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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:

http://pro.autel.com
www.autel.com
www.maxitpms.com

1-855-288-3587/1-855-AUTELUS (North America)
0086-755-22672493/86532091 (China)

supporttpms@auteltech.com

For details, please refer to the Service 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 that, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠ WARNING

Indicates a potentially hazardous situation that, 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.

Conventions

The following conventions are used.

Bold Text

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

Example:

- Tap **OK**.

Notes and Important Messages

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.

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.

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.

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

Functional Description

Figure 2-1 ***MaxiTPMS TS508***

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 SCROLL 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 SCROLL 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 SCROLL 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 SCROLL 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.

Specifications

Table 2-1 *Specifications*

Item	Description
Display	TFT color display (320 x 240 dpi)
Power	3.7 V Li-polymer battery
Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 70°C (-4°F to 158°F)
Dimensions	215 mm (8.46”) / 105 mm (4.13”) / 37 mm (1.46”)
Weight	0.39 kg (0.86 lb.)

Accessories Included

- **User Manual** – provides instructions on tool operations.
- **OBD II Cable** – provides power supply and communication between the tool and the test vehicle.
- **USB Cable and AC Adapter** – attach USB cable to Windows PC to charge tool, print report and update software. Charge tool from a wall outlet via AC adapter and USB cable.
- **Carry Case** – used to store the tool when not in use.
- **Magnet** – used to trigger magnetically activated sensors (early model TPMS sensors).
- **CD** – includes user manual and PC Suite.
- **Sensors** – supplied with Premium version:

  Rubber valve: 4 Snap-in in 315MHz freq.

  Rubber valve: 4 Snap-in in 433MHz freq.

Icons

1. – 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.

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.

Battery Charging

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

How to charge battery:

To charge battery by USB cable via PC connection

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

To charge battery by USB cable adapter

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

For optimum performance, always keep your tool sufficiently charged. It is recommended that you charge the tool for at least 2 hours before the first use.

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.

Power up by DLC

The tool can also be powered by the vehicle via OBD II cable connection to the vehicle Data Link Connector (DLC). Just follow the steps below to turn on the TPMS tool:

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

TIPS

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.

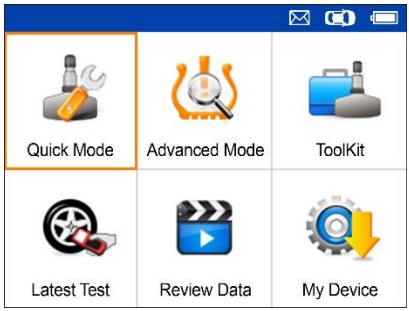


Figure 2-2 ***Sample Main Menu Screen***

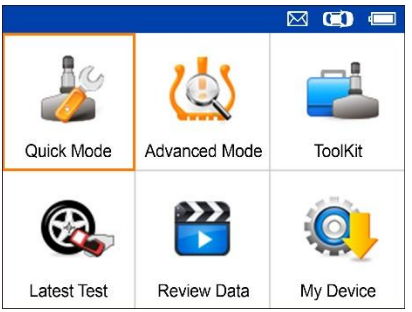
NOTE

OBD II cable connection does not support battery charging.

3 TPMS Quick Mode

Perform basic TPMS functions through the Quick service mode.

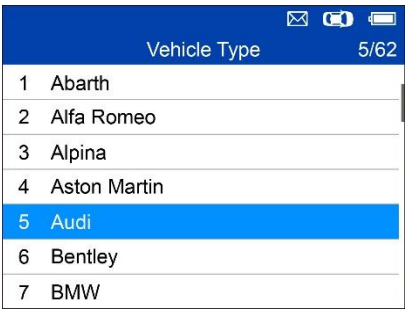
Scan Sensor, Program Sensor, Relearn Procedure and Sensor Information.



Y
= Confirm

Select test vehicle to start a TPMS service session.

Vehicle Identification



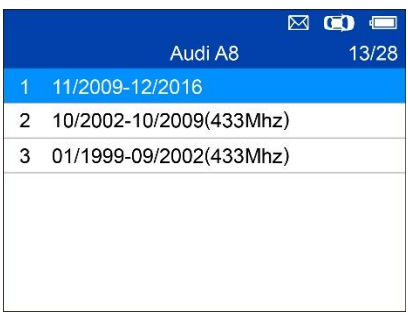
Y
= Confirm

Select by Model

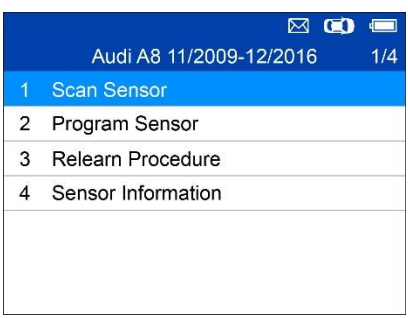
Y
= Confirm

Select by Year

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



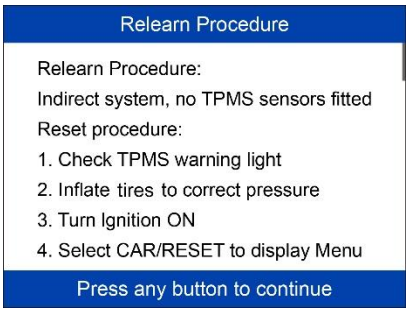
Y
= Confirm



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

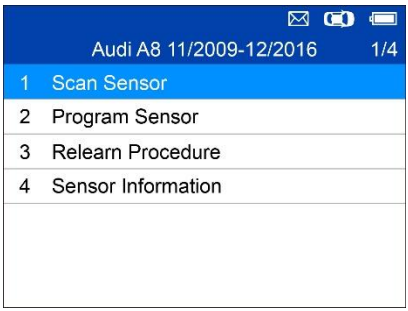
2. For vehicles using **indirect TPMS**:

Y
= Confirm



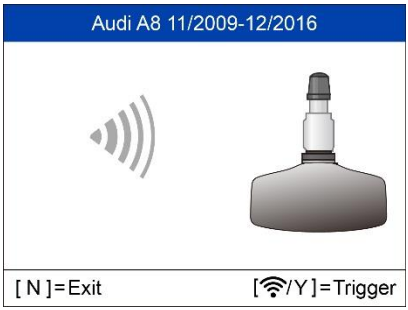
Follow the instructions displayed to perform **Relearn** for indirect TPMS.

Scan Sensor

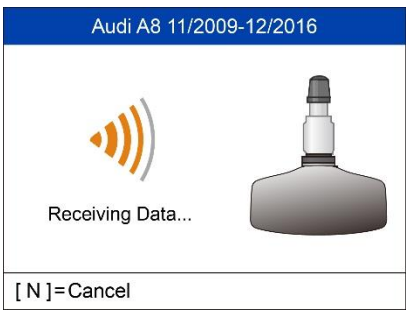


Hold the tool close to the sensor or close to the tire sidewall right above the sensor.

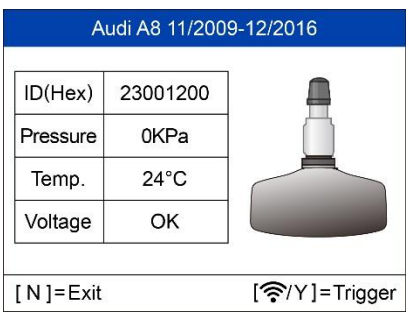
1. For first time use:



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

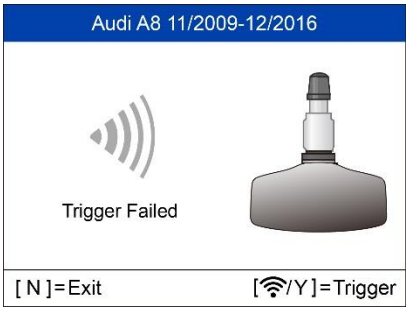


The device is receiving data from the sensor.



Trigger Successful.

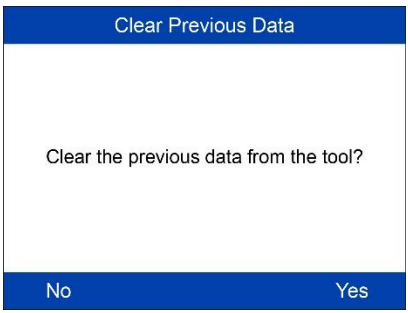
The ID, pressure, temperature and voltage of the sensor display on screen.



Failed.

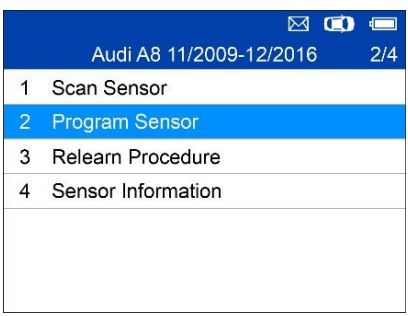
Press **Y** or **Trigger** to try again.

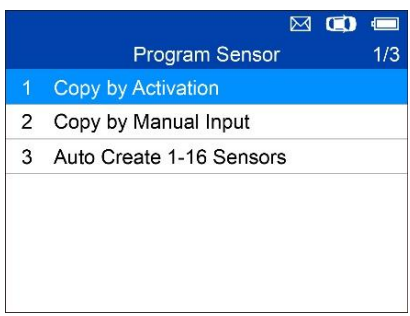
2. For non-first time use:



If a previous session has been saved, a message displays asking if the data from the saved session should be used or if a new session should be initiated.

