



TP150 Tire Pressure Diagnosis Tool Operation Manual



Efficient Smart Portable

Please read this manual carefully before use

Brand:

Shenzhen Xtooltech Intelligent Co., Ltd has finished the trademark registration, the logo is **XTOOL** Shenzhen Xtooltech Intelligent Co., Ltd brand、 service mark、 domain name、 icon and company name which countries have not registered, Shenzhen Xtooltech Intelligent Co., Ltd declares it still has ownership for brand service mark、 domain name、 icon and company name which are not registered. Other products and company name which are referred from this operation manual are still belong to the original registered company, before acquire the written permission from owner, anyone should not use Shenzhen Xtooltech Intelligent Co., Ltd or other company brand、 domain name、 icon and company name which are referred.

Copyright:

Without written permission by Shenzhen Xtooltech Intelligent Co., Ltd, any companies or person should not copy or back up this operation manual in any form (electronic、 machinery、 photocopy、 record or other form)

Responsibility:

This operation manual only provide usage method, due to use this product or data to break the national law, users undertake all the consequences, company do not undertake any legal liability. The accident caused by users themselves or the third-party; or users misuse、 misuse this device; or unauthorized change, disassemble this device; or equipment damage caused by do not via this operation manual to use、 damage which are produce the cost and loss, Shenzhen Xtooltech Intelligent Co., Ltd do not undertake any legal responsibility. This operation manual is according to the product existing configuration and function to compile, if the product add new configuration and function, the new edition operation manual also will be changed, forgive us do not further notice.

After sales :

After-sales service hot line(400-880-3086)

Official website: <http://www.xtooltech.com>

Safety :

- This product only used for vehicle maintenance and repair professionals.
- When the engine is working, please keep maintenance district draughty, connect the engine with building exhaust system properly, the body will become sluggish caused by the white damp which is produced by the engine, even take place the serious personal injury or death.
- Please wear the goggle which is accord with the ANSI standard, and let the cloth、 hair、 hand、 tool、 diagnosis device away from working or heated engine parts.

Catalog

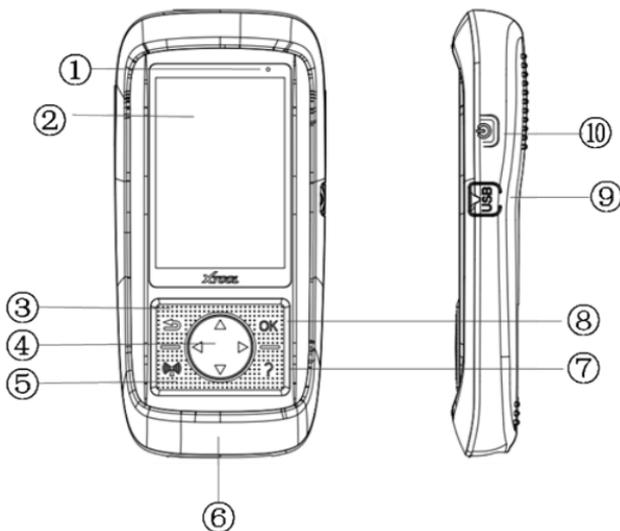
Chapter One Product cognition.....	3
1.1 Product overview.....	3
1.2 Appearance and interface.....	3
Chapter Two Product usage.....	6
2.1 Tire pressure diagnostic function.....	6
2.1.1 Main menu.....	6
2.1.2 Test vehicle information selection.....	7
2.2 Tire pressure service interface.....	8
2.3 Trigger tire pressure sensor.....	8
2.4 Tire pressure system diagnosis.....	9
2.5 The original sensor information.....	10
2.6 Programming sensor.....	11
2.6.1 Generate ID automatically.....	11
2.6.2 Input ID manually.....	11
2.6.3 Via activation copy.....	13
2.6.4 Read ECU copy.....	16
2.7 Tire pressure learning method.....	19
2.8 Recent test.....	22
2.9 Setting.....	23
2.9.1 Pressure unit setting.....	23
2.9.2 Temperature unit setting.....	24
2.9.3 The format of sensor ID.....	24
2.9.4 Auto power-off setting.....	25
2.9.5 District setting.....	25
2.9.6 Language setting.....	26
2.9.7 Warning tone setting.....	26
2.10 Upgrade.....	27
2.11 About.....	27

Chapter One Product cognition

1.1 Product overview

TP150 tire pressure diagnostic tool is equipped read、clear tire pressure fault code, trigger tire pressure sensor、acquire tire pressure sensor ID、tire pressure、temperature and state of battery. It provide tire pressure sensor learning method, support program Xtool programmable popular type tire pressure sensor. It will satisfy the different users fact requirement of vehicle maintenance and repair factory and tire repair store etc.

