Shenzhen Fcar Technology FTP-SENSOR TPMS Tools User Manual

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Product Overview

FTP-SENSOR is a portable tool that is used to activate or program tire pressure sensors. This tool includes a small hardware set and an android App. The App provides a human-computer interaction interface. The user sends commands to the hardware set through the App, and the hardware set executes the corresponding operations to tire pressure sensors.

Product Structure

Product Parameter

App System	Android5.0及以上 and above
Battery Capacity	Battery 3.0V（900MAH）
Operation Frequency:	315MHz 433.92MHz
Modulation Type:	315MHz:ASKor FSK 433.92MHz:ASKor FSK

power supply system

The sensor is powered by a DC3V button battery

AppInstalling
The App QR code is printed on the package of the hardware set. You can scan the QR code to install the APP through the Android phone. The App applies to Android 5.0 and above.
**Connecting of APP and Hardware Set**
The tool has a built-in Bluetooth. The default 315MHz/433.92MHz name isFTP SENSOR, and it connects the hardware set with the Android phone installed the App.The tire pressure sensor applies wireless communication protocol.

Operation Guide

This tool provides IActivate – [Program] – [Learn] – [Search] TPMS services for maintenance Technicians. Before activating the operation, you need to select a car model. The tool doesn't apply to car models with indirect tire pressure detecting system.
Car Model Selecting
Take IChina Region — [Audil– [A41 – (2001/01-2009/12(433MHz) I as an example:
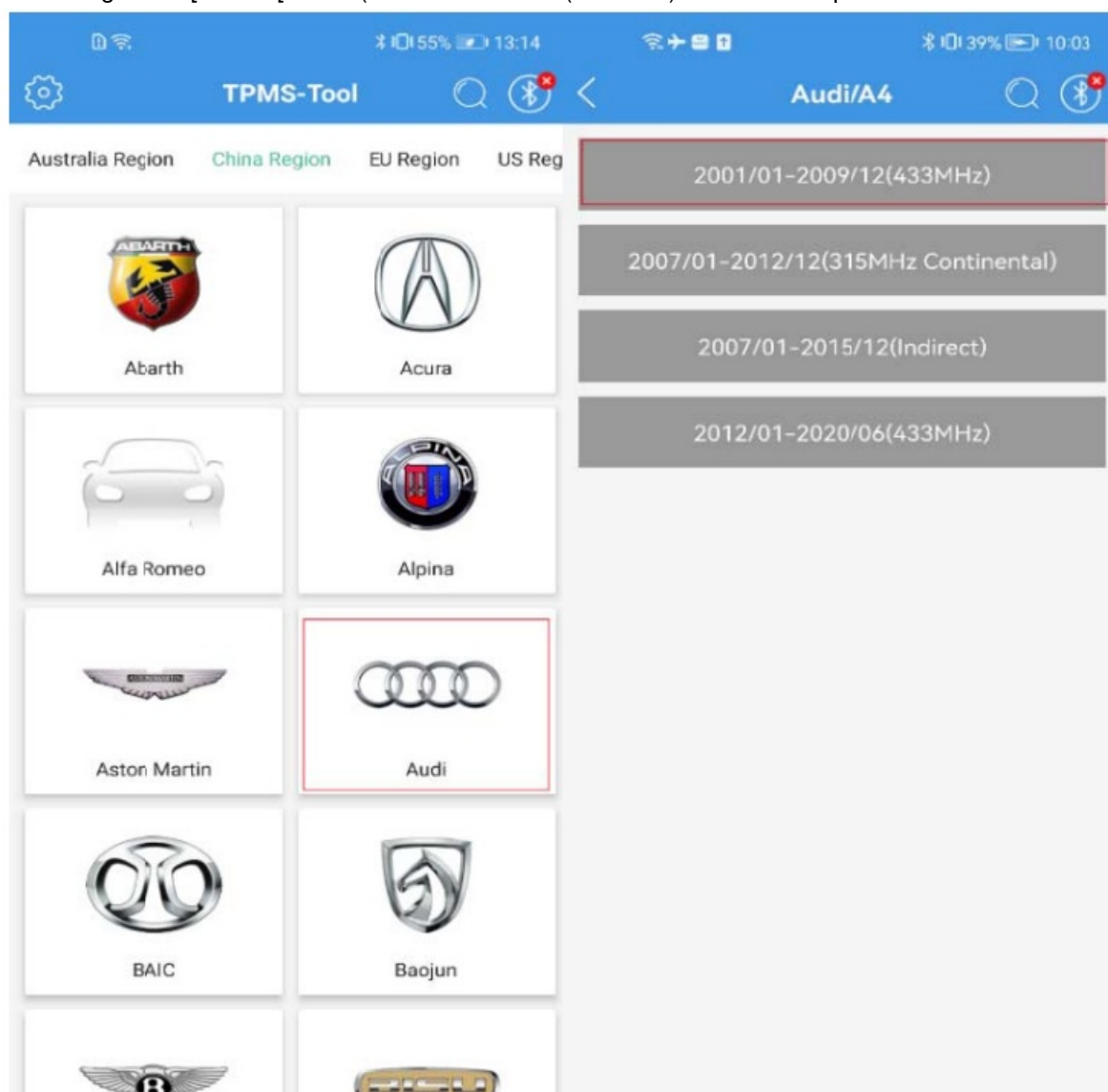
Activate
Read the original sensors installed in the car through this function. When performing [Programming/ [Copy by activation first get the original sensor ID through the Activate function, then copy the ID to the new sensor.

How to activate sensors

1. Keep the hardware set close to the original sensor within 10cm, and enter the Activate interface, then select a tire and click [Activate] button.
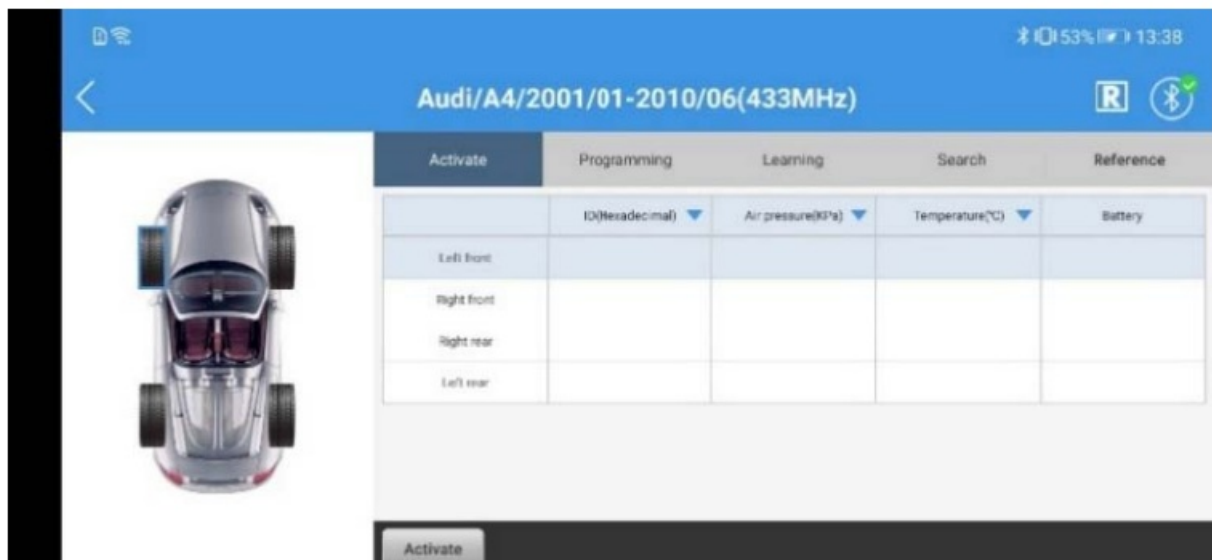

