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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

pro.autel.com

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1-855-AUTEL-US (288-3587) (North America)
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support@autel.com

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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 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 required for servicing vehicles, as well as the skills 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. Be sure to 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

The safety messages herein cover situations Autel is aware of at the time of publication. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

⚠ DANGER

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

⚠ SAFETY WARNINGS

- Always perform automotive testing 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, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious 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, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

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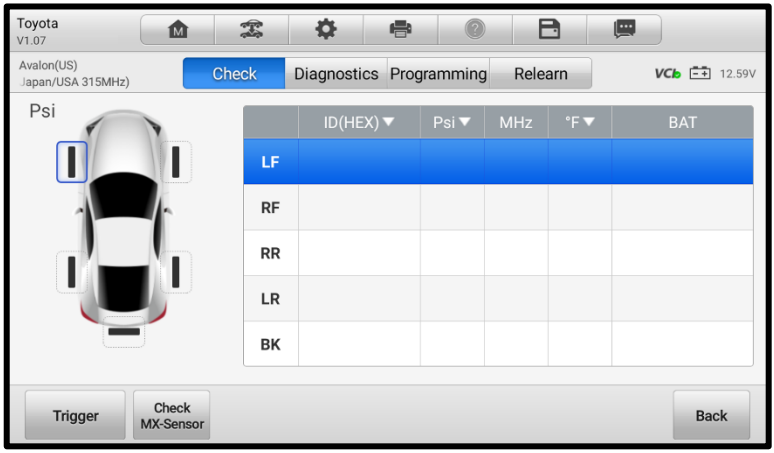
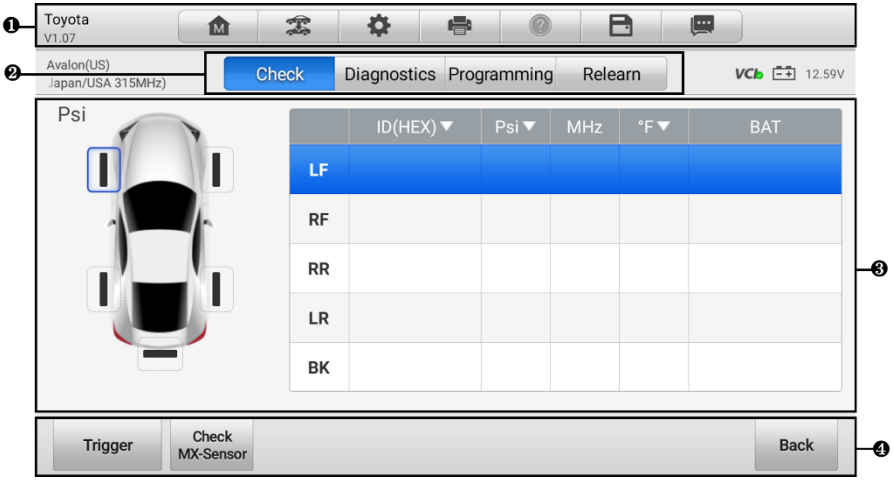


)LJXUH 73066HUYLFH 6FUHHQ

4.4 TPMS Service Screen Layout

The TPMS Service screen typically includes four sections:



)LJXUH 7306 6HUYLFH 6FUHHQ

1. Top Toolbar Buttons
2. Navigation Tab
3. Main Section
4. Function Buttons

4.4.1 Top Toolbar Buttons

The top toolbar contains a number of buttons. See *Table 5-2 Diagnostics Toolbar Buttons* on page 61 for details.

4.4.2 Navigation Tab

The navigation tab at the top of the main section contains the following items:

1. Check Tab — displays the triggered sensor data.
2. Diagnostics Tab — checks the status of the TPMS system. This function is available for certain vehicles.
3. Programming Tab — displays the triggered/retrieved sensor IDs and new programmed sensor IDs.
4. Relearn Tab — displays the OEM sensor manufacturer, part number, and sensor frequency, and performs the relearn procedures.

NOTE

Not all vehicles support Diagnostics function. If the selected vehicle model does not support Diagnostics, this tab will not appear on the screen.

4.4.3 Main Section

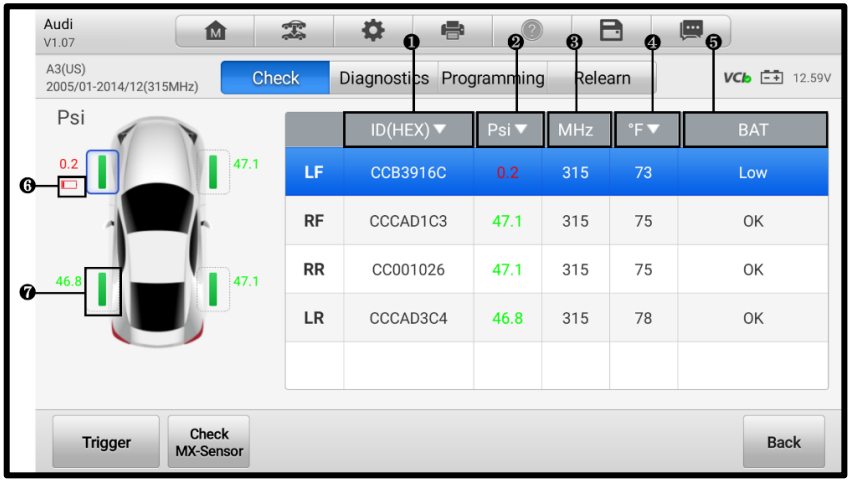
The main section of the screen varies depending on the stage of operations. It can show the TPMS sensor conditions, such as sensor ID, pressure, temperature, battery status, and the specific relearn procedures.

4.4.4 Function Buttons

The displayed function buttons at this section of the screen varies depending on the stage of operations. They can be used to trigger the TPMS sensor, create sensor IDs, program MX-Sensor, read and clear codes, and return to the previous screen or exit the function. The functions of these buttons will be introduced respectively in the following sections.

4.5 TPMS Check

The sensor check function allows the activation of TPMS sensor to view sensor data such as sensor ID, tire pressure, sensor frequency, tire temperature, sensor battery, and sensor position. It also sends the sensor data to vehicle's ECU to let the ECU learn the positions of sensors whenever wheels are rotated or sensors are replaced.



)LJXUH &KHFN 6FUHHQ

1. Sensor ID
2. Tire Pressure
3. Sensor Frequency
4. Tire Temperature
5. Sensor Battery Status
6. Low Battery Icon
7. Successfully Triggered

NOTE

1. The default check order on the tablet is LF (left front), RF (right front), RR (right rear), and LR (left rear). The wheel positions correspond with the descriptions on the right of the screen. If you select **RF** in the right table, the cursor will automatically move to vehicle's RF wheel on the left screen. You can also change the check order by manually moving the cursor to other wheels.
2. You can tap the drop-down button on the table header to choose a unit of the sensor ID, tire pressure, and tire temperature according to your preference.
3. If the battery level of a sensor is low, a red low battery icon will display beside the wheel on the screen.