1.2 Appearance and interface



- ① Charge lamp ② LCD Display ③ Return ④ Direction Key ⑤ Activate/programming
- ⑥ DB15 connector ⑦ Help ⑧ OK ⑨ USB interface ⑩ Power switch

1. Display the device state of charge
2. Display product function menu
3. Cancel selection (or operation) or return the upper menu
4. Up/down key: Remove the menu up and down in menu mode
Left/right key: View previous/next screen information
5. Trigger tire pressure sensor to test or program tire pressure sensor
6. Connect tire pressure portable device with OBDII interface of vehicle
7. Provide help information
8. Confirm selection
9. Connect tire pressure portable device with PC to update or charge
10. Short time press is switch on/switch off device; Keep press 7s which can restart the device

1.3 Parameters

Display: 320x480 dpi TFT colorful display screen

Power: 3.7v lithium polymer battery

Working temperature: -10°C~60°C

Storage temperature: -20°C~70°C

Dimension: 200x92x33mm

Weight: 0.4kg

1.4 Parts list

1. Operation manual – Provide product operation instruction
2. OBDII cable – Connect product with test vehicle power and information
3. USB cable and power adapter – Connect USB cable with PC to tire pressure diagnostic device charging or update software, via power adapter and USB cable to charge tire pressure diagnostic device.
4. Blow molding box – Store the tire pressure diagnostic device and parts
5. Programmable popular type tire pressure sensor – The original tire pressure sensor alternative parts

1.5 Keyboard

Please use soft and non-abrasive cleaner and soft cotton cloth to clean keyboard and display screen. Do not use solvent (like alcohol) to clean device.

1.6 Battery

Product is equipped 3000mA/3.7V interior lithium polymer chargeable battery. Two types of charge, as follow separately.

Use USB cable, connect with PC to charge battery:

- 1.Find USB interface in device
- 2.Use USB cable connect with device and PC

Use USB cable adapter to charge battery:

1. Find USB interface in device
2. Use USB cable adapter connect with device and power

In order to keep device the best performance , please full charged the battery. Suggest at least 2 hours to charge before at the first time to use.

Attention:

Use only the USB cable adapter which is provided by our company parts to charge this device. Product damage caused by use the unauthorized power , so that product doesn't work , it's out of our guarantee repair range.

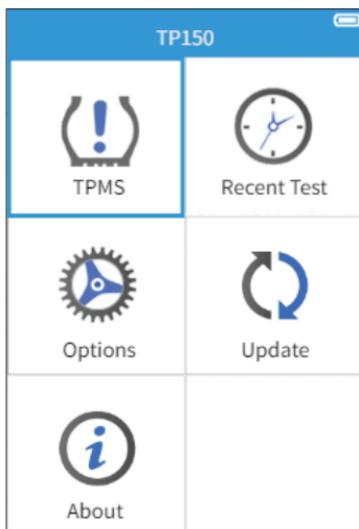
Chapter Two Product usage

2.1 Tire pressure diagnostic function

Tire pressure diagnostic function, mainly include: tire pressure system diagnosis、trigger tire pressure sensor、view the learning step and tire pressure sensor information、program tire pressure sensor function.

2.1.1 Main menu

Select **【Tire pressure diagnosis】** function, enter the test vehicle information selection page.



2.1.2 Test vehicle information selection

1、Vehicle area selection

TPMS	
1	China V5.70
2	Asia V5.70
3	America V5.70
4	Enrope V5.70

2、Vehicle brand selection

TPMS		01/24
1	Abarth	
2	Alfa Romeo	
3	Audi	
4	Bentley	
5	BMW	
6	Citroen	
7	Fiat	
8	Lamborghini	
9	Lancia	
10	Maybach	

3、Vehicle type selection

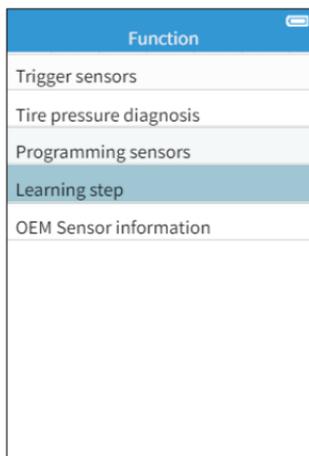
BMW		01/31
1	1 Series	
2	2 Series	
3	3 Series	
4	3 Series	
5	4 Series	
6	5 Series	
7	5 Series GT	
8	6 Series	
9	7 Series	
10	I3	

4、After select the years of vehicle, enter the tire pressure service page

BMW 3 Series	
1999-2002 (315MHz)	
1999.03-2011.02 (indirect)	
2000-2006 (433MHz)	
2017.01-2009.08 (433MHz)	
2011.10-2013.11 (433MHz)	
2014-2019 (433MHz)	

2.2 Tire pressure service interface

Tire pressure service interface (For use the direct-type tire pressure system vehicle) , Mainly include: Tire pressure system diagnosis、trigger tire pressure sensor、 tire pressure sensor programming、 view learning step、 view the original tire pressure sensor information.

