

CE FCC RoHS  

Made In China

7100PRO

USER MANUAL

Two-in-One Scanners



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Product Introduction

Service Process

To prevent personal injury or unnecessary damage while using the tool, please read this Owner's Manual carefully first and observe at least the following safety precautions when using the vehicle:

- * Always perform vehicle testing in a safe environment.
- * Do not attempt to operate or observe tools while driving the vehicle, as it can cause to the operator and may result in a fatal accident.
- * Wear safety goggles that meet ANSI standards.
- * Keep clothing, hair, hands, tools, test equipment etc., away from all rotating or heated parts of the engine.
- * Operate the vehicle in a well-ventilated work area. Exhaust gases are toxic. Place a block in front of the drive wheels, and never leave the vehicle unattended during testing.
- * Be extra careful when working around the ignition coil, distributor cap, spark wires, and spark plugs. These components can produce dangerous voltages when the engine is running.
- * Place the transmission in P (for A/T) or N (for MT), and make sure the parking brake is engaged.
- * Have a suitable fire extinguisher for gasoline/chemical/electrical fires nearby.
- * Do not connect/disconnect any test equipment with the ignition switch on or the engine running.
- * Keep the diagnostic tools dry, clean, and free from oil/water or grease. When necessary, the exterior of the diagnostic tools with a neutral cleaner on a clean cloth.

Product Introduction

This manual is based on the product (T100PRO_V1.0.2).

T100PRO multi-functional scanner, integrating OBD II scanning and battery diagnosis functions. It supports special functions such as OBD annual inspection, cloud, DTC search, battery diagnosis, etc. Equipped with the latest generation of processors and ultra-large memory, it responds more quickly. Built-in more than 5,000 fault codes, applicable to all vehicles that comply with the OBD II protocol (with a vehicle type matching rate of up to 97%), it is professional-level diagnostic tool in the field of automotive maintenance.

Function:

- Read fault code
- Clear fault code
- I/M status
- ECU information
- Real-time data
- Oxygen sensor
- Component test
- In-vehicle monitoring test
- Freeze frame
- OBD inspection
- DTC lookup
- Cloud printing
- Battery testing
- Voltage waveform monitoring
- Troubleshooting guide
- Vehicle year identification

Supported Protocols:

- 1.ISO9141-2(5 baud init, 10.4 Kbaud)
- 2.SAE J1850 PWM (41.6 Kbaud)
- 3.SAE J1850 VPW (10.4 Kbaud)
- 4.ISO14230-4 KWP (5 baud init, 10.4 Kbaud)
- 5.ISO14230-4 KWP (fast init, 10.4 Kbaud)
- 6.ISO15765-4 CAN (11 bit ID, 500 Kbaud)
- 7.ISO15765-4 CAN (29 bit ID, 500 Kbaud)
- 8.ISO15765-4 CAN (11 bit ID, 250 Kbaud)
- 9.ISO15765-4 CAN (29 bit ID, 250 Kbaud)

Product Parameters:

Display	2.4-inch TFT color screen
Operating temperature	-10~85℃ (14~185°F)
Storage temperature	0~70℃ (32~158°F)
External	8~30V DC

Appearance Introduction

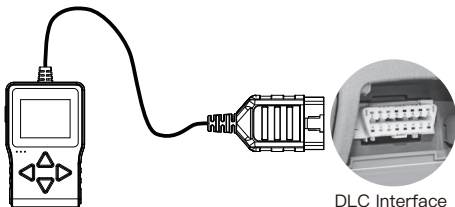


- 1). **Screen:**Displays menu and test results
- 2). **I/M Key:**Enter I/M status
- 3). **LED Indicator:**Fault indicator light
- 4). **ESC Key:**Exit or return to the previous level menu
- 5). **OK Key:**Confirm the required option
- 6). **Arrow Keys:**Used to move up and down or page through
- 7). **OBD II Connector:**Links scanner to vehicle's DLC
- 8). **TYPE-C:**Charge or upgrade

Car Diagnosis

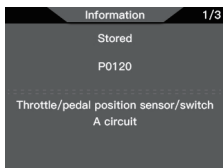
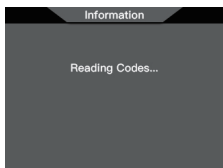
Connection Car

1. Turn off the ignition switch.
2. Find the 16-pin data link connector of the vehicle.
3. Plug the OBD II into the vehicle's DLC.
4. Turn on the ignition switch and the engine.
5. Select **【OBD】** to enter the interface on the main menu.



