

1. Product Introduction

V519 Plus is a multi-functional vehicle fault diagnosis instrument that supports nine OBD II/EODB standard protocols. It supports plug and play, can quickly read the vehicle fault information and vehicle parameters. It is a more comprehensive fault diagnosis instrument. Please read the product manual carefully before using this product. Thank you.

2. Notes

- ⚠️ **1)** Do not use abrasive cleaners to clean this product
- ⚠️ **2)** Do not allow this product to be heated or close to fire sources
- ⚠️ **3)** Do not expose the product to direct sunlight for a long time
- ⚠️ **4)** Do not attempt to disassemble this product to make any modifications
- ⚠️ **5)** Do not use this product in rain
- ⚠️ **6)** Store in a dry environment to avoid extreme temperatures and dust

3. Product Appearance and Function Keys



3.1 Button Description

- 1. Connection Line:** Connect vehicle OBD
- 2. Display Screen:** 2.8" 240×320
- 3. Quick Read:** Read fault code
- 4. I/M Ready:** I/M shortcut
- 5. Back/Exit:** Return/exit
- 6-9. Direction:** Up/down/left/right
- 10. Confirmation:** Confirm
- 11. Code Read ●:** Indicator
- 12. Failed ●:** Indicator
- 13. Success ●:** Indicator

4.1 Product Parameters

Working Voltage	DC 9-16V
Operating Environment	-20 to 60°C
Storage Temperature	-20 to 60°C
Dimensions	155 × 87 × 24 mm

4.2 Product Fittings

- Main Unit × 1
- Instructions × 1

4.3 Support Agreements (9 Protocols)

- ☑️ 1. SAE J1850 PWM (41.6Kbaud)
- ☑️ 2. SAE J1850 VPW (10.4Kbaud)
- ☑️ 3. ISO 9141-2 (5 baud init, 10.4Kbaud)
- ☑️ 4. ISO 14230-4 KWP (5 baud init)
- ☑️ 5. ISO 14230-4 KWP (fast init)
- ☑️ 6. ISO 15765-4 CAN (11bit, 500K)
- ☑️ 7. ISO 15765-4 CAN (29bit, 500K)
- ☑️ 8. ISO 15765-4 CAN (11bit, 250K)
- ☑️ 9. ISO 15765-4 CAN (29bit, 250K)

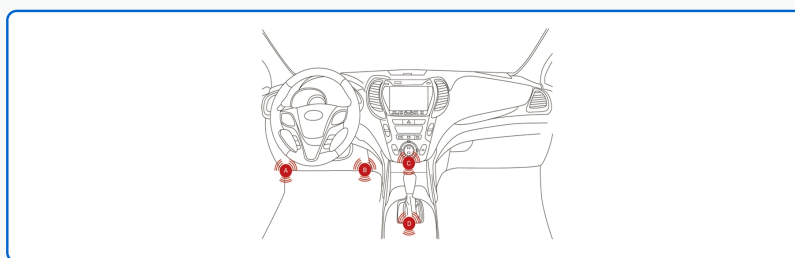
4.4 Main Functions (14 Functions)

- ① 9 OBD II/EODB protocols
- ② Read fault code
- ③ Clear fault code
- ④ Freeze frame
- ⑤ I/M ready state
- ⑥ Vehicle information
- ⑦ Data flow
- ⑧ Battery voltage
- ⑨ Mode 6 detection
- ⑩ Oxygen sensor test
- ⑪ Mode 8 detection
- ⑫ Fault code query
- ⑬ Playback function

Ⓜ **Languages:** English, German, French, Spanish, Italian, Russian, Dutch, Chinese, Japanese, Portuguese

5. Automobile Inspection

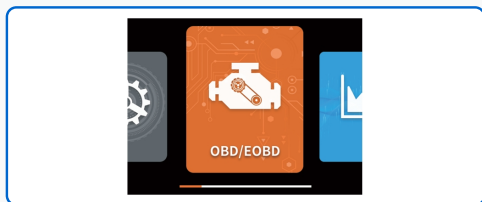
Find the OBD interface (usually in lower left dashboard, above accelerator). Start vehicle after insertion.