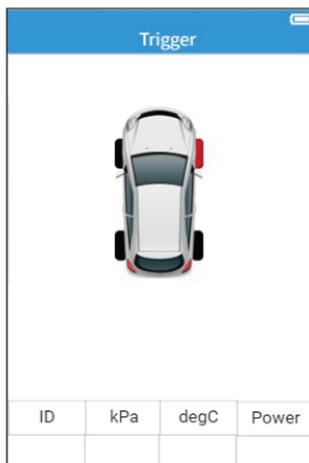


2.3 Trigger tire pressure sensor

Take the portable diagnostic device close to sensor or tire sidewall which is located in above the sensor.

Via direction key to switch select different tire location, click  activation key to trigger tire pressure sensor , take diagnostic device to receive tire pressure sensor data.

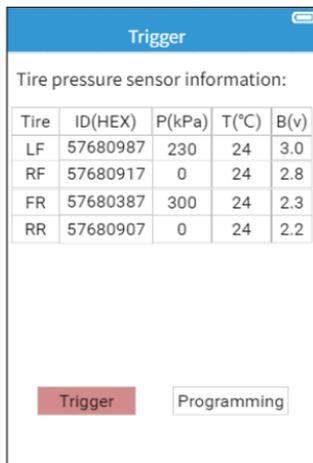
After activate succeed, the state and pressure of sensor will be displayed on the screen.



Click **OK** key, the detailed information of sensor will be displayed on the screen which is include sensor ID、 pressure、 temperature and voltage.

If part of tire pressure sensors do not acquire the data, select **【Activation continue】** to trigger tire pressure sensor acquire the tire pressure sensor ID or more information.

Select **【OBD learning】** write the acquired OBDII ID information in vehicle ECU.

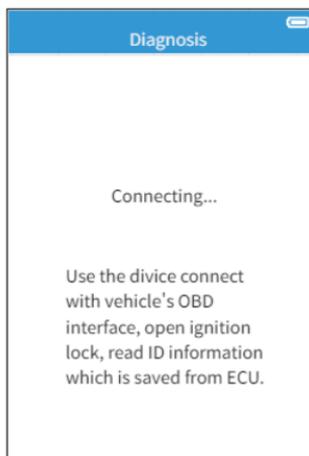


The screenshot shows a software interface titled "Trigger". Below the title is the text "Tire pressure sensor information:". Underneath is a table with five columns: Tire, ID(HEX), P(kPa), T(°C), and B(v). The table contains four rows of data for different wheel positions: LF, RF, FR, and RR. At the bottom of the screen, there are two buttons: "Trigger" (highlighted in red) and "Programming".

Tire	ID(HEX)	P(kPa)	T(°C)	B(v)
LF	57680987	230	24	3.0
RF	57680917	0	24	2.8
FR	57680387	300	24	2.3
RR	57680907	0	24	2.2

2.4 Tire pressure system diagnosis

Connect the vehicle OBD interface :
Use OBD cable connect with device and vehicle OBDII diagnosis interface, and open the ignition, tire pressure portable device will read vehicle ECU tire pressure related fault code automatically.



Display the tire pressure sensor ID information which is stored by vehicle ECU.

Screen will display the number of fault codes when has read it.

Select **【View fault code】** can view fault codes and its meaning.

Select **【Clear fault code】** can clear fault code.

Diagnosis		
Tire	Sensor ID	OBD ID
LF		31424122
LR		31324121
RF		31424323
RR		31424321
The quantity of fault code : 2		
View fault code		Clear fault code

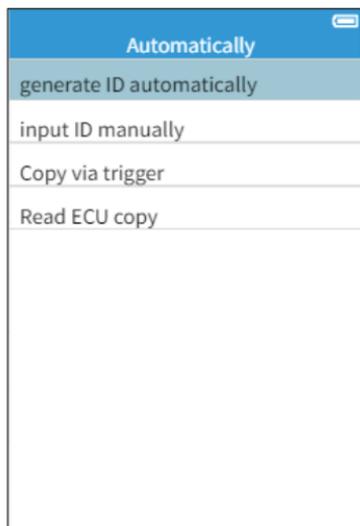
2.5 The original sensor information

Portable device will display the original sensor information which is install in test vehicle.

BMW 3 Series	
Original TPMS sensor information:	
Factory	USA TRW
Frequency	433MHz
OE Num	57680917
Learning type	S

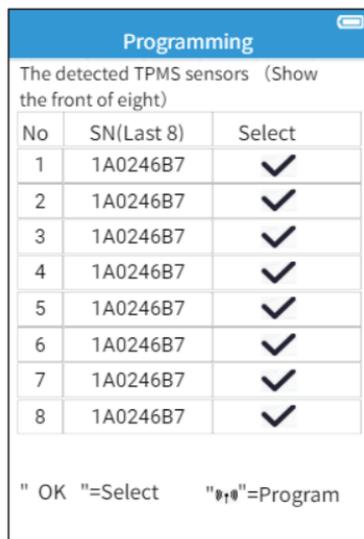
2.6 Programming sensor

Four programming ways to use for program Xtool programmable popular type tire pressure sensor: Generate sensor ID automatically、input sensor ID manually、 via activate copy sensor ID、 via read ECU copy sensor ID.



