Initial version：V1.0

Statement

- This manual only provides the operation method of the QQr tire pressure system matching instrument. The company does not assume any responsibility for the consequences caused by using the operation method for other equipment operations.
- Accidents caused by the use of the user or a third party; or the cost of damage or loss caused by the user's abuse, misuse, unauthorized alteration, repair or failure to perform the operation and equipment maintenance requirements as required by the manual The company does not assume any responsibility for expenses, etc.
- This manual is written according to the existing configuration and functions of the product. If new configurations and functions are added to the product, this manual will be changed without prior notice.

Fvehicle series host maintenance and use precautions

- This machine does not allow unauthorized removal;

- Avoid causing strong collisions with the unit and avoid placing the unit close to the magnetic field；
- Do not leave the unit in a high temperature or low temperature environment for a long time;
- Click on the screen and don't use too much force or use a sharp weapon;
- Do not use water and chemical solvents to clean the unit. Use a soft cloth and a mild detergent to clean the unit.

vehicle inspection precautions

- It must be operated in accordance with the safety regulations of the automobile repair industry. Pay special attention to the influence or damage caused by environmental factors such as acid and alkali, poison gas and high pressure and heavy objects;
- Before starting the engine, make sure that the parking brake is pulled and the shift lever is placed in neutral (manual transmission) or park (automatic transmission);
- Find the diagnostic seat, check and confirm that the line of

the diagnostic seat is intact, and connect to the main engine for diagnosis. Otherwise, it is unnecessary to test to avoid damage to the main engine and to measure the diagnostic seat voltage with a multimeter if necessary.

Instrument use precautions

- When using this product for testing, it must be handled gently, away from heat and electromagnetic fields, to avoid interference with the host;
- When the electrical components are energized, the circuit cannot be disconnected to prevent self-inductance and mutual inductance current from damaging the sensor and the vehicle ECU;
- When the appliance is working normally, it is strictly forbidden to bring the magnetic object close to the vehicle control unit, otherwise the vehicle control unit may be damaged;
- Never operate the diagnostic equipment while driving the vehicle to avoid accidents.

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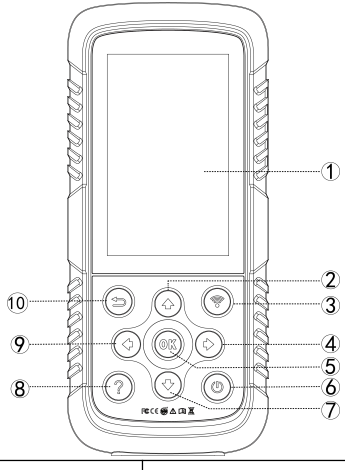
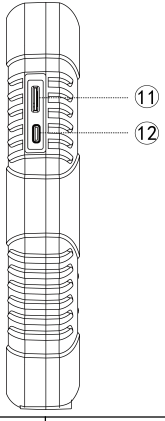
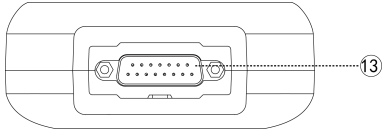
1.Product button and function description



Serial number	Name	Description
①	touch screen	Display menu and test results
②	Up button	Option moves up
③	Activation key	Send confirmation when TPMS wirelessly recognizes and programs

④	Right button	Option moves to the right
⑤	Confirm button	Confirm OK
⑥	ON/OFF button	Press 3 seconds to turn on/off
⑦	Down button	Option moves down
⑧	Help button	Providing help information
⑨	Left button	Option moves to the left
⑩	Return button	Return to the previous menu interface





Serial number	Name	Description
⑪	TF vehicled	TF vehicled insert port
⑫	Type-C interface	Connect the USB cable to charge the tire pressure matcher
⑬	OBD test interface	Tire pressure matching instrument connected to vehicle ECU through OBD interface

Product specifications

Display	4.3 inch LCM with single touch (vertical screen), resolution 800*480
Battery	Polymer lithium battery 3500 mAh/3.7V (4.2V charging)）
Charging parameter	Battery Charging Current Limitation 2000mA±50mA
TF vehicled	Support 8-32G, speed C2, vehicled type：SDHC,SDXC
Machine operating temperature	- 10 to 55 degrees C
Size	212*94*39

2.Battery charging

Power can be supplied in the following ways：

- Charge the battery by connecting the PC via a USB cable
- Charge the battery with a USB power adapter
- Power supply with OBD II diagnostic pedestal (when the

diagnostic pedestal is powered, the battery cannot be charged)

Tire pressure matching system has a built-in 3500mAh/3.7V lithium ion polymer rechargeable battery. The built-in battery is fully charged to keep the equipment working continuously for 5 hours or more.

3.Device ON/OFF

Short press the on/off key (about 3 seconds) to turn on the device; in the power on state, short press the on/off key (about 3 seconds) to turn off the device, or set the system automatic shutdown time in [Setting]. The operation method is as follows:

1) Click [Auto Power Off] in [System Settings]；
2) Set the automatic shutdown time in the pop-up window；
3) Click on [OK] to complete the settings. The system will shut down automatically when it reaches the preset time without any operation.

4.Tire pressure diagnosis

Tire pressure diagnosis includes: tire pressure system

diagnosis, programming sensor, position learning, sensor information and other functions.

4.1 Tire pressure system diagnosis

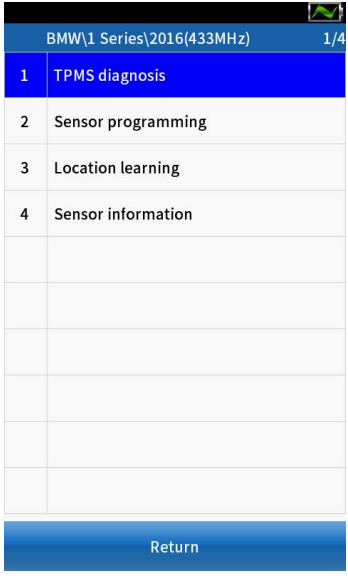
This function is used to detect the tire pressure system and sensor status. When diagnosing the tire pressure system, it is necessary to activate all the sensors installed on the test vehicle,

connect the vehicle, turn on the ignition switch, and the device automatically reads the sensor in the computer board. ID and fault code. The specific operation method is as follows：

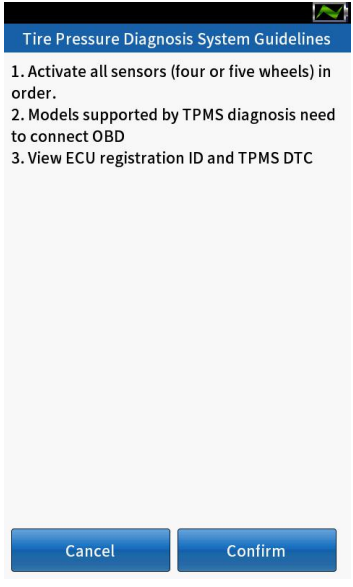
- **How to diagnose the tire pressure system**