➢ **To check the sensors**

1. Select the **Check** tab.
2. Tap the desired wheel position on the vehicle thumbnail. Hold the part of the tablet marked with TPMS service symbol close to the tire sidewall near the valve stem, and then tap the **Trigger** button.
3. The tablet will send low frequency signal to trigger the sensor.
4. Once the sensor is successfully triggered, the information of the sensor will be displayed on the screen.
5. Tap **Back** to exit the function.

NOTE

Once triggered, the wheel icons will display green or red indicating sensor status. Refer to *Table 4-2 Possible Results for Triggering* on page 28 for details. And the sensor position, sensor ID, tire pressure, tire temperature, sensor frequency, and sensor battery information of the triggered sensor will display in the table on the right of the screen.

7DEQH3RVVLEOH 5HVXOWV IRU 7ULJJHULQJ

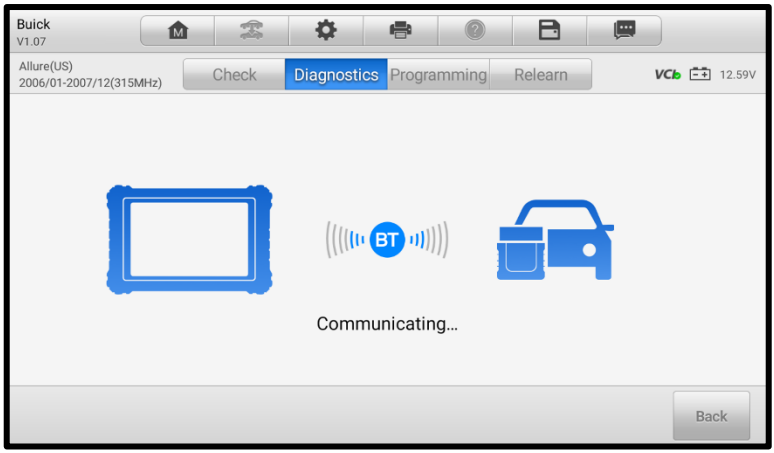
Icon	Results	Description
(Green)	Successful Sensor Read	TPMS sensor is successfully activated and decoded. The table on the right side of the screen displays sensor information.
(Green)	Successful Sensor Read & Low Battery	TPMS sensor is successfully activated and decoded, but the battery level of the sensor is low.
(Red)	Failed Sensor Read	If the search period expires and no sensor is activated or decoded, the sensor may be mounted incorrectly or cannot function. The table on the right side of the screen displays “Failed.” If a sensor with a duplicate ID has been read, the screen displays a message “Sensor ID duplicated.” In this case, repeat the test procedure.

4.6 TPMS Diagnostics

The Diagnostics function is used to check the status of the TPMS system. This function requires connection with the test vehicle. Refer to *Establishing Vehicle Communication* on page 50 for details.

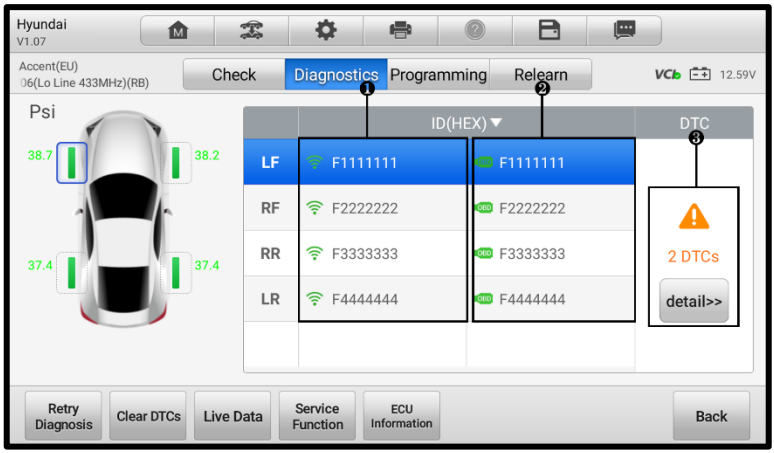
➢ **To perform TPMS diagnostics function**

1. Tap the 'L D JRQV Wtab. The tablet will automatically communicate with the vehicle.



)LJXUH 'LDJQRVWLFV &RPPXQLFDWLRQ 6FUHHQ

2. The diagnostics results will be displayed on the screen automatically.



)LJXUH 'LDJQRVWLFV 6FUHHQ

1) Sensor IDs Retrieved by Activation
2) Sensor IDs Retrieved by OBD — saved in the TPMS ECU
3) DTCs Retrieved by OBD — existed in the TPMS ECU

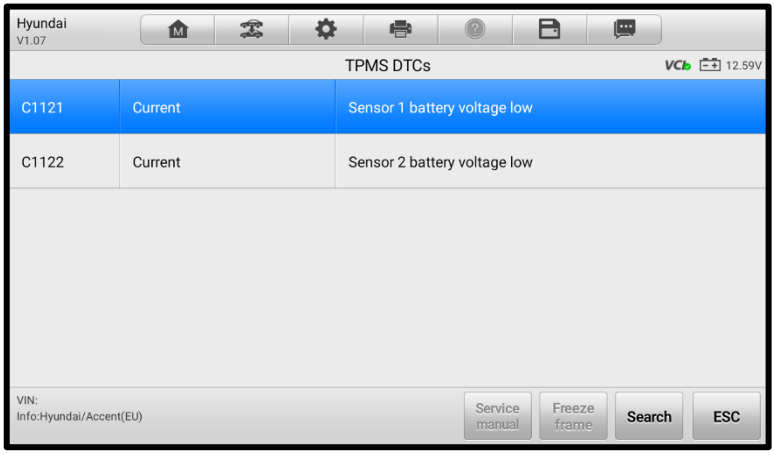
NOTE

1. If the OBD function is supported by the test vehicle, the sensor ID saved in the TPMS ECU will be retrieved and displayed on the screen with an OBD mark before it when the communication is completed.
2. If the sensor ID retrieved from sensor activation is the same as the ID saved in the ECU, the trigger mark ( ) and OBD mark ( ) beside the IDs will display green. If the IDs are different, the marks will become red (and). In this case, the vehicle ECU may not recognize the sensor installed on the vehicle.
3. If the OBD function is not supported by the test vehicle, the sensor ID saved in the TPMS ECU cannot be retrieved and only the sensor ID retrieved from sensor activation will display on the screen with a signal icon.

4.6.1 DTC Details

If diagnostic trouble codes (DTCs) are present in the TPMS ECU, a yellow hazard icon displays in the DTC column and the detail button is available.

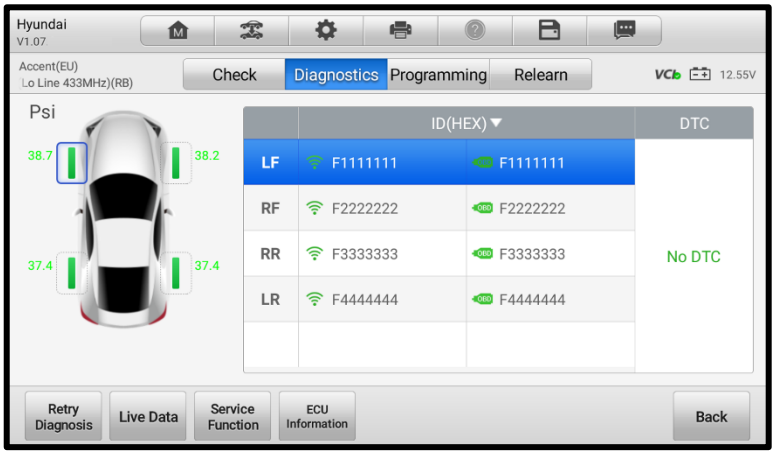
Tap **detail** in the DTC column to view the detailed information.



