USER MANUAL

MaxiTPMS

TS508WF

Patent

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IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support

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For details, please refer to the *Service and Support* section in this manual

Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions herein presented throughout this manual be read and understood by all persons operating, or coming into contact with, the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

⚠DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Safety Instructions

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform diagnosis or service in a safe environment.

- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline / chemical / electrical fires nearby.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Always turn the ignition off before connecting/disconnecting the OBD II Cable to/from the TPMS tool; otherwise it may cause the Malfunction Indicator Light (MIL) to turn on.
- Refer to the user's manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Otherwise personal injury or unneeded repairs may result.
- Keep the TPMS tool dry, clean, free from oil, water and grease. Use a mild detergent on a clean cloth to clean the outside of the TPMS tool when necessary.

CONTENTS

1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system. Contact your sales representative for availability of other modules and optional tools or accessories.

1.1 Conventions

The following conventions are used.

1.1.1 Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

- Tap **OK**.

1.1.2 Notes and Important Messages

1.1.2.1 Notes

A **NOTE** provides helpful information such as additional explanations, tips, and comments.

Example:

NOTE
New batteries reach full capacity after approximately 3 to 5 charging and discharging cycles.

1.1.2.2 Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

Example:

IMPORTANT

Keep the cable away from heat, oil, sharp edges and moving parts. Replace damaged cables immediately.

1.1.3 Hyperlink

Hyperlinks or links that take you to other related articles, procedures, and illustrations are active in electronic documents. Blue italic text indicates a selectable hyperlink and blue underlined text indicates a website link or an email address link.

1.1.4 Illustrations

Illustrations used in this manual are samples, and the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

2 Tool Information

2.1 Functional Description

Figure 2-1 ***MaxiTPMS TS508WF***

1. **SENSOR SLOT** – holds the MX-Sensor to be programmed.
2. **LCD DISPLAY** – displays the menus and test screens.
3. **N BUTTON** – cancels a selection (or action) from a menu or return to previous menu.
4. **UP ARROW BUTTON** – moves up through menu and submenu items in menu mode. When more than one set of data are retrieved, use this button to move up to previous screens for additional data. It is also used to view previous trouble code when viewing DTCs.

5. **LEFT ARROW BUTTON** – when scrolling through a screen of data or text, moves to previous character and views additional information on previous screens, if recorded data content covers more than one screen.
6. **DOWN ARROW BUTTON** – moves down through menu and submenu items in menu mode. When more than one set of data are retrieved, use this button to move down to next screens for additional data. It is also used to view next trouble code when viewing DTCs.
7. **HELP BUTTON** – provides help information.
8. **POWER BUTTON** – long press the button to turn on/off the tool; or, short press the button to return to Home screen.
9. **RIGHT ARROW BUTTON** – when scrolling through a screen of data or text, moves to next character and view additional information on next screens, if recorded data content covers more than one screen.
10. **TEST BUTTON** – commences a TPMS Test or confirms selections on screen.
11. **Y BUTTON** – confirms a selection (or action) from a menu.
12. **USB PORT** – connects the TPMS tool to PC for software update, data printing or battery charging.
13. **OBD II CONNECTOR** – connects the TPMS tool to the vehicle's Data Link Connector (DLC).

NOTE

Figures and illustrations, product's characteristics and functions, and included accessories in this User Manual are provided for reference only and may differ from actual product. Product design and specifications may be changed without notice.

2.2 Specifications

Table 2-1 ***Specifications***

Item	Description
Display	TFT color display (320 x 240 dpi)
Power	3.7 V Li-polymer battery
Operating Temp.	-20°C to 60°C (-4°F to 140°F)
Storage Temp.	-10°C to 45°C (14°F to 113°F)
Dimensions	215 mm (8.46") / 105 mm (4.13") / 37 mm (1.46")
Weight	0.39 kg (0.86 lb.)

2.3 Accessories Included

Please refer to the packing list for accessory details.

2.4 Icons

1. – green changing internal block indicates battery charging.
2. – indicates there is data stored in the tool.
3. – indicates battery volume.
4. – indicates USB communication with the computer is established.
5. – indicates magnet is required to activate TPMS sensor.
6. P↓ – indicates deflation is required to activate TPMS sensor.
7. – indicates wheels will be checked one by one.
8. – indicates the TPMS tool is sending signals to the tire sensor for activation and test in activation screen or indicates the sensor information is read by activation.
9. – indicates the tool communication with the vehicle's OBD II DLC is established or indicates the sensor information is read by OBD.

2.5 Keyboard

Use a mild nonabrasive detergent and a soft cotton cloth to clean the keypad and display. No solvents such as alcohol are allowed for device cleaning. Do not soak the keypad as the keypad is not waterproof.

2.6 Battery Charging

The TPMS tool has a 3.7 V built-in lithium-ion polymer rechargeable battery.

- **To charge battery by PC connection via USB cable**

  1. Locate the USB port of the device.
  2. Connect the device and PC with the USB cable.

- **To charge battery by power adapter and USB cable**

  1. Locate the USB port of the device.
  2. Connect the device and the power source with the power adapter and USB cable.

NOTE

Only use the USB cable adapter included in our pack to charge this tool. The use of unapproved power supplies may damage your tool and void the tool warranty.

2.7 Connect to DLC

The tool can connect to vehicle's Data Link Connector (DLC) via OBDII cable connection. Follow the steps below to operate:

1. Connect the OBD II cable to the TPMS tool.
2. Find DLC on the vehicle.

NOTE

A plastic DLC cover may be found for some vehicles and you need to remove it before plugging the OBD II cable.

3. Connect OBD II cable to the vehicle's DLC.
4. Power up the TPMS tool by pressing the **Power** button, and wait for the **Main Menu** to display.

Figure 2-2 ***Main Menu Screen***

NOTE

OBD II cable connection does not support battery charging.

3 TPMS Quick Mode

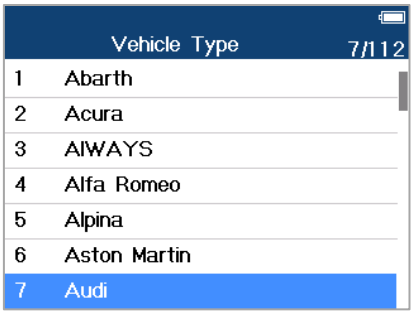
Perform basic TPMS functions (**Scan All Sensors, Scan Single Sensor**, **Program Sensor**, **Relearn Procedure**, and **Sensor Information**) through the Quick Service Mode.

N
= Cancel

Y
= Confirm

3.1 Vehicle Identification

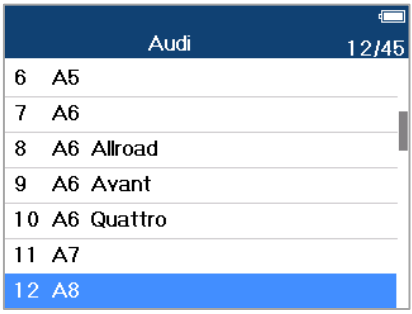
Select test vehicle to start a TPMS service session.



N
= Cancel

Y
= Confirm

3.1.1 Select by Model



N

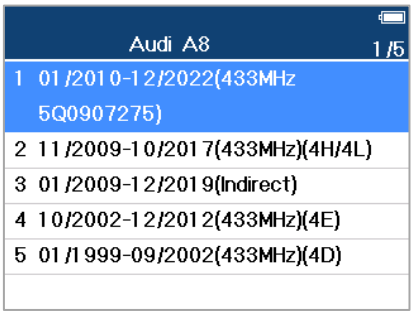
= Cancel

Y

= Confirm

3.1.2 Select by Year

1. For vehicles using **Direct TPMS**:

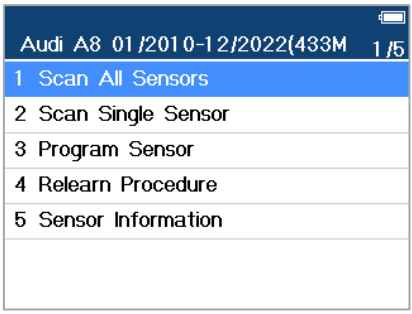


N

= Cancel

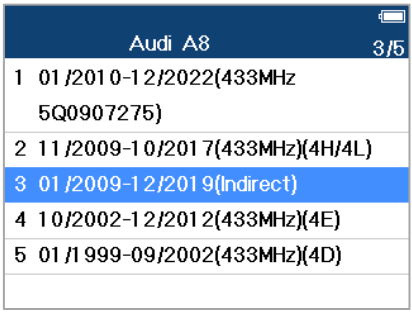
Y

= Confirm



Functions provided in Quick Mode: **Scan All Sensors, Scan Single Sensor, Program Sensor, Relearn Procedure,** and **Sensor Information**.

2. For vehicles using **Indirect TPMS**:

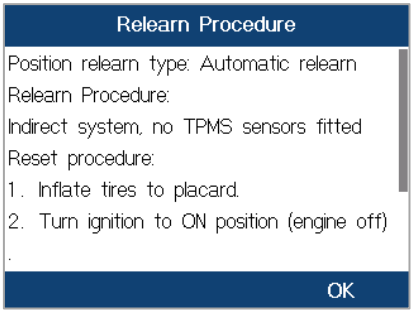


N

= Cancel

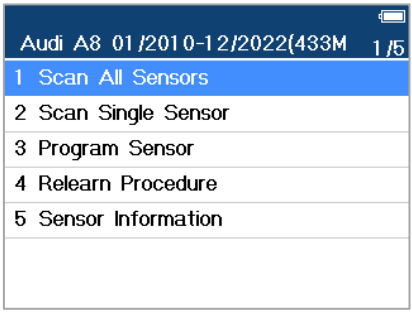
Y

= Confirm

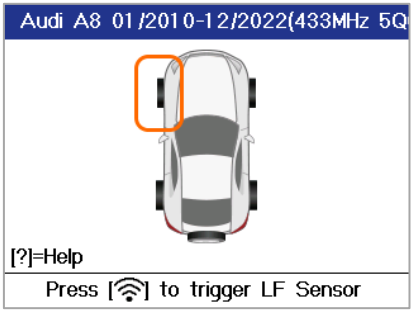


Follow the instructions displayed to perform Relearn Procedure for indirect TPMS.

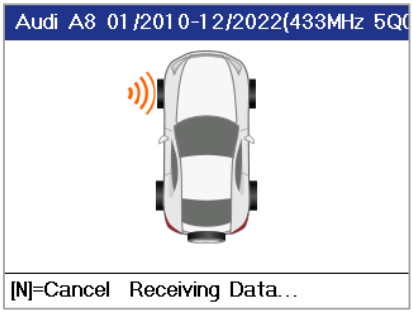
3.2 Scan All Sensors



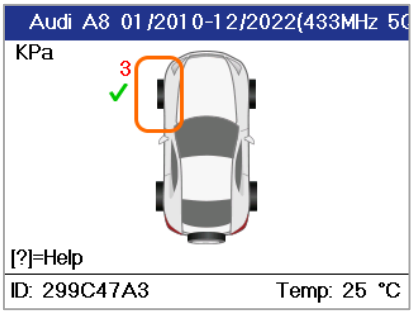
Select **Scan All Sensors**. Hold the tool close to the sensor or close to the tire sidewall right above the sensor.



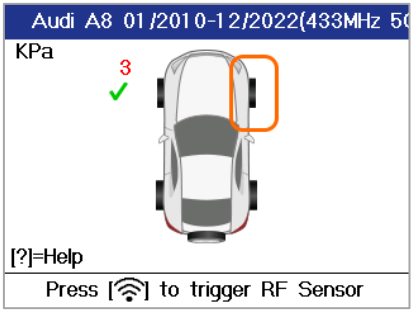
Press **Trigger** to trigger the sensors.



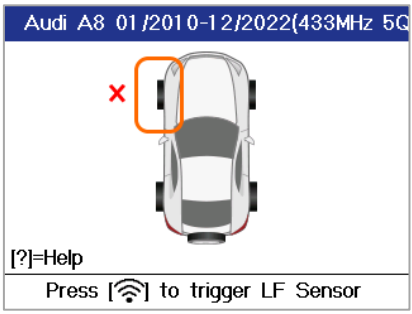
The device is receiving data from the sensor.



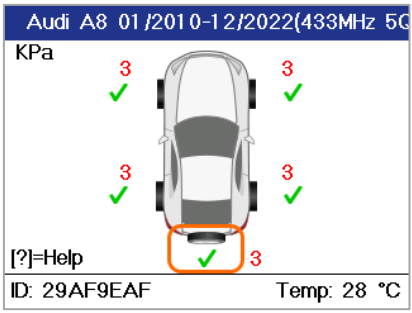
Trigger Successfully.



The next sensor is waiting to be activated. Press **Trigger** to scan all the sensors one by one.



If the trigger is failed, press **Trigger** to try again.

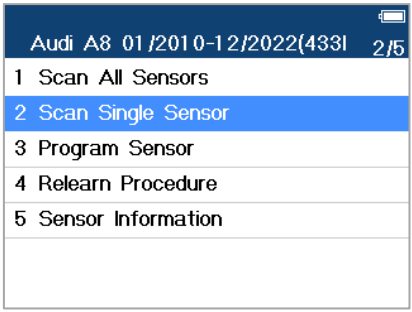


All the sensors are activated.