1) Selection of test vehicle system, vehicle type and production year；

2) Select [TPMS diagnosis]；

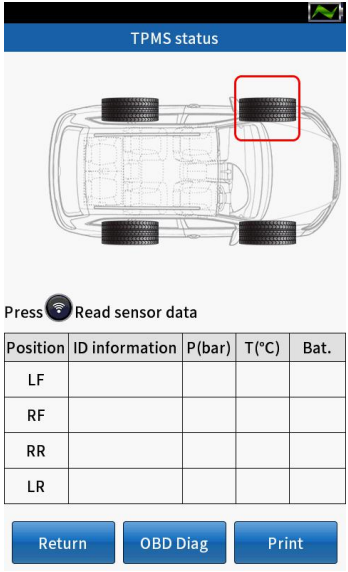


3) Read the “Tire Pressure Diagnosis System Guidelines” carefully and click [Confirm] to continue；

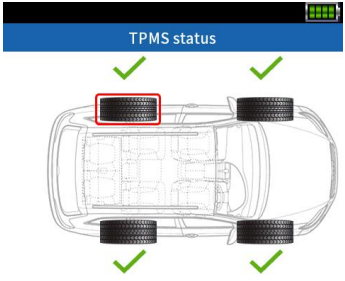


If the previous data is saved on the device, the following prompt will be displayed, select [Confirm] to use the previously stored data, or select [Cancel] to use the new data;

4) Press【 】button activate all sensors installed on the test vehicle separately;



5) If the sensor is activated successfully, the position of the activated sensor, sensor ID, tire pressure, tire temperature and battery level will be displayed at the bottom of the screen, as shown below：



Press Read sensor data

Position	ID information	P(bar)	T(°C)	Bat.
LF	011F6DA(Hex)	0.02	25	Low
RF	011F6DB(Hex)	0.02	25	Low
RR	011F6D8(Hex)	0.02	25	Low
LR	011F6D9(Hex)	0.02	26	Low

Return OBD Diag Print

The activation status prompt is as follows：

✓	Successful activation
✗	Failed activation
!	Repeat activation

6) When all the sensors have been successfully triggered, click [OBD Diag], the following prompt appears on the screen, as shown in Figure 6-1, please connect the OBD line to the vehicle DLC interface, and turn on the ignition switch, as shown in Figure 6-2：

Figure 6-1 connection prompt

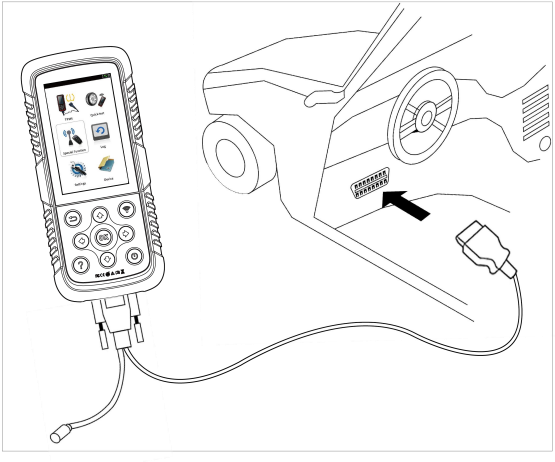
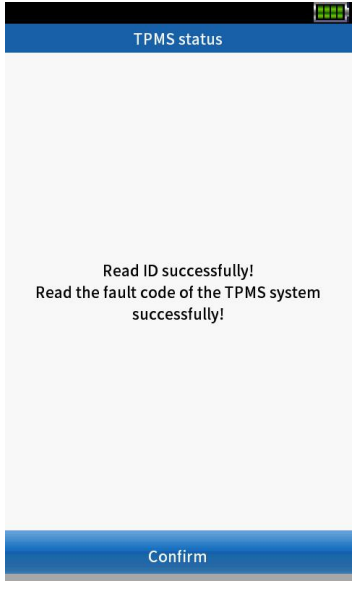
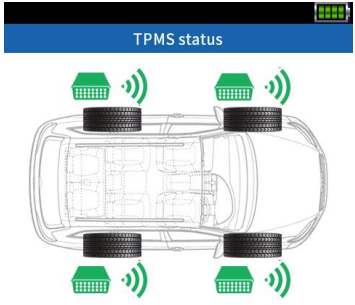


Figure 6-2 Connecting the vehicle

7) After connecting the vehicle, click [Confirm], the matching meter will automatically read the sensor ID and TPMS system fault code stored in the computer board;



8) Click [Confirm], the screen will display the comparison between the ID value stored in the computer board and the tire ID value, as shown in the figure：



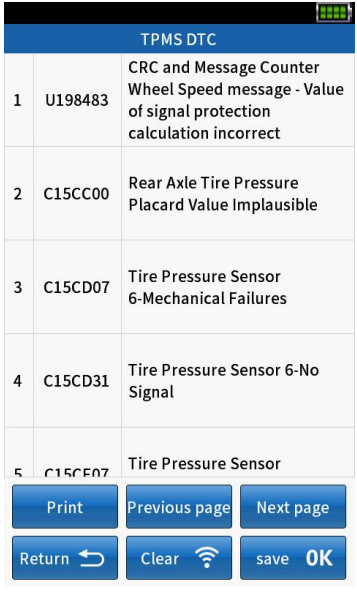
ID information		
Position	ID (via RF)	ID (via OBD)
LF	011F6DA	011F6DA
RF	011F6DB	011F6DB
RR	011F6D8	011F6D8
LR	011F6D9	011F6D9

Return View DTCs

Comparison result：

	Green	Computer Board ID and Sensor ID Matching
	Red	Computer board ID does not match sensor ID

9) Select [View DTCs] to view the retrieved TPMS system fault code. As shown in the figure below, click [Clear] to automatically clear the fault code and re-retrieve the computer board to ensure that all fault codes have been deleted, or click [Save] to store the fault. Code and can be viewed in the "data record"。



4.2 Sensor programming

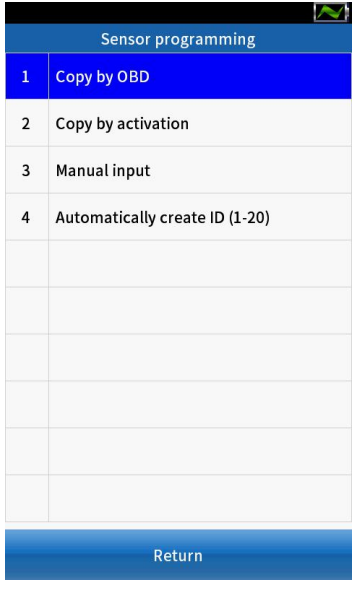
The QQr sensor can be programmed in four ways: copy by OBD, copy by activating, manual input, and automatically create ID(1-20).