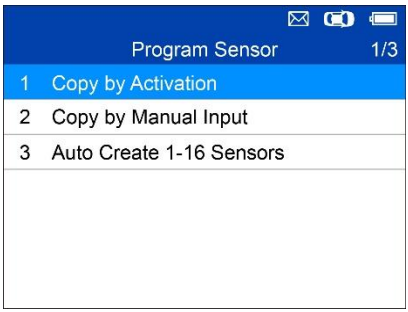
Program Sensor





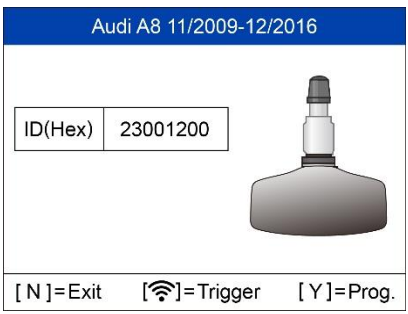
Copy by Activation

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. Place the tool near the sensor to be copied. If the sensor is still attached to the wheel, hold the close to the tire sidewall right above the sensor.

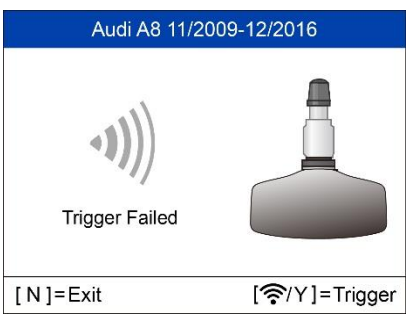
Y = Confirm



Trigger Succeessful.

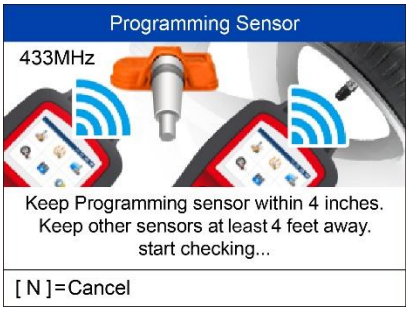
Original sensor ID displays on the screen.

Press **Y** to program the original sensor ID into MX-Sensor.



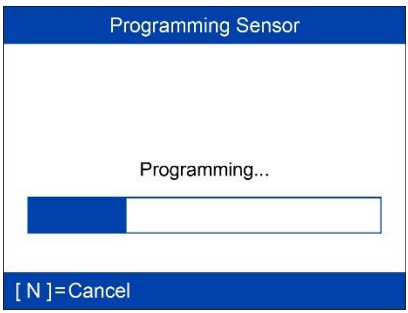
Trigger failed.

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



Place a new MX-Sensor in the sensor slot or hold the top of the tool close to the sensor to program.

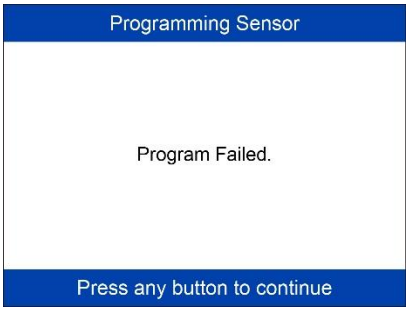
Sensor Programming



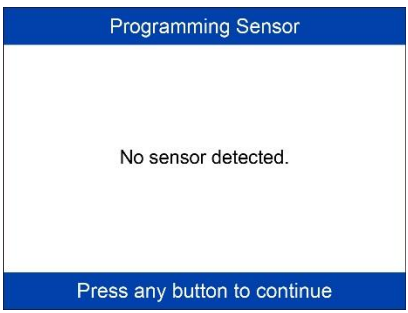
The programming function automatically begins.

Programming Sensor	
ID	23001200
PSN	S1307L1168001013
Pressure	0.0 KPa
Temperature	21.0 (℃)
Voltage	OK
Frequency	433MHz
Press any key to continue	

Once programmed, sensor and tire data will display.

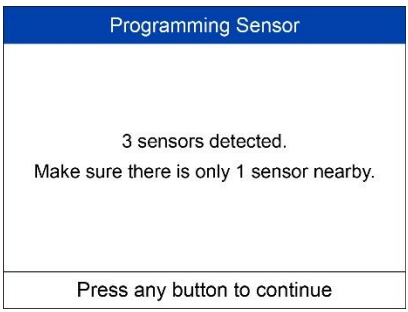


A failure message will display if the sensor fails to program. Press any button to continue. Ensure you are using an MX-Sensor are that you are using the correct frequency. Try to program sensor again.



No sensor detected.

Ensure the unit software is up to date.

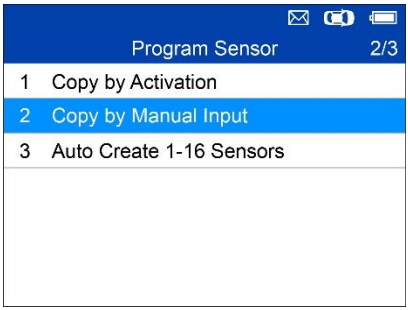


Multiple sensor detected.

Ensure that only one sensor is close to the tool.

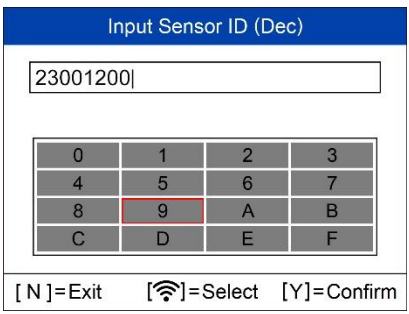
Copy by Manual Input

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

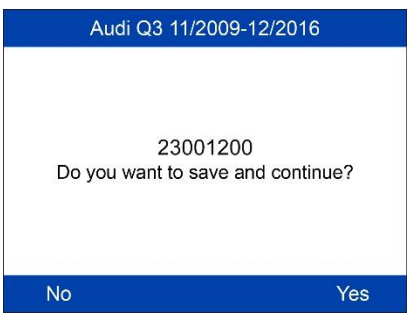


Y

= Confirm



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



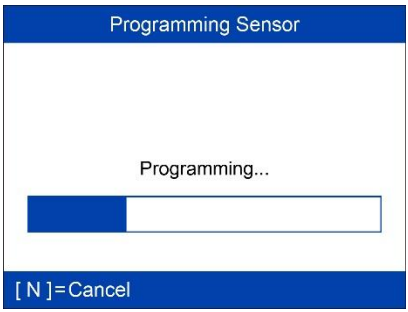
N

= Exit

Y

= Confirm and Program

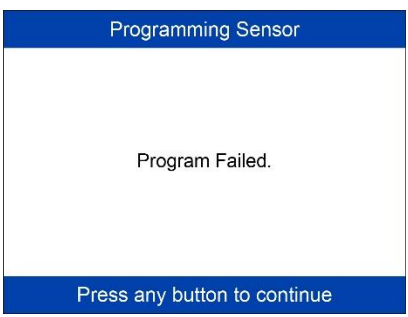
Sensor Programming



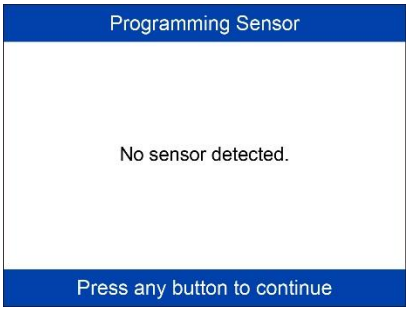
The programming function automatically begins.

Programming Sensor	
ID	23001200
PSN	S1307L1168001013
Pressure	0.0 KPa
Temperature	21.0 (℃)
Voltage	OK
Frequency	433MHz
Press any key to continue	

Once programmed, sensor and tire data will display.

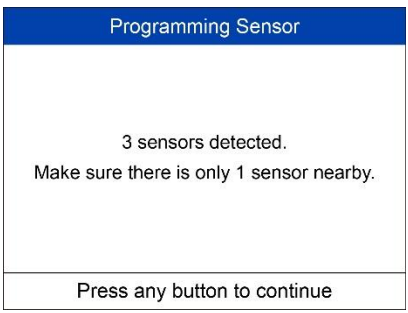


A failure message will display if the sensor fails to program. Press any button to continue. Ensure you are using an MX-Sensor are that you are using the correct frequency. Try to program sensor again.



No sensor detected.

Ensure the unit software is up to date.

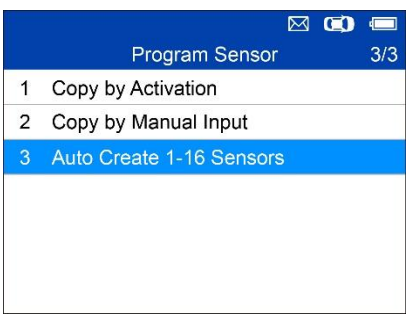


Multiple sensor detected.

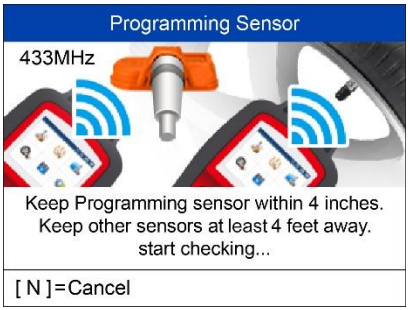
Ensure that only one sensor is close to the tool.

Auto Create 1-16 Sensors

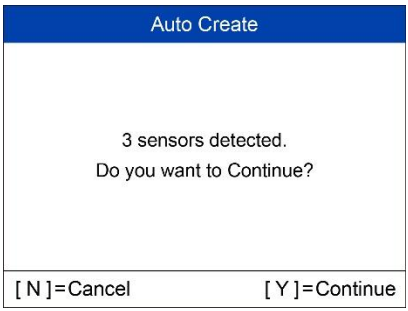
This function is used to auto create new unique ID(s) into 1-16 MX-Sensor(s).