)LJXUH '7&V 6FUHHQ

In the screen above, the detailed fault descriptions will be displayed. Select one of the DTCs and tap **Search**, then the additional information will display.

If no DTCs are present in the TPMS ECU, a green “No DTC” message will display in the DTC column.



)LJXUH 1R '7& 6FUHHQ

4.6.2 Retry Diagnosis

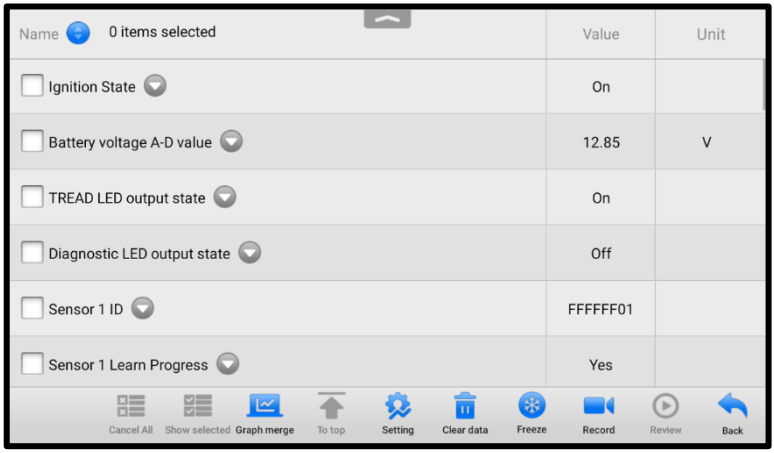
Tap **Retry Diagnosis** to establish communication with the ECU again and to retrieve sensor IDs and DTCs present in the ECU.

4.6.3 Clear DTCs

Tap the **Clear DTCs** button and the data trouble codes existed in the TPMS ECU will be cleared.

4.6.4 Live Data

Tap **Live Data** to view the data stream of the sensor information.



)LJXUH /LYH 'DWD 6FUHHQ

All the parameters displayed on the Live Data screen are default values.

Check box before the parameters you want to see, the Show Selected icon on the bottom of the screen will be available and turn blue. Tap **Show Selected** and the selected parameters will be displayed in a separate screen.

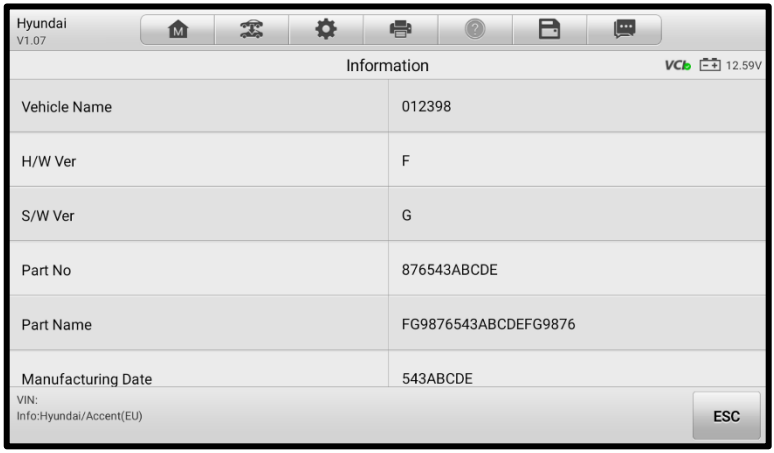
For more details, please refer to *Live Data* on page 69.

4.6.5 Service Function

Tap this button and all the service functions supported by this vehicle will be shown on the screen. You can select one of the functions among them each time and follow the on-screen instructions to complete.

4.6.6 ECU Information

By tapping this button, the information of the test vehicle will be listed out on the screen.



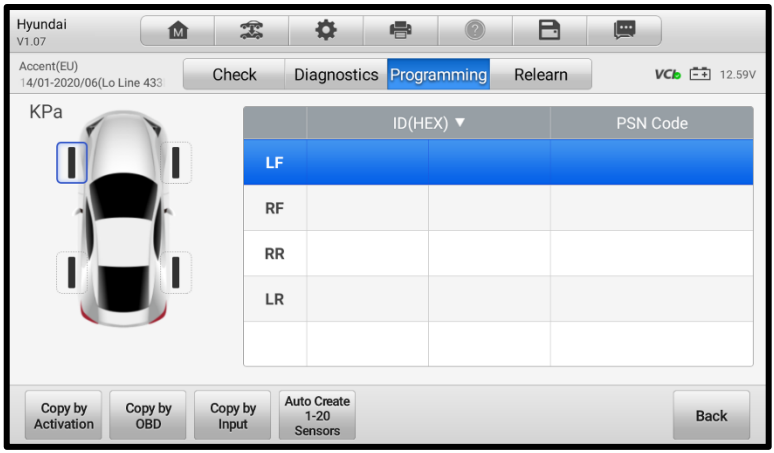
)LJXUH (&8 ,QIRUPDWLRQ 6FUHHQ

4.7 Sensor Programming

The Programming function is used to program the sensor data to the MX-Sensor and replace the faulty senor (poor battery life or malfunction).

NOTE

Programming function will only work with Autel MX-Sensor. The 1-Sensor (Press-in) is taken as an example in this manual. Please choose the proper MX-Sensor when programming.



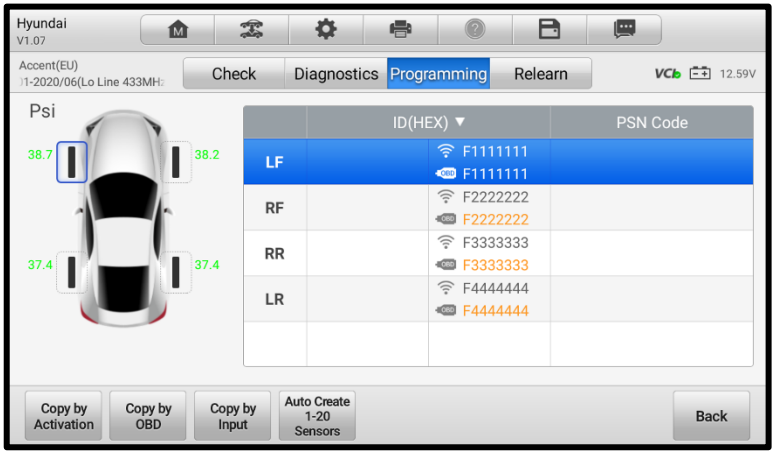
)LJXUH 3URJUDPPLQJ)XQFWLRQ 6FUHHQ

As shown in the screen above, there are four options available when programming MX-Sensor: Copy by Activation, Copy by OBD, Copy by Input, and Auto Create 1-20 Sensors.