4.2.1 Copy by OBD

Using OBD copying is to program the sensor ID registered in the computer board to the new QQr sensor. When the new programming sensor is installed on the same wheel, it is recommended to write the ID to the computer board without performing the “location learning” function. This method (if available) programs a new sensor.

- **How to copy by OBD**

1) After the vehicle selection is completed, select [Copy by OBD] in [Sensor programming]；



2) When the following prompt pops up, select [Confirm] to use the previously stored data, or select [Cancel] to use the new data;

3) When the following message appears on the screen, as shown in Figure 3-1, connect the OBD line to the vehicle DLC interface and turn on the ignition switch, as shown in

Figure 3-2：

Figure 3-1 connection prompt

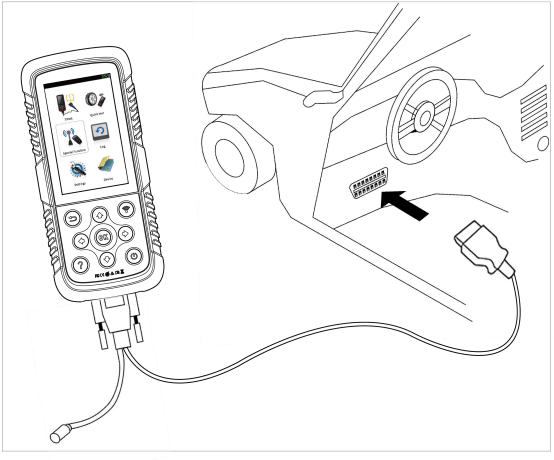
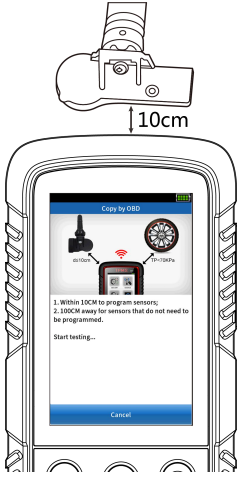


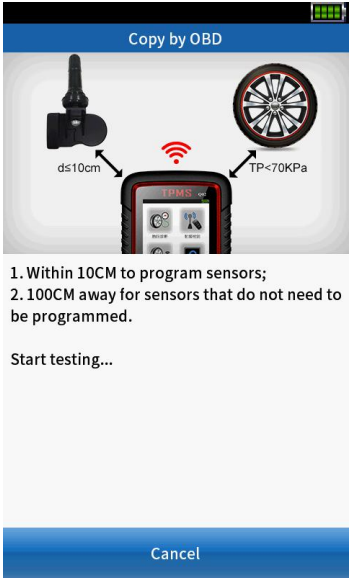
Figure 3-2 connecting the vehicle

4) Click [Confirm], the matching instrument will automatically read the sensor ID saved in the computer board and display it on the screen；

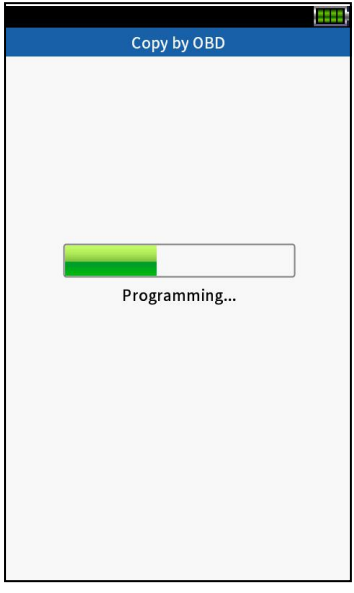
5) Place a QQr sensor within 10cm from the top of the matching instrument;



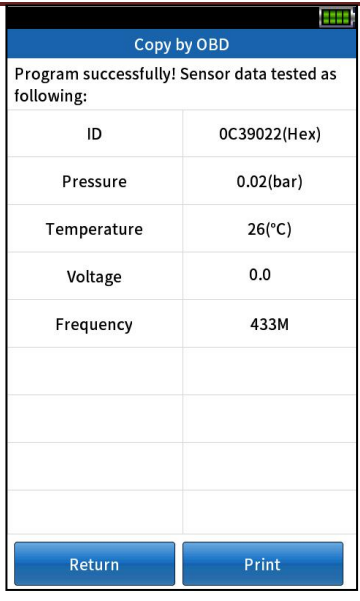
6) Select a sensor ID and click [Program] to start detecting nearby sensors;



7) When a sensor is detected, the programming function is automatically performed;



8) If programming is successful, the sensor ID, pressure, temperature, frequency and voltage will be displayed on the screen as shown below：



9) Click [Return] to repeat steps 4-8 to continue programming other sensors.

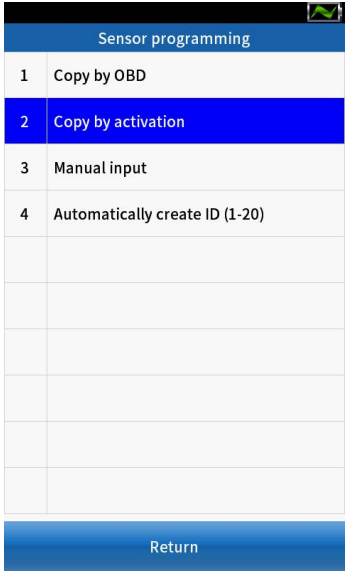
4.2.2 Copy by activation

This function is used to activate the original sensor and

retrieve the sensor ID, then program the original sensor ID to the new QQr sensor, since the original sensor has been written to the vehicle's computer board, so when the new programmed sensor is mounted to the same wheel, No need to perform learning functions。

- **How to copy by activation**

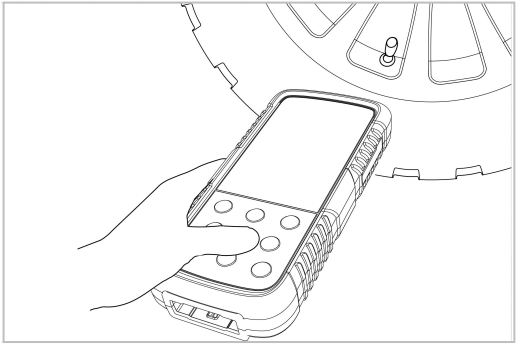
1) After the vehicle selection is completed, select [Copy by activation] in [Sensor programming]；