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

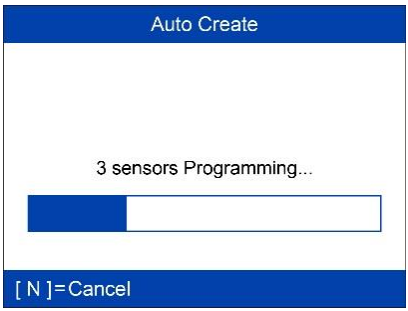


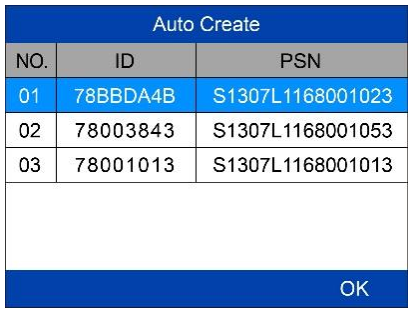
The tool will automatically detect the sensors near the tool.



N
= Cancel

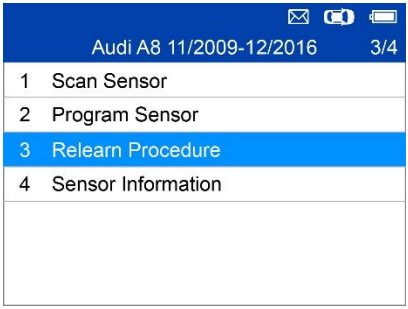
Y
= Continue





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

Relearn Procedure

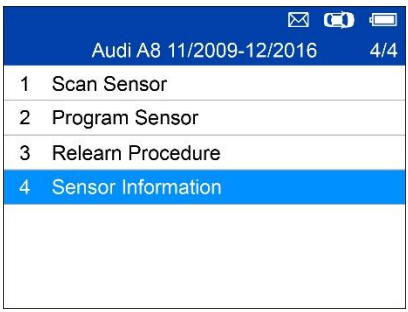


Y

= Confirm

Read the Relearn Procedure carefully to complete the operation.

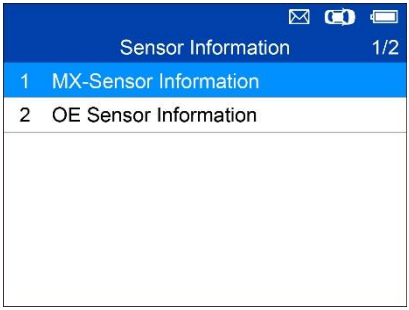
Sensor Information



Y

= Confirm

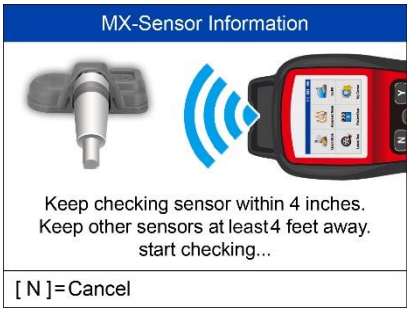
MX-Sensor Information



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

Y

= Confirm

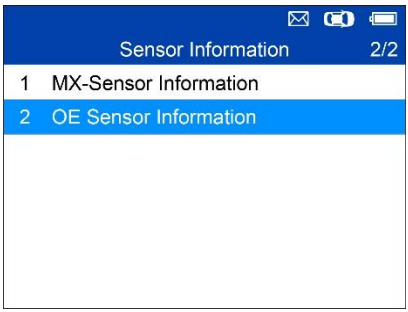


MX-Sensor Information	
Sensor ID	2020690971
Frequency	433MHz
Voltage	3.02 V
Hardware Version	26
Software Version	26
Area Code	26
PSN	NA
Press any key to continue	

NOTE

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

OE Sensor Information



Y
= Confirm

OE Sensor Information	
OE Manufactuer	Continental
OE Frequency	433MHz
Relearn Type	A/O
OE Part Number	LR031712
Number On Sensor	S122780002E/T122780002C

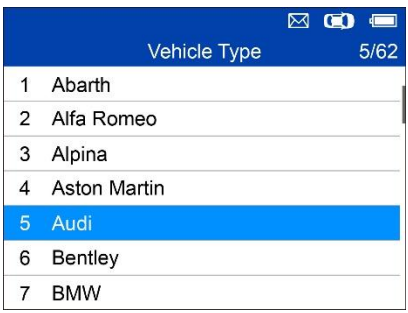
OK

The tool will automatically display the information of the OE sensor mounted on the test vehicle.

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).

Vehicle Identification



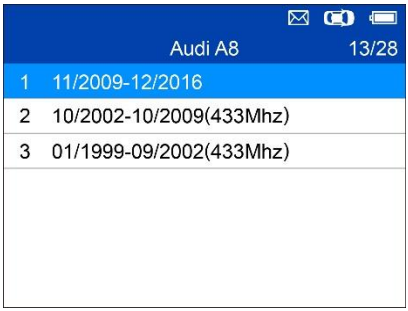
Y
= Confirm

Select by Model

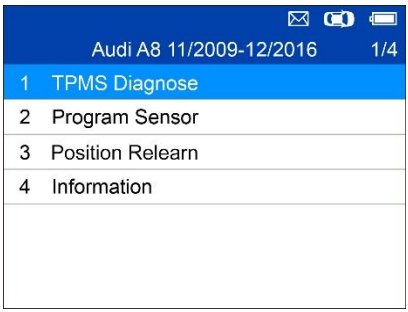
Y
= Confirm

Select by Year

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



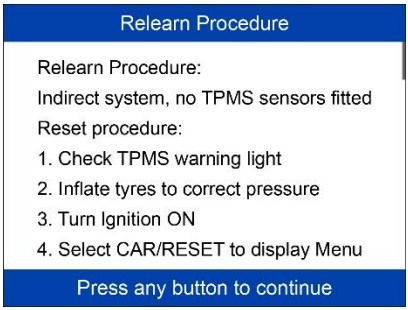
Y
= Confirm



Functions provided in **Advanced Mode**: TPMS Diagnose, Program Sensor, Position Relearn and Information.

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

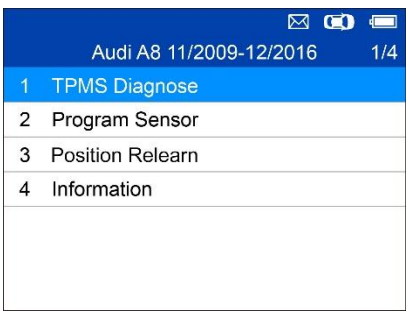
Y
= Confirm



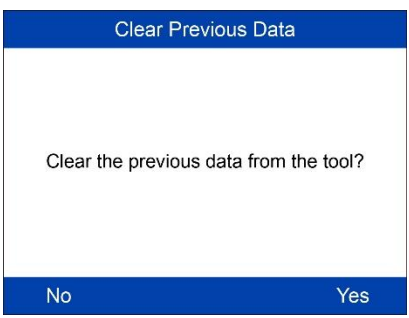
Follow the Relearn procedure displayed for vehicles with indirect TPMS.

TPMS Diagnose

This function is used to check TPMS and sensor status.



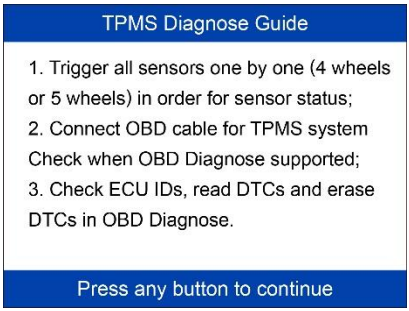
Y
= Confirm



If there is previous data saved on the device, a message will display.

Y
= Clear

N
= Use



Follow displayed instructions to diagnose TPMS.

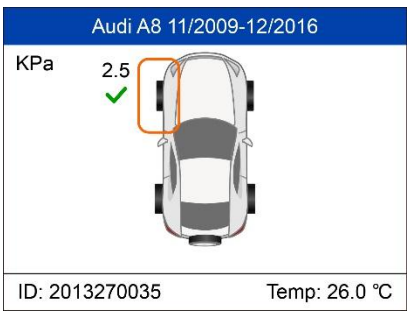
Trigger/Activate Sensors

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

Press **Trigger** to activate the sensor.

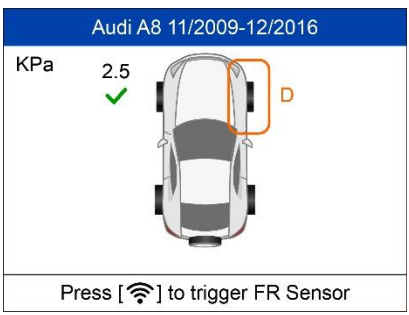
The tool is receiving data from the sensor.

Sensor activation failed.

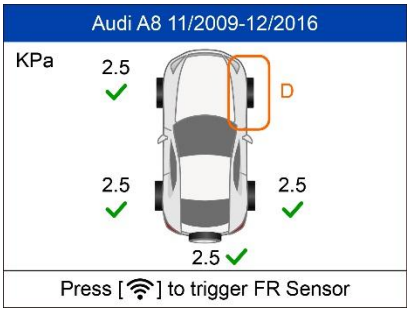


Sensor activation successful.

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



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

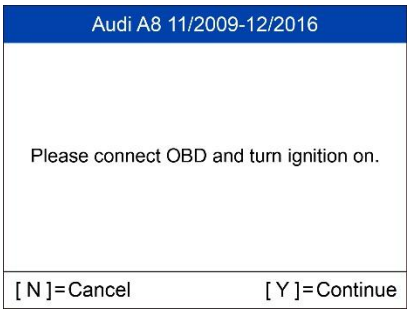


All sensors have been triggered. Display advances to Sensor Status screen even if not all sensors have been successful activated.