The main section of the screen may include:

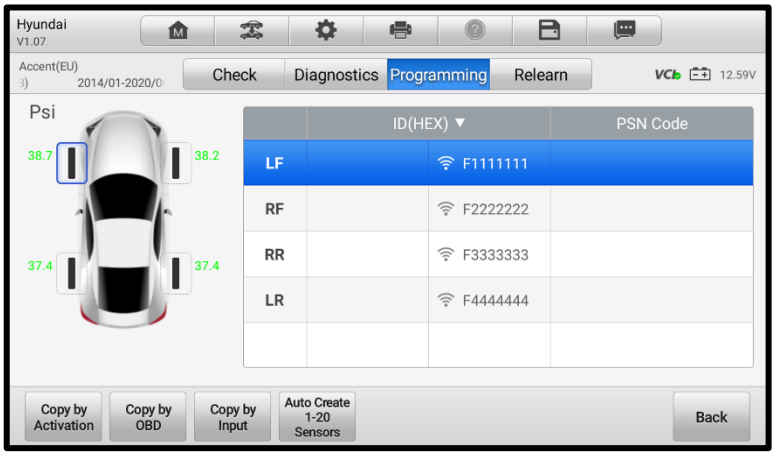
- Column 1 — displays wheel positions.
- Column 2 — displays the new created sensor IDs.
- Column 3 — displays the retrieved sensor IDs by activation or by OBD.
- Column 4 — displays the product serial number.

The sensor IDs retrieved from sensor activation or TPMS ECU will automatically appear on the screen with the trigger and OBD marks beside them.



) L J X U H 3 U R J U D P P L Q J 6 F U H H Q

If the OBD function is not supported by the test vehicle and the sensor ID saved in the ECU cannot be retrieved, the Programming screen appears as below.



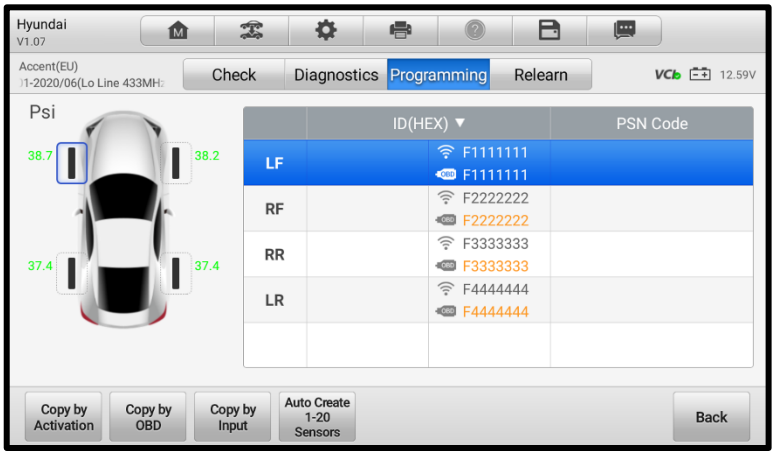
)LJXUH 3URJUDPPLQJ 6FUHHQ

4.7.1 Copy by Activation

This function allows the user to copy the retrieved sensor ID from the activated sensor to the new MX-Sensor. It is used after the original sensor is triggered.

➢ 7RFRS\ E\ DFWLYDWLRQ

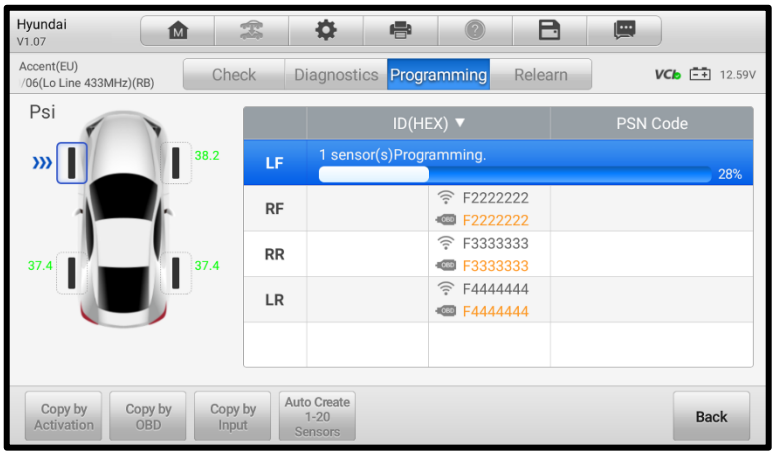
1. After performing TPMS check (see 7306 &KHFN on page 26 for details), the trigger marks with sensor IDs will appear on the table in the Programming screen.



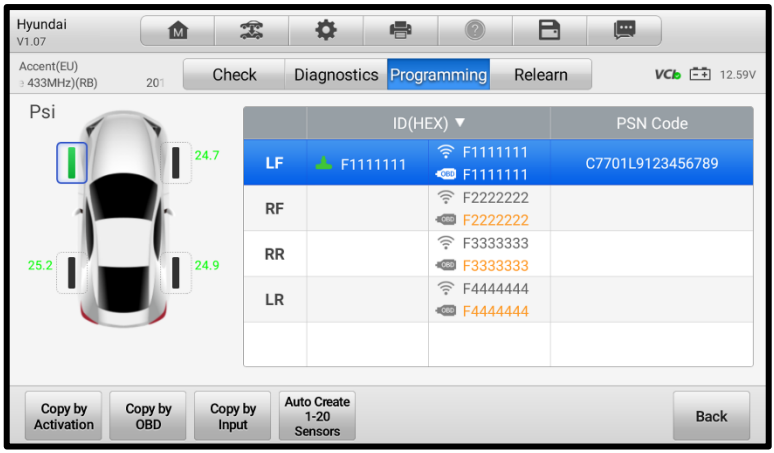
)LJXUH &RS\ E\ $FWLYDWLRQ &6FUHHQ

2. Select the corresponding wheel, then tap &RS\ E\ $FWLYDWLRQ

3. Place the MX-Sensor near the TPMS antenna of the tablet and tap 2. to start programming the retrieved sensor ID to the MX-Sensor.



)LJXUH &RS\ E\ $FWLYDWLRQ 6FUHHQ



)LJXUH &RS\ E\ $FWLYDWLRQ &RPSOHWH 6FUHH

4. When the programming is complete, the programmed ID will display in the column to the right of the wheel designation. In the pictured example, the new ID is displayed to the right of the LF column.

NOTE

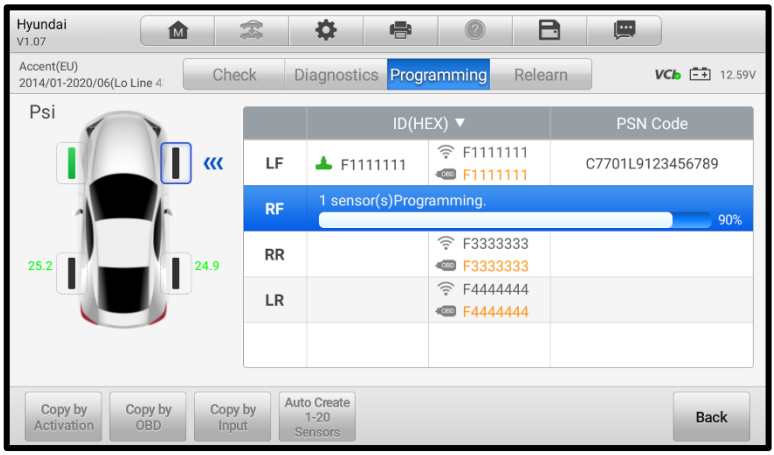
1. If the IDs of the original sensor and the new MX-Sensor are the same and the ID is already registered to the vehicle ECU, there is no need to perform the Relearn function when the new programmed sensor has been installed to the same wheel.
2. If the IDs retrieved from sensor activation and those registered to the TPMS ECU are different, tap **Copy by OBD** to program the IDs saved in the ECU to the new MX-Sensor.