2. The following tip pops up, please operate according to the tip, and then click OK.
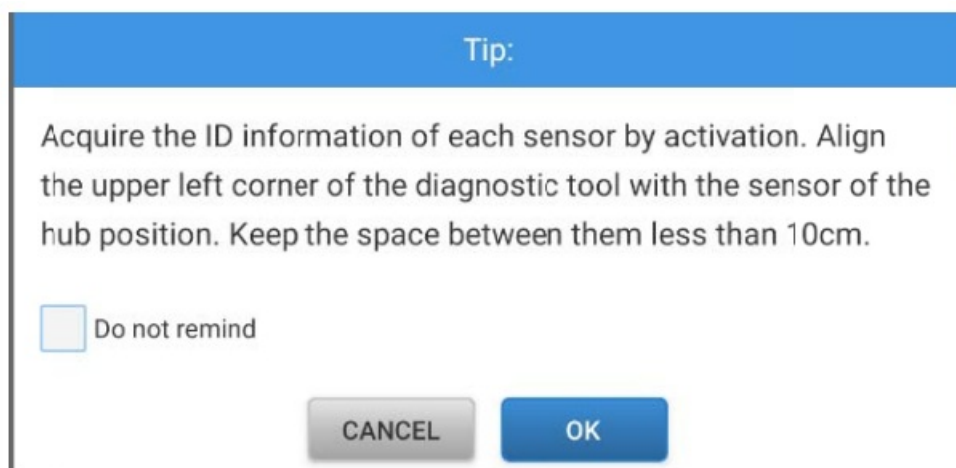
Keep the tool top close to the sensor from the outer edge of the tire. If failed, try to do it from different tire position or direction. For the Ford cars using the Banded sensors, sensors are fixed in a positon 180 degrees away from the tire valve. Try to find the positon.
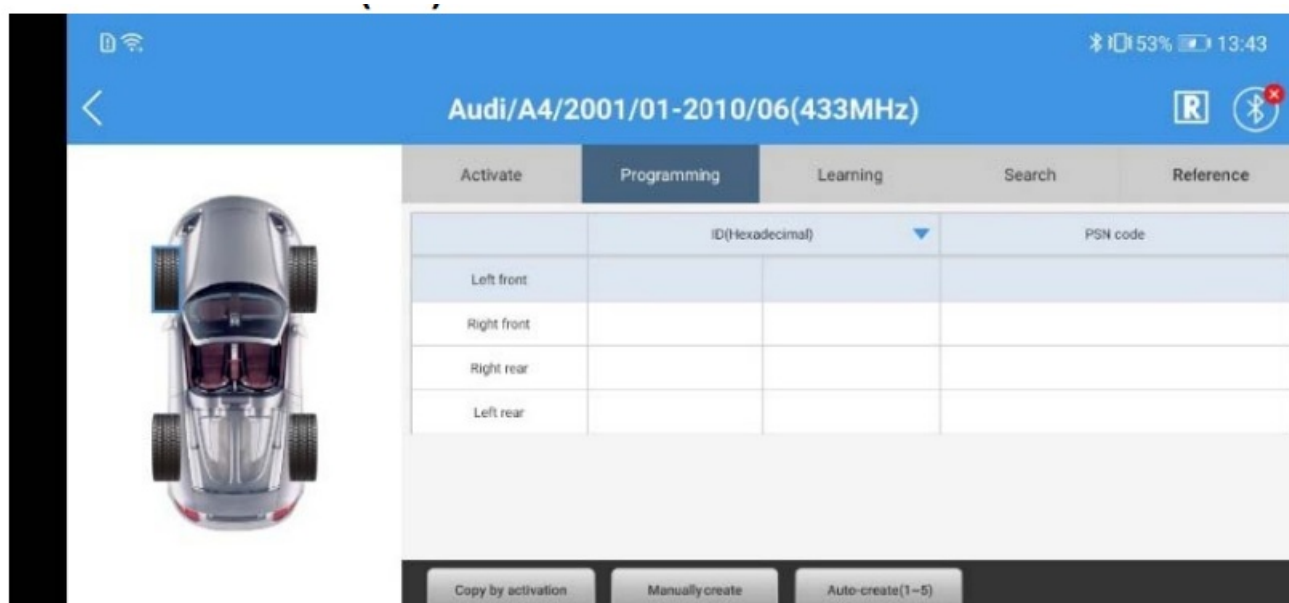
3. If activating succeeds, the ID is displayed in the figure as below. if not, failed information is displayed.
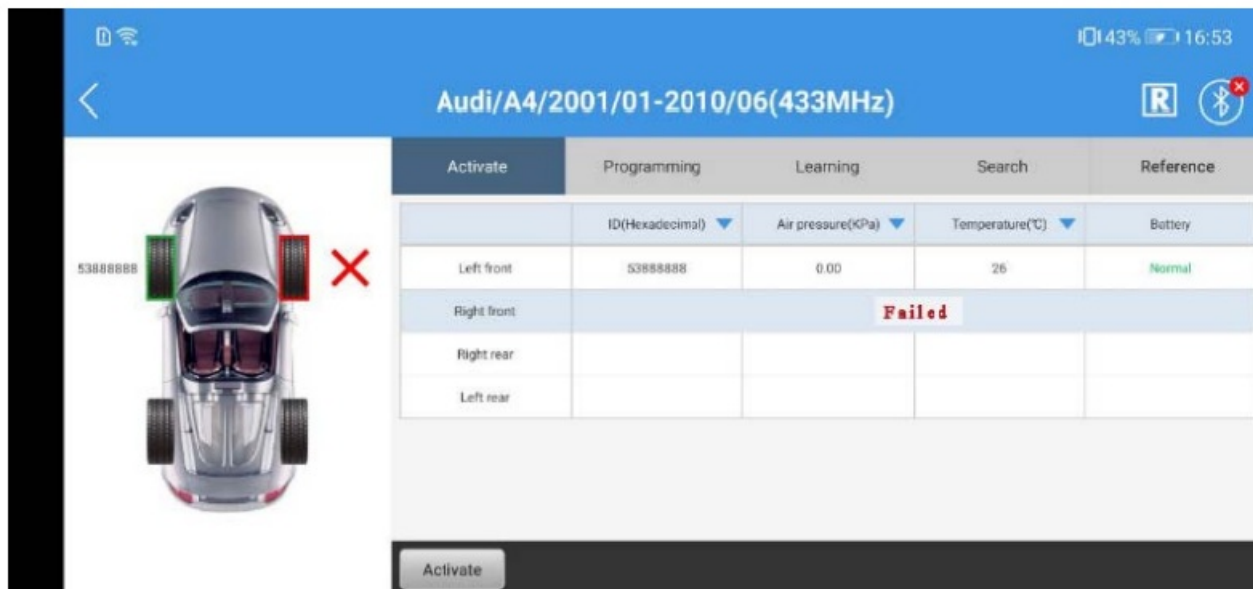
Activation status icons are shown in the table as follows:

🟩 (green)	Activating succeeded
🟧 (orange)	Activating repeated
🟥✖ (red with X)	Activating failed

Program Three ways are used to program sensors: [Copy by activation [Manually create – [Auto create(1-5)
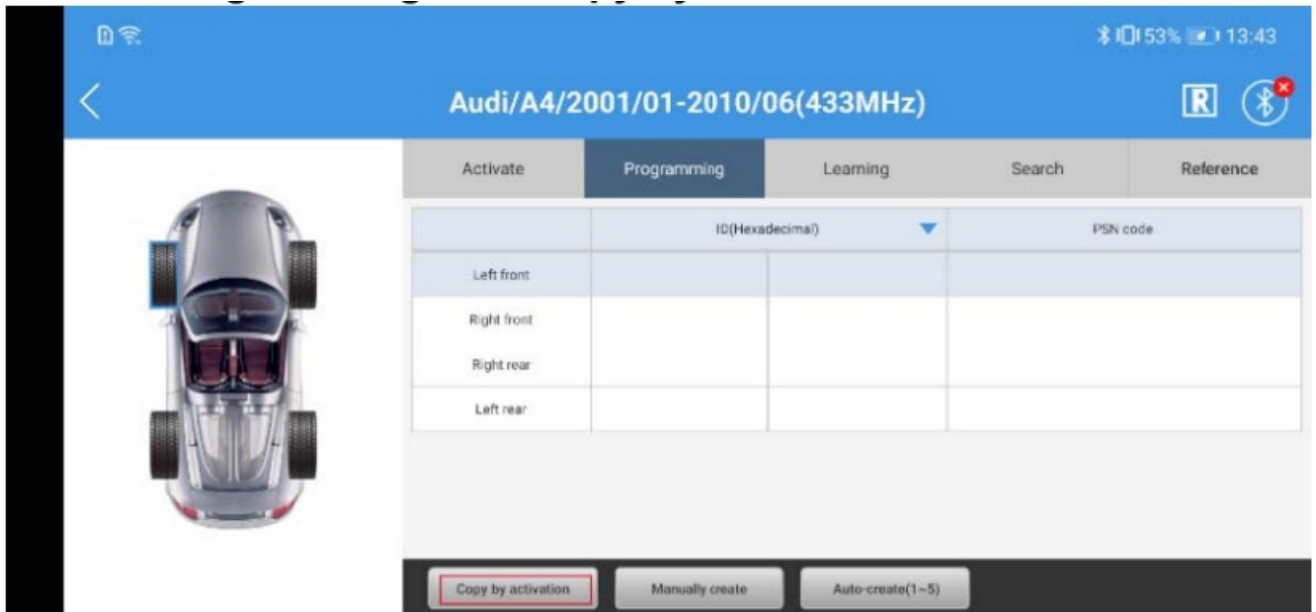

Copy ID through Activation

This function copies the original sensor ID to program it to the new sensorsby activating the original sensor. The original sensor ID can be read by the car EQ so you need not perform Learn operation when the new sensor replaces the original sensor.
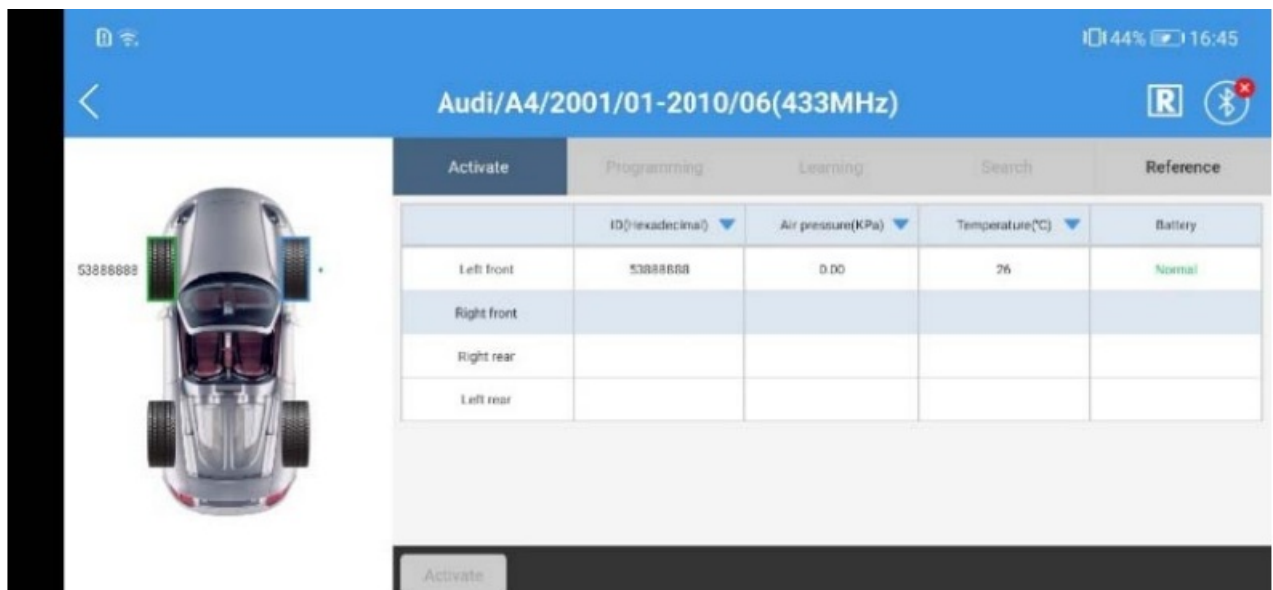
How to copy through activating