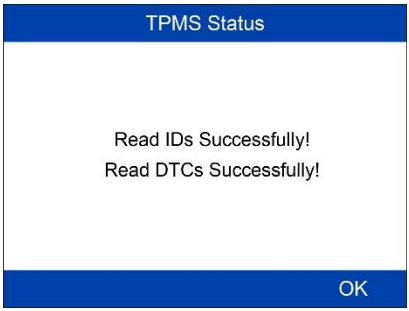
Press **Y** to view the detail information of the activated sensors.

Sensor Status				
Pos.	ID(Dec)	P.(Kpa)	T.(℃)	Bat.
FL	2013270035	2.5	26	OK
FR	Untested			
RR	2013270045	2.5	26	OK
RL	2013270055	2.5	26	OK
SP	2013270065	2.5	26	OK
Press any key to continue				

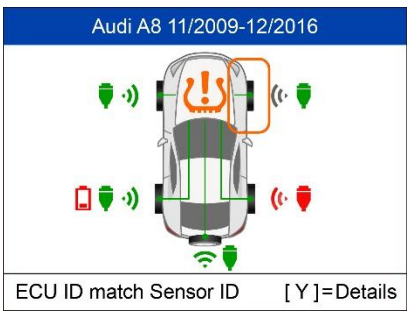
The Sensor Status screen displays position, sensor ID, tire pressure, tire temperature and battery level of the activated sensors.



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



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



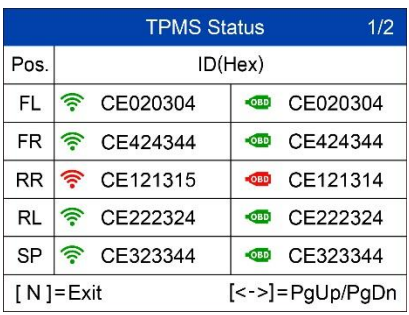
Green signal and OBDII icons: the ECU ID matches Sensor ID.

Red signal and OBDII icons: the ECU ID does not match Sensor ID.

Red battery icon: low sensor battery

Amber TPMS icon: DTC/s present in the ECU.

Press **Y** to view sensors data.



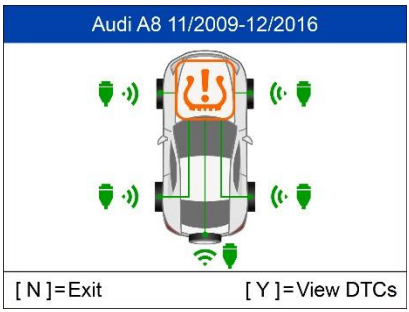
Positions, activated sensor IDs and ECU-registered IDs display on the screen.

Use ◀ and ▶ to view more information.

TPMS Status			2/2
Pos.	Pressure(Kpa)	Temp.(℃)	Bat.
FL	2	26	OK
FR	2	26	OK
RR	2	26	OK
RL	2	26	Low
SP	2	26	OK
[N]=Exit		[<->]=PgUp/PgDn	

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

Press **N** to exit.

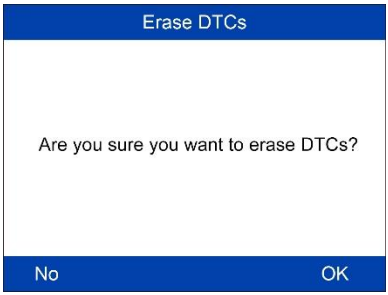


Use Up and Down Arrow button to select the TPMS icon in center of graphed vehicle and press **Y** to view the DTCs.

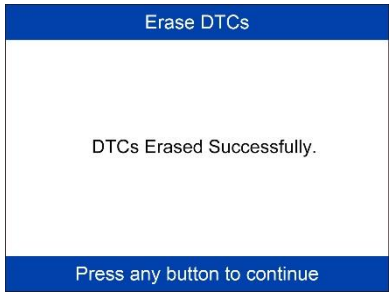
N
= Back

= Erase DTC

Y
= Save

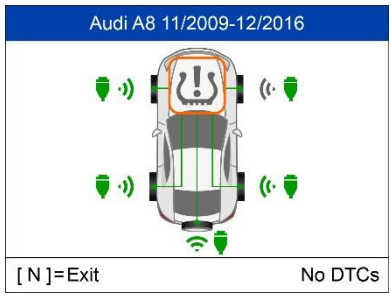


Press **OK** to continue.



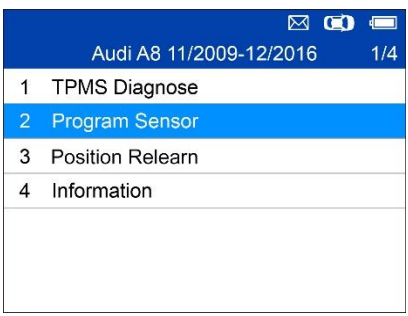
Erase DTCs Success.

The tool will automatically re-check the ECU to ensure all DTCs have been deleted.



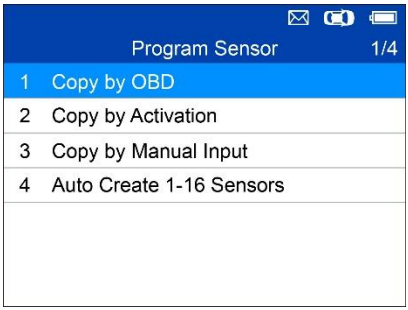
If no DTC are present in the ECU, the middle TPMS icon displays gray and a “No DTCs” message displays at the right bottom of the screen.

Program Sensor



Y

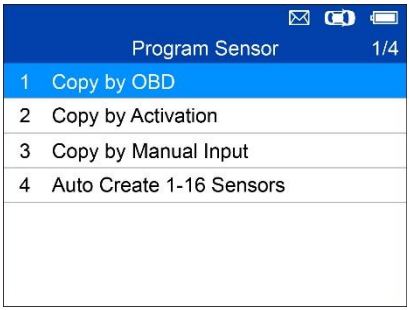
= Confirm



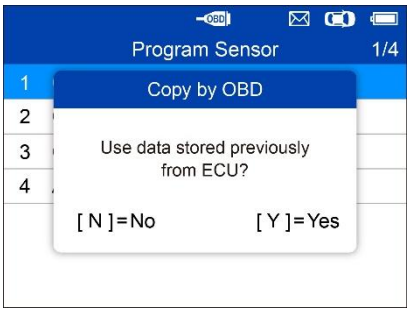
There are four ways to program MX-Sensors: Copy by OBD, Copy by Activation, Copy by Manual Input and Auto Create 1-16 Sensors.

Copy by OBD

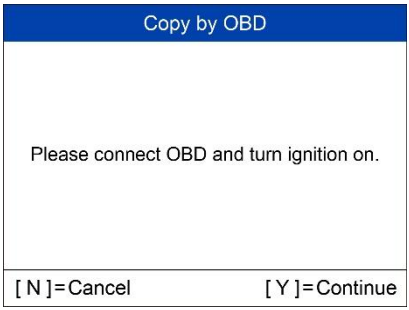
Copy the sensor ID from ECU into a MX-Sensor.



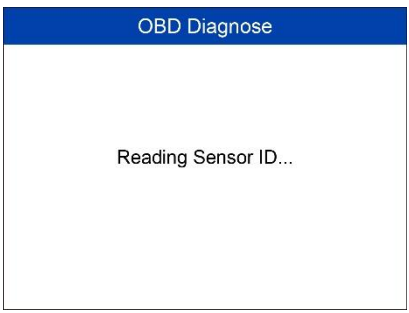
Y
= Confirm



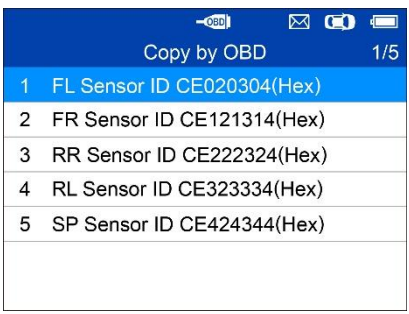
Press **Y** to use the previously stored data, or press **N** to use new data.



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



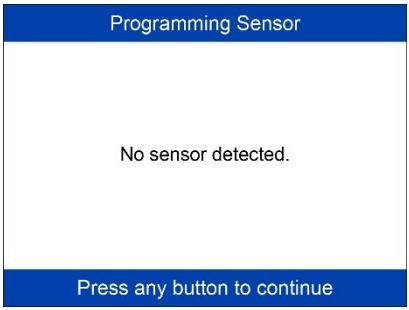
The tool will automatically read data from the ECU.



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

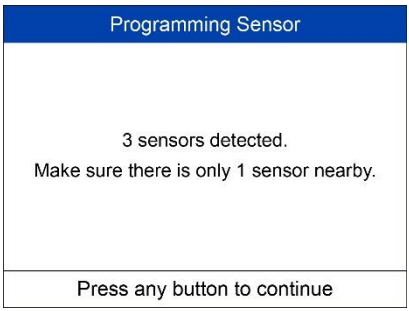
Place one MX-Sensor near the top of the tool.

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



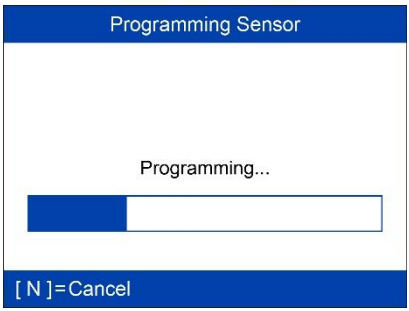
No sensor detected.

