V519

USER MANUAL

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1.Product introduction

V519 is a multi-functional vehicle fault diagnosis instrument that supports nine OBD II/EOBD 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, as it does not contain any repair components.
5) Do not use this product in rain.
6) If you do not plan to use this product for a long time, please store it in a dry environment to avoid extreme temperatures and dust.

3.Introduction to product appearance and function keys

3.1 Product Description

1—Product connecting line, used to connect vehicle OBD interface
2—2.8 inch color display screen, resolution： 240*320
3—Read the current fault code quickly

4—I/M ready state
5 —Back/Exit
6/7/8/9—Up, down, left and right buttons
10—Confirmation
11—Software upgrade/printing interface
12 - The fault code is read
13 - The connection fails
14 - The connection is successful

4.Product parameters and accessories

4.1 Product parameters

- Working voltage: DC12-16V
- Operating current: 48~72mA
- Operating environment: －20～65℃
- Storage temperature: －30～70℃
- Overall dimensions: 155*87*24mm

4.2 Product fittings

fittings host *1 Instructions *1

4.3 Support Agreements

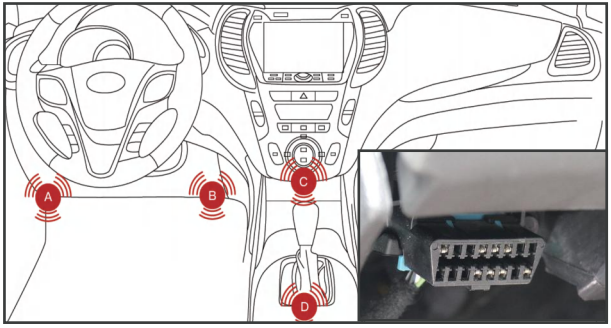
1. SAE J1850 PWM (41.6Kbaud)
2. SAE J1850 VPW (10.4Kbaud)
3. ISO 9141-2(5 baud init, 10.4Kbaud)
4. ISO 14230-4 KWP (5 baud init, 10.4 Kbaud)
5. ISO 14230-4 KWP (fast init, 10.4 Kbaud)
6. ISO 15765-4 CAN (11bit ID, 500 Kbaud)
7. ISO 15765-4 CAN (29bit ID, 500 Kbaud)
8. ISO 15765-4 CAN (11bit ID, 250 Kbaud)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

4.4 Main fuctions

① Support nine OBD II/EOBD standard protocols	⑧ Battery voltage reading
② Read the automobile engine fault code	⑨ Mode 6 detection
③ Clear engine fault code	⑩ Oxygen sensor test
④ Vehicle fault freeze frame	⑪ Mode 8 detection
⑤ I/M ready state	⑫ Fault code query
⑥ Vehicle information	⑬ Playback function
⑦ Automobile data flow	⑭ Print function
⑮ Support ten languages: English, German, French, Spanish, Italian Russian, Dutch, Chinese, Japanese, Portuguese	

5. Automobile inspection

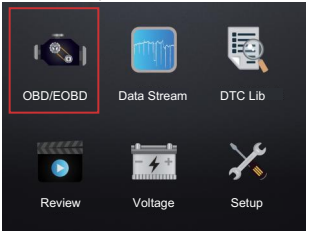
Find the special OBD interface for cars. The positions of OBD interfaces of different models are different (usually located in the inner panel at the lower left of the instrument panel, that is, above the accelerator pedal. For other models, see the figure below)
Start the vehicle after insertion

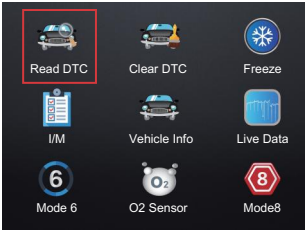


6.Menu Page Introduction

6.1 Test main menu

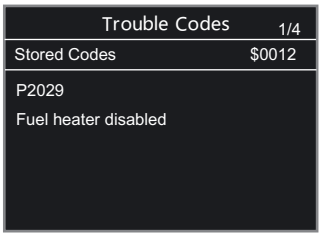
After connecting the vehicle, enter the main page, select the "Diagnosis" menu, and press the OK key to enter the test function page. This menu has 9 test functions, and you can use the direction function keys to move and select





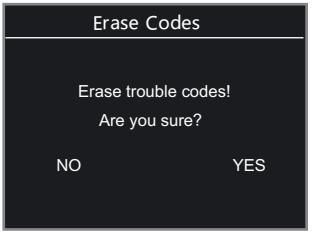
6.1.1 Code reading

- Select the code reading function, and the product will diagnose the automobile engine system
- If the vehicle has engine fault, the engine fault code and fault definition will be read
- If there are multiple fault codes, you can use the up, down, left and right buttons to turn pages
- Press OK/EXIT to return