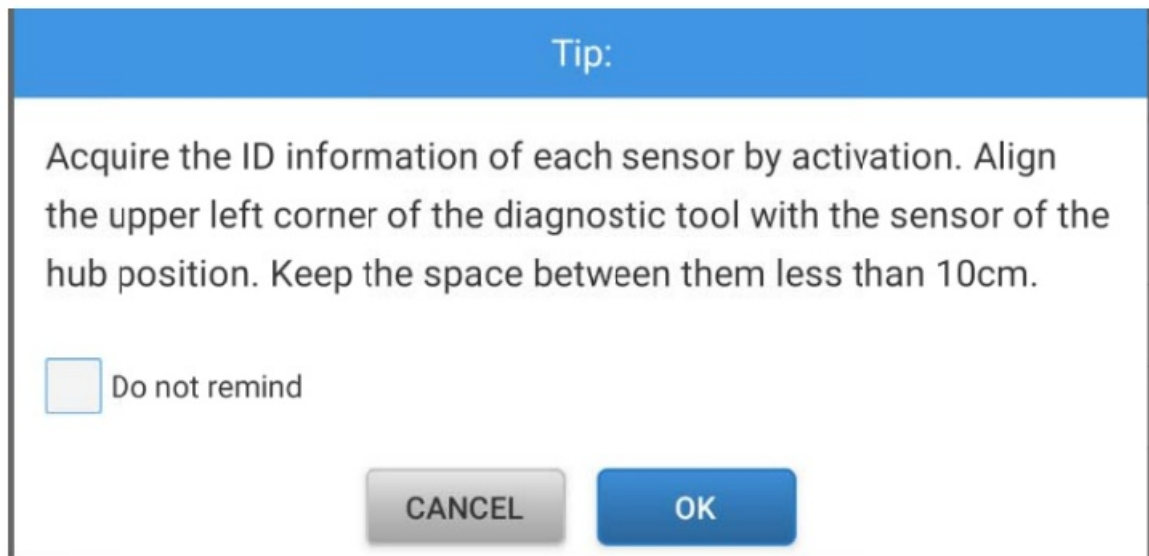1. Select [Programming] – [Copy by activation]

2. If the tip shown as below pops up, you need to activate the original sensor first. Click the [Okl to transfer to the Activate interface.
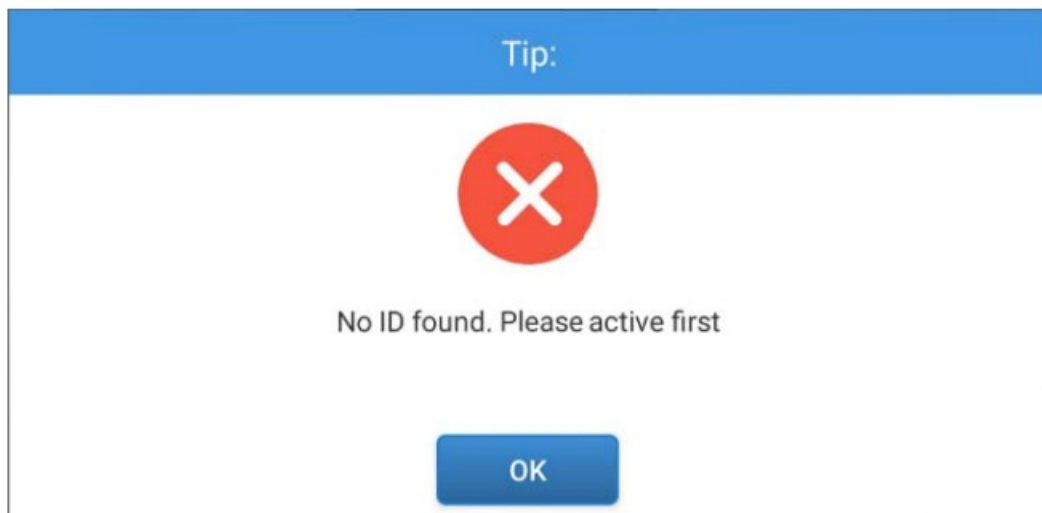
3. If activating successes, the ID and relevant information are displayed.

4. Return to [Programming] interface, click [Copy by activation], and a tip pops up.

Tip:

Acquire the ID information of each sensor by activation. Align the upper left corner of the diagnostic tool with the sensor of the hub position. Keep the space between them less than 10cm.

☐ Do not remind

CANCEL   OK

Note: Keep the hardware set-top close to the sensor to be programmed with10cm.To avoid disturbing, keep other sensors100cm away from the hardware set.|
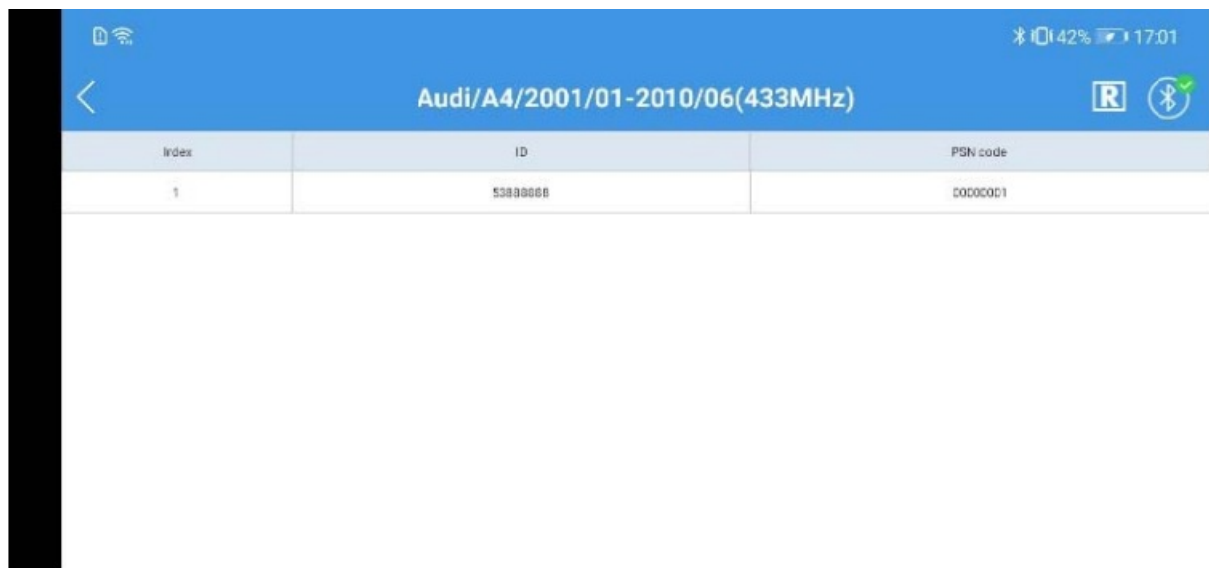
5. Click (OKI to search the new sensor, and don't move the sensor and the tool.
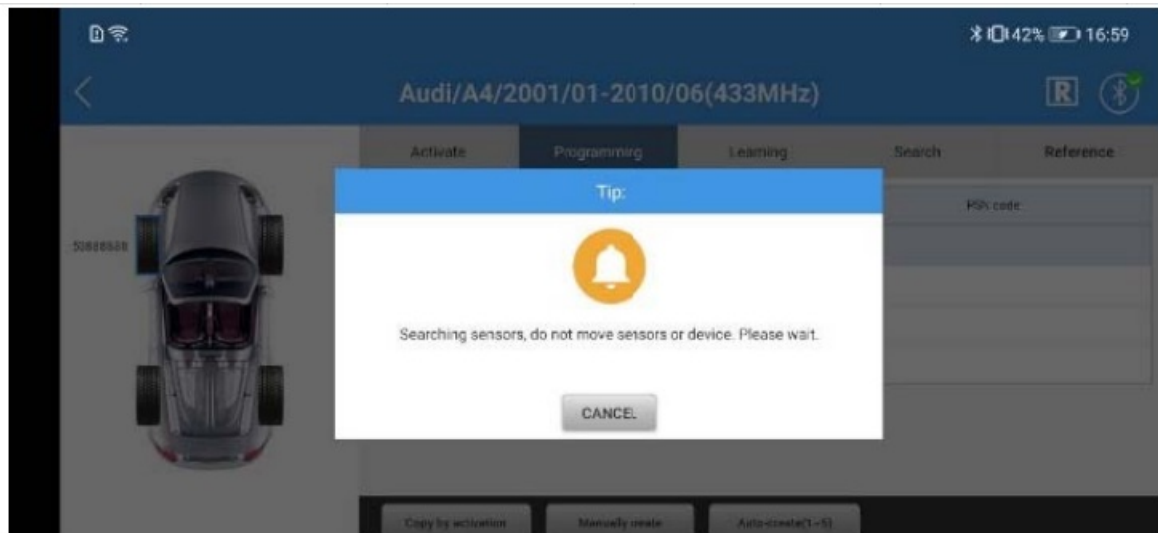
6. If two sensors or more are detected, and a tiP pops up, please take other sensors 100cm away from the tool. Click (Ok) to restart searching.