Press any button to continue.



Multiple sensors detected.

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



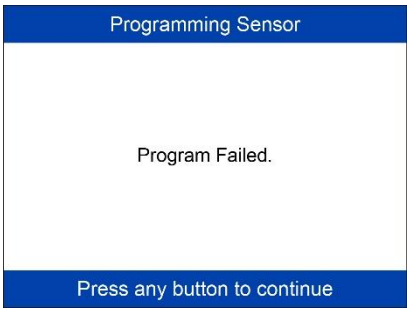
One sensor is detected.

The programming function automatically proceeds.

Programming Sensor	
ID	23001200
PSN	S1307L1168001013
Pressure	0.0 KPa
Temperature	21.0 (℃)
Voltage	OK
Frequency	433MHz
Press any key to continue	

Programming successful.

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



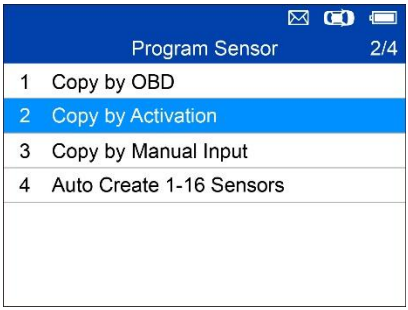
Programming Failed.

Press any button to continue.

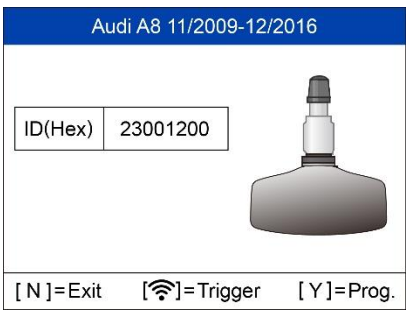
By using **Copy by OBD**, the sensor ID that is retrieved from TPMS ECU is programmed to the new MX-Sensor. There is no need to perform the **Relearn** function to write the ID into the ECU when the new programmed sensor has been put in the same position. The **Copy by OBD** programming method, if available,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

Copy by Activation

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



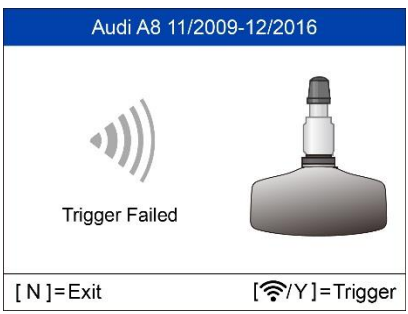
Select Copy by Activation from programming list. Activate or Trigger sensor to be copied.



Trigger successful.

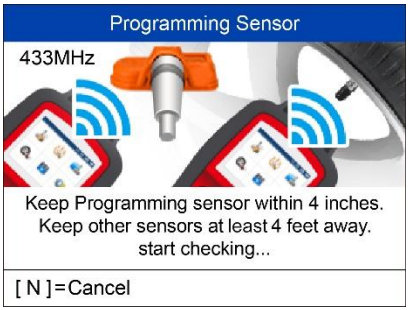
Original sensor ID displays on screen.

Press **Y** to program the original sensor ID to MX-Sensor.

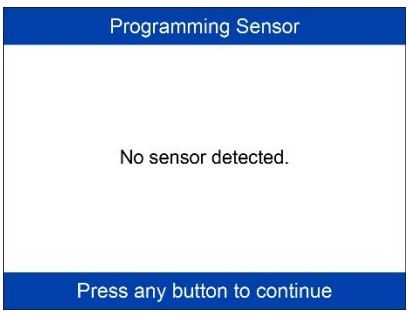


Trigger failed.

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

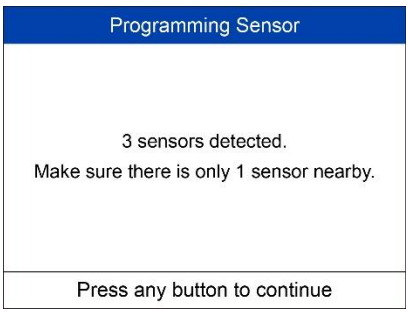


Place a new MX-Sensor near the top of the tool to program.



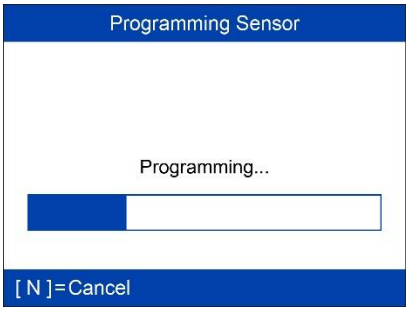
No sensor detected.

Press any button to continue.



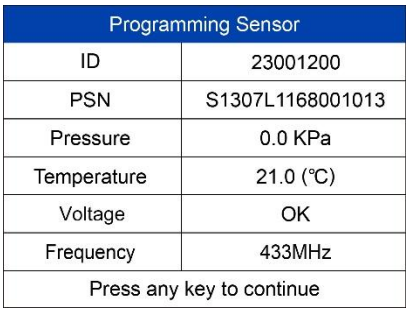
Multiple sensor detected.

Place **one** sensor close to top of tool, and press any button to continue.



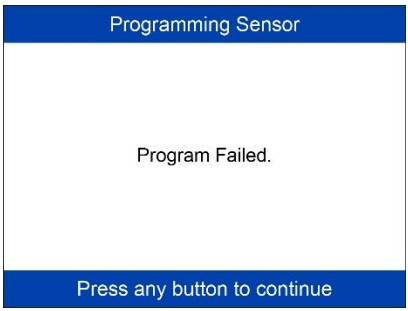
One sensor is detected.

The programming function automatically proceeds.



Programming succeeded.

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



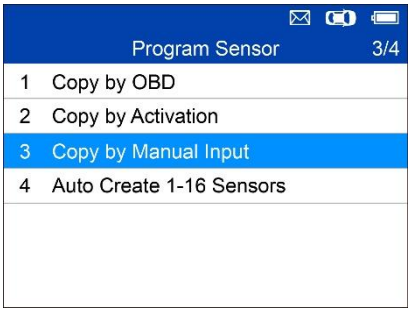
Programming Failed.

Press any button to continue.

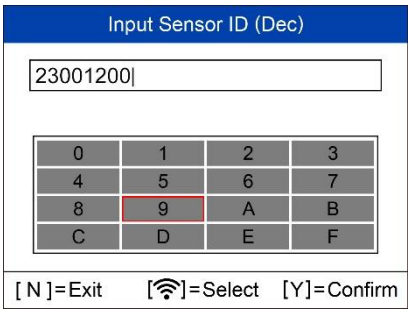
By using **Copy by Activation**, the sensor ID that is retrieved from activated sensor is programmed to the new MX-Sensor. Because the ID of the original sensor and the new MX-Sensor are the same and the ID is already registered to the vehicle ECU, there is no need to perform the **Relearn** function when the new programmed sensor has been attached to the same wheel.

Copy by Manual Input

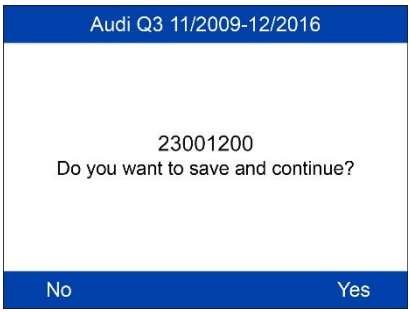
This function is used to manually input the original sensor ID and program it to a new MX-Sensor.



Y
= Confirm

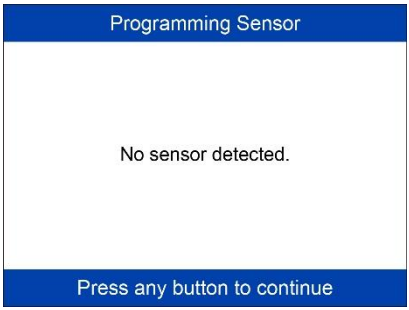


- DEC – ID is coded in decimal.
- HEX – ID is coded in hexadecimal (letters and numbers).
- AUTO – tool will automatically detect the length of the ID.



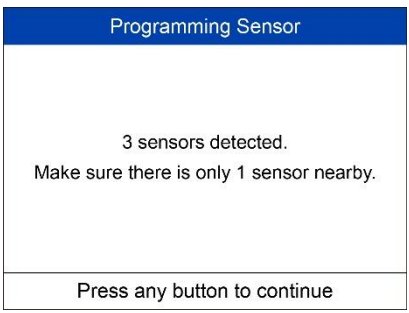
N
= Exit

Y
= Confirm and Program



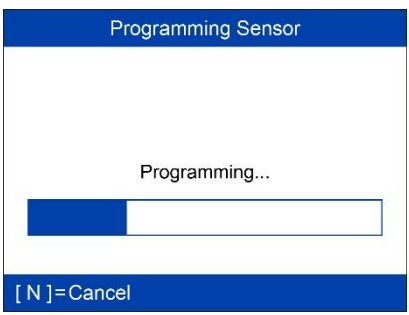
No sensor detected.

Press any button to continue.



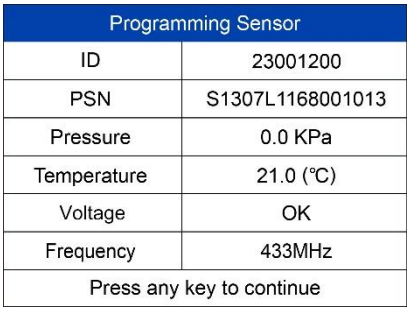
Multiple sensors detected.