Various locations

6.1 Test Main Menu

After connecting vehicle, select "Diagnosis" menu, press OK. 9 test functions available, use direction keys to navigate.



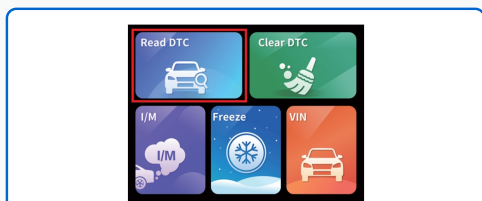
Select Diagnosis



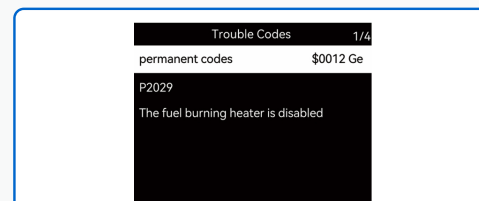
Functions to select

6.1.1 Code Reading

Select code reading to diagnose engine system. Reads fault codes and definitions. Use direction keys to navigate multiple codes. Press OK/EXIT to return.



Select function



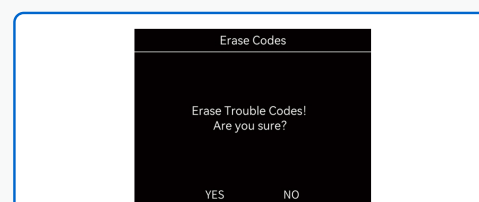
View definitions

6.1.2 Clear Code

Select "Clear Code" for confirmation message. After confirming, fault light will turn off. If fails, clear when engine is powered off.



Select function



Choose to proceed

6.1.3 I/M Ready State

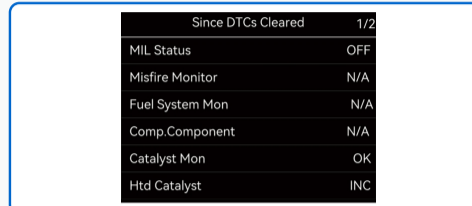
Check car monitor status: OK/INC/N/A during specific driving conditions.

Status:

- **OK** = monitoring complete
- **INC** = not completed
- **N/A** = not supported



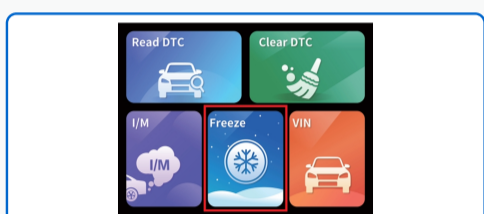
Select



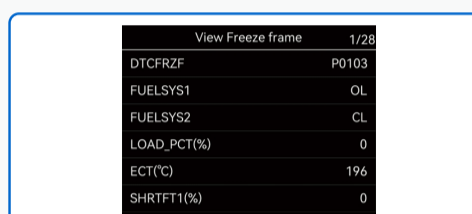
View Detail List

6.1.4 Freeze Frame

Snapshot data automatically recorded when emission system has fault code. Helps determine fault cause.



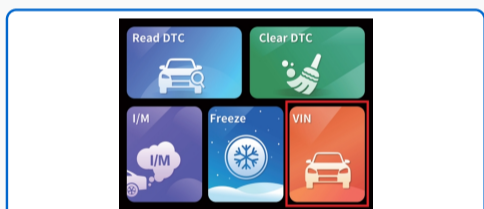
Select



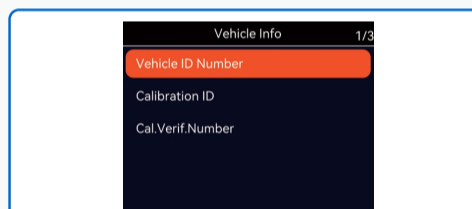
Fault data

6.1.5 Vehicle Information

View vehicle identification code and other information.