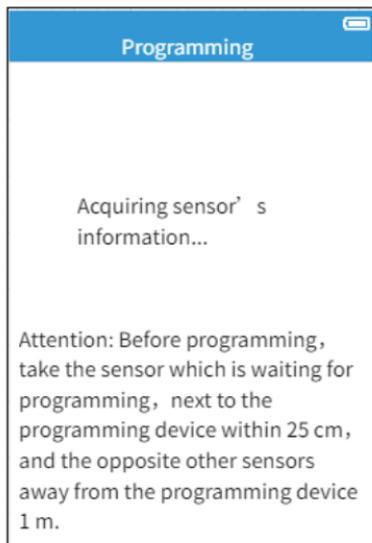
2.6.1 Generate ID automatically

This function use for auto set up sole sensor ID in 1~8 Xtool programmable popular type tire pressure sensor, these ID are random generation. The newly generate sensor ID usually different from the sensor ID which is stored by the original tire pressure system, so need learn the newly generate sensor ID into the original tire pressure system.

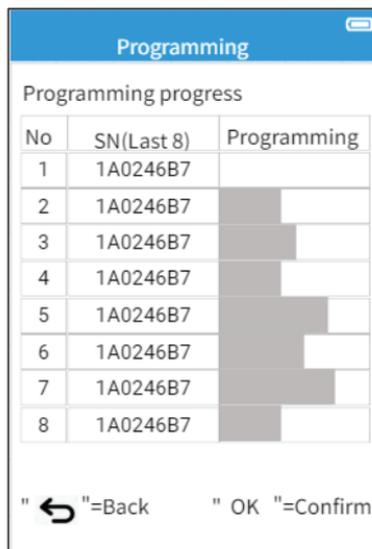


Take the waited programming Xtool sensor close to the top of programming device position, the device will auto detect nearby Xtool tire pressure sensor.

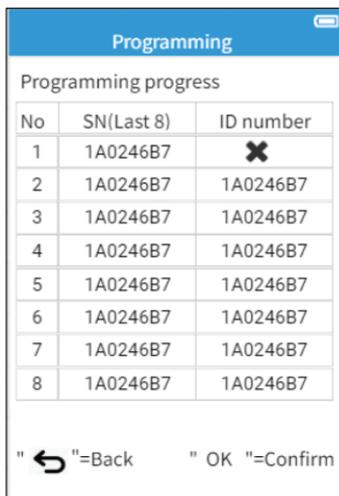
Via direction key select the waited programming tire pressure sensor, press OK to confirm.



Press  key to start program. It can program 1~8 Xtool tire pressure sensor at the same time.



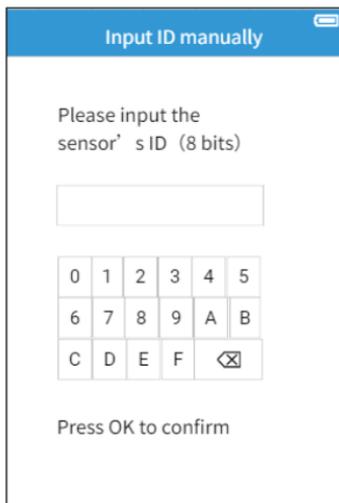
After tire pressure sensor finish the programming , display screen will display sensor SN (rear eight numbers) and corresponding ID. If have sensor programming failed, device will remind the failed information.



2.6.2 Input ID manually

Input ID manually, and program this ID in Xtool programmable popular type tire pressure sensor.

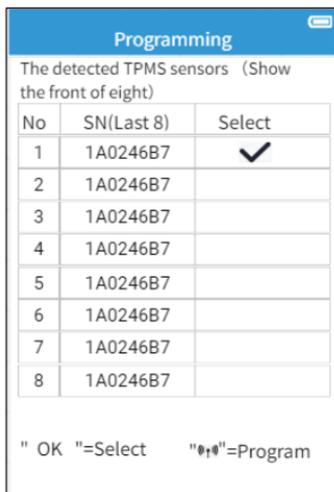
Press OK key to confirm after input it.



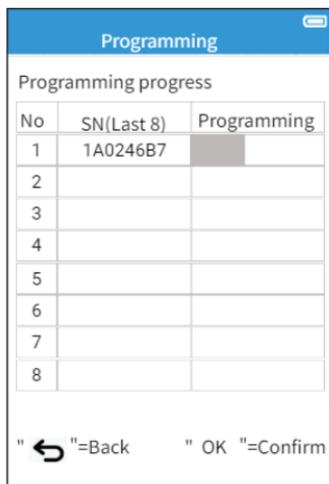
Take the waited programming Xtool sensor close to the top of programming device position, the device will auto detect nearby Xtool tire pressure sensor.