Place one sensor close to top of tool, and press any button to continue.



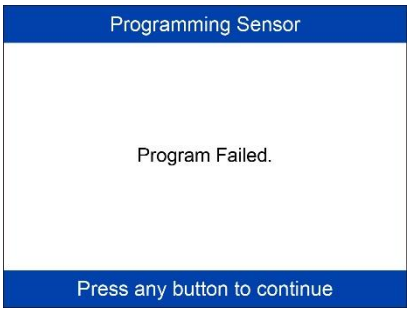
One sensor is detected.

The programming function automatically proceeds.



Programming successful.

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



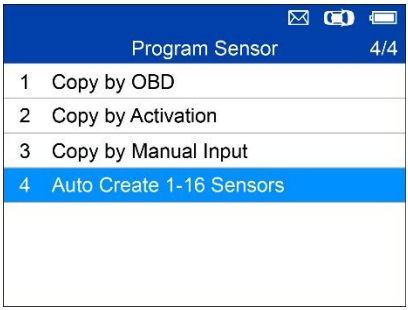
Programming Failed.

Press any button to continue.

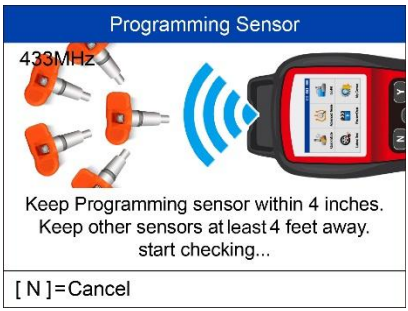
The **Copy by Input** programming method uses the ID of the original sensor that is already stored within the TPMS ECU and therefore does not require the sensor be relearned if the new programmed sensor has been put in the same wheel location.

Auto Create 1-16 Sensors

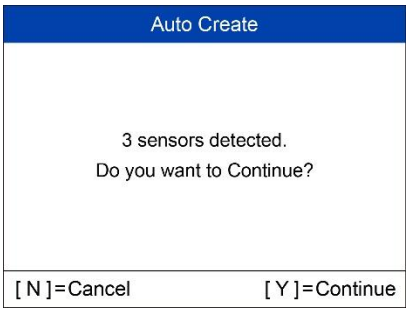
This function is used to auto create unique ID(s) to 1-16 MX-Sensor(s). A random ID will be created for the MX-Sensor. This new ID differs from the ID stored in the TPMS ECU, therefore the sensor will have to be **Relearned** to the TPMS ECU.



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

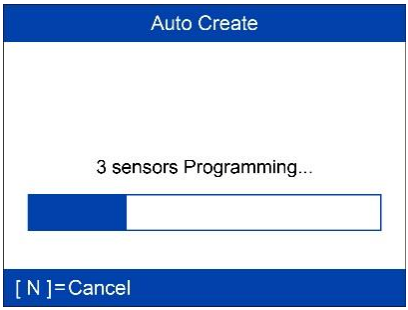


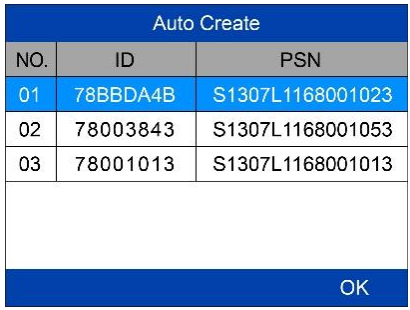
The tool will automatically detect the sensors near the tool.



N
= Cancel

Y
= Continue





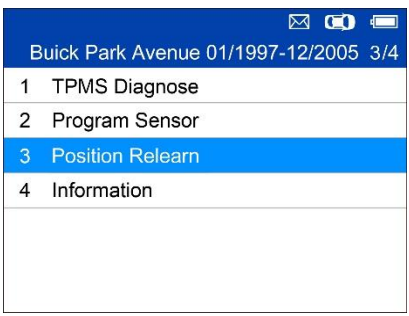
Once the sensors are successfully programmed, the sensor IDs and the PSNs will display on the tool.

Position Relearn

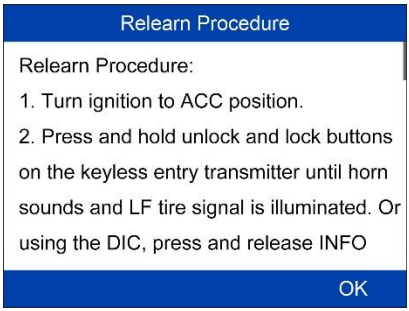
Generally speaking, there are three ways for position relearn: **Stationary Relearn**, **Automatic Relearn** and **OBD Relearn**.

Stationary Relearn

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

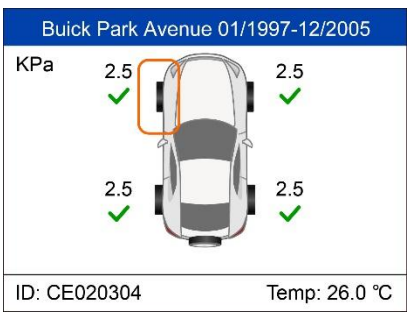


= Confirm



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

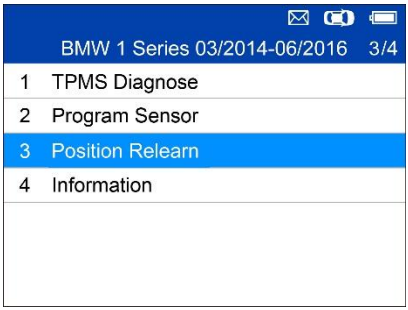
Follow the onscreen instructions to activate all the sensors mounted on the vehicle.
Note: all the sensors should be successfully activated without any duplicated IDs.



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

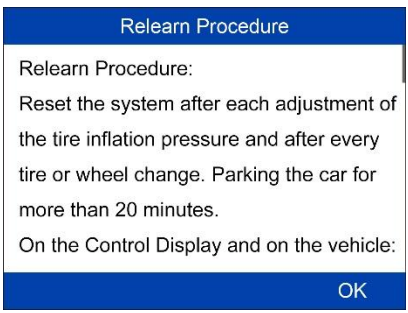
Automatic Relearn

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

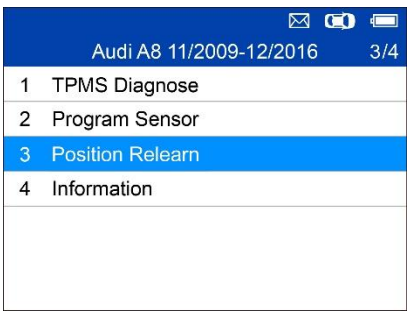


Follow the Relearn Procedure to perform Automatic Relearn.

OBD Relearn

The OBD Relearn function allows the TS508 to directly write the TPMS sensor IDs to the TPMS module.

To perform Relearn, activate all four sensors.



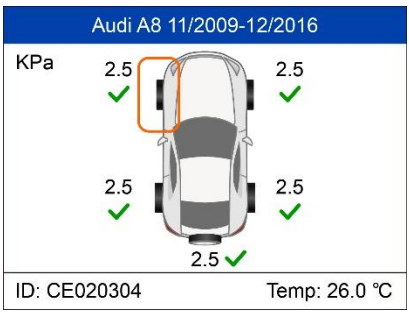
Y

= Confirm

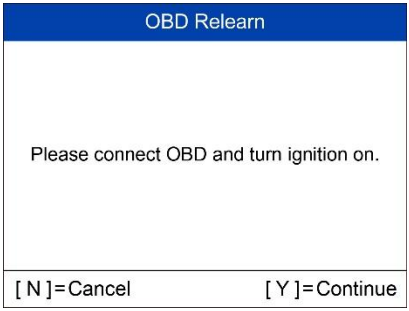
Read the Relearn Procedure carefully and press **Y** to continue.

Follow the onscreen instructions to activate all the sensors mounted on the vehicle.

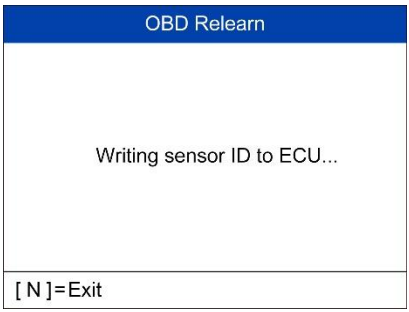
Note: all the sensors should be successfully activated without any duplicated IDs.



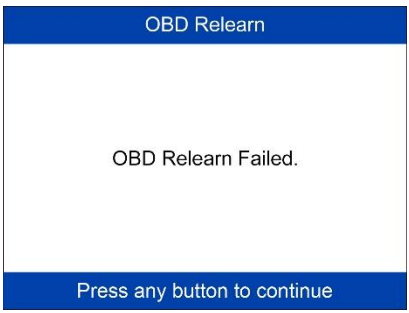
Once all sensors are successfully activated, the tool will prompt users to perform OBD Relearn, if supported by the vehicle.



Follow the onscreen instructions to connect the tool and vehicle via OBD cable and turn the ignition on. Press **Y** to continue.

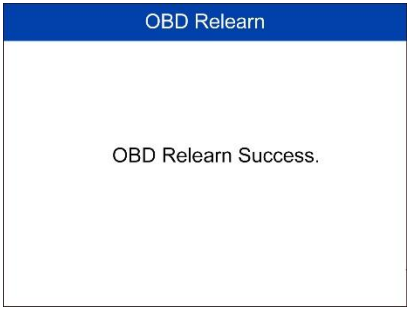


The tool is writing sensor ID to ECU, please wait.