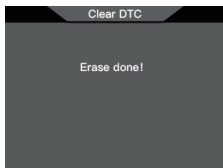
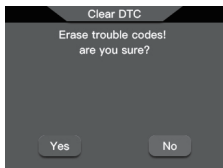
Read Fault Code

Select **【Read DTC】** to enter the interface, if there is a fault code, the screen will display the code and the red fault indicator will light, if multiple DTC fault codes are found, please use the **[▲][▼]** to page through and check all codes.



Clear Fault Code

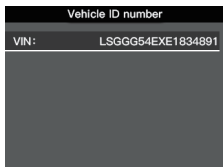
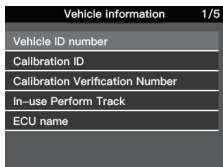
Before clearing the fault code, please inspect the vehicle according to the fault code prompt, and the vehicle inspection can be performed after the vehicle inspection is completed. Select **【Clear DTC】** , press the **[OK]** to continue, and the display is as follows:



Note: Clearing the fault code does not mean that the fault code in the ECU has been completely eliminated, as long as the vehicle is faulty, the fault will continue to appear.

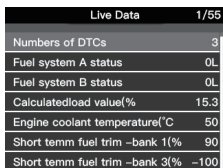
ECU Information

Select **【ECU info】** to enter the interface, there are **【Vehicle ID number】**、**【Calibration ID】**、**【Calibration Verification Number】**、**【In-use Perform Track】**、**【ECU name】** to choose, enter to view information.



Live Data

【Live Data】 displays real-time vehicle PID data, all supported data will be displayed, you can quickly browse by pressing the **【▲】****【▼】**, or you can select custom data for comparison. Select **【Live Data】** to enter the interface, there are **【Review Data】** , **【Record Data】** , **【Replay Data】** , **【Unit of Measure】** to select.



Freeze Frame

Select **【Freeze】** to enter the interface, view vehicle operating parameters when DTC is detected, and you can quickly browse by pressing the **[▲][▼]**.

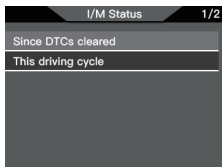


Freeze 1/55	
DTC_CNT	3
FUELSYSA	0L
FUELSYSB	0L
LOAD_PCT(%)	15.3
ECT(°C)	50
SHRTFT1(%)	90
SHRTFT3(%)	-100

I/M Status

【I/M Status】 function is used to check the operation of the emission system on vehicles that comply with OBD II. It is a splendid function to whether the vehicle complies with national emission testing. You can select the **【Since DTCs cleared】** and **【This driving cycle】** . You can also set the I/M key to check in one key.

Select **【I/M Status】** , press the **[OK]** to continue, and the display is as follows:



Since DTCs cleared 1/11	
MIL	OFF
MIS	OK
FUEL	OK
CCM	OK
CAT	INC
HCAT	N/A
EVAP	N/A

Oxygen Sensor

The Oxygen Sensor are tested to identify problems related to fuel efficiency and vehicle emissions. The Oxygen Sensor test does not support CAN communication protocol, CAN communication protocol vehicles can be tested in **【Mode 6】** .

Select **【O2 Sensor】** and ensure the ignition switch is in the ON position, the vehicle is powered on but not, select O2 bank1 sensor 1, select enter the threshold display interface:

O2 monitor test		1/4
O2 bank1 sensor1		
O2 bank1 sensor2		
O2 bank1 sensor3		
O2 bank2 sensor1		

Threshold		1/5
Test value		0000
Min Limit		-----
Max Limit		-----
Status		-----
Unit		V

In-Vehicle Monitoring Test

After repair or clearing of trouble codes, the vehicle monitor test is useful, the tool allows access to the vehicle monitor test results of specific components, vehicle manufacturers responsible for assigning MID, CID, used to test different systems and components.

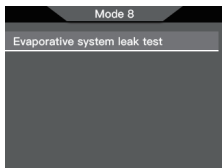
Select **【Mode 6】** , press the [OK] to continue, the display changes follows:

Mode 6		1/3
Oxygen sensor monitor bank 1 sensor 1		
Oxygen sensor monitor bank 2 sensor 2		
Test \$14 Data		

\$84 Test		1/4
Test value		4096
Min Limit		-----
Max Limit		-----
Status		OK

Component Test

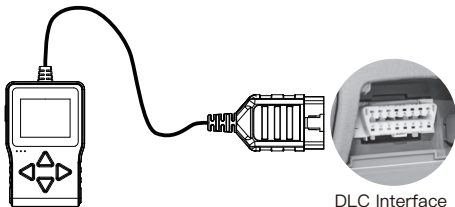
Select **【Mode 8】** to enter the interface, which can perform evaporative system leak test.