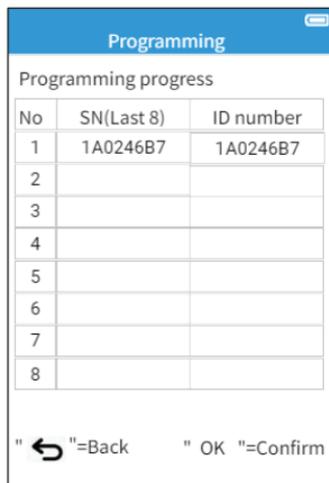
Via direction key select the waited programming tire pressure sensor, press OK key to continue.



Press  key to start program.



After tire pressure sensor finish the programming, display screen will display sensor SN (rear eight numbers) and corresponding ID.



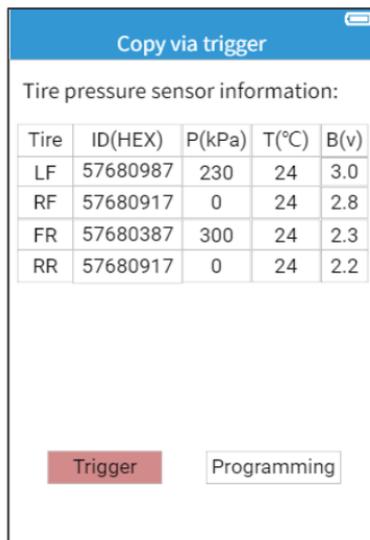
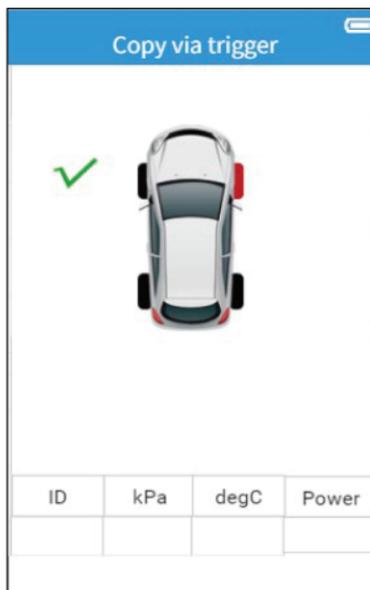
2.6.3 Via activation copy

Sensor which is via activation copy, identify this sensor ID, and program this ID in Xtool programmable popular type tire pressure sensor.

Activate copy single tire sensor ID, and can also activate copy multiple sensor ID.

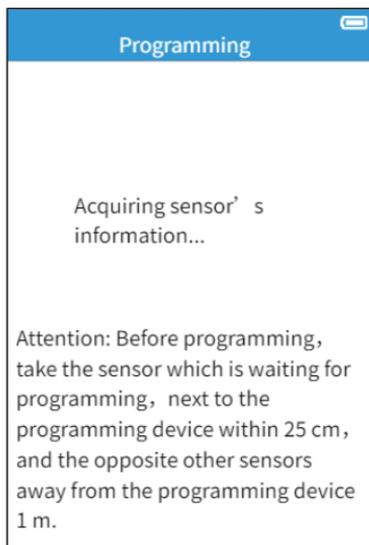
Press **【OK】** key to view which have activated sensor information.

Select **【Sensor programming】** and press **【OK】** key to continue programming operation.

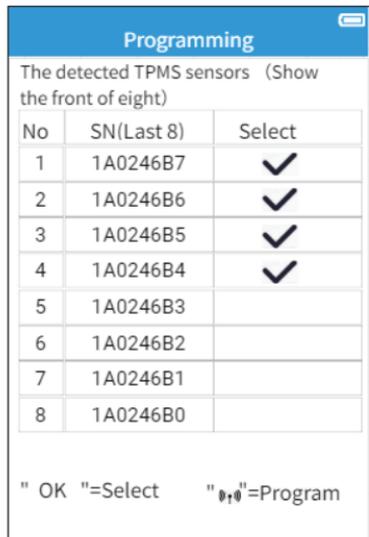


Take the waited programming Xtool sensor close to the top of programming device position, the device will auto detect nearby Xtool tire pressure sensor.

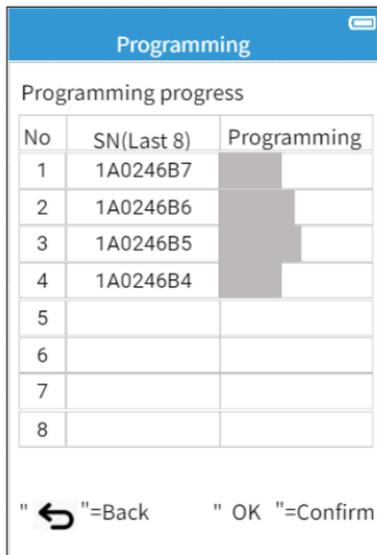
Prepare corresponding the number of Xtool tire pressure sensors previously when program multiple sensor ID.