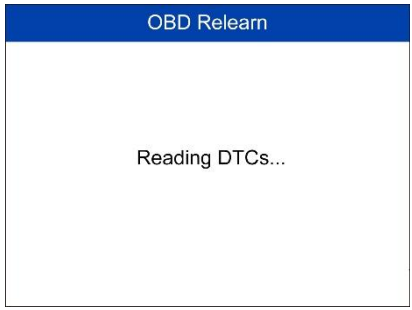
OBD Relearn Failed.

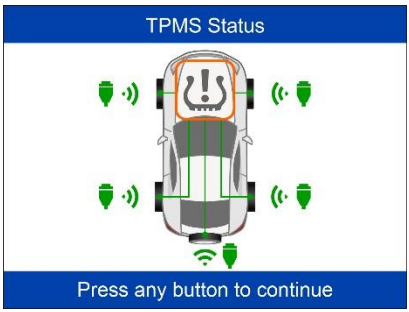
Press any button to continue.



OBD Relearn Successful.

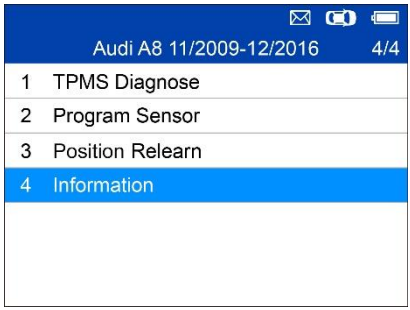
The sensor IDs have been written to the ECU and the tool will automatically erase the DTCs present in the ECU.

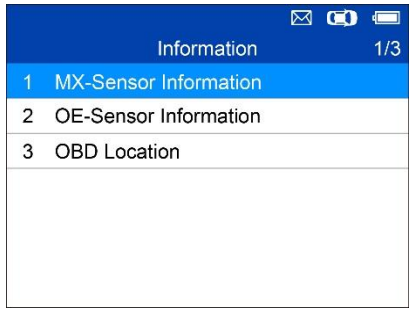




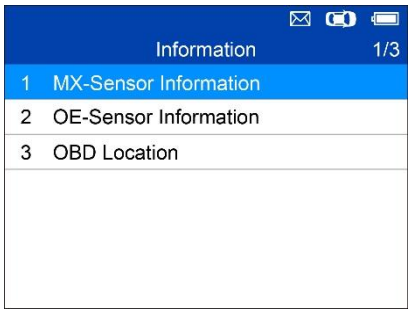
When all DTCs have been deleted, the TPMS icon displays gray. Press any button to continue.

Information

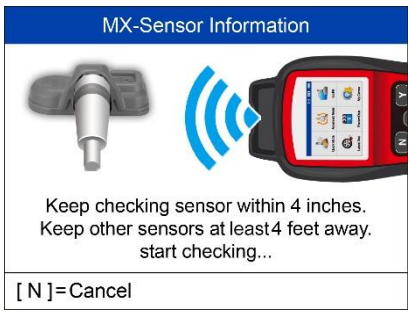


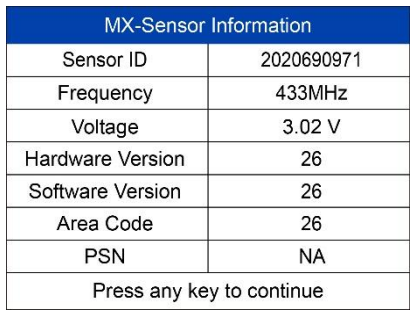


MX-Sensor Information

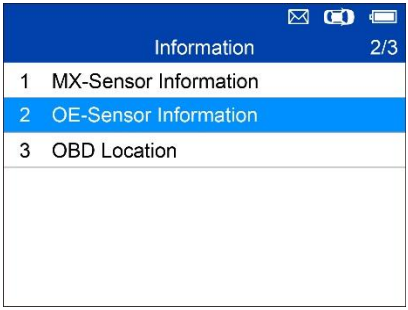


Place a MX-Sensor near the top of the tool and press **Y** to continue.





OE Sensor Information



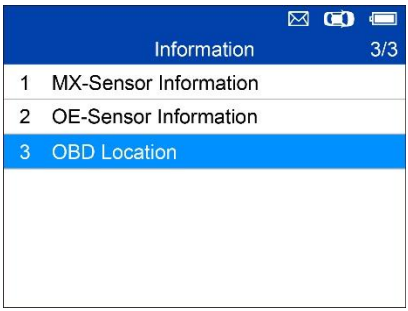
Y
= Confirm

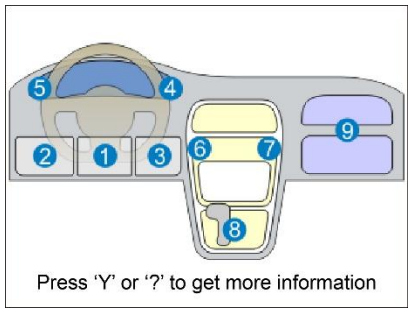
OE Sensor Information	
OE Manufactuer	Continental
OE Frequency	433MHz
Relearn Type	A/O
OE Part Number	LR031712
Number On Sensor	S122780002E/T122780002C

OK

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

OBD Location





5 Miscellaneous

ToolKit

Test strength of remoteless key fob signal.

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

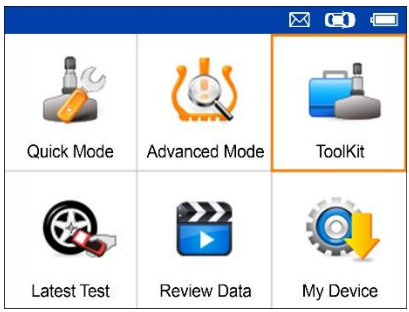


Figure 5-1 ***Sample ToolKit Selection Screen***

1. The screen displays as below, select **RKE & RF Monitor** and press **Y** to confirm.

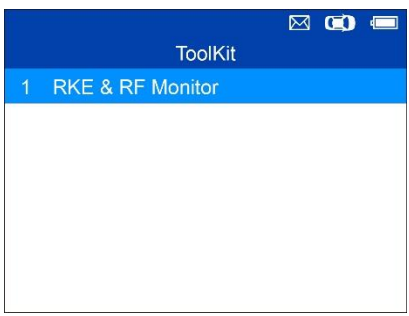


Figure 5-2 ***Sample RKE & RF Monitor Menu***

2. Hold the key fob close to the tool and press the function buttons on 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.

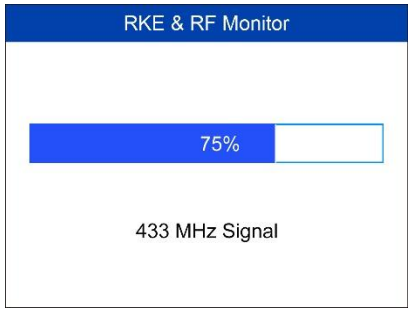


Figure 5-3 *Sample Receive Signal Screen*

- 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.

3. Press the **N** button to return to previous menu.

Latest Test

The **Latest Test** function enables users to review the last tested sensor data and activate the sensor by using the wave signal of the latest trigger event.

Review Data

The **Review Data** function enables users to view and print saved data of the latest TPMS diagnostic tests of the service tool.

My Device

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

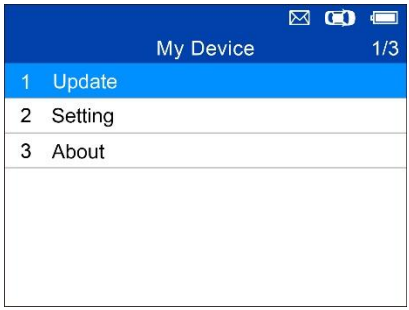


Figure 5-4 *Sample My Device Menu*

Update

This function allows you to update the scan tool software through a Windows-based computer.

Register the Tool

User can update the scan tool **ONLY** after registering it on the website: www.autel.com, or www.maxitpms.com.

NOTE
Prior to registration, please confirm your network is working properly.

1. Visit the website http://pro.autel.com.
2. If you already have an Autel account, Sign In with your account ID and password.
3. If you are a new member to Autel, click on the **Create Autel ID** button on the left side to create an ID.
4. Enter the required information in the input fields, and click the **Get Verification Code** button to get the verification code for email validation.
5. The online system will automatically send a verification code to the registered email address. Input the code in the Verification code field and complete other required fields. Read through Autel's Terms and Conditions and click on Agree, and then click **Create Autel ID** at the bottom. A product registration screen will display.
6. The device's serial number and password is located in the About section

of the Settings application on the tool.

7. Select your product model, enter the product serial number and password on the Product Registration screen, and click **Submit** to complete the registration procedure.

NOTE

Please use the **About** function to find out the Product Serial No. and Registered Password. For details, please refer to the Section *About*.

Update Procedure

Autel releases software updates regularly.

Connect the tool to a Windows computer using the supplied USB cable, power on the tool and select **Update** on the **Main Menu** screen to enter update mode.

Follow the update procedure to finish updating.

1. Select **Update** on the My Device Menu to enter Update Mode.
2. Run **Autel Update** in the **PC Suite** program. Wait for the Log In window to display.

Figure 5-5 *Sample Log In Window*

3. Enter your Autel ID and password and wait for the **Update** window to display. If you forget your password, click the **[Forget Password?]** to retrieve password.
4. In the **Update** window, select the vehicles to install. Be sure to download system or firmware updates and updates of needed vehicles.