4.7.2 Copy by OBD

By using this function, the tablet will program the sensor IDs retrieved from the ECU of the test vehicle to the new MX-Sensors.

➢ 7R F R S \ E \ 2 % '

1. Select one sensor position and place an MX-Sensor near the TPMS antenna of the tablet, then tap & R S \ E \ 2 % to program the new MX-Sensor.



) L J X U H & R S \ E \ 2 % ' 6 F U H H Q

2. When the programming is complete, the programmed ID will display in the column to the right of the wheel designation. In the pictured example, the new ID is displayed to the right of the RF column.

NOTE

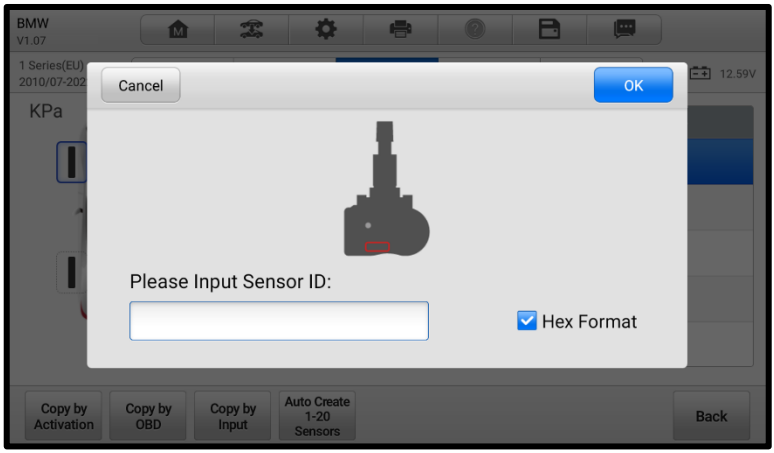
1. There is no need to perform the Relearn function to write the ID into the ECU when the new programmed sensor has been put in the same position.
2. The Copy by OBD programming method, if available, is recommended to program new MX-Sensors.

4.7.3 Copy by Input

The Copy by Input function allows users to program a new MX-Sensor with the ID of an original TPMS sensor.

➢ 7R F R S \ E \ L Q S X W

1. Select one sensor position and place an MX-Sensor near the TPMS antenna of the tablet, then tap & R S \ E \ , to program the new MX-Sensor.
2. When the input box displays, enter the ID of the original sensor, then tap 2 . when finished.



) L J X U H & R S \ E \ , Q S X W 6 F U H H Q

NOTE

1. Sensor either has a hexadecimal format or a decimal format. A warning message will display if too many characters are entered.
2. 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 position.

4.7.4 Auto Create 1-20 Sensors

The Auto Create 1-20 Sensors function is used to automatically create a random sensor ID to program a new MX-Sensor.

NOTE

To use this function, there is no need to activate the original sensor or retrieve the original sensor IDs from the TPMS ECU.

➢ 7R D X W R F-U H W H V R U V

1. Select the vehicle model, and select a wheel location on the screen and place the MX-Sensor(s) near the TPMS antenna of the tablet. Tap $ X W R & U-H D W H 6 H Q V R U to program the new MX-Sensor.
2. When the programming is complete, the programmed ID will display in the table on the screen.

NOTE

1. 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 needs to be relearned.
2. The tablet has the ability to program 20 MX-Sensors at once without unboxing. It is suggested that you place the part of the tablet marked with TPMS Service Symbol to the middle of the longer side of the packaging box, as seen in the figure below.

Figure 4-30 Auto Create 20 MX -Sensors

4.8 TPMS Relearn

This function is used to write the newly programmed sensor IDs into the vehicle ECU for sensor recognition.

Generally speaking, relearn only needs to be performed when the newly programmed sensor IDs are different from the original sensor IDs stored in the TPMS ECU.

There are four ways for relearn, namely OBD Relearn, Automatic Relearn, Stationary Relearn, and Copy Relearn. The first three are relearn methods for new sensor ID, while the Copy Relearn is a method to clone the sensor ID.

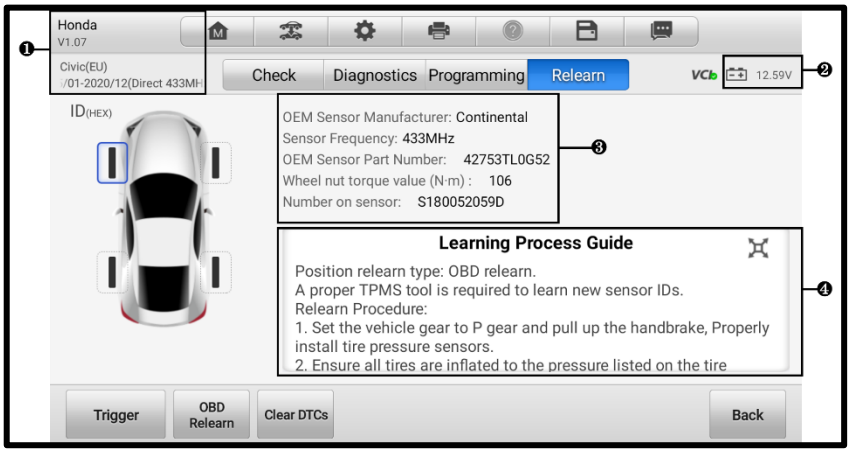
4.8.1 OBD Relearn

OBD Relearn is completed via the OBD diagnostic function without needing to drive, and the relearn procedures are basically the same for different models. Thus, we highly recommend you use this efficient and time-saving relearn method.

The OBD Relearn function allows the TS900 tablet to directly write the TPMS sensor IDs into the TPMS module.

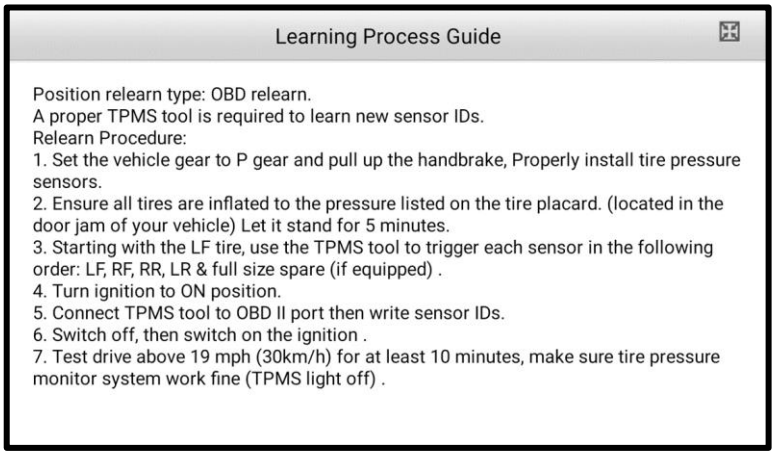
NOTE

1. Not all vehicles support the OBD Relearn function. If the selected vehicle supports OBD Relearn function, the OBD Relearn button will display on the bottom of the screen.
2. Before performing the OBD Relearn function, be sure to activate all the four sensors.