Sensor Status				
Pos.	ID(Hex)	P.(Kpa)	T.(°C)	Bat.
LF	294D1003	3	28	OK
RF	293A214B	3	29	OK
RR	294660CF	3	27	OK
LR	2907E10B	3	28	OK
SP	29AF9EAF	3	27	OK
Press any key to continue				

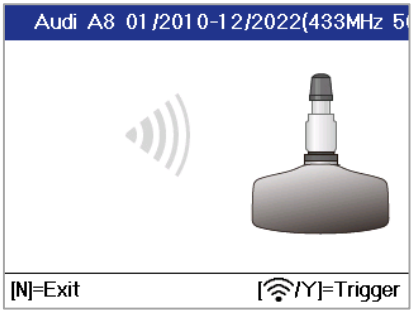
Press **Y** to view all the data of sensors. The ID, pressure, temperature, and voltage of all the sensors display on screen.

3.3 Scan Single Sensor

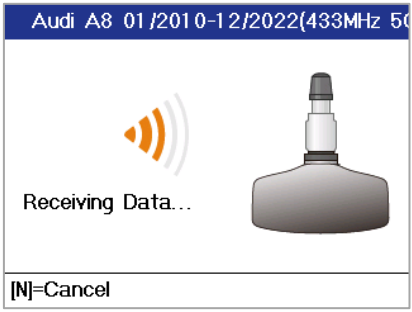


Hold the tool close to the sensor or close to the tire sidewall right above the sensor.

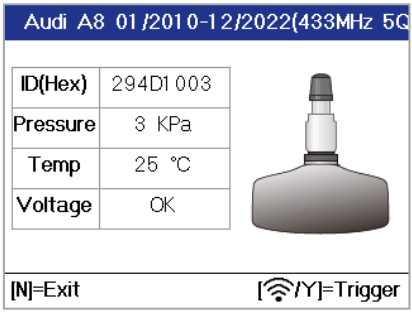
For first time use:



Press **Y** or **Trigger** to trigger the sensor.

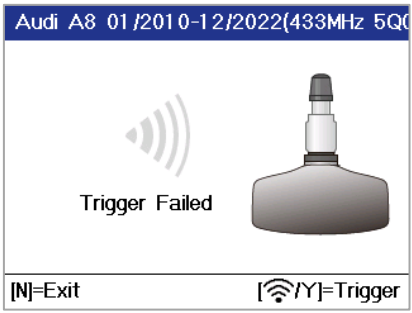


The device is receiving data from the sensor.



Trigger Successfully.

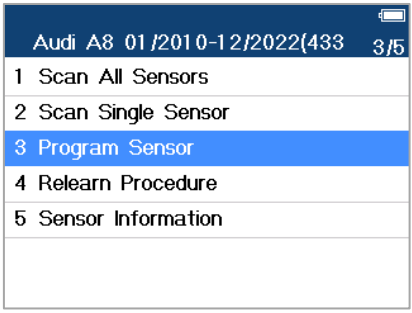
The ID, pressure, temperature, and voltage of the sensor display on screen.

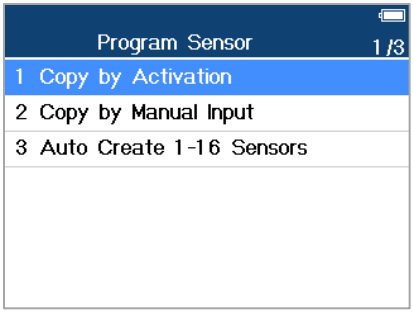


Trigger Failed.

Press **Y** or **Trigger** to try again.

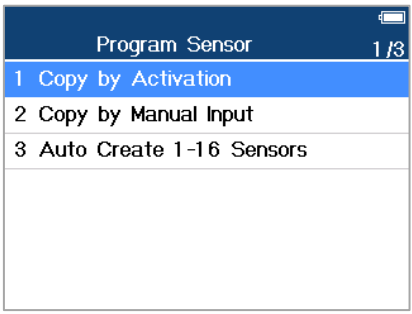
3.4 Program Sensor



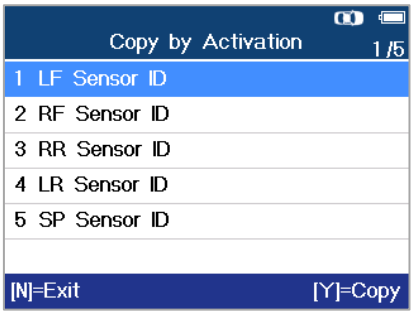


3.4.1 Copy by Activation

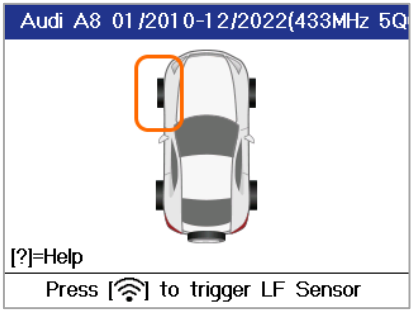
This function is used to activate or trigger the original sensor and retrieve the ID of the sensor, and then write the original sensor ID into the new MX-Sensor.



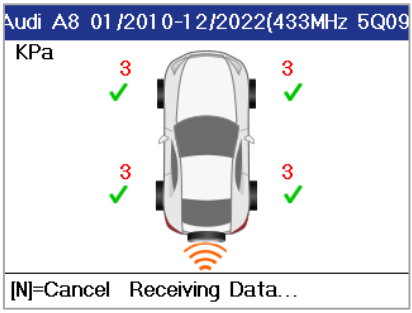
Press **Y** to select **Copy by Activation**.



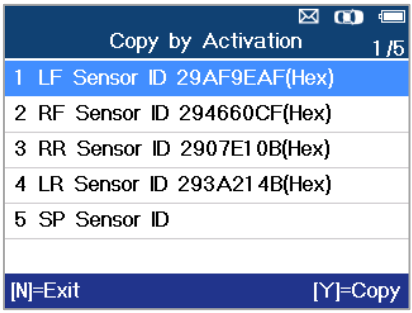
Press the **UP**/**DOWN** arrow button to select the sensor to be copied. Place the tool near the sensor to be copied. If the sensor is still attached to the wheel, hold the tool close to the tire sidewall right above the sensor.



Press **Y** to enter the activation interface.

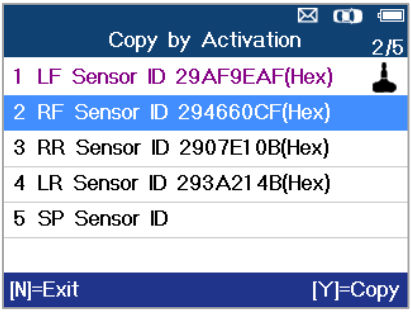


Press **Trigger** to activate the corresponding sensor.



Press **N** to return to the previous menu. If the ID has been copied successfully, press **Y** to copy the selected ID and program the sensor.

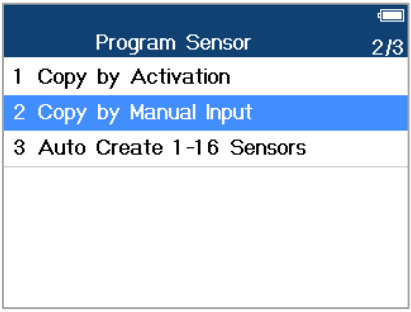
If there is no ID yet, press **Y** to enter the activation interface.



If the sensor programming is successful, the sensor icon will appear on the right side of the list item.

3.4.2 Copy by Manual Input

This function is used to manually input the original sensor ID and program it to new MX-Sensor.

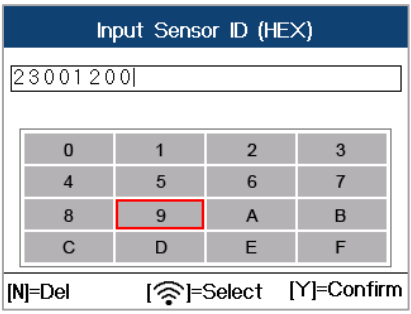


N

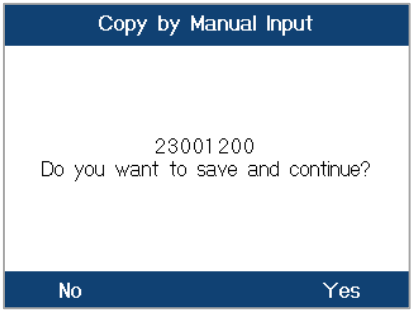
= Cancel

Y

= Confirm



- DEC — ID is coded in decimal.
- HEX — ID is coded in hexadecimal (letters and numbers).
- AUTO — tool will automatically detect the format of the ID.

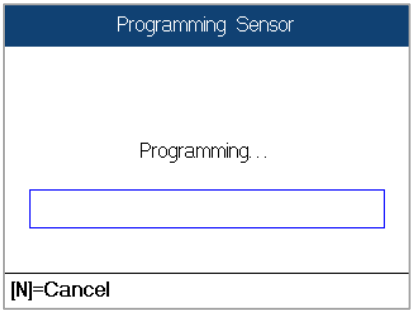


N

= Exit

Y

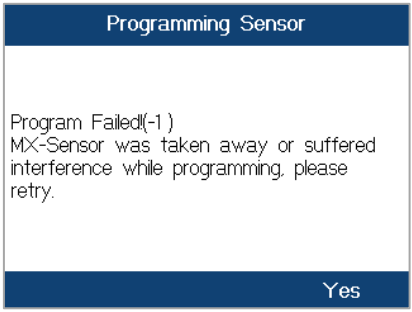
= Confirm and Program



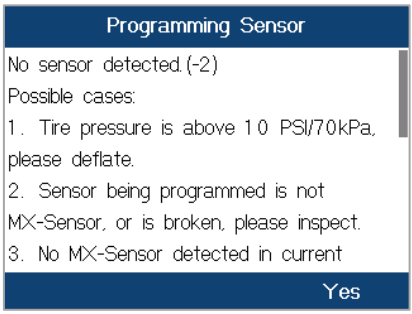
The programming function begins.

Programming Sensor	
ID	23001200
PSN	C77E8L6M9C001026
Pressure	3 KPa
Temperature	27 °C
Voltage	OK
Frequency	433MHZ
Press any key to continue	

Once programmed, sensor and tire data will display.

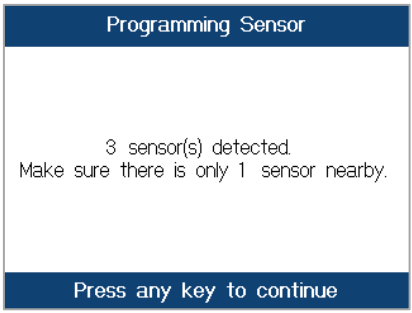


A failure message will display if the sensor fails to program. Press any key to continue. Ensure you are using an MX-Sensor with the correct frequency. Try to program sensor again.



No sensor detected.

Ensure the unit software is up-to-date.

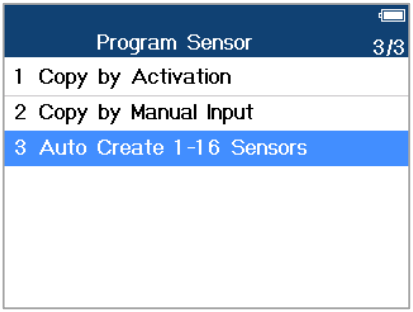


Multiple sensors detected.

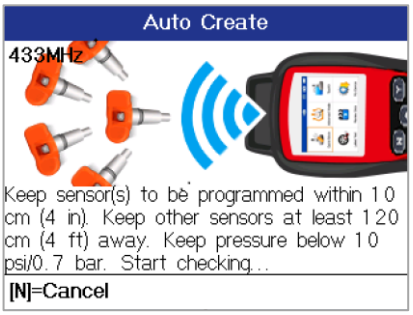
Ensure that only one sensor is close to the tool.

3.4.3 Auto Create 1-16 Sensors

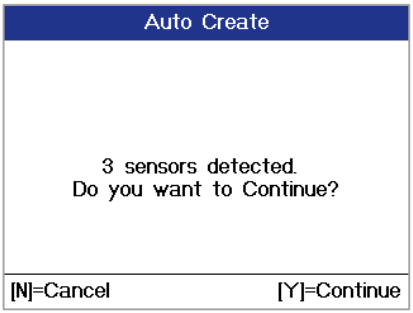
This function is used to auto create new unique ID(s) into 1-16 MX-Sensor(s).



Place 1-16 MX-Sensor(s) close to the top of the tool.

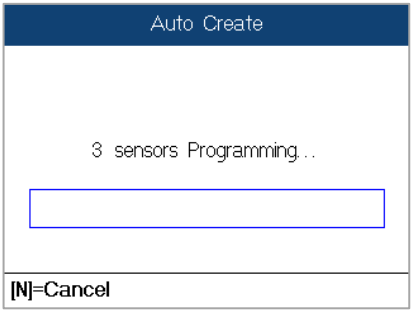


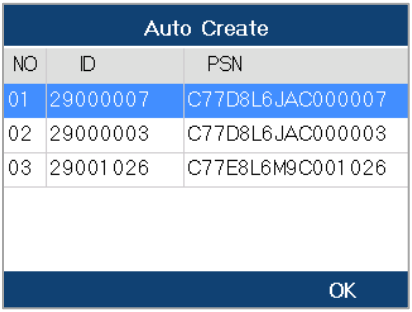
The tool will automatically detect the sensors near the tool.