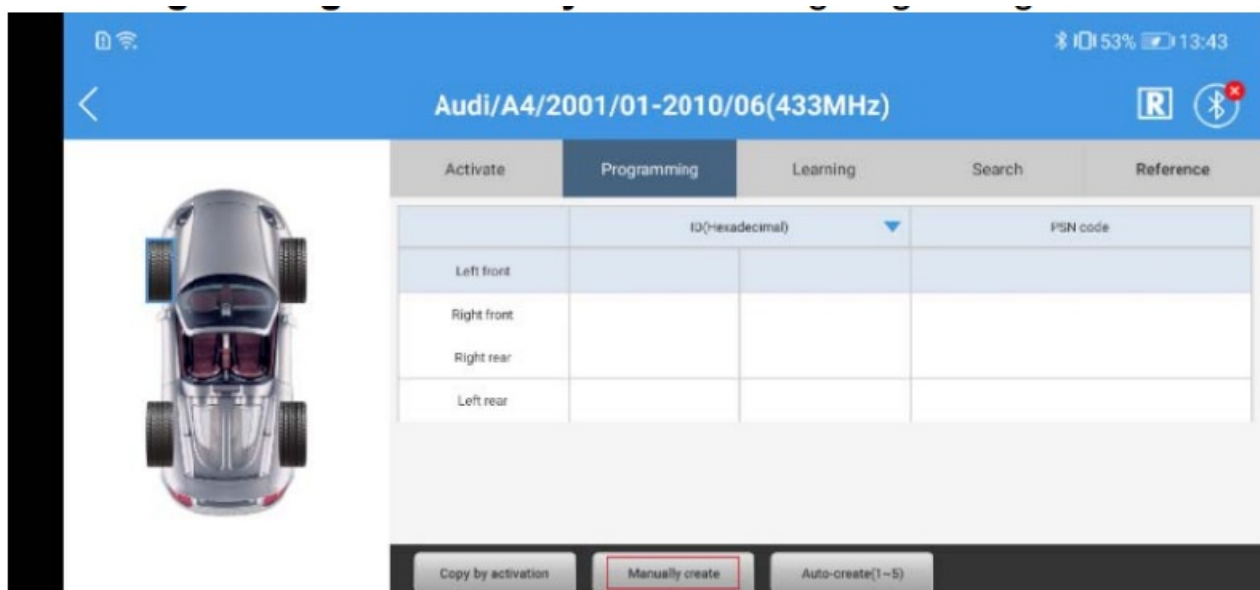7. If one sensor is detected, click [Ok) to program.
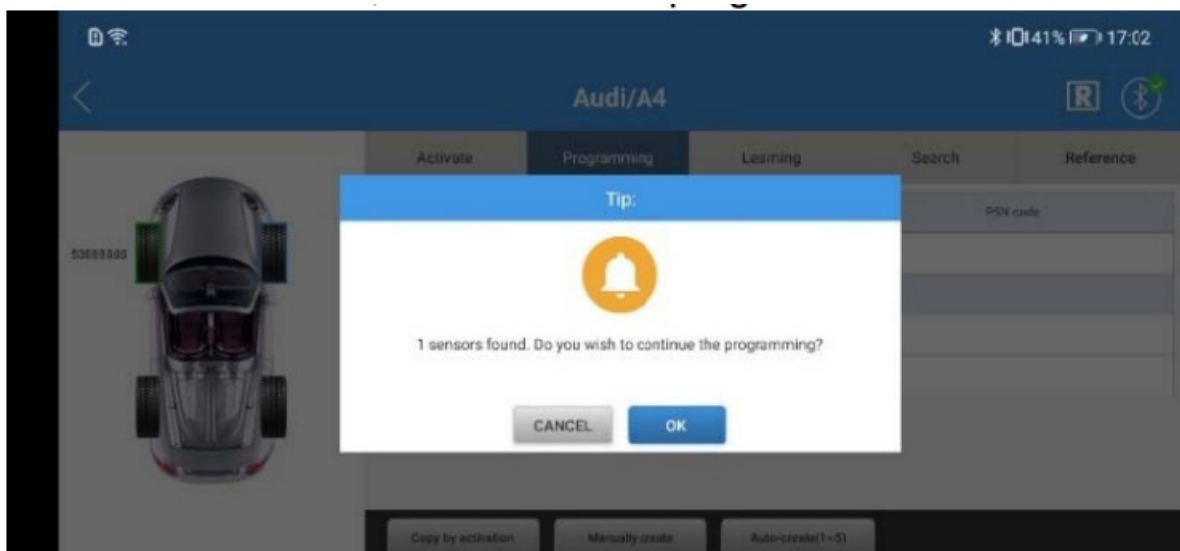
8. After programming finishes, and ID information is listed.Clickto retun for programming other sensors.

| Index	ID	PSN code
1	53888888	00000001

Manually Create ID

This function programs the original sensor ID to the new sensor by inputting the original sensor ID manually.Need not perfom Leam operation when the new sensor replaces the onginal sensor.
How to input ID manually

1. Select (Programming – (Manually create after getting the original sensor ID.

	ID(Hexadecimal)	PSN code
Left front		
Right front		
Right rear		
Left rear		

Audi/A4/2001/01-2010/06(433MHz)

Activate | Programming | Learning | Search | Reference

Copy by activation | Manually create | Auto-create(1~5)

Note: Keep the hardware set-top close to the new sensor with 10cm.To avoid disturbing, keep other sensors 100cm away from the hardware set.