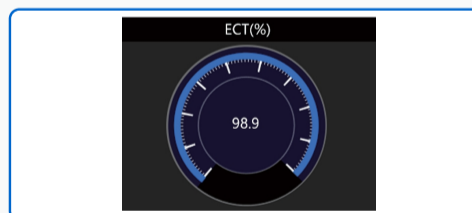
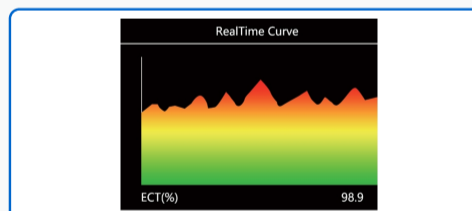
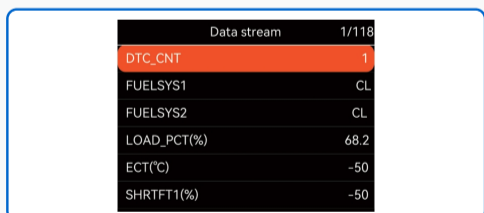
Select



View info

6.1.6 Data Stream

After entering data stream, product reads current real-time engine data stream information.

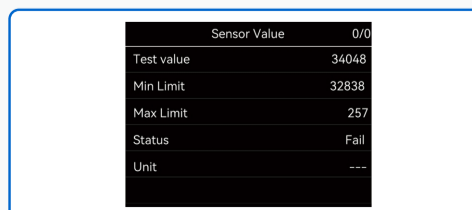
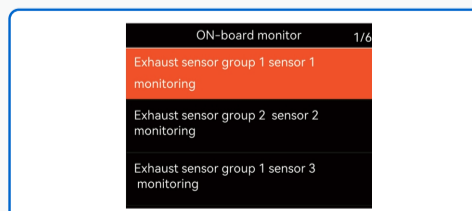
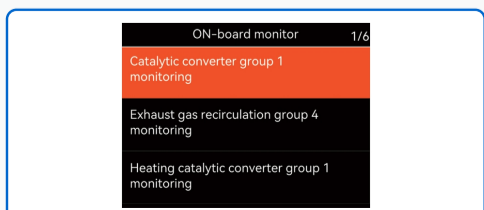


6.1.7 Mode 6

Select Mode 6 to enter on-board monitoring test. View sensor monitoring interface data.

Mode 6 Features:

- On-board monitoring test results
- Real-time monitoring data
- Sensor monitoring interface



6.1.8 Oxygen Sensor Test

When entering oxygen sensor test, reads O2 sensor values to determine if test data is normal.

The workflow for the Oxygen Sensor Test consists of four steps:

- Select:** The main menu shows 'Live Data', 'Mode 6', 'O2 Sensor', and 'Mode 8'. 'O2 Sensor' is highlighted.
- Select Sensor:** The 'O2 Monitor Test' screen shows a list of sensors: 'O2 bank1 sensor1', 'O2 bank1 sensor2', 'O2 bank2 sensor1', 'O2 bank2 sensor2', 'O2 bank3 sensor1', and 'O2 bank3 sensor2'. 'O2 bank1 sensor1' is selected.
- Select threshold:** The 'O2 bank1 sensor1' screen shows a list of thresholds: 'Rich-lean threshold', 'Lean-rich threshold', 'Low for Switch', 'High for Switch', 'Rich-lean threshold', and 'Lean-rich threshold'. 'Rich-lean threshold' is selected.
- View data list:** The 'Rich-lean threshold' screen shows test results:

Rich-lean threshold	0/0
Test value	0.500
Min Limit	0.250
Max Limit	0.000
Status	Fail
Unit	V

6.1.9 Mode 8

Mode 8 component test project. Test specific vehicle components and systems.