N
= Cancel

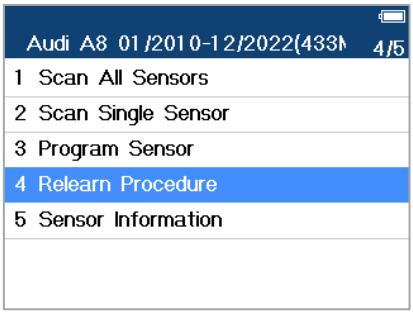
Y
= Confirm





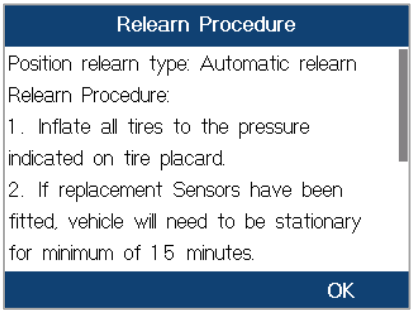
Once the sensors are successfully programmed, the sensor IDs and the PSNs (Product Serial Number) will display on the tool.

3.5 Relearn Procedure



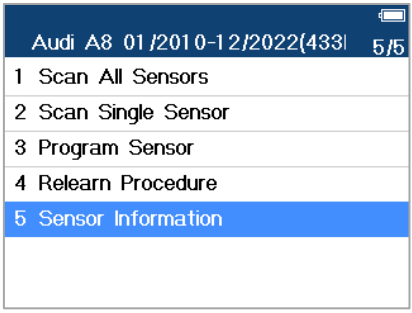
N
= Cancel

Y
= Confirm



Read the Relearn Procedure carefully to complete the operation.

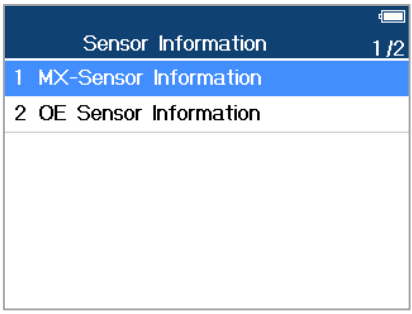
3.6 Sensor Information



N
= Cancel

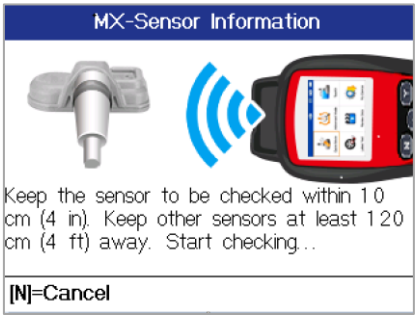
Y
= Confirm

3.6.1 MX-Sensor Information



Place an MX-Sensor near the top of the tool and then press **Y**.

Y
= Confirm

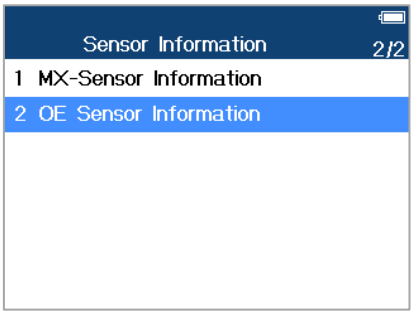


MX-Sensor Information	
Sensor ID	29001026
Frequency	433/315Mhz
Voltage	2.98V
HW	8306
SW	V6.38
AC/PI	FF00/0169
PSN	C77E8L6M9C001026
PV/PT/MI	2.97/26.0/B1114
PD	23-01-08
Press any key to continue	

NOTE

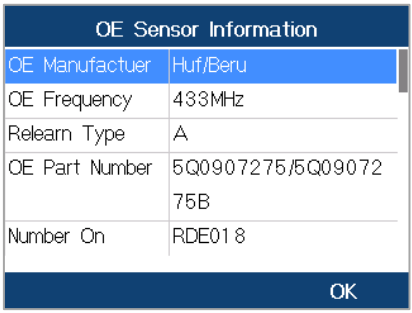
Area Code is the code used to identify the area of your tool for Autel Support when you file a report.

3.6.2 OE Sensor Information



N
= Cancel

Y
= Confirm

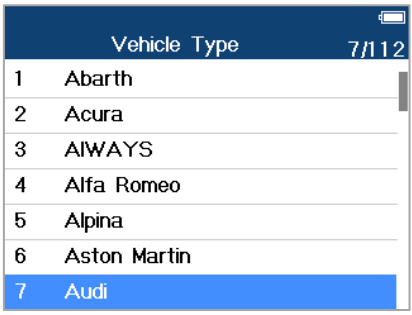


The tool will automatically display the information of the OE sensor.

4 TPMS Advanced Mode

The Advanced Service Mode performs additional TPMS functions: **TPMS Diagnose**, **Program Sensor**, **Position Relearn**, and **Information** (OE and MX-Sensor data and vehicle OBDII port location diagram).

4.1 Vehicle Identification



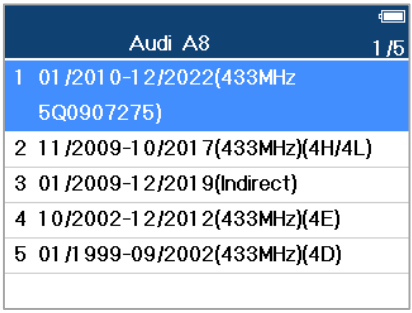
Y
= Confirm

4.1.1 Select by Model

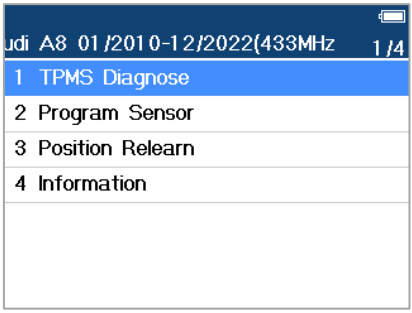
Y
= Confirm

4.1.2 Select by Year

1. For vehicles using **Direct TPMS**:

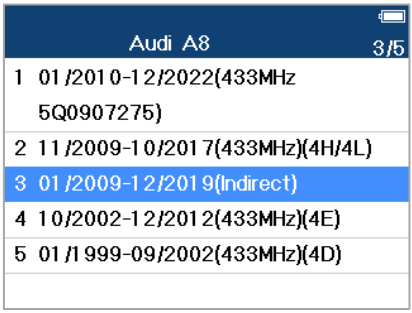


Y
= Confirm

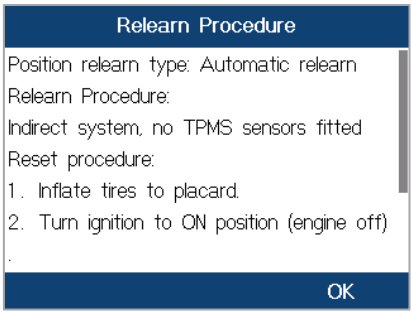


Functions provided in **Advanced Mode**: **TPMS Diagnose**, **Program Sensor**, **Position Relearn**, and **Information**. For some vehicles, a fifth option: **Tire Type/Pressure Section** is available.

2. For vehicles using **Indirect TPMS**:



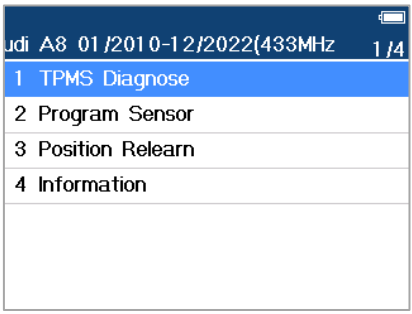
Y
= Confirm



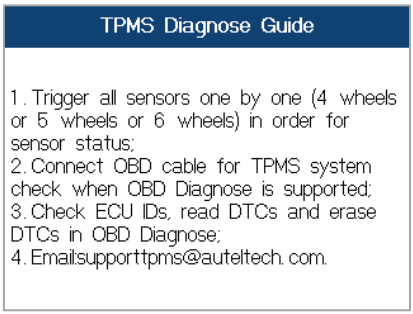
Follow the **Relearn Procedure** displayed for vehicles with indirect TPMS.

4.2 TPMS Diagnose

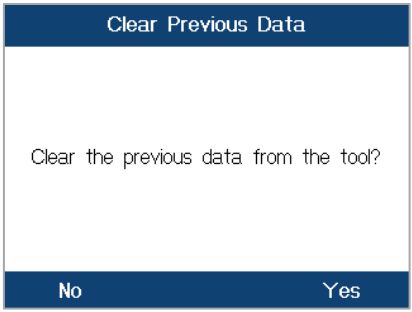
This function is used to check TPMS and sensor status.



Y
= Confirm



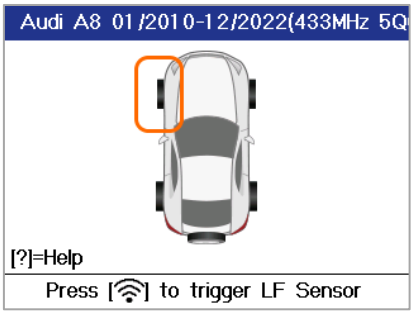
The TPMS Diagnose Guide will display if the sensor activation has not been performed before. Press any key to move to the sensor activation menu.



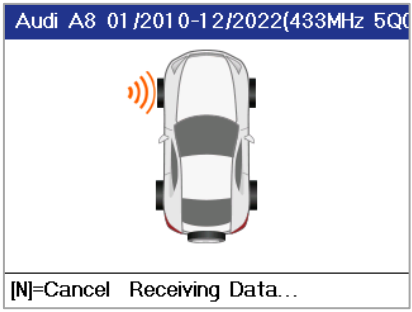
If the sensor activation has not been performed and there is data saved in the tool, a Clear Previous Data message will display. Press **N** to enter the existing sensor activation menu and reactivate one sensor, then the tool will prompt you to connect OBDII cable for ECU diagnosis, or press **Y** to clear the previous data and reactivate the sensors.

4.2.1 Trigger/Activate Sensors

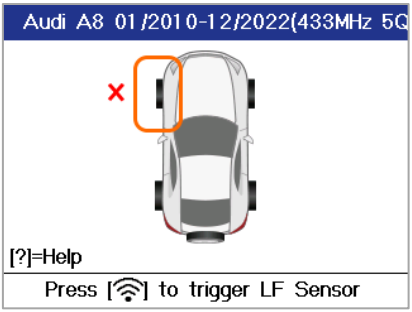
Follow the on-screen instructions to activate all the sensors mounted on the test vehicle.



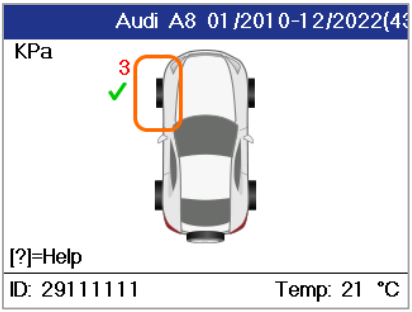
Press **Trigger** to activate the sensor.



The tool is receiving data from the sensor.

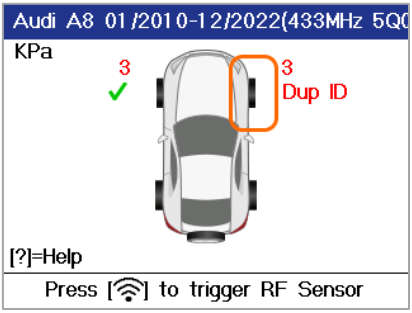


Sensor activation failed.

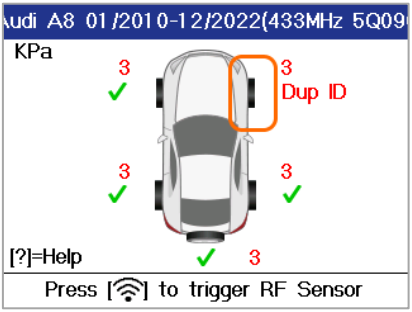


Sensor activation successful.

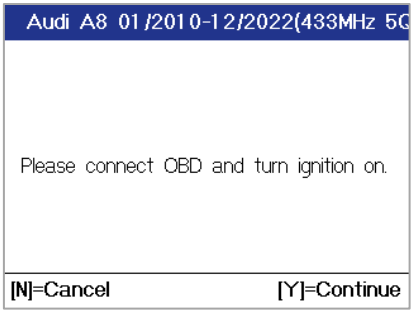
Sensor ID displays on the left side of the bottom bar and the temperature displays on the right side of the bottom bar.



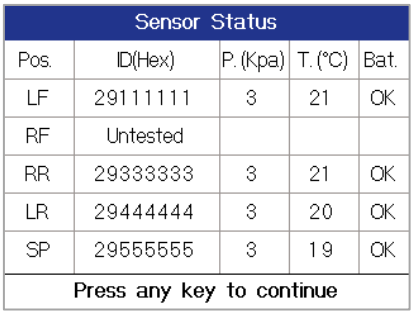
Dup ID icon indicates that a duplicate sensor ID has been read.