2. The tool searches the new sensor, and don't move the sensor and the tool.

3. If two sensors or more are detected, and a tip pops up, please take other sensors 100cm away from the tool. Click [Ok] restart searching.

4. If one sensor is detected, input the sensor ID of 8 characters and click (Ok) in the new pop-up window.
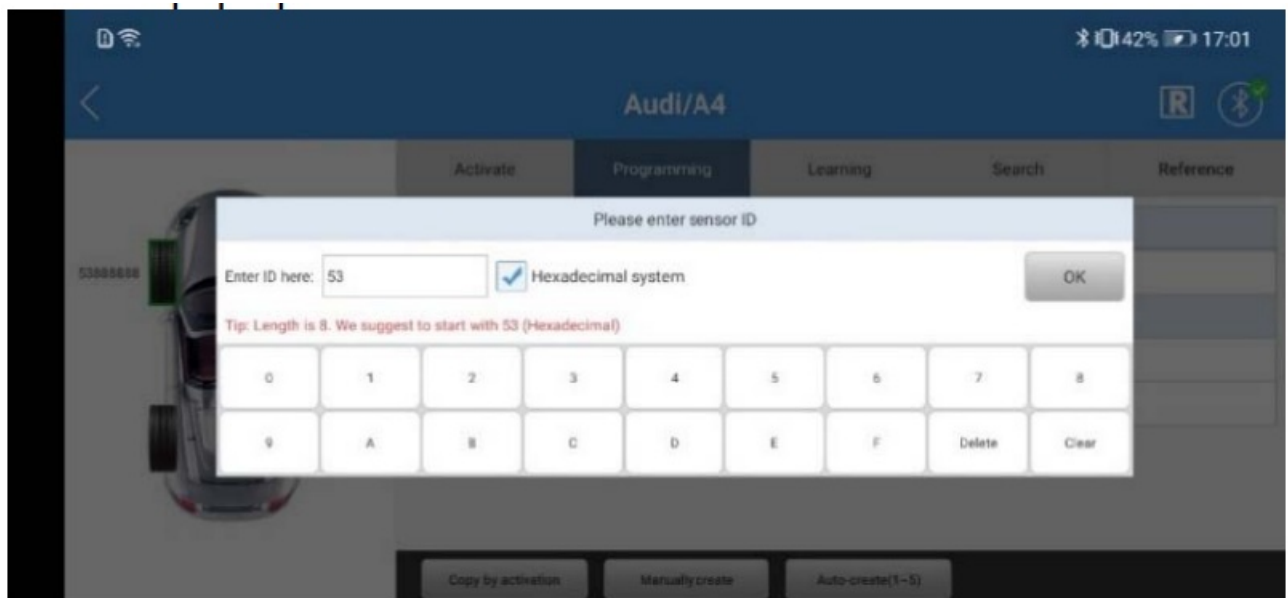
5. Start to program
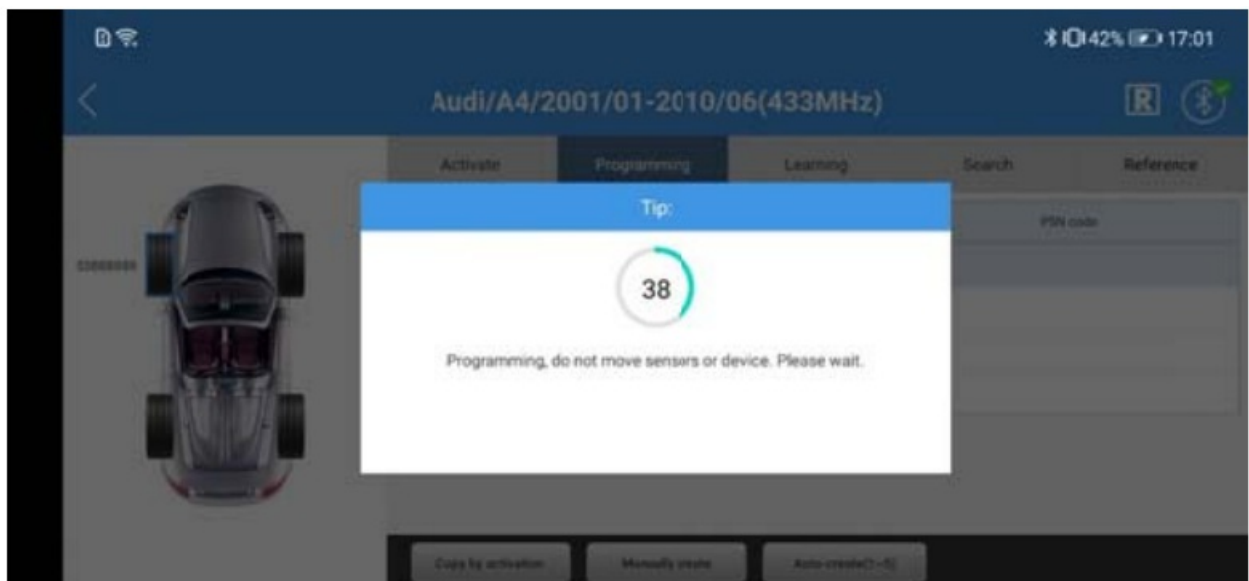
6. If programming succeeds, click to return for other sensors programming.
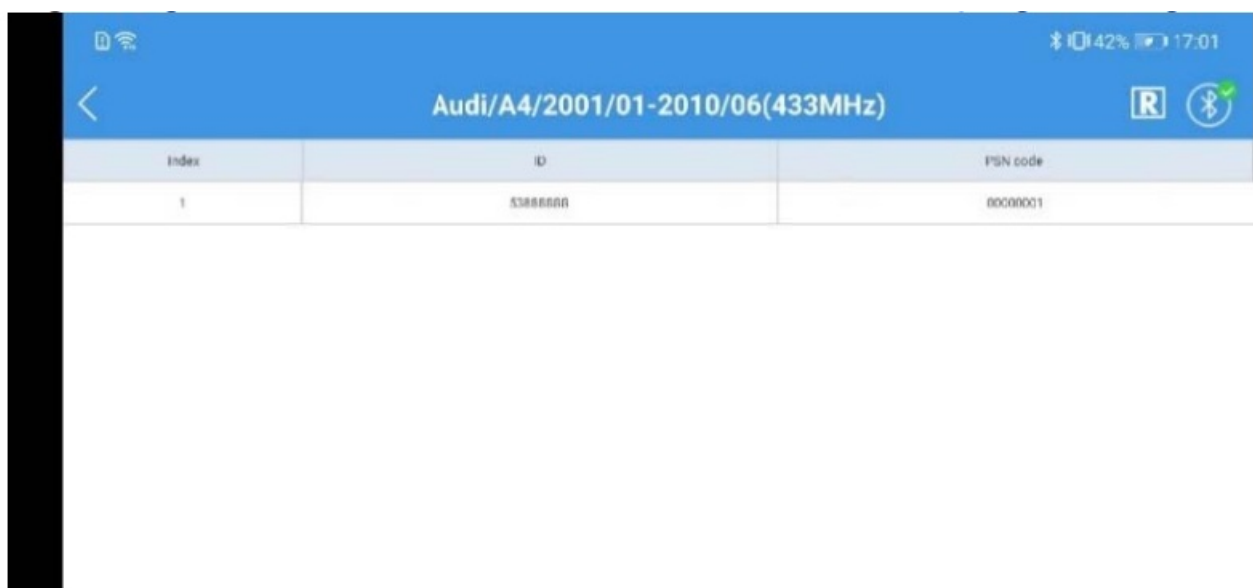
Auto-Create ID