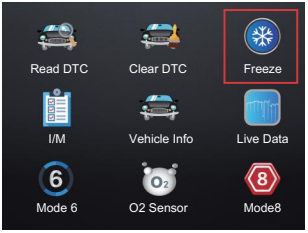
6.1.2 Clear code

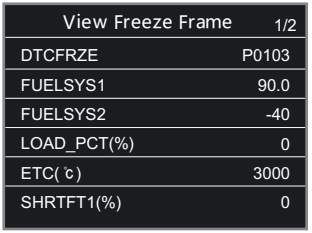
- Select “Clear Code” and a confirmation message will appear. After confirming that the fault code is cleared, the vehicle engine fault light
- will go out and the code is cleared successfully
  If the clearing fails, it can be cleared when the engine is powered off



6.1.3 Freeze frame

- Freeze frame refers to the snapshot data automatically recorded by the automobile computer when the emission system has a fault code, which is a good function to help determine the cause of the fault





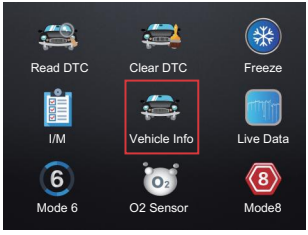
6.1.4 I/M ready state

- The I/M ready function is used to check whether the car monitor is OK or N/A. During specific driving time (each monitor has specific driving conditions and required time
- OK means the monitoring test is completed
- INC indicates that the vehicle has not completed monitoring
- N/A means that the modified vehicle does not support this monitoring

Since DTCs Cleared	
MIL Status	OFF
Misfire Monitor	OK
Fuel System Mon	OK
Comp Component	OK
Catalyst Mon	OK
Htd Catalyst	OK

6.1.5 Vehicle information

- The vehicle identification code and other information can be viewed after entering the vehicle information



Vehicle Info	1/3
Vehicle ID Number	
Calibration ID	
Cal. Verif. Number	

6.1.6 Data stream

- After entering the data stream, the product will read the current real-time data stream information of the automobile engine

Data Stream	1/117
DTC_CNT	1
DTCFRZF	P00012
FUELSYS1	CL
FUELSYS2	CL
LOAD_PCT(%)	68.2
ETC(℃)	-50

6.1.7 Mode 6

- Select mode 6 to enter on-board monitoring test

ON-board monitor	1/18
Exhaust gas sensor monitor bank 1-sensor 1	
Exhaust gas sensor monitor bank 1-sensor 2	
Exhaust gas sensor monitor bank 1-sensor 3	

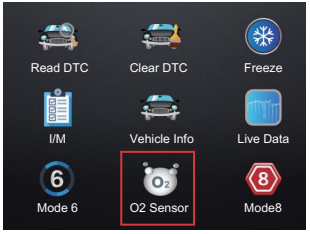
- Enter the sensor monitoring interface

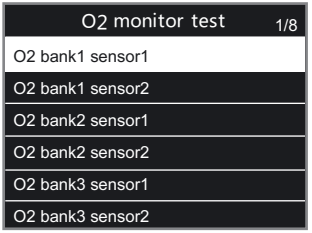
Sensor monitor	1/6
No support Test Id 129	
No support Test Id 255	
Rich to lean sensor threshold voltage (constant)	

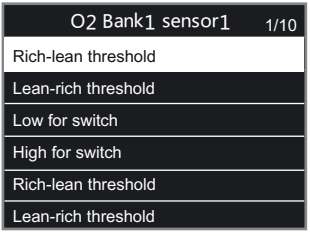
Sensor value	0/0
Test value	34048
Min Limit	32838
Max Limit	257
Status	Fail
Unit	---

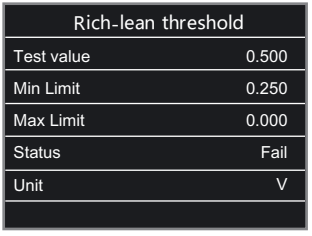
6.1.8 Oxygen sensor test

- When entering the oxygen sensor test item, the oxygen sensor value of the tested vehicle will be read to determine whether the various test data are normal



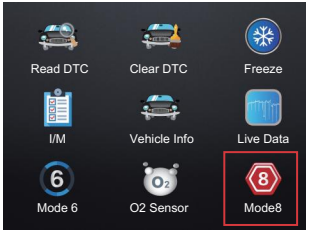


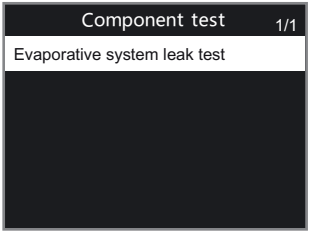




6.1.9 Mode 8

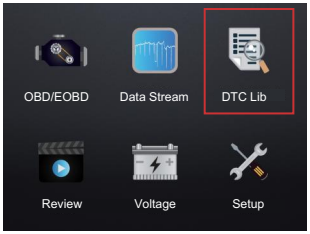
- Mode 8 component test project

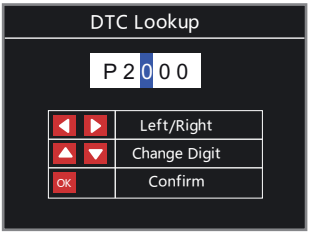




6.2 Query the fault code library

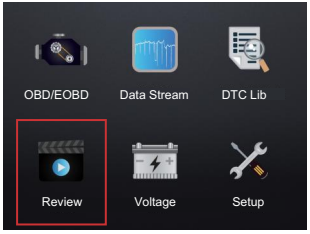
- Enter the query fault code option, the user can use the direction keys to adjust the fault code, turn to the fault code to be queried and select "OK" to query the fault definition