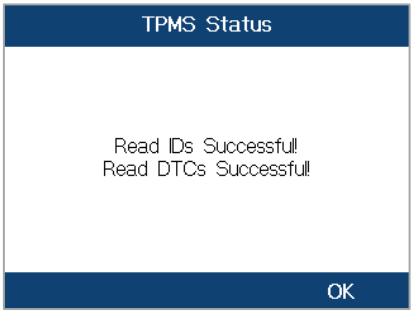
All sensors have been triggered. The screen advances to connect OBDII cable for diagnosis even if not all sensors have been successfully activated.



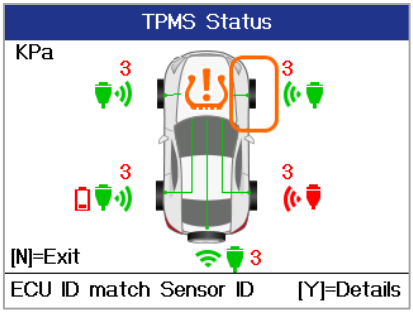
Follow the on-screen instructions to connect the tool with the test vehicle via OBDII cable. Turn on the ignition. Press **N** to show the Sensor Status, or press **Y** to continue, and the tool will automatically read the sensor IDs and Data Trouble Codes (DTCs) present in the ECU.



The Sensor Status screen displays position, sensor ID, tire pressure, tire temperature, and battery level of the activated sensors.



A message will display if IDs and DTCs have been read successfully.



Green signal and OBDII icons:

the ECU ID matches the Sensor ID.

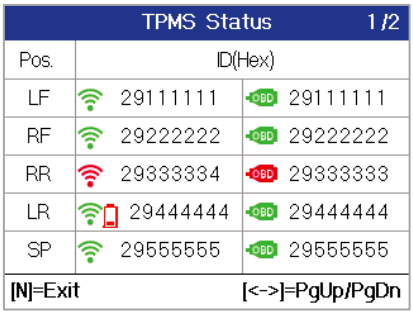
Red signal and OBDII icons: the

ECU ID does not match the Sensor ID.

Red battery icon: low sensor battery

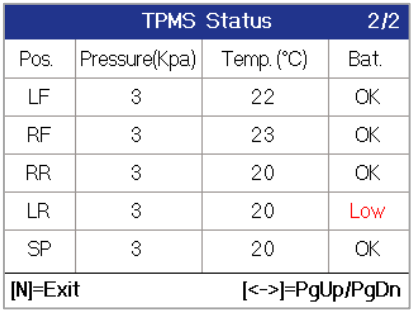
Amber TPMS icon: DTC(s) present in the ECU.

Press **Y** to view sensors data.



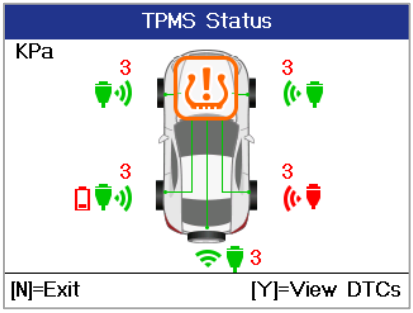
Positions, activated sensor IDs, and ECU-registered IDs display on the screen.

Use the **LEFT/RIGHT** arrow button to view more information.

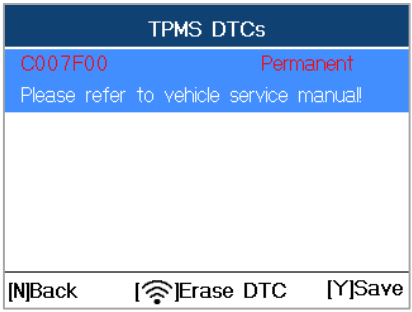


Pressure, temperature, and battery level display on the second page.

Press **N** to exit.



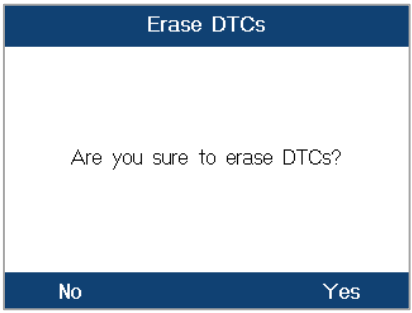
Use the **UP/DOWN** arrow button to select the TPMS icon in the center of the graphed vehicle and press **Y** to view the DTCs.



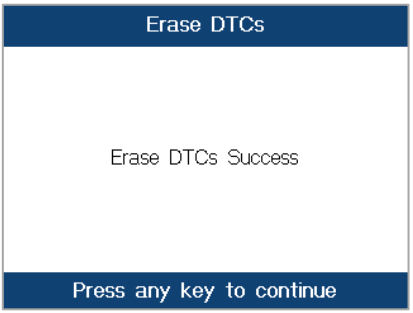
N
= Back

= Erase DTC

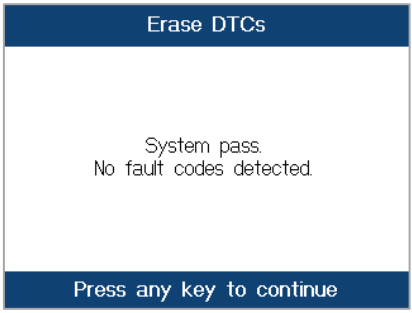
Y
= Save



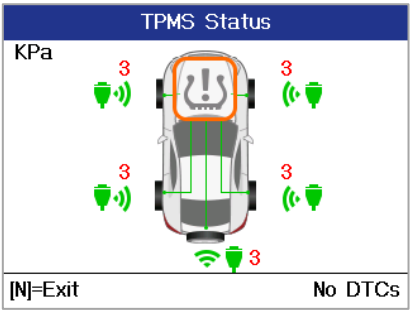
Press **Y** to continue.



DTCs cleared successfully.

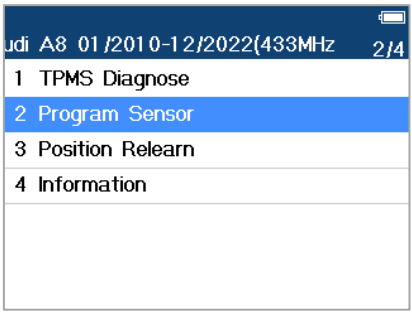


The tool will automatically recheck the ECU to ensure all DTCs have been deleted.

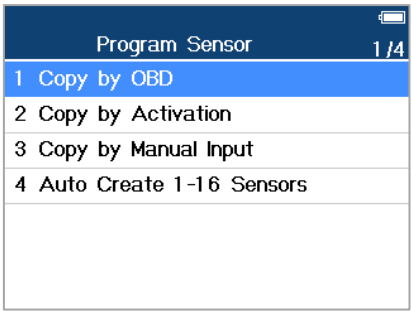


If no DTC(s) is present in the ECU, the middle TPMS icon displays gray and a “No DTCs” message displays at the right-bottom of the screen.

4.3 Program Sensor



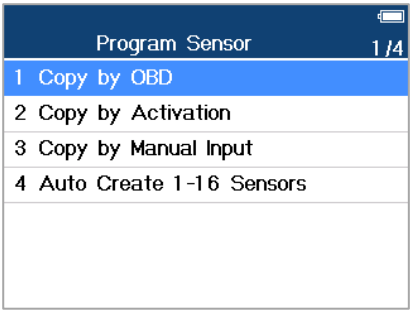
Y
= Confirm



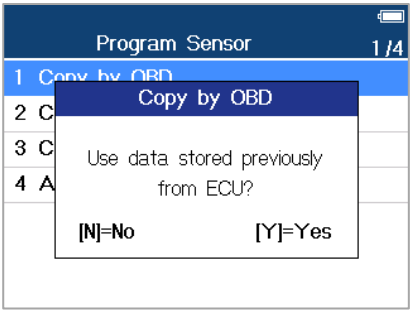
There are four ways to program MX-Sensors: **Copy by OBD**, **Copy by Activation**, **Copy by Manual Input**, and **Auto Create 1-16 Sensors**.

4.3.1 Copy by OBD

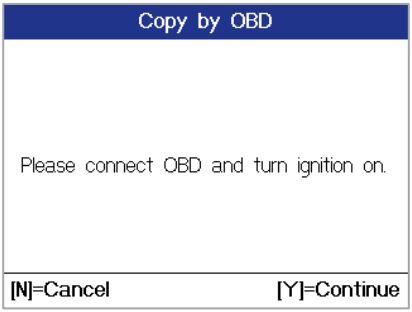
Copy the sensor ID from ECU into an MX-Sensor.



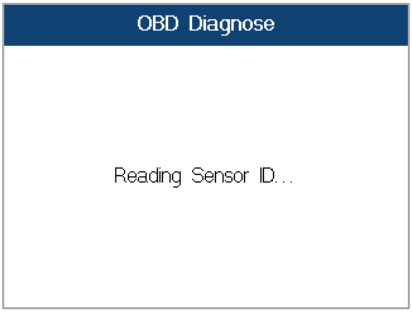
Press **Y** to confirm selection. If no TPMS diagnosis is performed before, the tool will prompt the user to connect OBDII cable and then read information from the ECU. If TPMS diagnosis is performed, then the next screen displays.



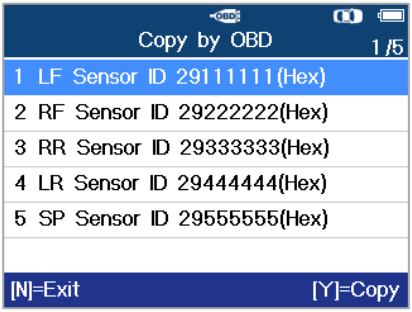
Press **Y** to use the previously stored data, and then the sensor IDs saved in the ECU display; or press **N** to use new data, and then the following screens display.



Follow the on-screen instructions to connect the tool with the test vehicle via the OBDII cable. Press **Y** to continue, or press **N** to exit.



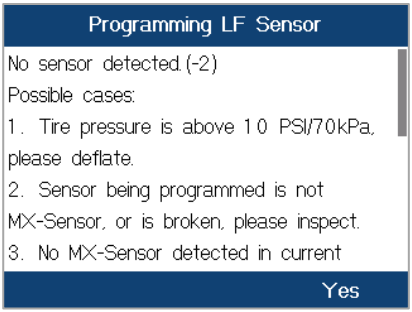
The tool will automatically read data from the ECU.



The sensor IDs saved in the ECU display on the screen.

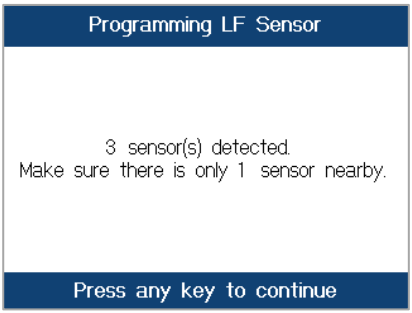
Place one MX-Sensor near the top of the tool.

Select one sensor ID and press **Y** to program the new MX-Sensor.



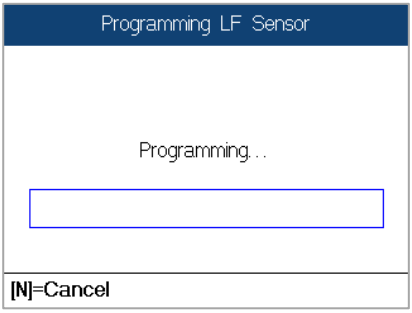
No sensor detected.

Press any button to continue.



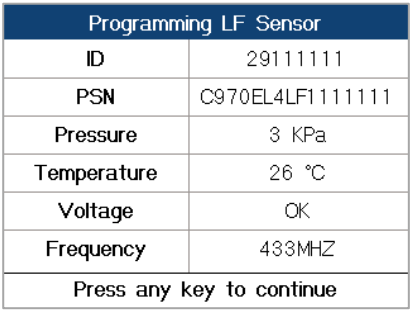
Multiple sensors detected.

Place one sensor close to the tool, and press any key to continue.



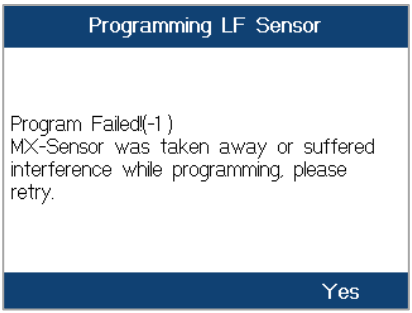
One sensor is detected.

The programming function automatically proceeds.



Programming Successfully.

Sensor ID, PSN, Pressure, Temperature, Frequency, and Voltage are displayed on the screen.



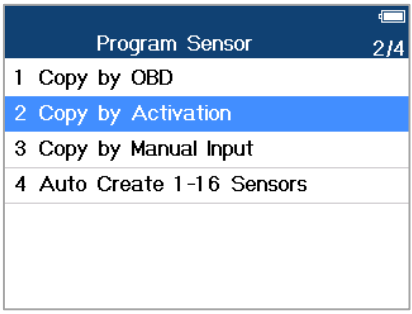
Programming Failed.

Press any key to continue.

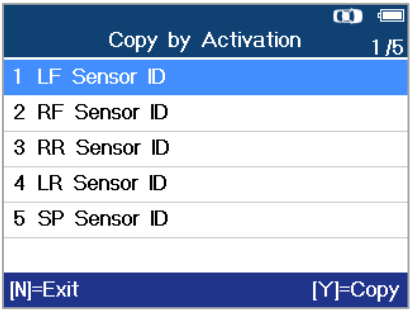
By using **Copy by OBD**, the sensor ID that is retrieved from TPMS ECU is programmed to the new MX-Sensor. There is no need to perform the **Relearn** function to write the ID into the ECU when the new programmed sensor has been put in the same position. The **Copy by OBD** programming method, if available, is recommended to program new MX-Sensors as there is no need for Relearn.