This function can program 1-5 sensors IDs randomly at the same time. Because the IDs are created randomly by the system, and the ECU cannot read them, so you need perform Learnoperation to write the IDs to ECU when new sensors replace the original sensors.

How to create 1-5 new IDs

1. Select [Programming – [Auto create (1-5) 1. Put 1-5 new sensors close to the top of the tool within 10cm.
2. Click OKI to program if new sensors are detected.
3. If programming succeeds, all IDs are listed. Click to program other sensors.
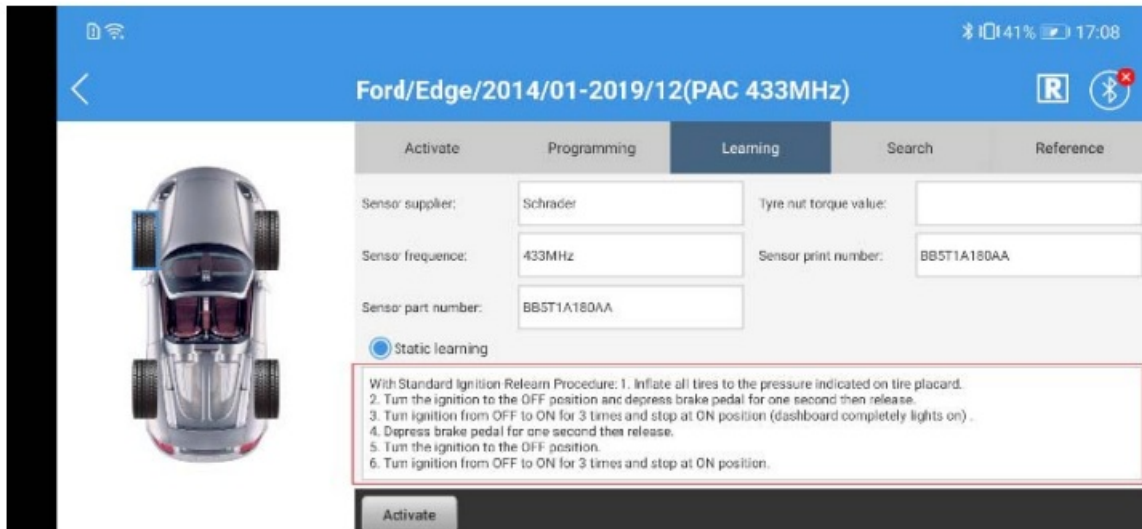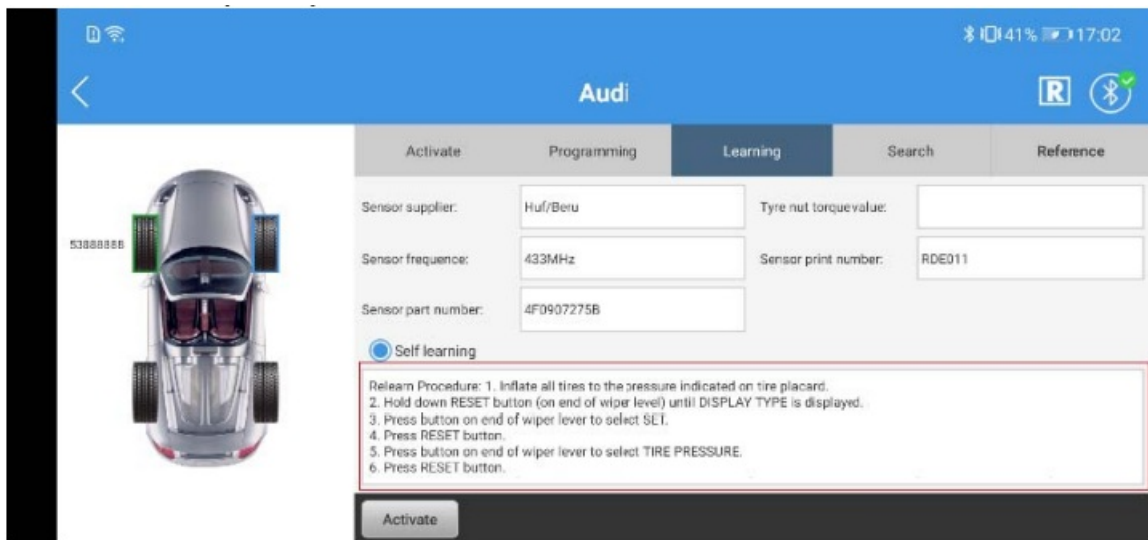