)LJXUH 2%' 5HOHDUQ 6FUHHQ

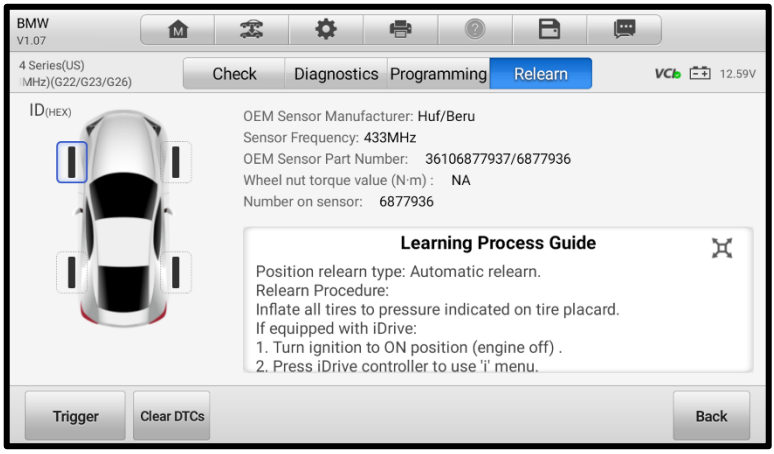
1. Vehicle Information
2. Battery from Vehicle
3. OEM Sensor Information
4. Learning Process Guide



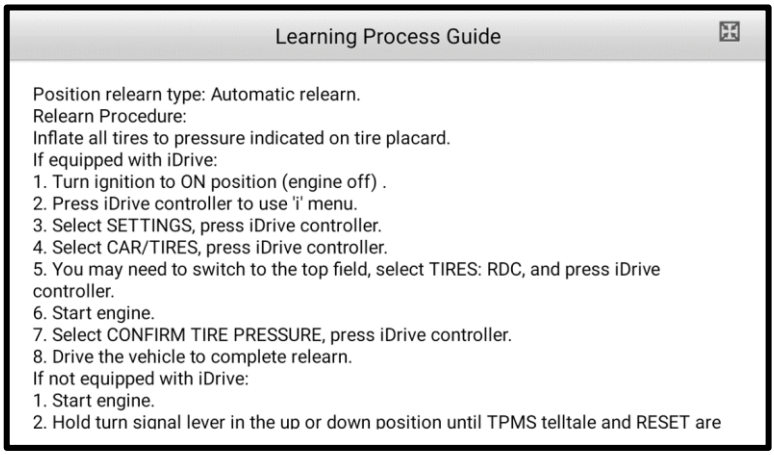
)LJXUH 2%' 5HOHDUQ 6FUHHQ

4.8.2 Automatic Relearn

Automatic Relearn requires driving to complete. For some vehicle models, the Automatic Relearn procedures can be completed directly by driving, while for some vehicle models, you need to follow the on-screen Learning Process Guide to let the vehicle enter the Automatic Relearn mode before driving.



)LJXUH $XWRPDWLF 5HOHDUQ 6FUHHQ



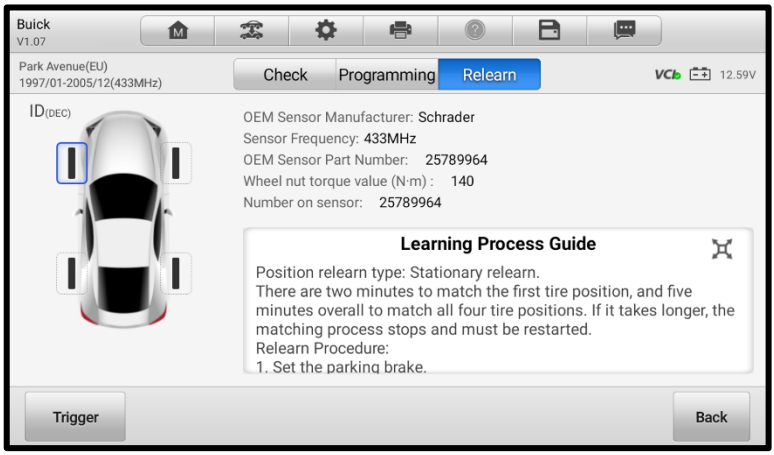
)LJXUH $XWRPDWLF 5HOHDUQ 6FUHHQ

4.8.3 Stationary Relearn

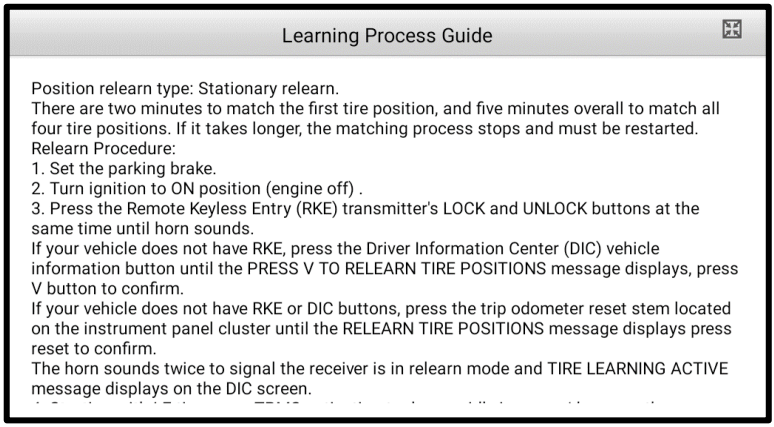
Stationary Relearn can be completed without relying on driving and OBD diagnostics. To activate this mode, it is usually necessary to perform a series of operations to let the vehicle enter the relearn mode first, then use TPMS tools to perform activation or deflation to complete the relearn. The Stationary Relearn operation procedures vary by vehicle models. Please carefully read the on-screen Learning Process Guide before performing Stationary Relearn.

NOTE

Stationary Relearn requires the vehicle to be placed in the “Learn Mode” after each new sensor is triggered.