4.3.2 Copy by Activation

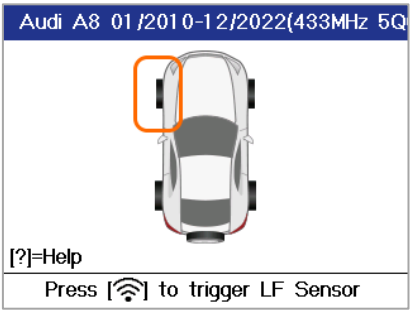
This function is used to activate or trigger the original sensor and retrieve the ID of the sensor, and then write the original sensor ID into the new MX-Sensor.



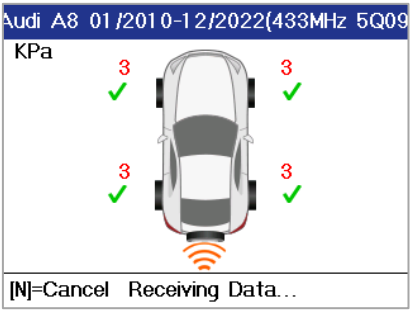
Press **Y** to select **Copy by Activation**.



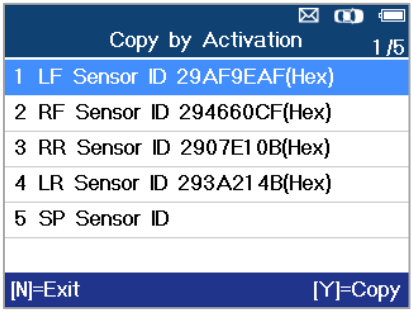
Press the **UP**/**DOWN** arrow button to select the sensor to be copied. Place the tool near the sensor to be copied. If the sensor is still attached to the wheel, hold the tool close to the tire sidewall right above the sensor.



Press **Y** to enter the activation interface.

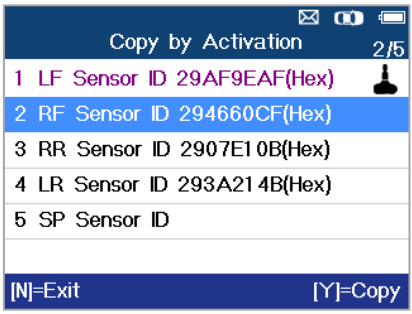


Press **Trigger** to activate the corresponding sensor.



Press **N** to return to the previous menu. If the ID has been copied successfully, press **Y** to copy the selected ID and program the sensor.

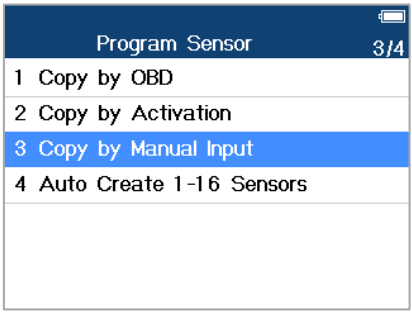
If there is no ID yet, press **Y** to enter the activation interface.



If the sensor programming is successful, the sensor icon will appear on the right side of the list item.

4.3.3 Copy by Manual Input

This function is used to manually input the original sensor ID and program it to new MX-Sensor.

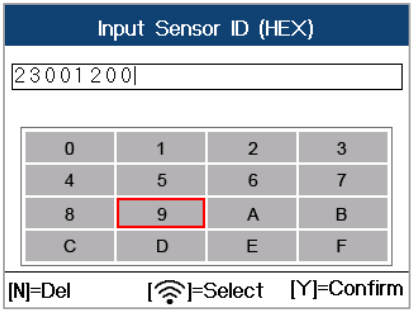


N

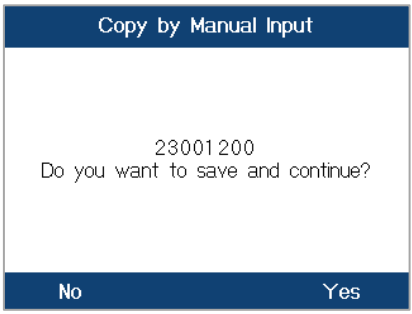
= Cancel

Y

= Confirm



- DEC — ID is coded in decimal.
- HEX — ID is coded in hexadecimal (letters and numbers).
- AUTO — tool will automatically detect the format of the ID.

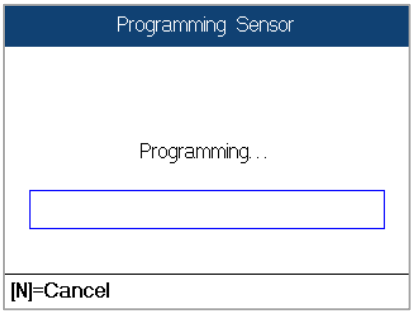


N

= Exit

Y

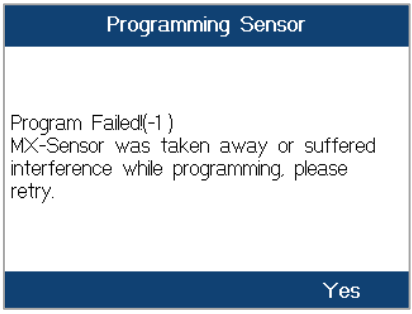
= Confirm and Program



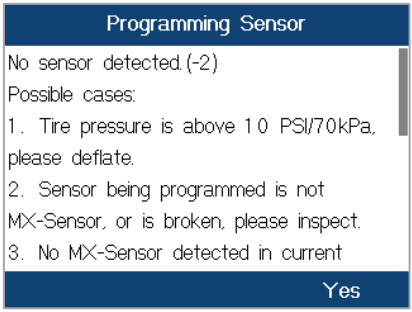
The programming function begins.

Programming Sensor	
ID	23001200
PSN	C77E8L6M9C001026
Pressure	3 KPa
Temperature	27 °C
Voltage	OK
Frequency	433MHZ
Press any key to continue	

Once programmed, sensor and tire data will display.

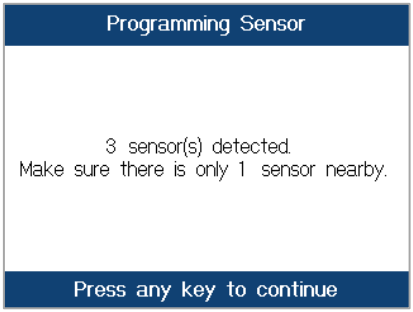


A failure message will display if the sensor fails to program. Press any key to continue. Ensure you are using an MX-Sensor with the correct frequency. Try to program sensor again.



No sensor detected.

Ensure the unit software is up-to-date.

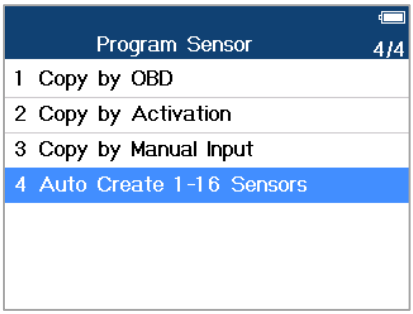


Multiple sensors detected.

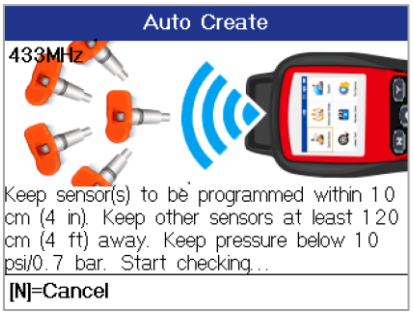
Ensure that only one sensor is close to the tool.

4.3.4 Auto Create 1-16 Sensors

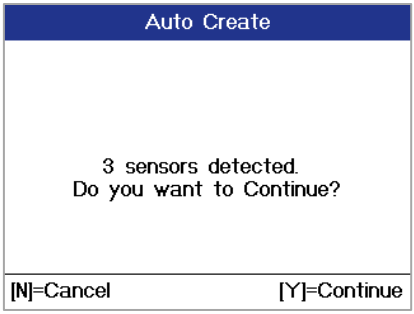
This function is used to auto create unique ID(s) to 1-16 MX-Sensor(s). A random ID will be created for the MX-Sensor. This new ID differs from the ID stored in the TPMS ECU, therefore, the sensor will have to be relearned to the TPMS ECU.



Place 1-16 MX-Sensor(s) close to the top of the tool.

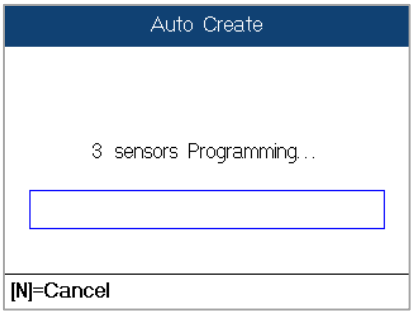


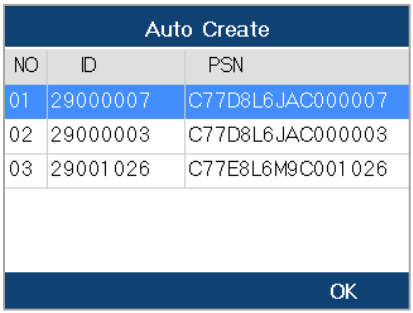
The tool will automatically detect the sensors near the tool.



N
= Cancel

Y
= Continue





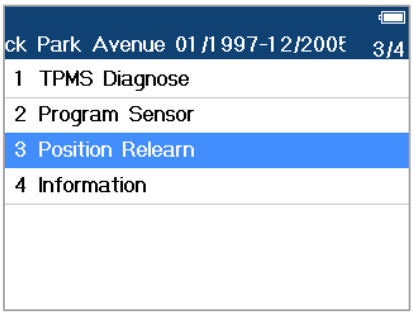
Once the sensors are successfully programmed, the sensor IDs and the PSNs will display on the tool.

4.4 Position Relearn

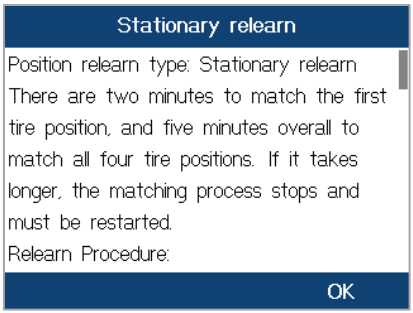
Generally speaking, there are three ways for position relearn: **Stationary Relearn**, **Automatic Relearn**, and **OBD Relearn**.

4.4.1 Stationary Relearn

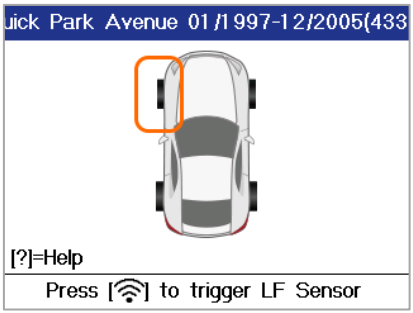
Stationary Relearn requires the vehicle be placed in the “Learn Mode.”



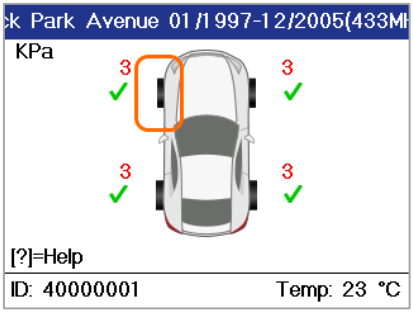
Y
= Confirm



Read the Relearn Procedure carefully and press **Y** to continue.



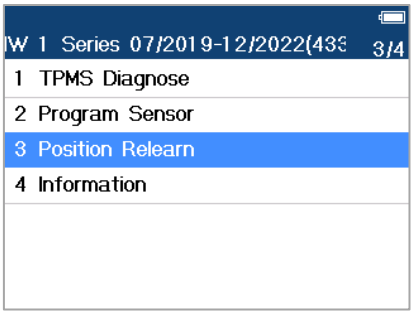
Follow the on-screen instructions to activate all the sensors mounted on the vehicle.
Note: All the sensors should be successfully activated without any duplicated IDs.



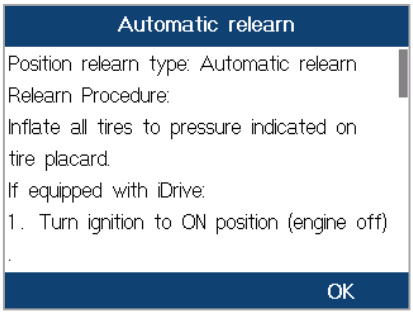
Once all sensors are successfully activated, follow the Relearn Procedure to perform Stationary Relearn.

4.4.2 Automatic Relearn

For some vehicles, the Relearn function can be completed by driving. Refer to the on-screen Relearn Procedure for the exact details of the process.



Y
= Confirm

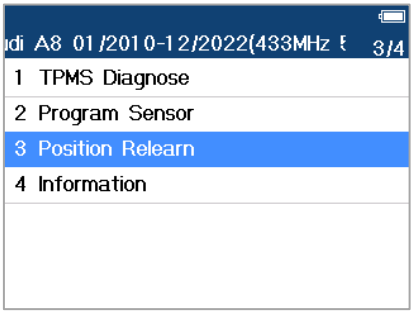


Follow the Relearn Procedure to perform Automatic Relearn.