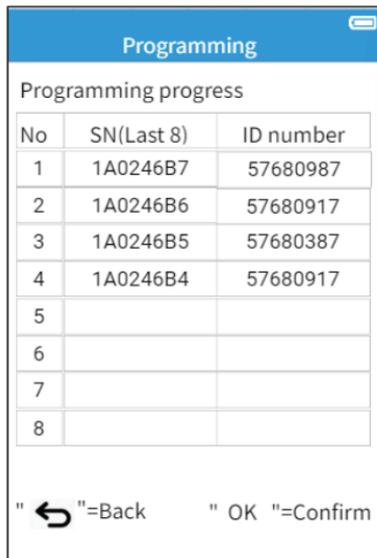
Via direction key select the waited programming tire pressure sensor, press OK key to continue.



Press  key to start program. It can program 1~6 Xtool tire pressure sensor ID in 1~6 Xtool tire pressure sensors.

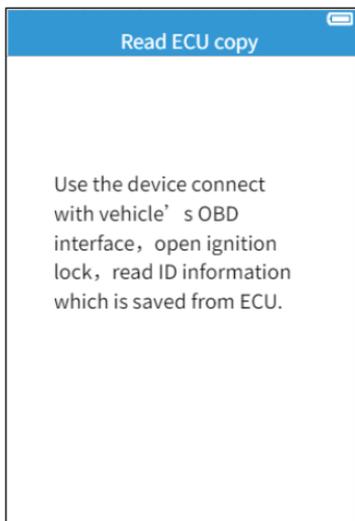


After tire pressure sensor finish the programming, display screen will display sensor SN (rear eight numbers) and corresponding ID.

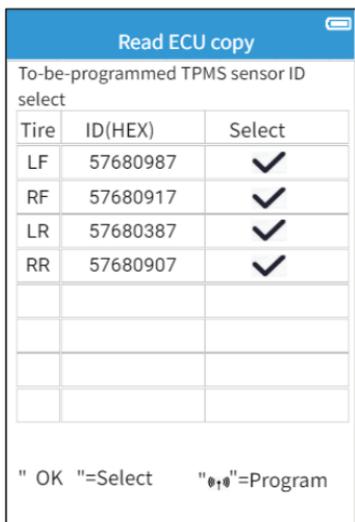


2.6.4 Read ECU copy

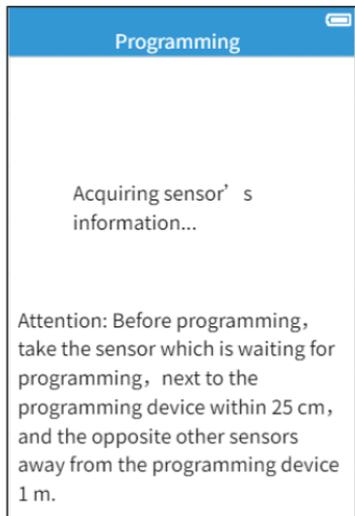
Read sensor ID which is stored by vehicle tire pressure system ECU, and program this ID in Xtool programmable popular type tire pressure sensor.



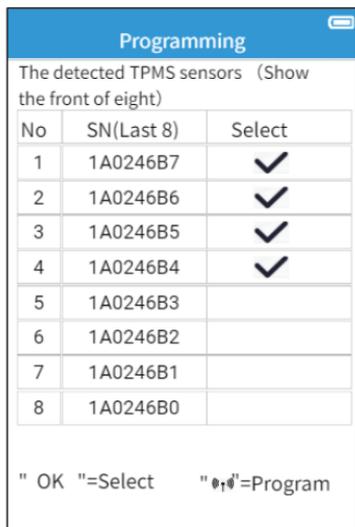
Via the sensor ID which is stored by vehicle tire pressure system of ECU to select waited programming ID. Program this ID in Xtool tire pressure sensor.



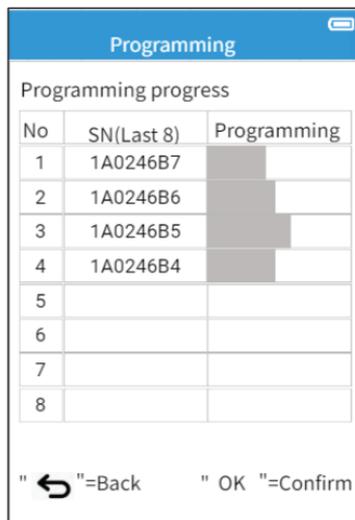
Take the waited programming Xtool sensor close to the top of programming device position, the device will auto detect nearby Xtool tire pressure sensor. Prepare corresponding the number of Xtool tire pressure sensors previously when program multiple sensor ID.