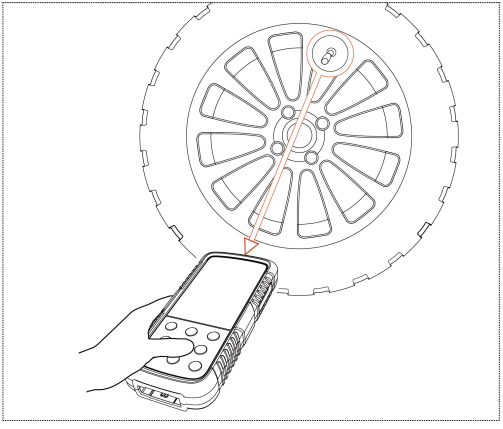
2) Click【Activate】or【 】to start activating the sensor；

3) When the sensor is activated, it is required to be as close to the sensor as possible from the outer edge of the tire (because the hub is metal, which will lead to weak signal and can not activate the sensor), and the head of the matching instrument is facing the sensor. As shown below, if the sensor is not read out, you can try to read the sensor at

different positions and angles.

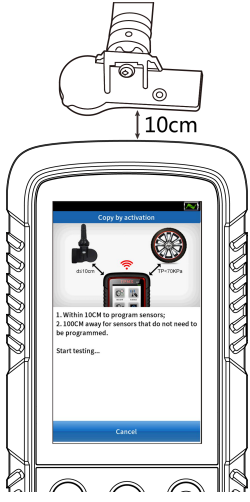


FORD's vehicle is a Banded Sensors vehicle, and the sensor is positioned exactly at 180 degrees of the valve nozzle. The sensor needs to be deactivated in that direction;

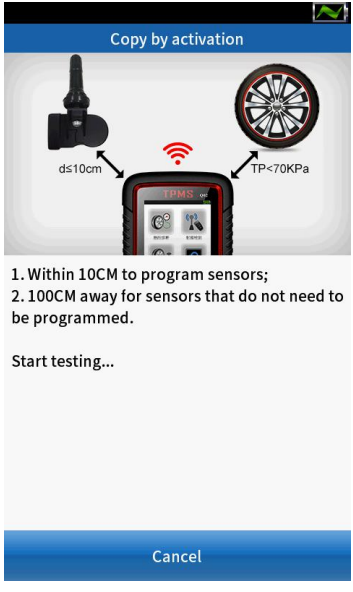


4) If the activation is successful, the original sensor ID is displayed at the bottom of the screen, as shown below：

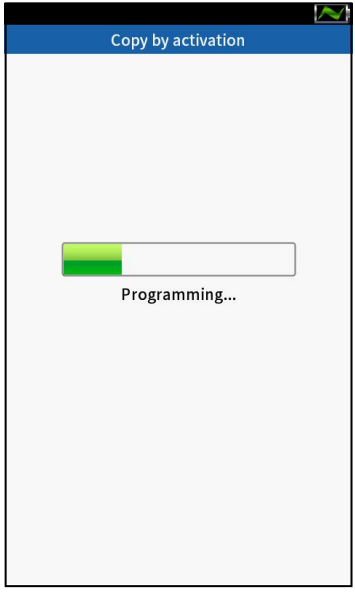
5) Place a new QQr sensor on the top of the matching instrument. The optimal distance between the matching instrument and the sensor to be programmed is less than 10cm, as shown below；



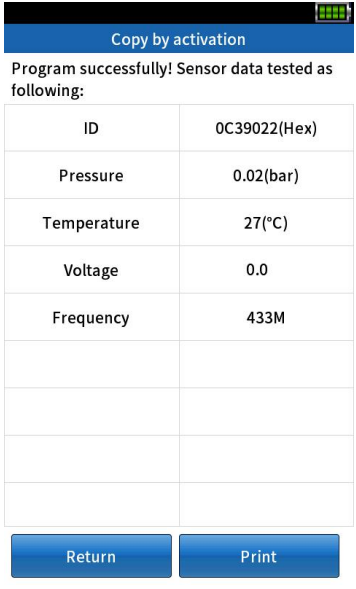
6) Click [Programming], the matching instrument starts to detect nearby sensors;



7) When a sensor is detected, the programming function is automatically performed;



8) If the programming is successful, the sensor ID, pressure, temperature, frequency and voltage will be displayed on the screen as shown below：



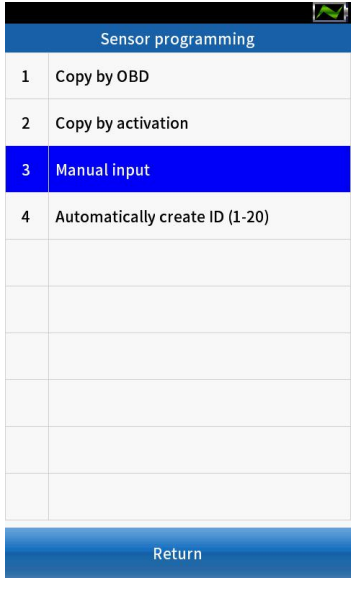
4.2.3 Manual input

This function is used to manually enter the original sensor ID and program it into the new QQr sensor, since the raw sensor ID entered manually is already stored in the tire pressure system computer board, so if the newly programmed sensor is also

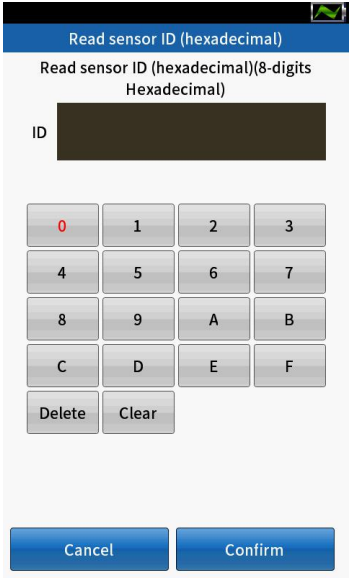
installed in the same Wheel position, no need to perform "location learning" function。

- **How to manually input the sensor ID**

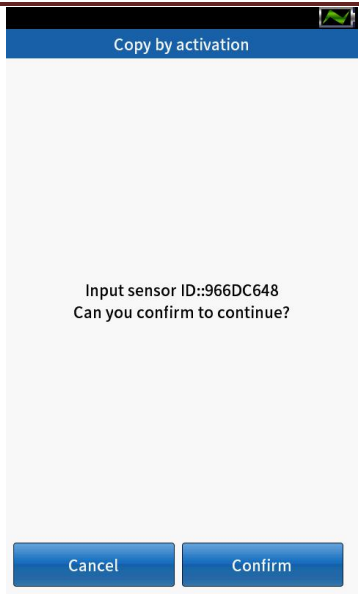
1) After the model selection is completed, select [Manual Input] in [Sensor programming]；