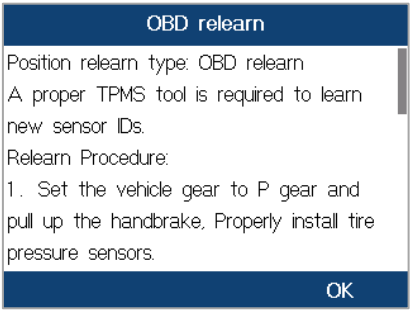
4.4.3 OBD Relearn

The OBD Relearn function allows the tool to directly write the TPMS sensor IDs to the TPMS module.

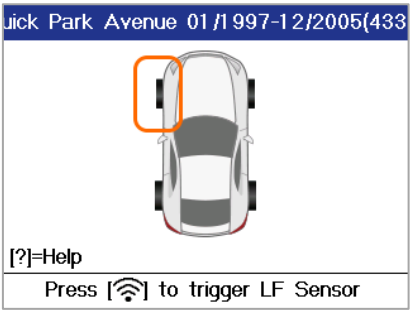
To perform Relearn, activate sensors on FL, FR, RR, and RL wheels.



If a sensor is triggered, the tool will ask whether to clear the saved data, press **N** to use the saved data and reactivate one sensor, the tool will instruct you to connect OBDII cable and then perform OBD Relearn, or press **Y** to clear the data and display the Relearn Procedure. The Relearn Procedure displays when no sensor is triggered.

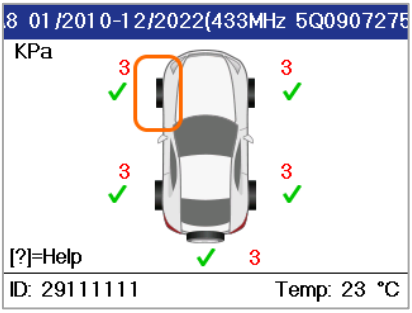


Read the Relearn Procedure carefully and press **Y** to continue.

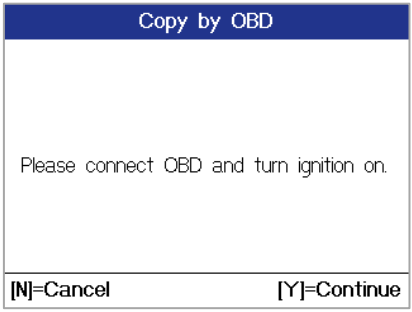


If no sensor activation is not performed before, follow the on-screen instructions to activate all the sensors mounted on the vehicle.

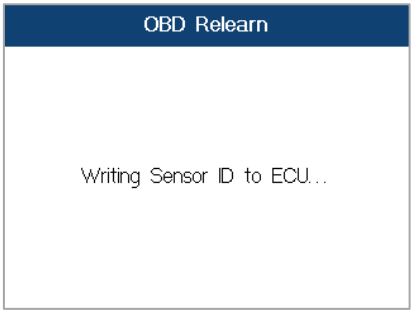
Note: All the sensors should be successfully activated without any duplicated IDs.



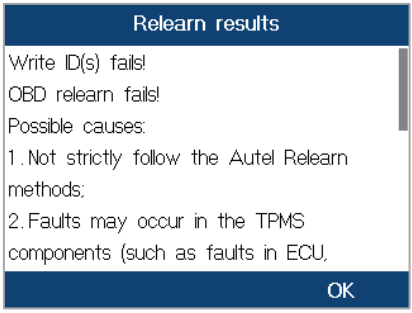
Once all sensors are successfully activated, the tool will prompt users to perform OBD Relearn, if supported by the vehicle.



Follow the on-screen instructions to connect the tool and vehicle via OBDII cable and turn the ignition on. Press **Y** to continue.



The tool is writing sensor ID to ECU. Please wait.

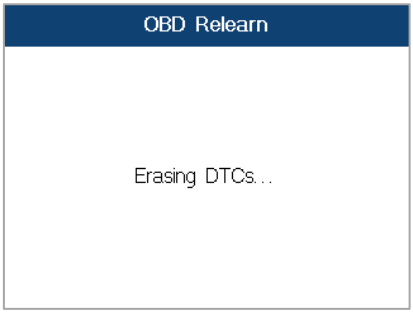


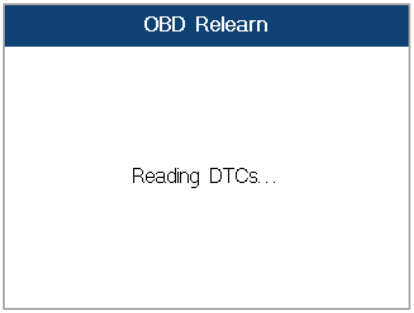
OBD Relearn Failed.

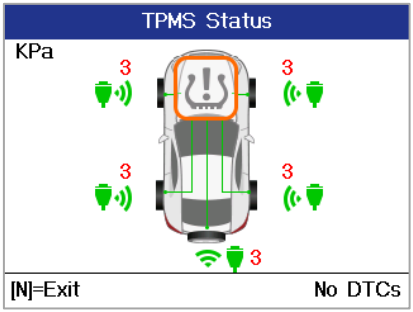
Press any key to continue.

OBD Relearn Successfully.

The sensor IDs have been written to the ECU and the tool will automatically erase the DTCs present in the ECU.

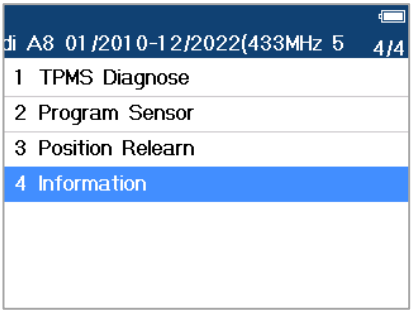


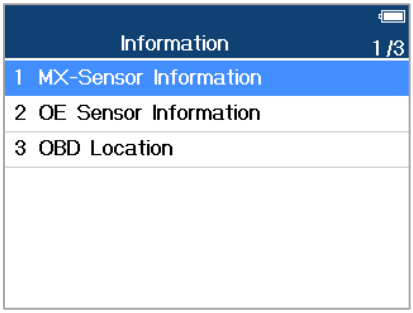




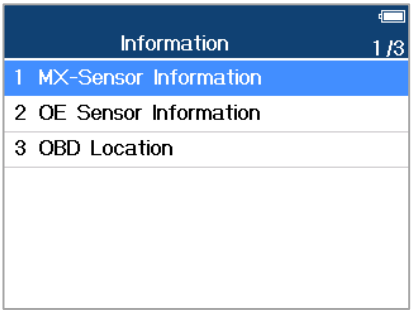
When all DTCs have been deleted, the TPMS icon displays gray. Press any key to continue.

4.5 Information

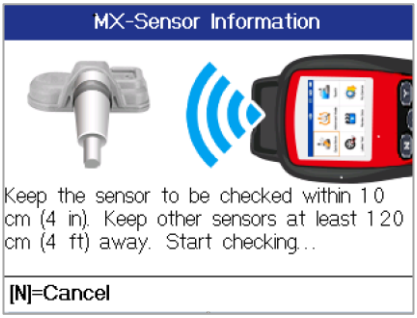


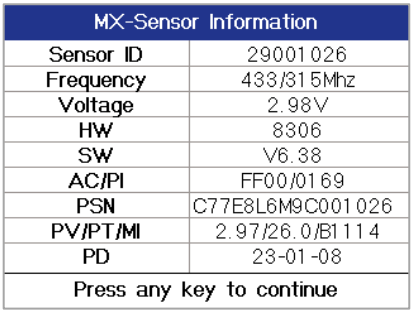


4.5.1 MX-Sensor Information



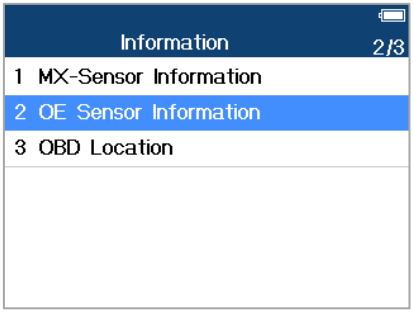
Place an MX-Sensor near the top of the tool and press **Y** to continue.



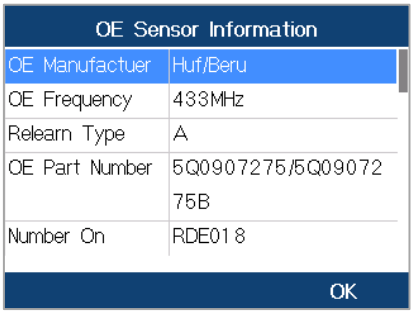


MX-Sensor Information	
Sensor ID	29001026
Frequency	433/315Mhz
Voltage	2.98V
HW	8306
SW	V6.38
AC/PI	FF00/0169
PSN	C77E8L6M9C001026
PV/PT/MI	2.97/26.0/B1114
PD	23-01-08
Press any key to continue	

4.5.2 OE Sensor Information

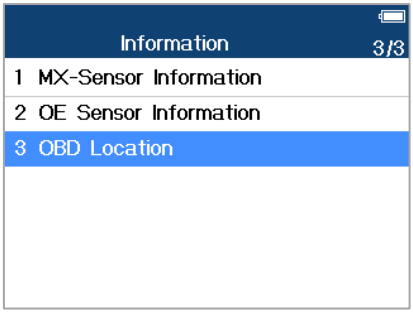


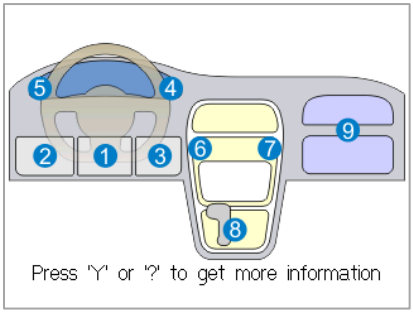
Y
= Confirm



The tool will display the information of the OE sensor for the selected vehicle.

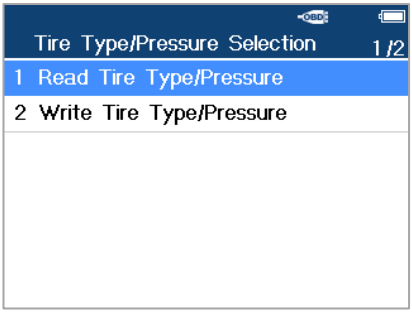
4.5.3 OBD Location





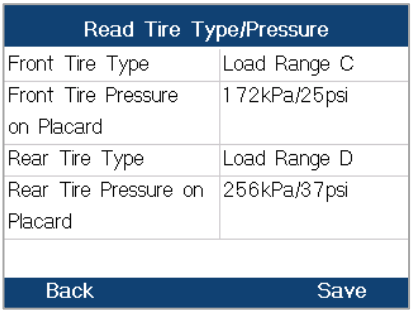
4.6 Tire Type/Pressure Selection

If all TPMS faults are cleared and the four tires are inflated to the reference pressure listed on the placard, but the TPMS MIL is still on, you may need to use this function to select your tire type and set the right tire pressure value.



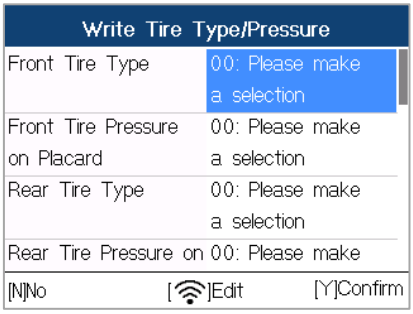
4.6.1 Read Tire Type/Pressure

Select **Read Tire Type/Pressure** and press **Y** to read the tire type and pressure of the test vehicle.

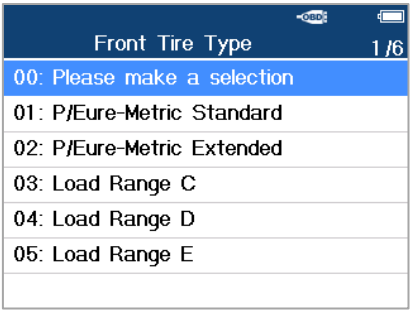


Press **Y** to save the reading for later review, or press **N** to exit without saving.

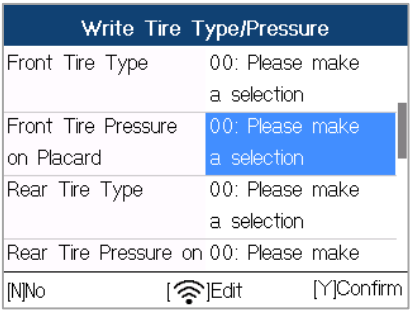
4.6.2 Write Tire Type/Pressure



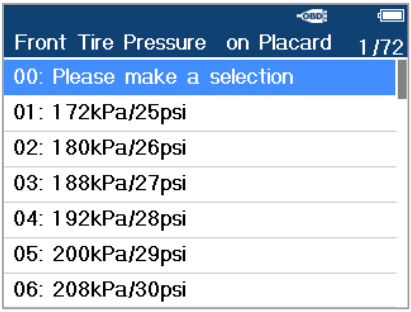
Select the item you want to change and press **Trigger** to enter the edit menu. (Take Front Tire Type as an example.)