Learning

The function is used to write the new sensor IDs into the car ECU. Ifa new sensor is installed in a car to replace the original one, and its' ID is different with the original ID, you must perform the Learn operation, so that the car ECU can distinguish the new ID. There are three ways for the learning function: Static Learning, Self-Learning, Copying Learning. The learning way is also different on different brands of vehicles. Among them, copying learning is to copy the ID of the original sensor to program it into the new sensor. The process of copying is the process of learning, so there is no need to perform actual learning operations.
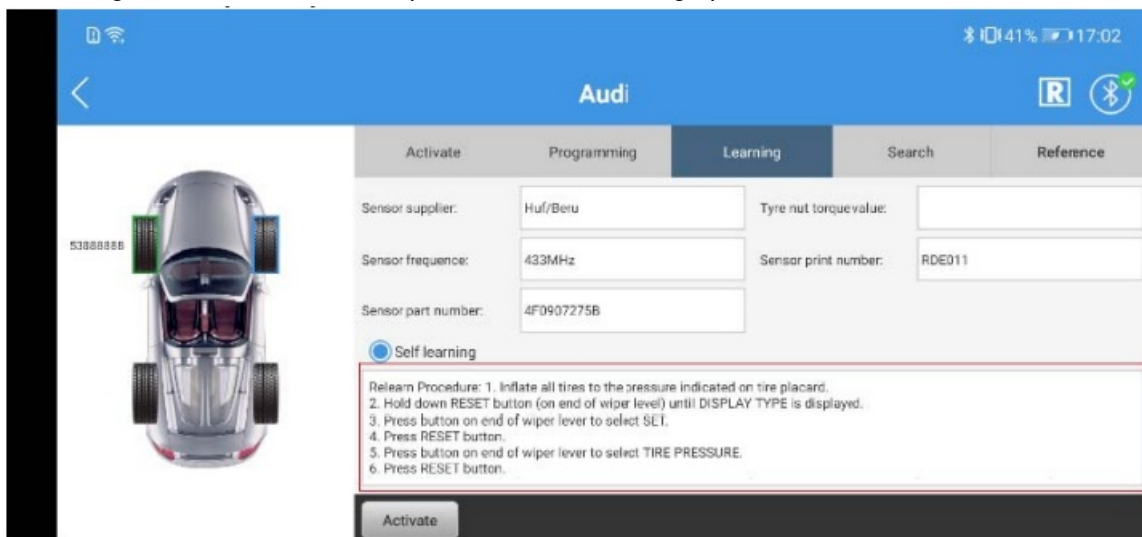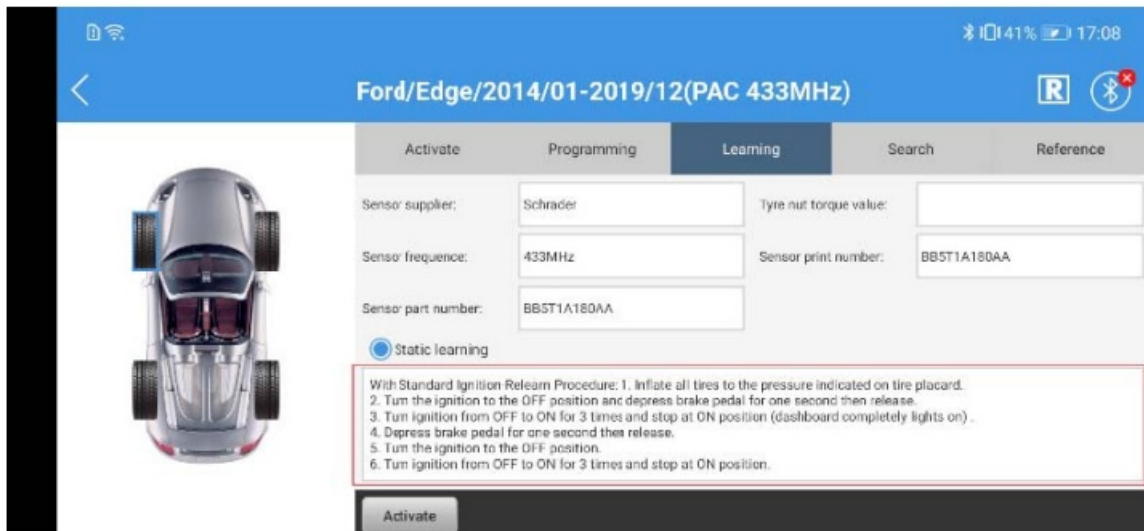

Static Learning
For detailed learning steps and driving process, please refer to the prompt on the Screen.
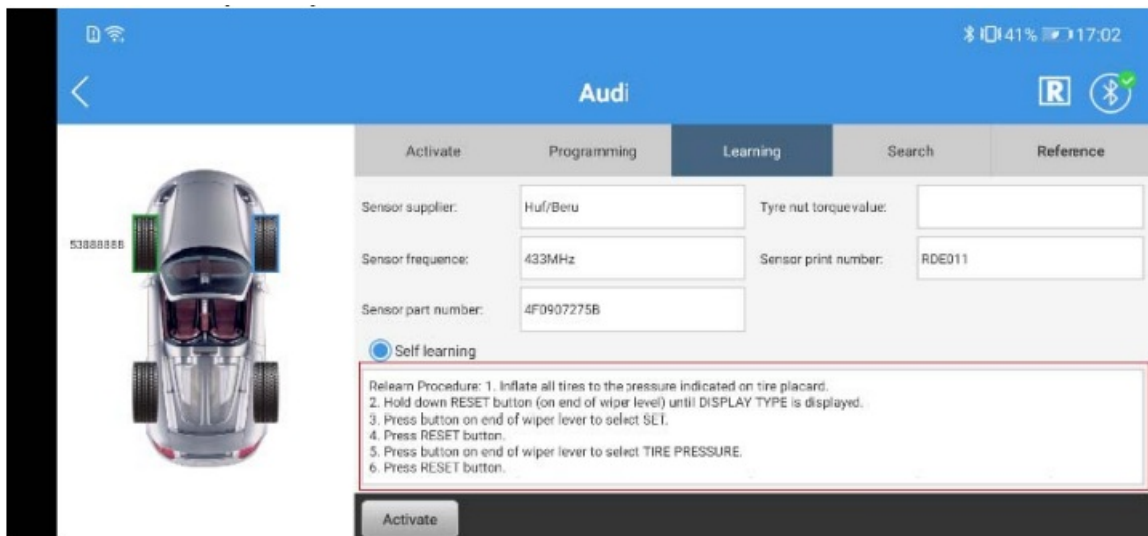
Self-Learning

This learning way is by driving. For detailed learning stepsand driving process, please refer to the prompt on the screen.

Copy Learning

This way is by copying the original sensor ID to program the new sensor. The new sensor ID is the same as the original sensor ID, so learning is completed after programing.

Read SensorInformation

Select Search to read the sensor information.

Reference for operation
Select (Reference to get the operation guider.

FCC

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.

Documents / Resources

Shenzhen Fcar Technology FTP-SENSOR TPMS Tools [pdf] User Manual
SENSOR, 2AJDD-SENSOR, 2AJDDSENSOR, FTP-SENSOR TPMS Tools, FTP-SENSOR, TPMS Tools

References

- 🌐 **Shenzhen FCAR Technology Co., Ltd.**