2) Enter the 8-digit sensor ID number; the matching meter automatically detects the length of the ID;



3) Click [Confirm] to continue programming；



4) The matching instrument automatically detects the nearby sensor, as shown in Figure 4-1. At this time, a new QQr sensor is placed on the top of the matching instrument. The optimal distance between the matching instrument and the sensor to be programmed is less than 10cm, as shown in Figure 4-2；

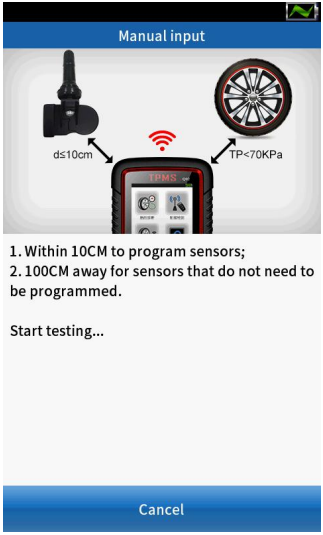


Figure 1

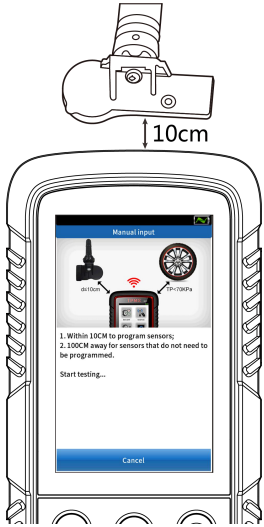
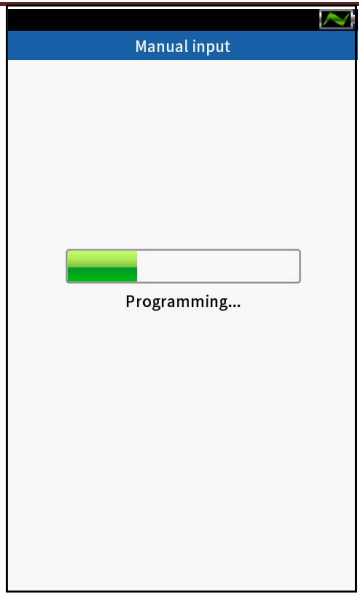
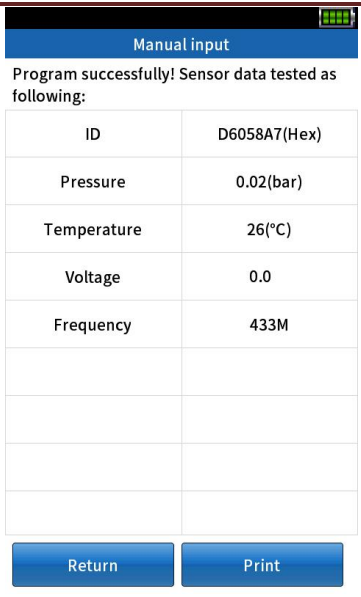


Figure 2

5) When a sensor is detected, the programming function is automatically performed;



6) If the programming is successful, the sensor ID, pressure, temperature, frequency and voltage will be displayed on the screen as shown in the figure：



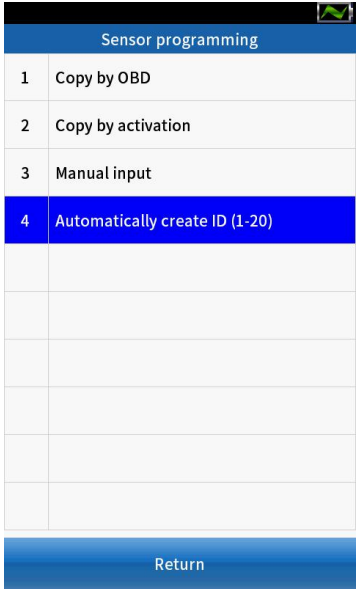
4.2.4 Automatically create ID（1-20）

This function is used to create a random ID for 1-20 QQr sensors. This new ID is different from the ID stored in the tire pressure system computer board. Therefore, the sensor must be

re-learned into the tire pressure system computer board.

➢ **How to automatically create 1-20 Dajin sensors**

1) After the model selection is completed, select [Automatically create ID (1-20)] in [Sensor programming]；



2) The matching instrument automatically detects nearby

sensors, as shown in Figure 2-1. At this time, 1-20 new Dajin sensors are placed on the top of the matching instrument. The optimal distance between the matching instrument and the sensor to be programmed is less than 10 cm, as shown in Figure 2-2；

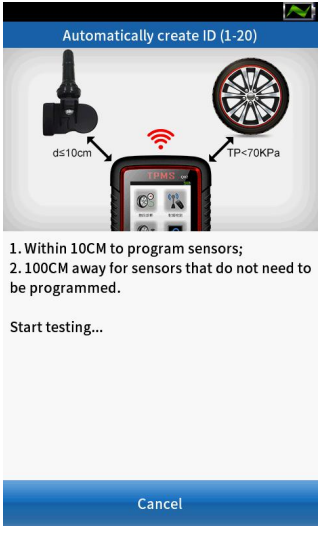
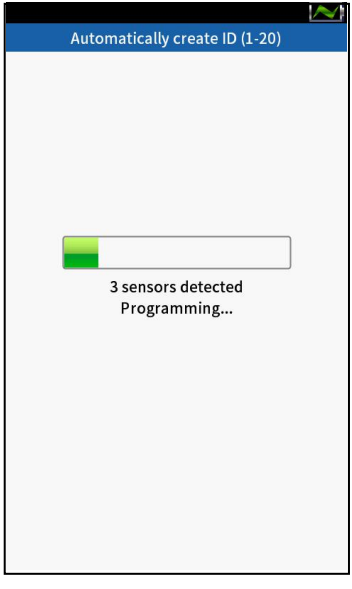


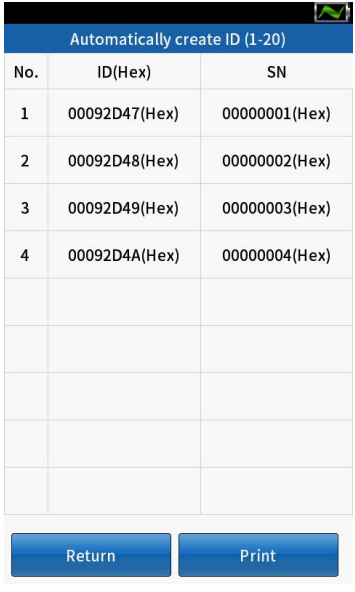
Figure 2-1

Figure 2-2

3) When a nearby sensor is detected, click [Continue] to start programming the sensor；



4) If the programming is successful, the sensor ID and SN number will be displayed on the screen, as shown in the figure：



4.3 Location learning

There are three ways to position learning: Stationary, Automatic and OBD .

