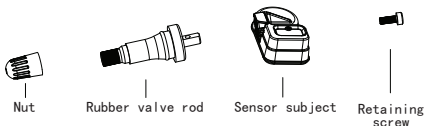
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2. Misuse.
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4. Product damage caused by racing or other unconventional use.
5. Exceeding the product's specific using limit.

TS100 tire pressure sensor detail sketch



TS100 tire pressure sensor detail sketch

Without cycle valve TS100 tire pressure sensor weight	13.8 g
Boundary dimension	About 46.4*25*16.2mm
Maximum pressure	900 kPa

⚠ Attention

Every time tire repair or disassembling, TS100 tire pressure sensor disassembling or replacement, must use our parts to replace rubber washer, washer, nut and valve core, make sure sealing well.

If it is external damage, must replace TS100 tire pressure sensor.

Correct TS100 tire pressure sensor nut torque: 4Nm.

Installation guide

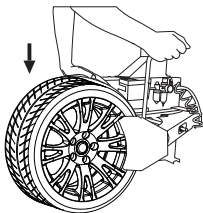
⚠ Significance: Before installing TS100 tire pressure sensor, please read this instruction carefully, please pay special attention to safety warning and announcements of this instruction. Please use TS100 tire pressure sensor correctly according to this instruction, otherwise it may be result in TS100 damage or personal injury, and make the warranty repair invalid.

① Loosen tire

Remove bonnet and core, and deflate the tire.

Use bead loose actuator unload tire bead.

⚠ Attention: Lock washer must face to cycle valve.

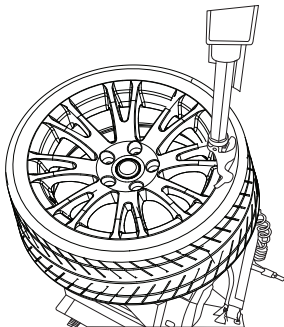


② Unload tire

Clamp the tire on tire changer, and it is relative to tire separated plug in to adjust cycle valve at 1 o'clock.

Insert tire tool and lift tire bead on installation plug to unload tire bead.

⚠ Attention: In the whole removal process must abide by this beginning location.



③ **Unload TS100 tire pressure sensor**

Screw out the screw at the end of rubber valve rod, fetch the sensor subject carefully. Carve up rubber snap joint and connect a standard cycle valve extractor to rubber valve, according to pull the margin to unload cycle valve from valve clack.



④ **Install TS100 tire pressure sensor and cycle valve**

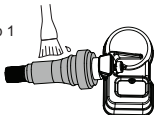
Step 1. Tighten the screws to connect the cycle valve and sensor subject firmly. Paint grease or lubricating oil on rubber valve rod.

Step 2. Insert the valve rod into valve opening from rim interior, and connect a standard valve cycle extractor to the end of valve rod.

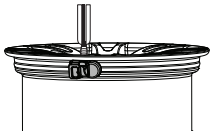
Step 3. Pull the valve rod to stuck on the valve opening firmly, then assemble the bonnet back on valve rod.

⚠ Attention: cycle valve and margin opening should be concentric.

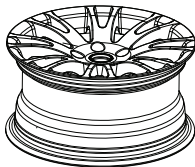
Step 1



Step 2



Step 3



⑤ Install tire

Put the tire on the rim, make sure cycle valve via 180° face to separated plug. Install the tire on the rim.

▲ Attention: Should use change tire machine manufacturer instruction to install tire on rim.