Use the **UP/DOWN** arrow button to select the correct tire type and press **Y** to confirm.



Move to the next item: **Front Tire Pressure on Placard**, and press the **Trigger** button to edit.



Use the **UP/DOWN** arrow button to select the correct tire pressure on the placard and press **Y** to confirm and turn to the previous menu.

After all the changes are completed, press **Y** to confirm and exit, or press **N** to exit without saving the changes.

5 Miscellaneous

5.1 ToolKit

Test strength of remoteless key fob signal or unlock ECU for Toyota vehicles.

1. Select **ToolKit** from the Main Menu and press the **Y** button to confirm.

Figure 5-1 ***ToolKit Selection Screen***

2. The screen displays as below. Select **RKE & RF Monitor** and press **Y** to confirm the test strength of remoteless key fob.

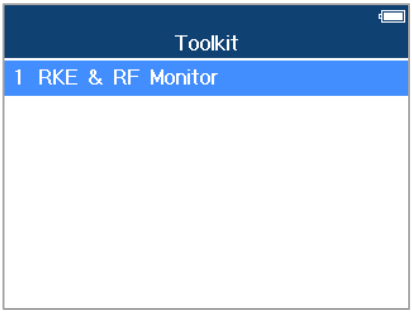


Figure 5-2 ***RKE & RF Monitor Menu***

3. Hold the key fob close to the tool and press the function buttons on the key fob to test. If the button works and the key fob is sending a signal, the tool will beep and

the screen displays as below. If the button does not work, the tool will do nothing. To make sure each button is working properly, please test each button in turn.

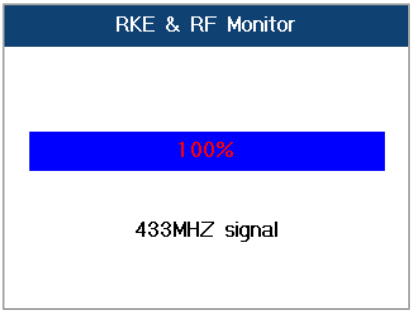


Figure 5-3 ***Receive Signal Screen***

4. The progress bar indicates the approximate signal strength of the key fob.
   - The stronger the signal, the higher the beep tone.
   - The tool tests only 315MHz and 433MHz key fobs.
5. Press the **N** button to return to the previous menu.

5.2 Latest Test

The **Latest Test** function saves the route of the last test. User can select this function to quick access the last test record and proceed testing.

5.3 Review Data

The **Review Data** function enables users to view and print saved TPMS DTCs and the tire type and pressure information.

5.4 My Device

The **My Device** function enables users to update the software, view or change device settings and view software and hardware versions.

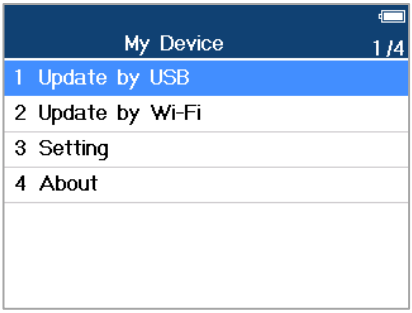


Figure 5-4 ***My Device Menu***

5.4.1 Update

This function allows you to update the scan tool software through your computer by installing the **Maxi PC Suite,** or to update the scan tool via Wi-Fi. You can use a **Mac (os x 10.11 or later)** or a **Windows-based** computer to download the suitable version from the www.maxitpms.com website and proceed.

Update by USB with the Maxi PC Suite

The update procedures for the Mac and Windows versions of the Maxi PC Suite are the same, and the Windows version is taken as an example here.

Connect the tool to a Windows-based computer using the supplied USB cable. Power on the tool.

Follow the update procedure to finish updating.

1. Download the **Maxi PC Suite** from www.maxitpms.com > Product > MaxiTPMS TS508WF > Downloads, and install it onto your Windows-based computer.
2. Run the **Maxi PC Suite** on the computer.
3. Select **Update by USB** on the My Device Menu to enter Update Mode.

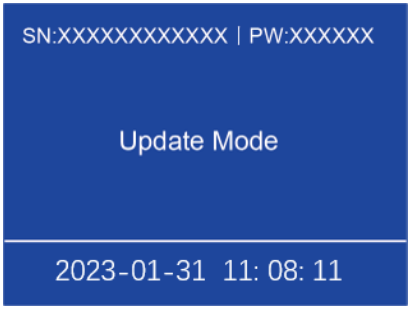


Figure 5-5 *Update Mode*

4. The Maxi PC Suite will automatically detect the connected device's serial number, if the connected device has not been registered yet, a message displays.

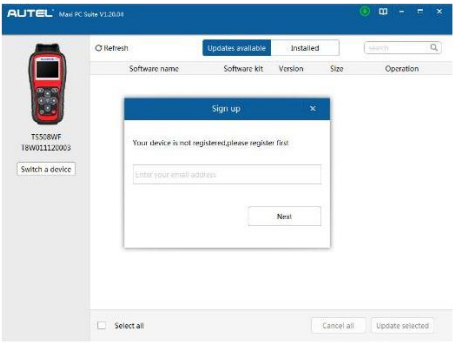


Figure 5-6 *Registration Reminder 1*

5. Enter your email address to register, click **Next** to continue.
6. If you haven't registered before, a verification code will be sent to your email address. Input your password and the verification code you received, and then click **Sign Up** to register the connected device. If the connected device has already been registered, the **Maxi PC Suite** will turn to the Update menu directly. If you have registered before, input your password and proceed.

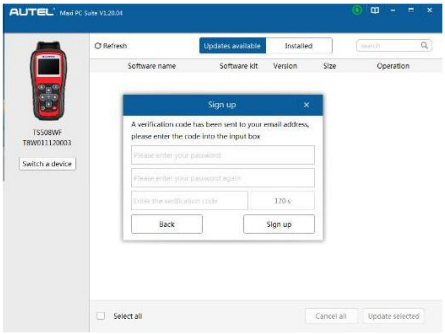


Figure 5-7 *Registration Reminder 2*

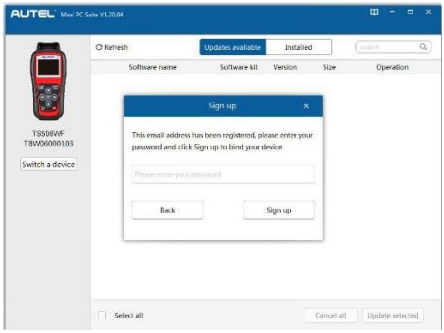


Figure 5-8 *Registration Dialog Box*

7. On the Updates Available page, select the appropriate files to install.

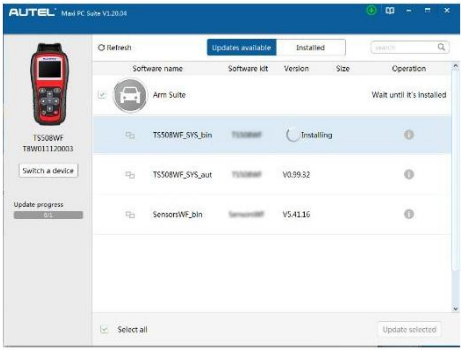


Figure 5-9 *Update Window*

8. When the update is completed, downloaded programs are installed automatically

and will replace the older version.

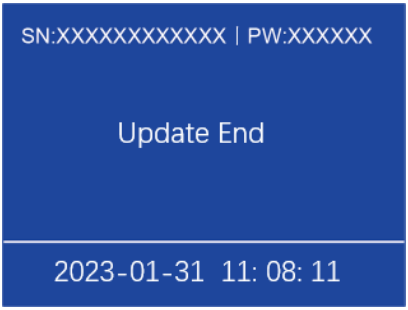


Figure 5-10 ***Program Update End***

Update by Wi-Fi

The scan tool needs to be connected with the USB cable during updating via Wi-Fi. Follow the update procedures to finish updating:

1. Open the device, select **Update by Wi-Fi** on the My Device Menu.

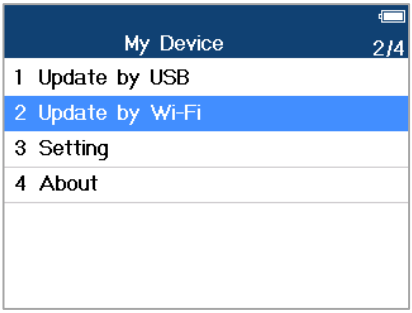


Figure 5-11 ***My Device Menu***

2. Select **Scan Wi-Fi** on the Update by Wi-Fi menu and connect to Wi-Fi. You could select the **Last Wi-Fi** to directly connect to the same Wi-Fi after the first scanning and connecting.

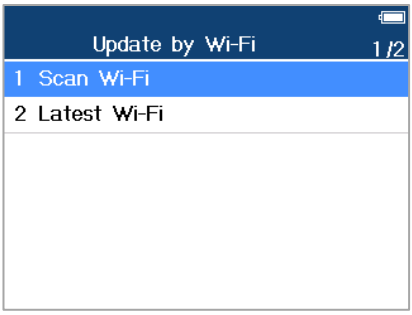


Figure 5-12 ***Update by Wi-Fi Menu***

3. The device will automatically detect whether it's bound to an Autel ID after connected to Wi-Fi successfully.

4. If you haven't an Autel ID and the device has not been bound, input your email address as your Autel ID.

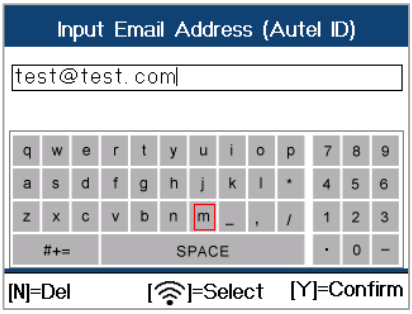


Figure 5-13 ***Input Email Address Screen***

5. Go to your email box for the verification code. Input the verification code and create an Autel ID password on the tool. In this way, you've registered an Autel ID, meanwhile, the device is bound to this ID. Update information will be scanned automatically.

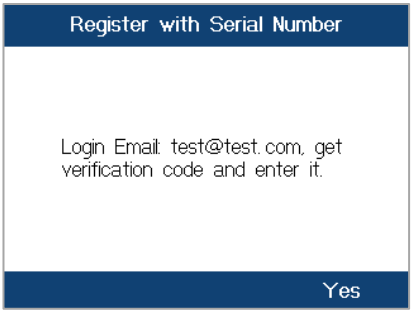


Figure 5-14 *Note Screen*

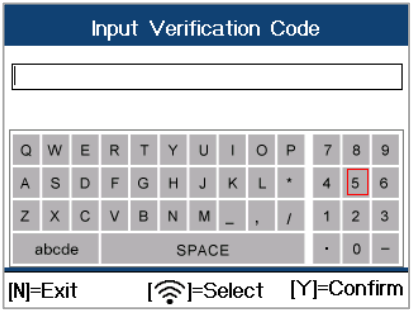


Figure 5-15 *Input Verification Code Screen*

6. If you have got an Autel ID, input your email address and password to bind the device to your ID. After successfully bound, update information will be scanned automatically.

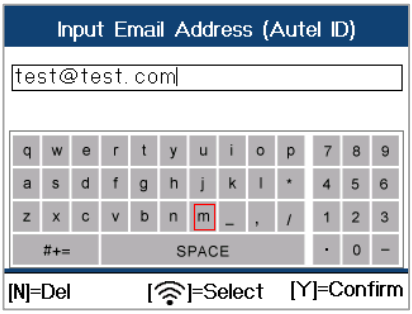


Figure 5-16 *Input Autel ID Screen*

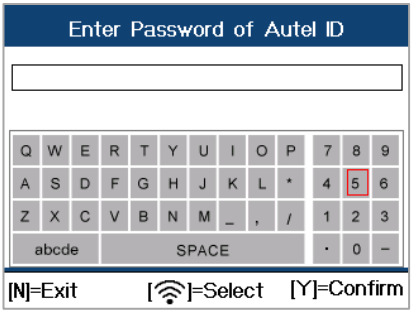


Figure 5-17 ***Input Password Screen***

7. If the device software needs to be updated, proceed as information displayed on the screen. Connect the device to the USB cable, press Y button, updating starts automatically.

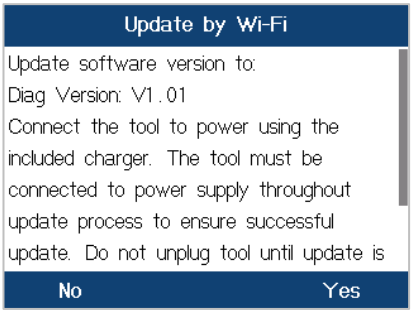


Figure 5-18 ***Update Software Version Screen***

NOTE

- There will be notification if the device software is already the newest version.
- You could register an Autel ID and bind the device to it on your website http://pro.autel.com or do it on the Maxi PC Suite.