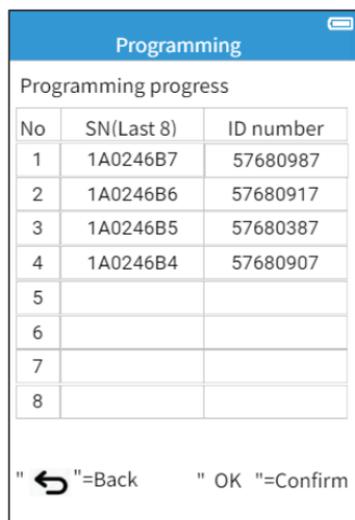
Via direction key select the waited programming tire pressure sensor, press OK key to continue.



Press  key to start program. It can program 1~6 Xtool tire pressure sensor ID in 1~6 Xtool tire pressure sensors.

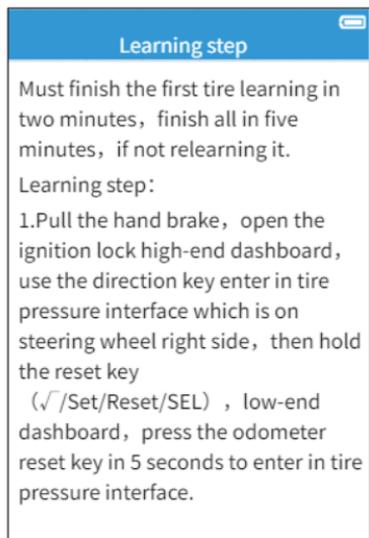


After tire pressure sensor finish the programming, display screen will display sensor SN (rear eight numbers) and corresponding ID.



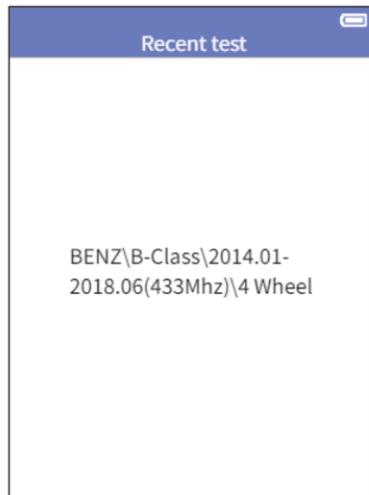
2.7 Tire pressure learning method

Please read learning steps, and via the steps to operate.



2.8 Recent test

Record recent tire pressure diagnostic vehicle type selection and tire pressure sensor trigger data, it is convenient to user continue the last unfinished operation or sensor data.



2.9 Setting

Provide change device setting、view software and hardware edition. This product can do adjustment and setting as follow:

- 1、 Pressure unit setting: Set pressure unit to kPa, Psi or Bar.
- 2、 Temperature unit setting: Set temperature unit to ℃ or ℉.
- 3、 The format of sensor ID: Set hexadecimal or decimalization for ID display
- 4、 Auto power-off setting: Set the device stand-by time before auto power-off setting
- 5、 District setting
- 6、 Language: Select device

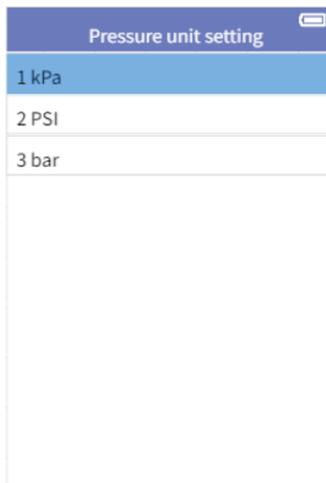
operation language

- 7、 Warning tone setting: Turn on/Turn off the key humming.



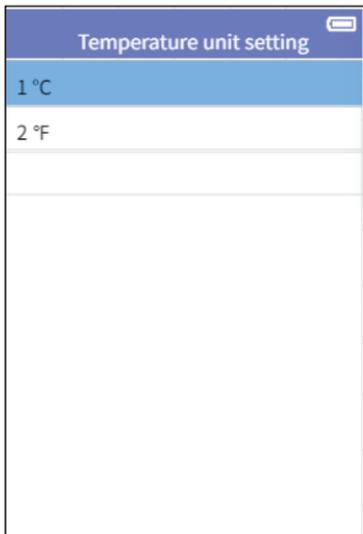
2.9.1 Pressure unit setting

Set pressure unit to kPa, Psi or Bar. Use pull up/pull down to select, then press OK key to confirm.



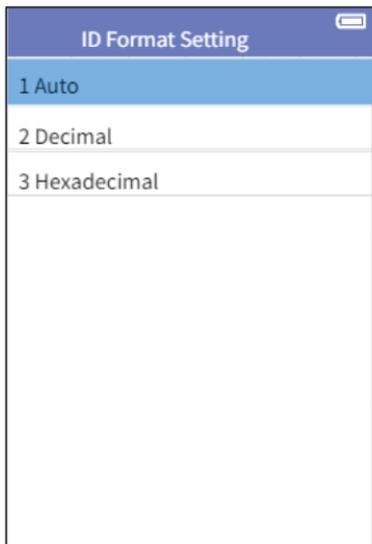
2.9.2 Temperature unit setting

Set temperature unit to $^{\circ}\text{C}$ or $^{\circ}\text{F}$. Use pull up/pull down to select, then press OK key to confirm.