)LJXUH 6WDWLRQDU\ 5HOHDUQ 6FUHHQ



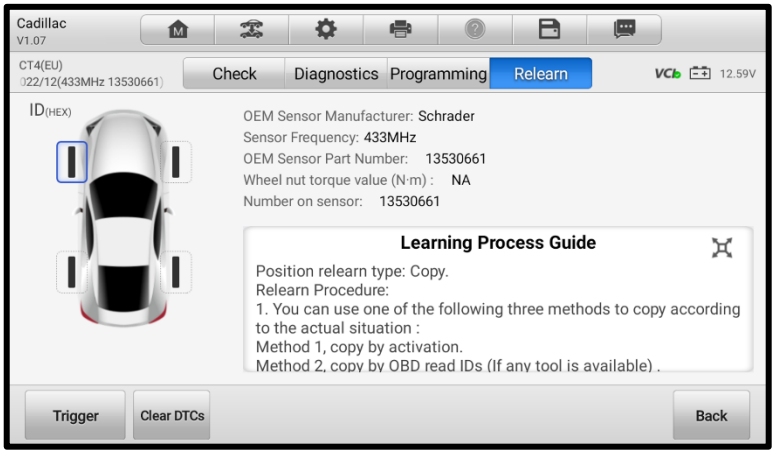
)LJXUH 6WDWLRQDU\ 5HOHDUQ 6FUHHQ

4.8.4 Copy Relearn

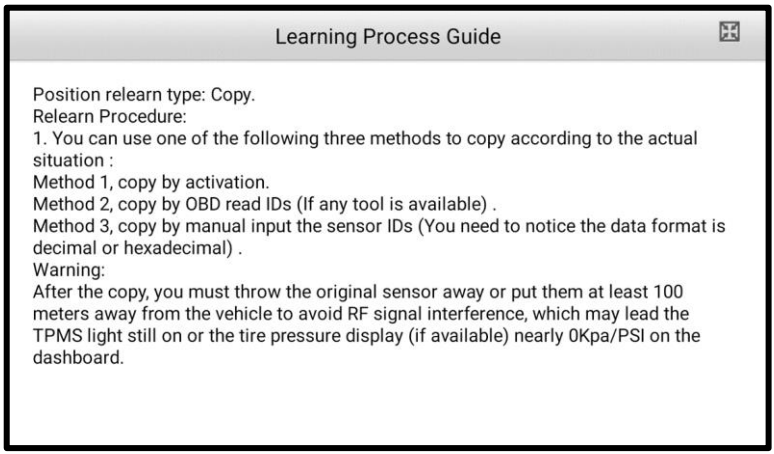
Copy Relearn is to clone the sensor ID and tire location. Before performing Copy Relearn, you need to first obtain the sensor ID and tire location needed to be cloned, then use Autel tool to clone and program the sensor ID, and install the sensor to the corresponding tire to complete Copy Relearn.

NOTE

1. Ensure the original sensor will not interfere with the relearn procedures. It is recommended that you keep the original sensor at least 100 meters away from the vehicle or put the sensor in an enclosed metal box to avoid signal interference.
2. Normally, it is not necessary to perform relearn procedures after cloning. However, some vehicle models like Porsche and Maserati, may need to perform the relearn procedures after cloning, so that the TPMS system can work properly.



)LJXUH &RS\ 5HOHDUQ 6FUHHQ



)LJXUH &RS\ 5HOHDUQ 6FUHHQ

4.9 TPMS by OEM Part NO.

If the sensor's OEM part number is known, this function is an efficient method to activate and program MX-Sensors.

4.9.1 Application Scenarios

This method is ideal for the following two cases:

In the workshop

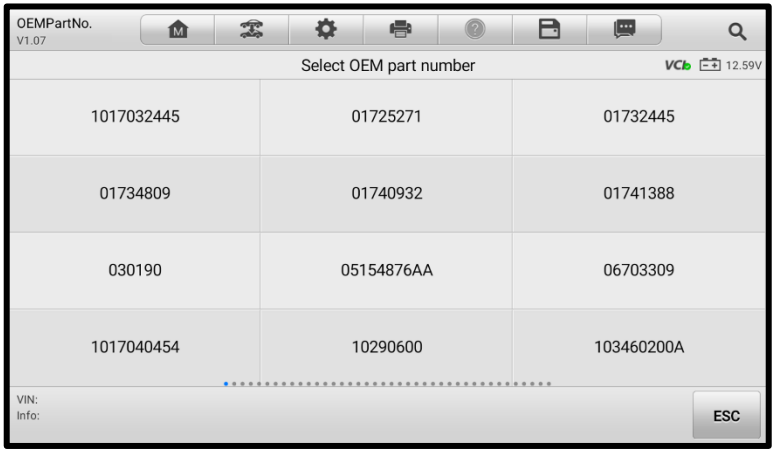
If the mounted sensor is faulty and the part number is known to the technician, the technician can use this method to check the original sensor, and then write the retrieved information into a new MX-Sensor via Programming function. Then the newly programmed MX-Sensor is ready to replace the original sensor and be installed on the vehicle.

In the tire shop

If a customer needs to replace one or more tires including sensors, or purchase a lot of sensors for one vehicle model and the OEM part number of this model is known, this function can be used to program up to 20 sensors at the same time.

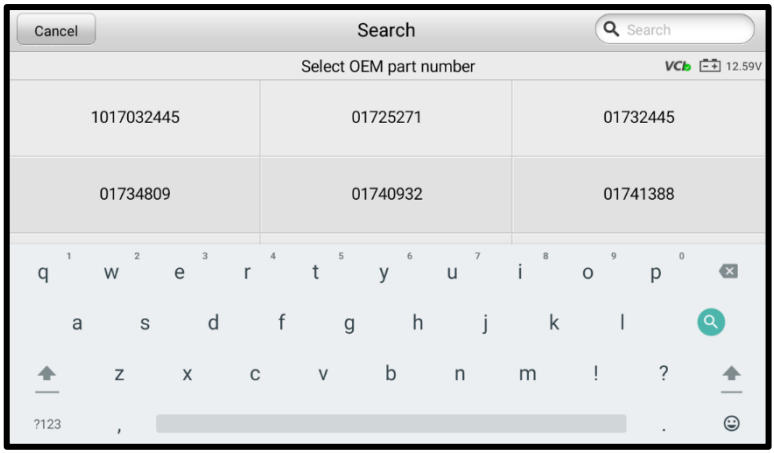
4.9.2 Operations

1. Tap **OEM Part NO.** on the TPMS Vehicle Menu screen to access the next screen. A list of sensor OEM part numbers will display.
   a) Swipe the screen left and right to find the correct OEM part number of the sensor for the test vehicle.



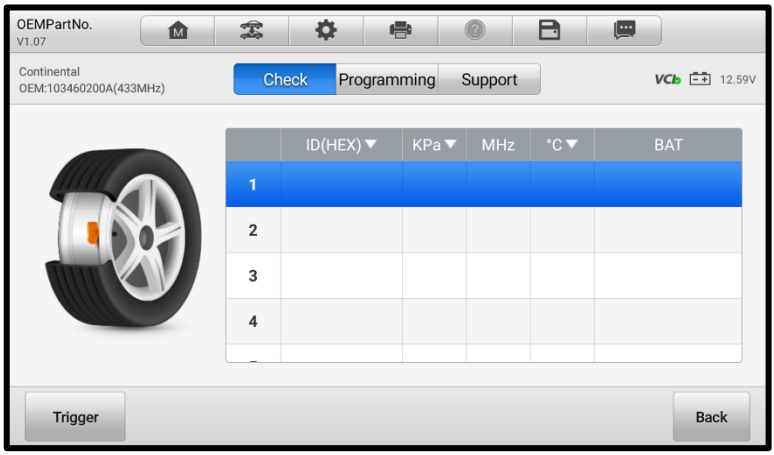
)LJXUH 2(0 3DUW 12 6FUHHQ

b) Or tap the search box on the top-right corner of the screen to enter the part number.