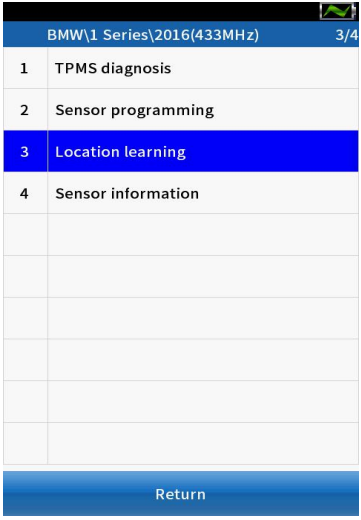
For some vehicles, the re-learning function can be completed by driving. For details on the process, please refer to the "Learning Process Guide" on the screen.

OBD learning

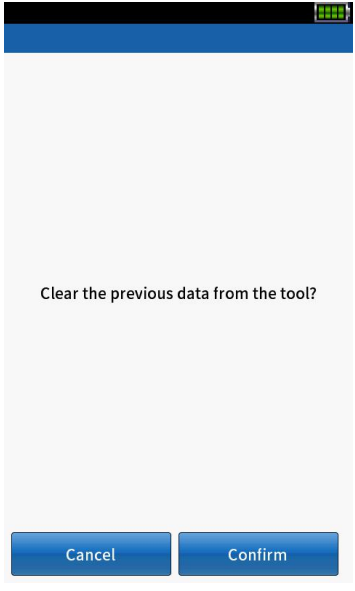
The OBD learning function allows the matcher to directly write the tire pressure sensor ID into the tire pressure system module. Before performing OBD learning, please activate all sensors as follows:

- **How to learn by OBD**

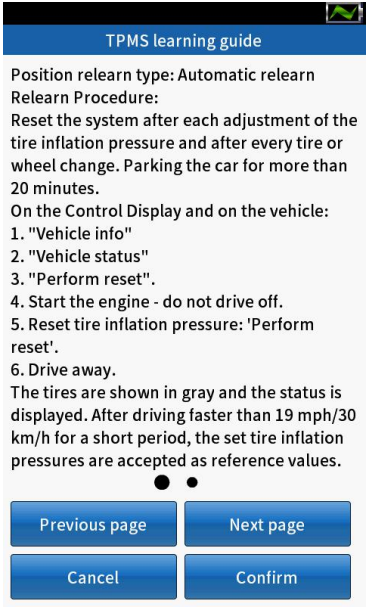
1) After the vehicle selection is completed, select [Location Learning]**;**



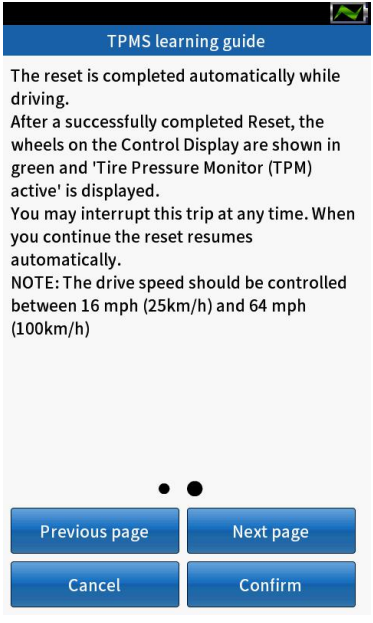
2) When the following prompt pops up, select [Confirm] to use the previously stored data, or select [Cancel] to use the new data;



3) At this point, please read the "Learning guide" carefully and press "Confirm" to continue;



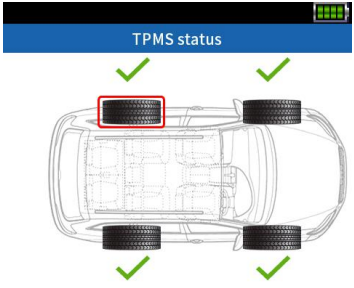
Learning guide 1/2



Learning guide 2/2

4) Press 【 】 activate all sensors installed on the vehicle separately；

Note: If you select [Confirm] in step 2 to use the previously stored data, you do not need to activate the sensor again.



Press Read sensor data

Position	ID information	P(bar)	T(°C)	Bat.
LF	011F6DA(Hex)	0.02	25	Low
RF	011F6DB(Hex)	0.02	25	Low
RR	011F6D8(Hex)	0.02	25	Low
LR	011F6D9(Hex)	0.02	26	Low

Return Relearn Print

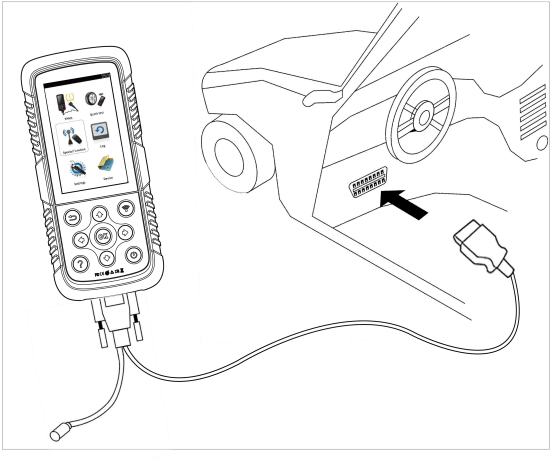
The activation status prompt is as follows：

✓	Successful activation
✗	Failed activation
!	Repeated activation

Note: All sensors should be activated successfully without any duplicate ID.

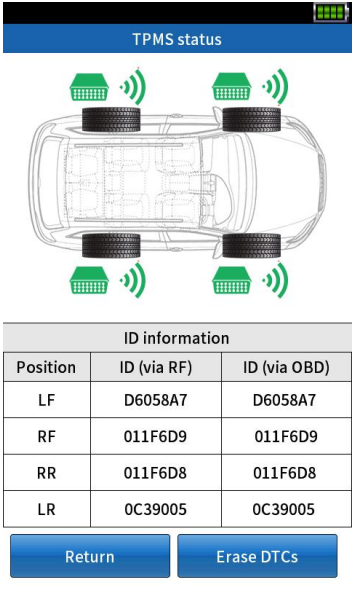
5) When all the sensors are activated successfully, with the support of the vehicle, click on Learning, and the matcher will prompt the user to connect to the vehicle, as shown below：

6) Follow the on-screen instructions to connect the vehicle, as shown below, and turn on the ignition switch. After the connection is completed, click [Confirm] to continue;



7) The device writes the sensor ID to the computer board, please wait; if the OBD learning is successful, the sensor ID is written into the computer board;

8) Click [Confirm] to view the sensor ID information, as shown below；



9) Select [Erase DTCs] to automatically erase the fault code in the computer board and recheck the computer board to ensure that all fault codes have been deleted.