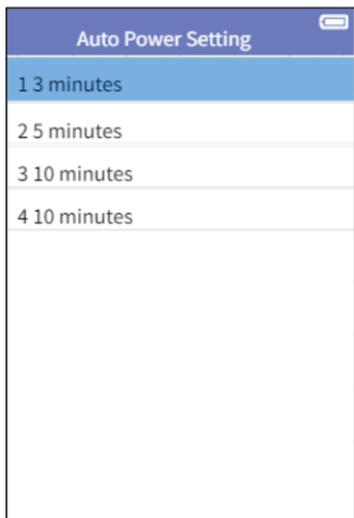
2.9.3 The format of sensor ID

Use pull up/pull down to select, then press OK key to confirm.



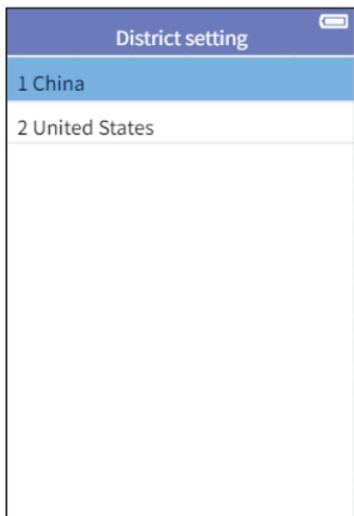
2.9.4 Auto power-off setting

Use pull up/pull down to select, then press OK key to confirm.



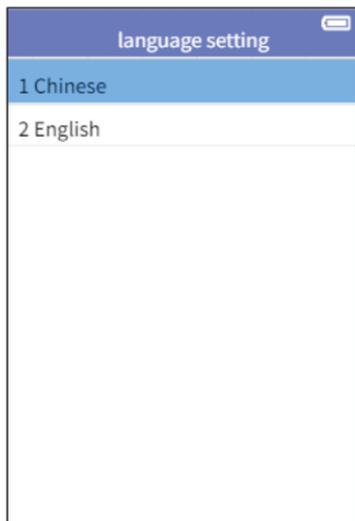
2.9.5 District setting

Use pull up/pull down to select, then press OK key to confirm.



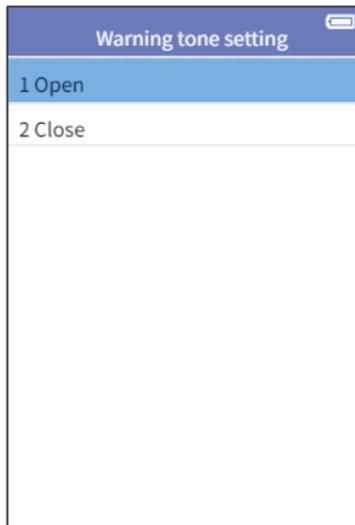
2.9.6 Language setting

Use pull up/pull down to select, then press OK key to confirm.



2.9.7 Warning tone setting

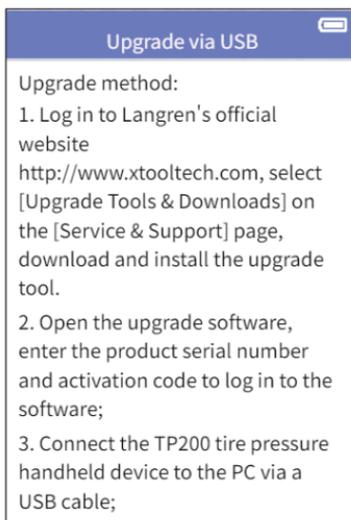
Use pull up/pull down to select, then press OK key to confirm.



2.10 Upgrade

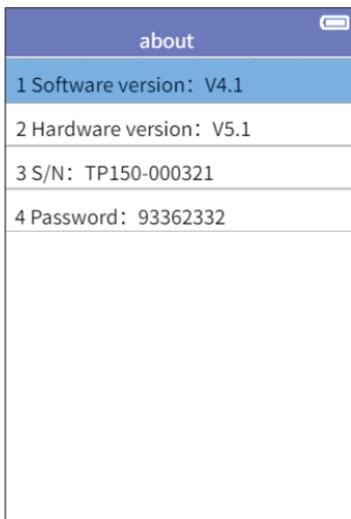
Tire pressure diagnostic device can via USB connect with PC to upgrade.

1. Via USB upgrade



2.11 About

Show the tire pressure diagnostic device software 、 hardware edition information.



Shenzhen Xtooltech Intelligent Co., Ltd

Add:2nd Floor, Building No.2, Block 1, Excellence City,
No.128, Zhongkang Road, Shangmeilin, Futian District,
Shenzhen, China

Tel:+86 755 21670995 or +86 755 86267858

E-Mail:aftersales-services@xtooltech.com(Upgrade service)

Marketing@xtooltech.com