Mode 8 Features:

- Component test projects
- System verification tests
- Professional diagnostics

The workflow for Mode 8 consists of two steps:

- Select test:** The main menu shows 'Live Data', 'Mode 6', 'O2 Sensor', and 'Mode 8'. 'Mode 8' is highlighted.
- Run diagnostics:** The 'Component Test' screen shows a list of tests: 'Evaporative system leak test'. This test is selected.

6.2 Query the Fault Code Library

Enter query fault code option, use direction keys to adjust fault code. Select "OK" to query fault definition.

The workflow for querying the Fault Code Library consists of two steps:

- Select:** The 'DTC Lib' screen is shown.
- Input code:** The 'DTC Lookup' screen shows the code 'P0000' and navigation options: 'Left/Right', 'Change Digit', and 'Confirm'.

6.3 Playback

Enter playback option to view fault code playback record and data stream playback record. Review historical diagnostic data.

Playback Features:

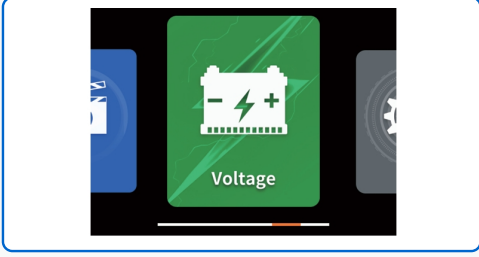
- Fault code playback record
- Data stream playback record
- Historical data comparison

The workflow for Playback consists of two steps:

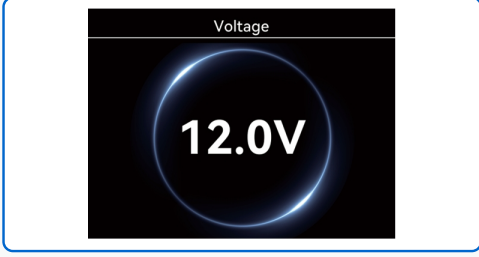
- Select:** The main menu shows 'Review' highlighted.
- Review:** The 'Review' screen shows options: 'Review DTC' and 'Review Data stream'.

6.4 Voltage

Enter voltage option to read current battery voltage data of detected vehicle.



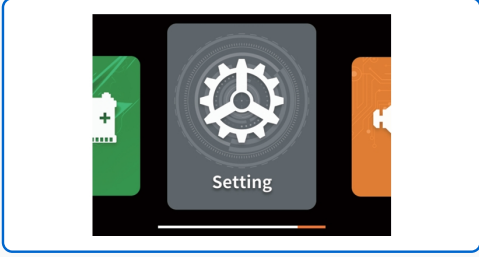
Select function



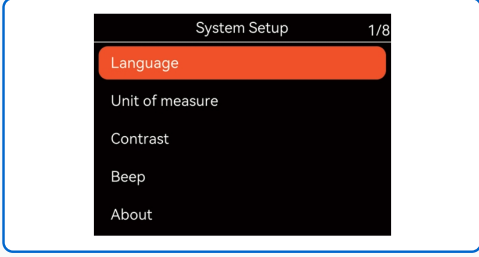
View voltage

6.5 Settings

Enter setting option to adjust language, unit and other product parameter settings.



Configuration



Adjust settings

Available Settings:

- Language (10)
- Unit selection
- Parameter config

7. Notes

The product is not compatible with new energy vehicles, hybrid vehicles, and vehicle types that do not conform to OBD2 agreement.

8. Disclaimer

We are committed to providing customers with unparalleled customer support before and after sales. Here are our exemption conditions for products:

If any of the following conditions are met, the customer shall not enjoy the policy within the scope of this limited warranty:

a) Abnormal Use: Abnormal use, abnormal conditions, improper storage, exposure to humidity or unauthorized modification, misuse, negligence, abuse, accident, change, improper installation or other non fault behaviors, including damage caused by transportation.

b) External Damage: Our company will not be responsible for the product damage caused by external reasons (such as collision with objects) or fire, flood, sand, dust, storm, lightning, earthquake or weather conditions, acts of God irresistible or battery leakage, theft, fuse breaking, incorrect use of any power supply.

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