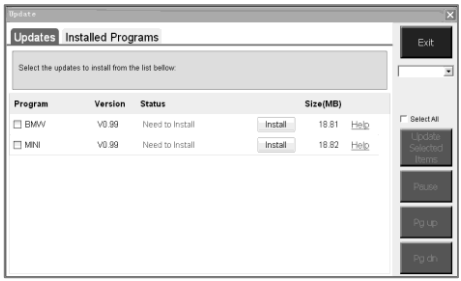


Figure 5-6 *Sample Update Window*

There are two ways to update the vehicle software:

Batch Update

1. Click the **Update Selected Items** button on the right side of screen. Or
2. Check the **Select All** box on the right side of screen and all updatable items will be selected. Click the **Update Selected Items** button on the right side of screen.
3. Monitor the updating process by watching the upper left progress bar **[Downloads]** and upper right progress bar **[Installs]**. Download and Install progress also displays in the Status column of updated items.
4. Click **Pause** button on the right side of screen to suspend all downloads, status displays as STOPPED.
5. To resume update, select suspended items and click the **Update Selected Items** button. The progress will resume from the break point.
6. When the download is complete, programs will be installed automatically.

Single Update

1. Choose desired software update and Click **Install**.
2. Monitor update by viewing upper left progress bar **[Downloads]** and upper right progress bar **[Installs]**. Down and Install progress also displays in the Status column of updated items.
3. Click the **Pause** button to suspend download. And the state of this item would change to STOPPED.
4. To resume update, click **Install** button again. The download will resume from the break point.

5. When the download is complete, the downloaded program will install. The new version will replace the existing software.
6. Once the update is complete, disconnect the tool from the computer. It is now updated and ready to go.

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 Programs tag entry and the page will display the list of installed programs.
2. Select the program(s) that you would delete.
   - ✧ **Batch delete:** Check box of program to delete. Click the Delete button on the right side of screen.
   - ✧ **Single delete:** Click the Uninstall button of the program to delete.
3. A message to confirm software deletion will display.

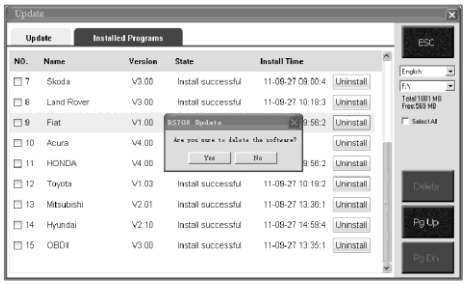


Figure 5-7 *Sample Confirmation Window*

- ✧ 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 UPDATE page, if you wish to reinstall programs.

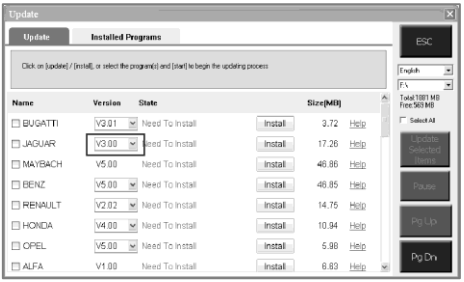


Figure 5-8 ***Sample Software Versions Window***

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 or Decimal.
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 power off.
9. **Date and Time**: Sets date and time on tool.

TIPS

Tool is set to default settings until changes are made.

To Enter the Setting Menu

From the **Main Menu**: Select **Setting** and press the **Y** button. The **Setting** menu displays as below.

Figure 5-9 *Sample System Setup Screen*

Market

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

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

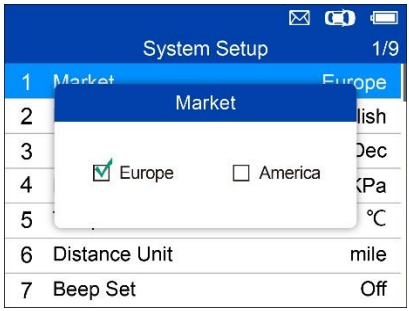


Figure 5-10 *Sample Market Selection Screen*

Language

TIPS
English is the default language.

1. From **System Setup** screen, use the **UP/DOWN** scroll button to select

Language, and press the **Y** button.

2. Use the **UP/DOWN** scroll button to select the desired language and press the **Y** button to save your selection and return to previous menu.

Figure 5-11 ***Sample Language Selection Screen***

ID Format

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

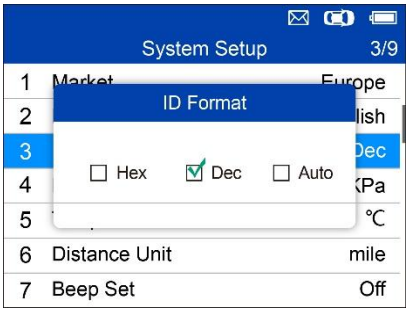


Figure 5-12 ***Sample ID Format Screen***

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

Pressure Unit

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

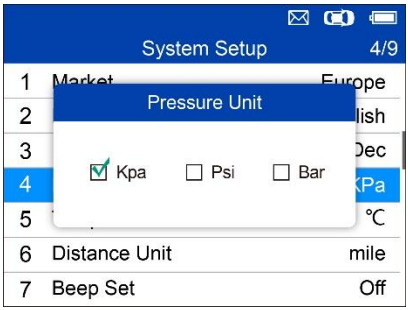


Figure 5-13 ***Sample Pressure Unit Screen***

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

Temperature Unit

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

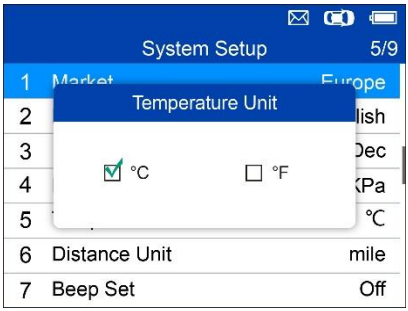


Figure 5-14 ***Sample Temperature Unit Screen***

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

Distance Unit

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

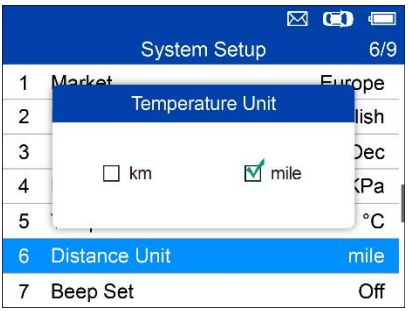


Figure 5-15 ***Sample Distance Unit Screen***

3. Press the **Y** button to save your settings and return to 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 **System Setup** screen, use the **UP/DOWN** scroll button to select **Beep Set**, and press the **Y** button.
2. From **Beep Set** menu, use the **LEFT/RIGHT** scroll button to select **ON** or **OFF** to turn on/off the beep.

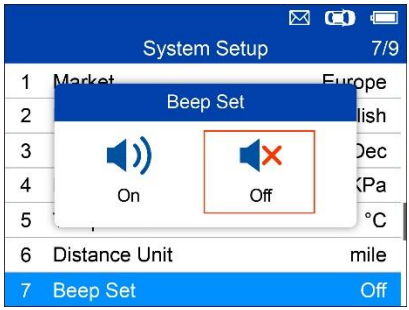


Figure 5-16 ***Sample Beep Set Screen***

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

Power-off

1. From **System Setup** screen, use the **UP/DOWN** scroll button to select **Power-off**, and press the **Y** button.
2. Press **UP/DOWN** scroll 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.

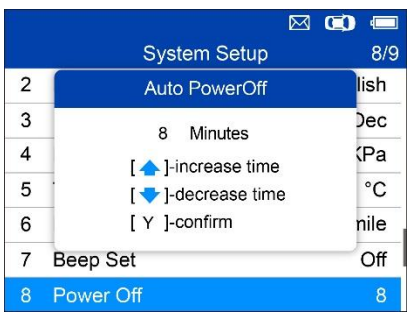


Figure 5-17 ***Sample Auto Power-off Screen***

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 scan tool stays on until turned off. When using internal battery power, the scan tool turns off automatically after a set time of inactivity.

Date and Time

This function sets time and date on tool.

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

Figure 5-18 *Sample Date and Time Screen*

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** scroll 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 5-19 ***Sample About Screen***

Print

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

- ✓ TS508 tool
- ✓ Windows computer with USB ports
- ✓ USB cable

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

1. Install the **PC Suite** program to the computer from the supplied CD.
2. Connect the tool to the computer with the supplied USB cable.
3. Run **Printer** software on computer.
4. Select **Review Data** function in **Main Screen** of the TPMS tool. In data menu screen, use the **UP/DOWN** scroll 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* on page 52.
5. The **Printer** will show as below.

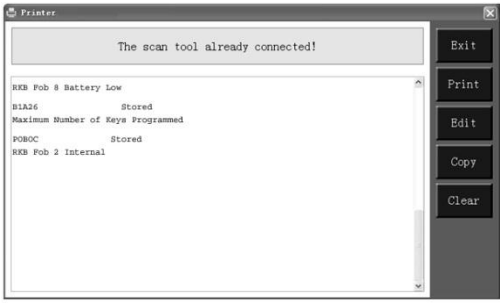


Figure 5-20 *Sample Printer Screen*

6. The selected data will display in the textbox. Select the buttons on the right to perform funtion:
   - **Print** – Print all data in the textbox to a printer connected to your computer.
   - **Edit** – Once clicked, the software will automatically open a NOTEPAD window with all recorded data displayed.
   - **Copy** – Copy all data in the textbox to the clipboard.
   - **Clear** – Delete all data in the textbox.
   - **Exit** – Quit the operation.
7. You are also allowed to edit, copy, and delete the data in the **Printer** window.

Product Troubleshooting

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

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.

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: WQ82016-TS408**

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 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

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).

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.

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.

Service and Support

If you have any questions regarding the product, please contact one of our offices in your region.

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