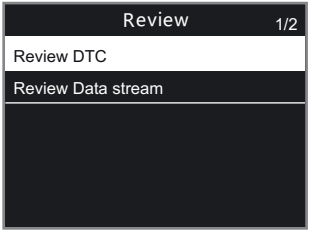




6.3 Playback

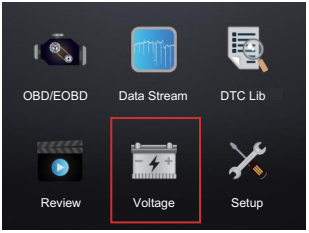
- Enter the playback option to view the fault code playback record and data stream playback record

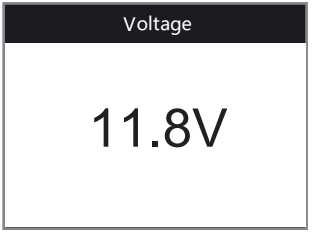




6.4 Voltage

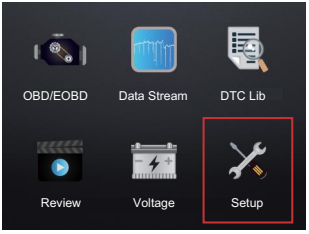
- Enter the voltage option to read the current battery voltage data of the detected vehicle

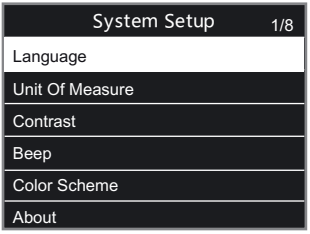




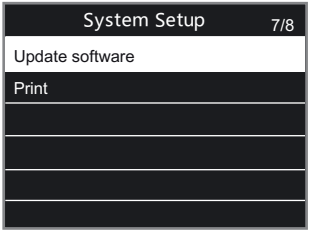
6.5 Settings

- Enter the setting option to adjust the language, unit and other settings of multiple product parameters





6.5.1 Software upgrade



- Software Upgrade Procedure

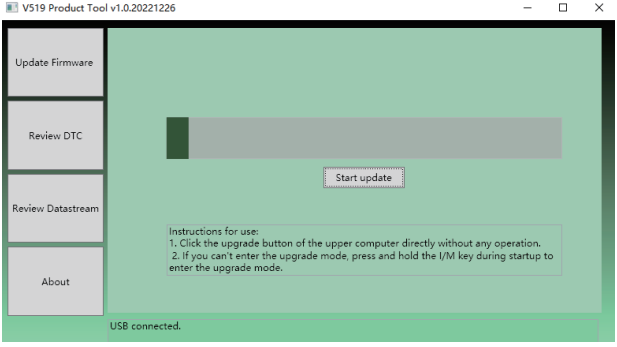
1）Log in to “elm327. com” to download “V519ProductTool”

2) After successful download, use Type-C data cable to connect the product and computer

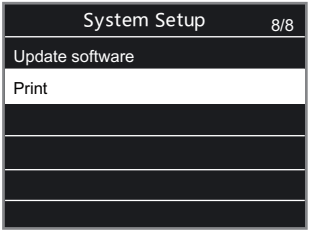
3）Double click to run “V519ProductTool”

4）Select Update Firmware

5）Select “Start update” and wait until the upgrade is successful



6.5.2 Print



- Software Upgrade Procedure

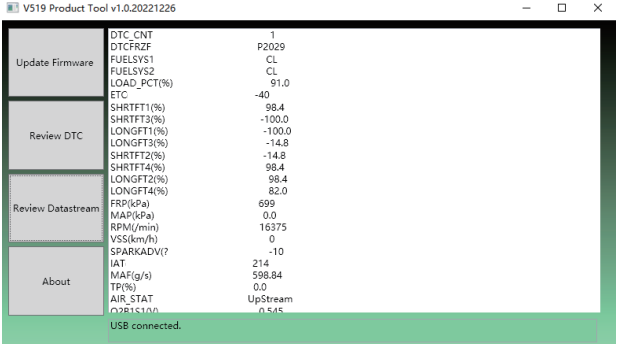
1）Log in to “elm327. com” to download “V519ProductTool”

2) After successful download, use Type-C data cable to connect the product and computer

3）Double click to run “V519ProductTool”

4）Select “Review Datastream”

5) After successful reading, the vehicle data stream information will be displayed, which can be copied for printing



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 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) 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.