)LJXUH 2(0 3DUW 12 6HDUFK 6FUHHQ

2. When a specific OEM part NO. is selected, the screen will display as below.



)LJXUH 2(0 3DUW 12 6HUYLFH 0HQX 6FUHHQ

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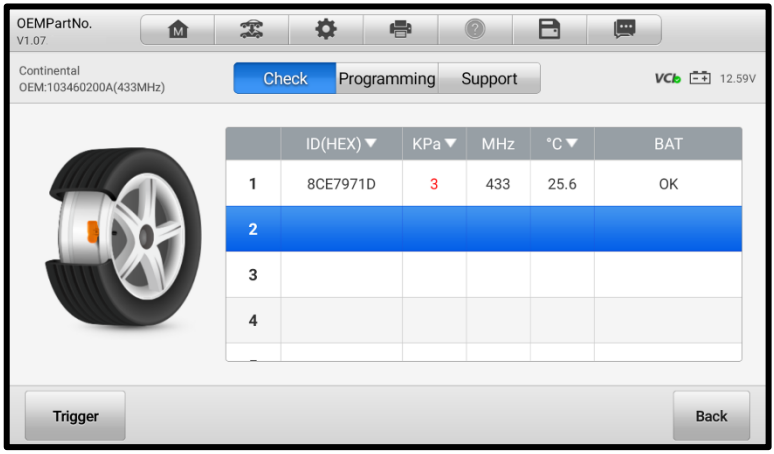
Only sensor Check and Programming functions are available with the OEM Part NO. function. The Diagnostics and Relearn functions can only be accessed by selecting a vehicle on the TPMS Vehicle Menu screen.

4.9.2.1 Check

The Check tab is the default selection on the screen above. Tap **Trigger** on the bottom-left of the screen to activate the original sensors and retrieve the sensor information. The original sensor ID, tire pressure, tire temperature, sensor frequency, and sensor battery status will populate the displayed table.

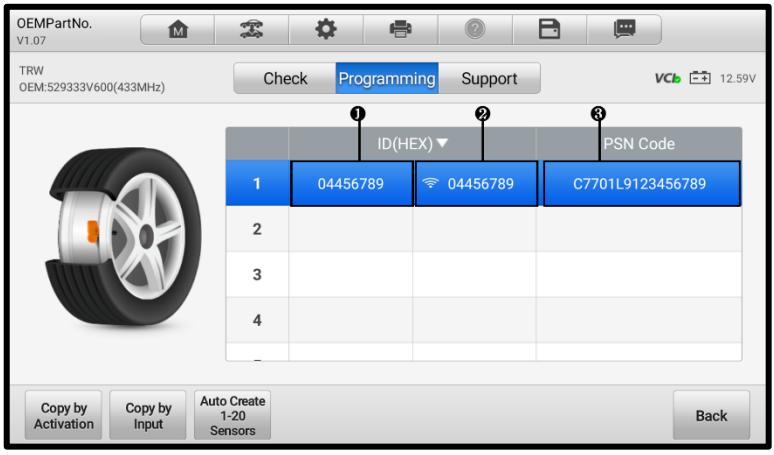


)LJXUH &KHFN 6FUHHQ YLD 2(0 3DUW 12

4.9.2.2 Programming

The programming function is used to program the sensor data to the MX-Sensor and replace the faulty sensor (poor battery life or malfunction).

There are three options available when programming MX-Sensor using the OEM Part NO. function: Copy by Activation, Copy by Input, and Auto Create 1-20 Sensors. Refer to *Sensor Programming* on page 33 for details.



)LJXUH 3URJUDPPLQJ 6FUHHQ YLD 2(0 3DUW 12

1. ID Programmed to the New MX-Sensor
2. ID Retrieved from Sensor Activation

3. PSN Code on MX-Sensor

NOTE

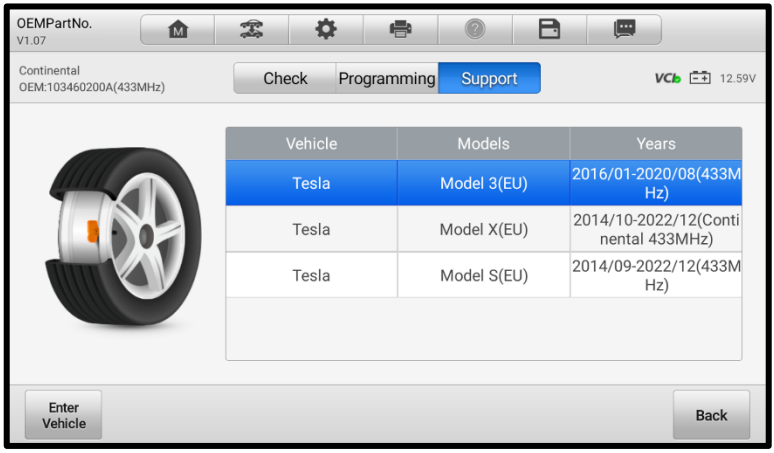
By tapping **Auto Create 1-20 Sensors**, up to 20 MX-Sensors can be programmed at a time.

The Product Serial Number (PSN) code, which is printed on the MX-Sensor, acts as a reference to identify the corresponding sensor ID. This can be especially useful when programming multiple MX-Sensors.

4.9.2.3 Support

The Support function will display the correct vehicle types for the selected OEM part number.

To conduct additional procedures such as Diagnostics and Relearn, select the correct test vehicle and then tap **Enter Vehicle** at the bottom-left of the screen. Refer to *TPMS Diagnostics* on page 29 and *TPMS Relearn* on page 39 for more details about the comprehensive TPMS functions menu.



)LJXUH 6XSSRUW 6FUHHQ

5 Diagnostics

The Diagnostics application can retrieve ECU information, read & erase DTCs, and view live data. The Diagnostics application can access the electronic control unit (ECU) for various vehicle control systems, including engine, transmission, antilock brake system (ABS), and airbag system (SRS).

5.1 Establishing Vehicle Communication

Prior to performing the Diagnostics function, ensure the tablet is connected to the test vehicle through the MaxiVCI V150.

5.1.1 Vehicle Connection

To connect the MaxiVCI V150 to the test vehicle, insert the vehicle data connector on the MaxiVCI V150 into the vehicle's DLC which is usually located under the vehicle dashboard, and the MaxiVCI V150 will be automatically powered on.

NOTE
The vehicle's DLC is not always located under the dashboard. Refer to the vehicle's user manual for DLC location.

5.1.2 VCI Connection

The Power/Connection LED on the MaxiVCI V150 will light solid green when properly connected to the vehicle and be ready to establish communication with the tablet.

The wireless diagnostic interface MaxiVCI V150 can be connected to the tablet via Bluetooth pairing, which does not need to repeat the plugging and unplugging procedure that is unavoidable when using traditional wired connection, saving more time and providing higher efficiency. The working range for Bluetooth communication is about 328 feet (100 m), enabling remote vehicle diagnostics. To establish a proper vehicle communication between the tablet and test vehicle, you can perform the following steps:

1. Connect the MaxiVCI V150 to the vehicle's DLC for both communication and power supply.
2. Connect the MaxiVCI V150 to the tablet via Bluetooth pairing.