8. The device will restart automatically after update successfully.

5.4.1.1 View or Delete Programs

To view the list of installed programs or to delete an installed program, please follow these steps:

1. Click on the **Installed** tag entry and the list of installed programs displays.

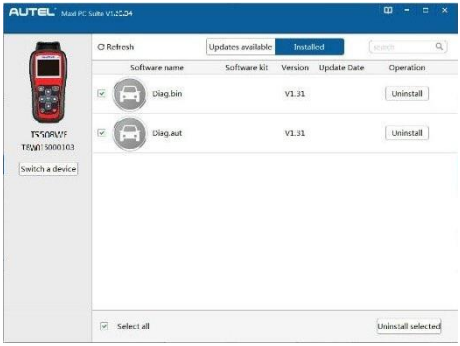


Figure 5-19 ***Deletion Window***

2. Select the program(s) that you would delete.
3. Click the **Uninstall** button at the end of the program you want delete, a confirmation message will display.
   - ✧ Click **Yes** to delete the program(s) selected, or **No** to cancel the action.
   - ✧ The deleted program will be added to the end of program list on the Updates Available page, if you wish to reinstall programs.

5.4.2 Setting

The tool allows you to make the following adjustments and settings.

1. **Market**: selects the operating region of the tool.
2. **Language**: selects the operating language of the tool.
3. **ID Format**: sets the ID display to Hexadecimal, Decimal, or Auto.
4. **Pressure Unit**: sets the pressure unit in kPa, psi, or bar.
5. **Temperature Unit**: sets the temperature unit in degrees to Celsius or Fahrenheit.
6. **Distance Unit**: sets the distance unit in km or mile.
7. **Beep Set**: turns on/off key-press beep.
8. **Power-off**: sets the amount of time of inactivity before the tool automatically powers off.
9. **Date and Time**: sets date and time on the tool.
10. **TPS Prog Limit**: sets TPS Prog Limit on or off.

NOTE
The tool settings are defaulted until changes are made.

5.4.2.1 *Enter the Setting Menu*

From the Job Menu: select **Settings** and press the **Y** button. The Settings Menu displays as below.

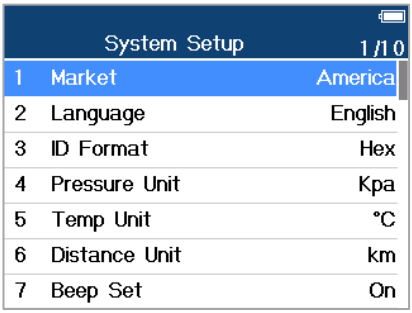


Figure 5-20 *System Setup Screen*

Market

NOTE

The default market selection depends on the area the tool is sold.

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Market**, and press the **Y** button.
2. Use the **UP/DOWN** arrow button to select the desired market or tool operating region and press the **Y** button to save your selection and return to the previous menu.

Figure 5-21 *Market Selection Screen*

Language

NOTE

English is the default language.

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Language**, and press the **Y** button.
2. Use the **UP/DOWN** arrow button to select the desired language and press the **Y** button to save your selection and return to the previous menu.

Figure 5-22 *Language Selection Screen*

ID Format

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **ID Format**, and press the **Y** button.
2. From the ID Format screen, use the **LEFT/RIGHT** arrow button to select the desired ID format.

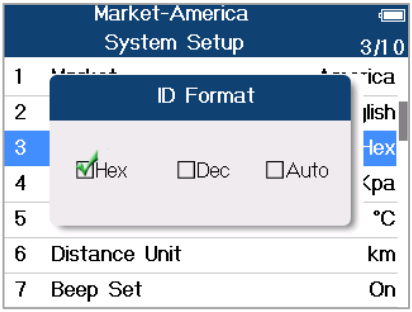


Figure 5-23 *ID Format Screen*

3. Press the **Y** button to save your settings and return to the previous menu, or press

the **N** button to exit without change.

Pressure Unit

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Pressure Unit**, and press the **Y** button.
2. From the Pressure Unit screen, use the **LEFT/RIGHT** arrow button to select the desired unit: **kPa**, **psi**, or **bar**.

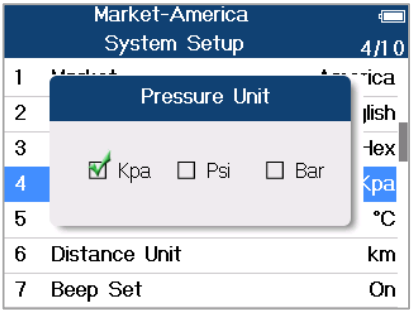


Figure 5-24 ***Pressure Unit Screen***

3. Press the **Y** button to save your settings and return to the previous menu, or press the **N** button to exit without change.

Temperature Unit

1. From System Setup screen, use the **UP/DOWN** arrow button to select **Temperature Unit**, and press the **Y** button.
2. From Temperature Unit screen, use the **LEFT/RIGHT** arrow button to select the desired unit of the temperature.

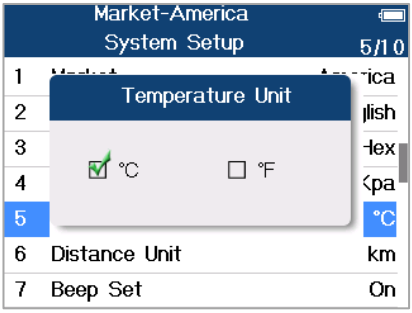


Figure 5-25 ***Temperature Unit Screen***

3. Press the **Y** button to save your settings and return to the previous menu, or press the **N** button to exit without change.

Distance Unit

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Distance Unit**, and press the **Y** button.
2. From the Distance Unit screen, use the **LEFT/RIGHT** arrow button to select the desired unit of distance: **km** or **mile**.

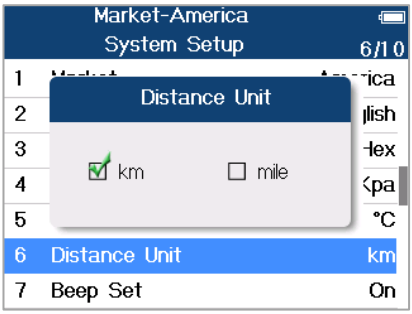


Figure 5-26 *Distance Unit Screen*

3. Press the **Y** button to save your settings and return to the previous menu, or press the **N** button to exit without change.

Beep Set

This function allows you to turn on/off the built-in speaker for key pressing.

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Beep Set**, and press the **Y** button.
2. From the Beep Set screen, use the **LEFT/RIGHT** arrow button to select **ON** or **OFF** to turn on/off the beep.

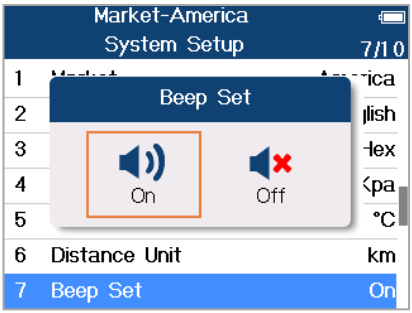


Figure 5-27 *Beep Set Screen*

3. Press the **Y** button to save your selection or the **N** button to exit without change.

Power-off

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Power-off**, and press the **Y** button.
2. Press the **UP/DOWN** arrow button to increase or decrease the amount of time of inactivity before the tool automatically powers off. Press the **Y** button to confirm your change or the **N** button to exit without change.

Figure 5-28 *Auto Power-off Screen*

NOTE

1. Before the tool powers off automatically, it will save all the TPMS test data. Next time when the tool is powered on, you may retrieve the recorded data or return to the last operation.
2. When using external power, the tool stays on until turned off. When using internal battery power, the tool turns off automatically after a set time of inactivity.

Date and Time

This function sets time and date on the tool.

1. From the System Setup screen, use the **UP/DOWN** arrow button to select **Date and Time**, and press the **Y** button to confirm; wait for the **Date and Time** screen to display.
2. Use the **UP/DOWN** arrow button to increase or decrease the value and use the **LEFT/RIGHT** arrow button to select the item to change.

Figure 5-29 ***Date and Time Screen***

TPS Prog Limit

This function sets to **ON** or **OFF** the TPS Prog Limit.

Press the **UP/DOWN** arrow button to select the on/off TPS Prog Limit (tire pressure programming limit).

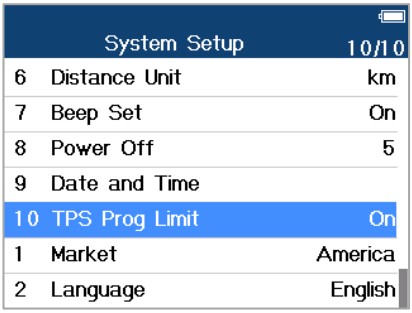


Figure 5-30 ***TPS Prog. Limit Screen 1***

Select **Prog. Pressure≤69 kPa (On)**. If the pressure exceeds 69 kPa, the sensor cannot be programmed. If it is off, the sensor can be programmed at any pressure value.

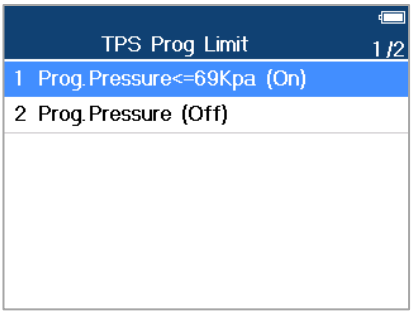


Figure 5-31 ***TPS Prog. Limit Screen 2***

5.4.3 About

This function allows viewing of tool data such as serial number and software version number of the tool.

1. From **System Setup** screen, use the **UP/DOWN** arrow button to select **About**, and press the **Y** button; wait for the About screen to display.
2. View tool information on screen. Press the **N** button to exit.

Figure 5-32 ***About Screen***

5.5 Print

To print out the data saved in the device, you will need the followings:

- ✓ TS508WF tool
- ✓ computer with USB ports
- ✓ USB cable

The **Print Data** function allows printing of TPMS DTC recorded data. Connect the tool and the computer with the supplied USB cable.

NOTE

The print function is not available on Mac-based computers for the present.

1. Download the **Maxi PC Suite** from www.maxitpms.com > Product > MaxiTPMS TS508WF > Downloads, and install it onto your computer.
2. Connect the tool to the computer with the supplied USB cable.
3. Run **Autel Printer** software on computer.
4. Select **Review Data** function in Main Screen of the TPMS tool. In data menu screen, use the **UP/DOWN** arrow button to select the data you want to print. Wait for the reviewing window to display, and then select **Print** function by pressing the **Y** button. The selected file will be uploaded to your computer. For more detailed instructions, please refer to *Review Data*.
5. The **Printer** will display.
6. The selected data will display on the textbox. Select the appropriate function key on the right to execute one of the following operations:
   - **Print** – print all data in the textbox to a printer connected to your computer.
   - **Edit** – display an editable NOTEPAD window with recorded data.
   - **Copy** – copy data in the textbox to the clipboard.
   - **Clear** – delete data in the textbox.
   - **Exit** – quit the operation.

5.6 Product Troubleshooting

This part describes problems that you may encounter while using the TPMS tool.

5.6.1 Vehicle Linking Error

A communication error occurs if the TPMS tool fails to communicate with the vehicle's ECU (Electronic Control Unit) when running the diagnostic function. You need to do the following to check up:

- Verify that the ignition is ON.
- Check if the TPMS tool's OBD II connector is securely connected to the vehicle's DLC.
- Verify that the vehicle is OBD II compliant.
- Verify that the vehicle is equipped with TPMS.

- Verify that the tool battery is sufficiently charged.
- Turn the ignition off and wait for about 10 seconds. Turn the ignition back on and continue testing.
- Verify the control module is not defective.

5.6.2 Operating Error

If the scan tool freezes, reset the tool:

- Turn the ignition off and wait for about 10 seconds. Turn the ignition back on and continue testing.

6 Compliance Information

FCC COMPLIANCE **FCC ID: WQ8MTPMS508WF**

This device complies with Industry Canada's licence-exempt RSSs. 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.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interferences; et
2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

⚠ 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The term "IC" before the radio certification number only signifies that IC technical specifications were met.

RoHS COMPLIANCE

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU.

CE COMPLIANCE

This product is declared to conform to the essential requirements of the following Directives and carries the CE mark accordingly:

EMC Directive 2014/30/EU
R&TTE Directive 1999/5/EC
Low Voltage Directive 2014/35/EU

7 Warranty and Service

7.1 Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiTPMS Diagnostic Device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within 1 year period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

NOTE

If the warranty period is inconsistent with local laws and regulations, please comply with the relevant local laws and regulations.

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

7.1.1 This warranty does not apply to:

1) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
2) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
3) Damage from exposure to excessive temperatures or extreme environmental conditions;
4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
6) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

7.2 Service and Support

If you have any question or problem about the operation of the product, please contact us (see the following contact info) or your local distributor.

Autel China Headquarters

- **Phone:** +86 (0755) 8614-7779 (Monday-Friday, 9AM-6PM Beijing Time)
- **Email:** supporttpms@auteltech.com
- **Address:** Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China
- **Web:** www.autel.com; www.maxitpms.com

Autel North America

- **Phone:** 1-855-288-3587 (Monday-Friday, 9AM-6PM Eastern Time)
- **Email:** ussupport@autel.com
- **Address:** 36 Harbor Park Drive, Port Washington, New York, USA 11050
- **Web:** www.autel.com/us

Autel Europe

- **Phone:** +49(0)89 540299608 (Monday-Friday, 9AM-6PM Berlin Time)
- **Email:** support.eu@autel.com
- **Address:** Landsberger Str. 408, 81241 München, Germany
- **Web:** www.autel.eu

Autel APAC

Japan:

- **Phone:** +81-045-548-6282
- **Email:** support.jp@autel.com
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