4.4 Sensor information

4.4.1 QQR sensor information

When using the matching instrument to view the QQR sensor

information, the optimal distance between the matching instrument and the QQR sensor is less than 10cm. As shown in Figure 4.4.1-1, the matching instrument will automatically read and display the sensor information, as shown in Figure 4.4.1-2：

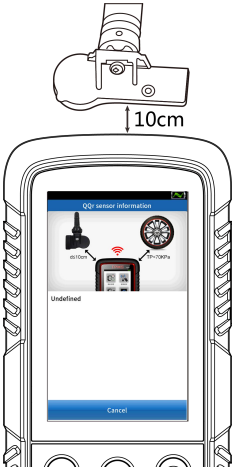


Figure 4.4.1-1

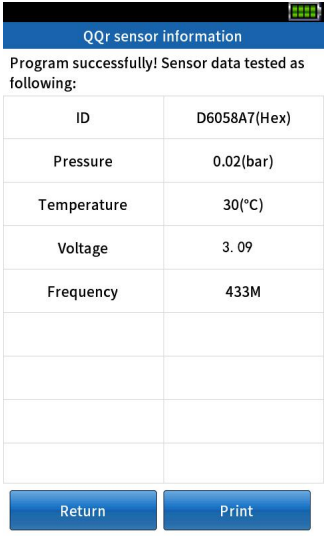
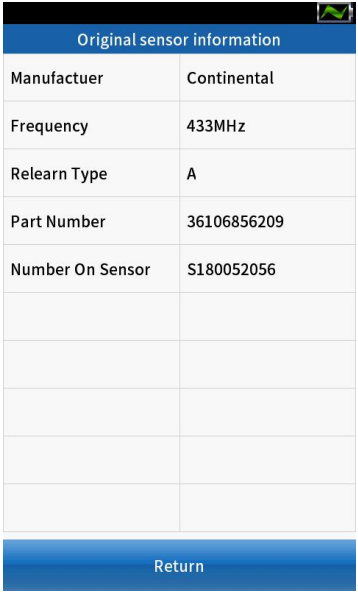


Figure 4.4.1-2

4.4.2 Original sensor information

View original sensor information for the selected model.



5.Quick test

Quick test performs basic sensor programming and learning

functions, including: programming sensors, position learning, and sensor information, similar to programming and learning functions in Tire Pressure System Diagnostics.

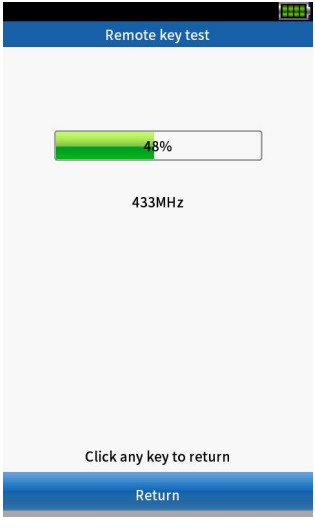
6.Special function

This function is used to remotely test the signal strength of the remote control key.

- **How to test the signal strength of the remote key**

1) Select [Remote key test] in the auxiliary function;

2) Put the key card close to the matching instrument, press the function key on the remote control key to detect. If the key works and the remote control key sends a signal, the device will emit a buzzing sound. The screen shows as follows. If the key does not work, the device will do nothing. To ensure that each button works properly, please test each button in turn.


Remote key test
48%
433MHz
Click any key to return
Return

7.Data record

7.1 Last test

The “Last Test” feature makes it easy for users to view the last under test record and help users quickly enter the last test work interface.

7.2 Data playback

“Data Playback” function allows users to view saved tire pressure system detection trouble codes.

8.System settings

Enter [System settings], the setup menu is displayed as follows：

Language: Set the operating language of the device

ID format: Set the ID display format to hexadecimal, decimal or automatic

Pressure unit: set the pressure unit to kPa, Psi or Bar

Temperature unit: set the temperature unit to Fahrenheit or Celsius

Distance unit: set the distance unit to km or miles

Tone settings: select to turn the tone on or off

Auto power off: set the system automatic shutdown time

Market: Users should set up European or American markets according to different regions. The data types of different markets are slightly different.

Screen brightness: increase or decrease screen brightness

9.Device Information

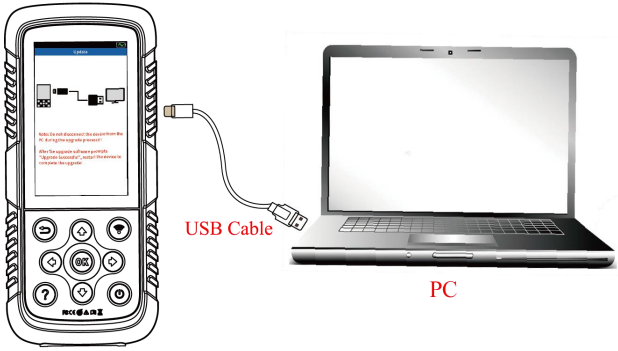
About

This function can view device information such as device serial number and software version.

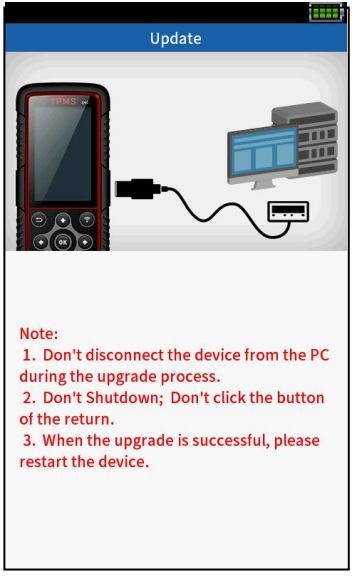
Update

Please update your device software on a Windows-based computer. Make sure your computer is connected and working. Update steps as follows:

1) Using the USB cable to connect the device to computer, show as picture:

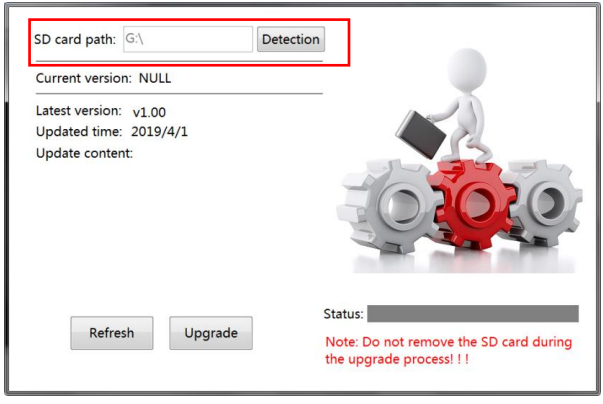


2) Open [Upgrade] in [Device Information] to enter the upgrade mode, show as below:



3) Please visit the website: http:// www. dajin-tech. com/ technical-support-and-update/, download the upgrade tool: QQR_PC_Updatetool.rar;

4) Unzip and running the upgrade tool and making sure the upgrade tool can recognize the SD card path normally, show as below:

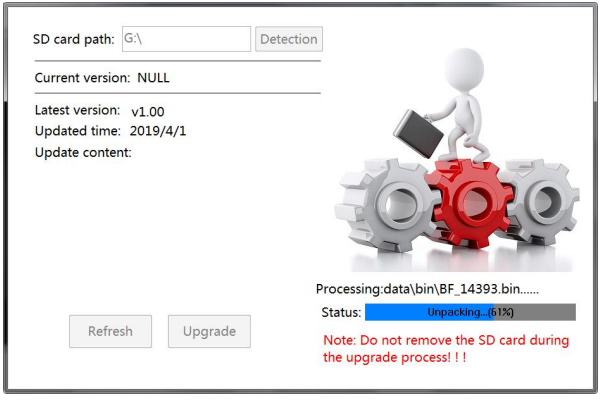


5) Click [Upgrade] to start the program upgrade.

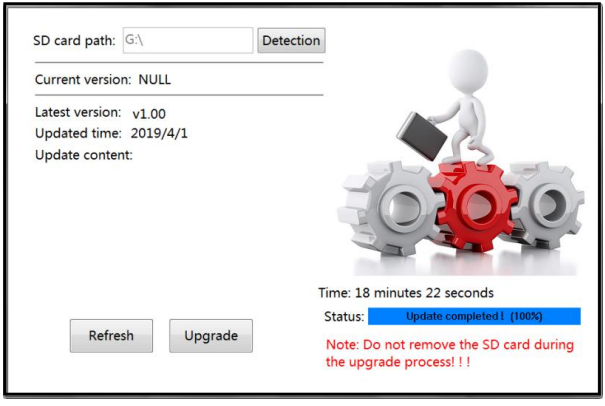
Note:

a. During the upgrade process, do not disconnect or remove the SD card, do not shut down or perform a return operation;

b. When upgrading, please turn off the anti-virus software on your computer.



6) Check the progress level on the right side. When "Update completed! (100%)" is displayed, complete the upgrade. After the upgrade is complete, restart the device.



Maintenance and maintenance storage environment

Storage environment

1) Store the matching instrument in a flat, dry, temperature-friendly place when not in use；

2）Do not place the matching device in direct sunlight or near a heating device；

3）Do not place the device within the magnetic field；

4）Do not place it where it is susceptible to smog or water or oil splashing；

5） Do not place in a location subject to vibration, dust, moisture or heat.

Host protection

1）Try to gently handle the device to avoid impact；

2） When connecting the test leads and the car diagnosis, carefully insert and remove the screws. When using, tighten the fastening screws to avoid damage to the interface during the movement. After use, loosen the screws and then unplug the main test leads to avoid damage to the diagnostic interface；

3） After using the device, put the test leads and other accessories back into the box to avoid losing.

Equipment maintenance

1） The surface of the screen will absorb dust due to static electricity. It is recommended to buy a special wiper for LCD screen to clean the screen of the main unit;

2） Do not wipe the dust with your fingers to avoid

fingerprints. Do not use chemical cleaners to wipe the device;

4） Do not use equipment such as banana water, engine cleaners, or gasoline to dissolve equipment;

5）When the device is dirty, please cut off the power, wring the soft damp cloth and wipe the surface of the case.

Warranty Clauses

Dear users,

Welcome to choose Q02 products. In order to use our product better, we warmly suggest you maintain your products well, and operate the products in accordance with User Manual whenever you use it. If your operating method is pursuant to this requirement, long-term quality service will be provided by your products.

1. After you are sure that the following terms and conditions are met and you have fulfilled your real information through the machine activation or user registration, you can enjoy the

maintenance service provided by our company if there are defects related to materials or workmanship on your products;

2. Please ensure that you have carefully read the warranty clauses of this product, otherwise, the registered complete information is deemed to you have accepted and agreed to the terms of this warranty;

3. Your product must be purchased from our product dealer. You have to bear the maintenance cost for your product if you buy the product through non-normal channels;

4. The following objects of the product is out of the warranty range: User Manual, items that are easy to wear and tear such as inner and outer package box;

5. After the date of purchase (according to the valid purchase certificate and valid warranty card of this product), if the products suffer performance failure caused by non-artificial factors, you can choose our maintenance services or replace the product in same model within one month. You can enjoy one year free warranty service for the main unit, main test line, connector and power adapter;

6. Free warranty service is unavailable if the products are in

any case as follows:

1) Failure, defect or flaw that is not caused by the quality of the products: including your operation is not according to the manual, improper operation of the product, crash, fall, disassembly by yourself, connection to improper accessories, damage owing to crash because of improper transport or storage, the erosion and corrosion that caused by infiltration of liquid or food;

2) Natural wear and tear of products: Including but not limited to cover, keypad, touch screen and accessories etc.

3) Product serial number of main unit and warranty serial number do not match, and product quality inspection tag or bar code is removed, altered or damaged;

4) Maintenance and modification without the approval of our company.

7. In case the product quality problem or failure occurs during the warranty period, you can take the following measures:

1) Perform self-check according to the product help information, if there is no hardware quality problem, please try to update the program of the product;

2) After you get the valid response of our company, you have to post your products to the address designated by our company for repairing and maintenance, otherwise, you will not get timely repairing and maintenance. You will be responsible for the loss of your products.

8. In the process of product warranty, you should bear relevant cost arising before posting your products to the places designated by our company: including costs for package, transportation, delivery and insurance, etc.

9. The free warranty service you are entitled to in accordance with the terms of this warranty is the only measure for the loss of the product due to product defect during the warranty period, our company shall not be liable for your direct or indirect loss;

10. All product warranty information, product features and specification changes will be posted on the latest promotional materials and web site without further notice.

www.dajin-tech.com

www.dajin-tech.com

Certification

This product has been inspected and certified to meet the company's quality standards.

Product name	**Q02**
Product serial number	
Date of production	
Inspector	

Warranty card

Product name	**Q02**
Product serial number	
Purchase date	

Company name: _____

User address: _____

Contact person: _____

Contact number: _____