Battery Test

Connect the Battery

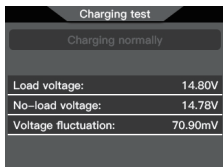
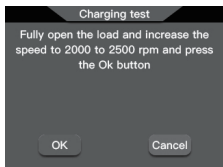
1. Turn off the ignition switch.
2. Find the 16-pin data link connector of the vehicle.
3. Plug the OBD II into the vehicle's DLC.
4. Turn on the ignition switch and the engine.
5. Select **【Battery】** to enter the interface on the main menu.



DLC Interface

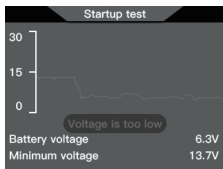
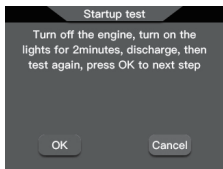
Charging Test

Select **【Charging test】** and press [OK], press [OK] according to the prompt to quickly detect the state of the battery.



Startup Test

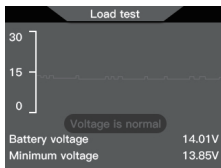
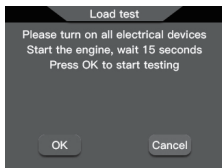
Select **【Startup test】** and press [OK], start the engine according to the prompt, and wait for the device to analyze the results of the current battery start.



Load Test

The load test can record the voltage fluctuations of the car when the load is turned on and off in real time, and can accurately judge the health status of the battery.

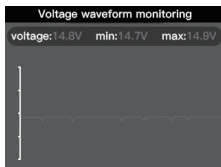
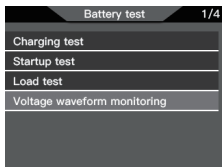
Select **【Battery test】** → **【Load test】** , enter the function and operate according to the screen prompts, view the test results:



Voltage Waveform Monitoring

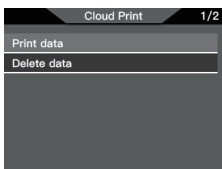
【Voltage waveform monitoring】 can monitor the voltage status of our battery in real time.

Select **【Battery test】** → **【Voltage waveform monitoring】** , **[OK]** to confirm and view the test results.



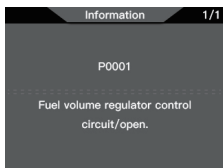
Cloud Print

Cloud Print can print the results of the inspection wirelessly. Select **【Cloud Print】** , press **[OK]** to select **【Print data】** , operate according to the prompts, and finally select **【QR Code】** interface will display the QR code, scan the QR code with your cell phone to display the test data, and then convert the data into PDF format to connect to the printer to print out, The display is as follows:



DTC Lookup

Select **【DTC Lookup】** , follow the prompts on the screen to operate, enter the fault code and press **[OK]** to confirm, can quickly find the corresponding problem of the fault code.



Setup

Language

Enter **【Setup】** , select **【Language】** , and set the language as needed.

Units of Measurement

Enter **【Setup】** , select **【Units of Measurement】** , you can choose between metric or imperial units.

Tool Self-Check

Enter **【Setup】** , select **【Tool Self-Check】** and then test the display, keyboard, LED according to your needs.

About

Enter **【Setup】** , select **【About】** to view the current system version number.

Update Mode

Enter **【Setup】** , select **【Update Mode】** , and then use USB to update the instrument.

Select ECU

Enter **【Setup】** , select **【Select ECU】** , wait for recognition to complete, then you can select the ECU.

Warranty & Service

One Year Warranty

Our company promises to provide warranty service for 1 year from the date of original purchase, if the product is purchased from an official source, the following conditions must be met:

1) The warranty is limited to repair or replacement of new equipment at no additional cost, provided that the official sales invoice or a copy of the invoice is provided.

2) The warranty does not cover the unauthorized disassembly of this product due to flooding lightning strikes, or outside repair shops not authorized by the company, the personnel have repaired it and considered damage caused by improper use.

3) Our company is not responsible for any damages caused by use, misuse or installation and testing. Some countries limitations on the duration of implied warranties are not allowed, so the above limitations may not apply to you.

4) All information in this manual is based on the latest and effective information at the time of publication, and there is no guarantee of its accuracy or completeness, our company reserves the right to make changes at any time without notice.

Service Process

If you have any questions in the process of using this product, please contact your local authorized distributor directly, or visit our official website for consultation.

For repairs or returns, please contact the dealer or contact your sales representative directly.