

V519



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

Product parameters

Working voltage:DC12-16V

Operating current:48~72mA

Operating environment:-20~65°C

Storage temperature:-30~70°C
 Overall dimensions:155*87*24mm

Product fittings

fittings host *1 Instructions *1

Support Agreements:

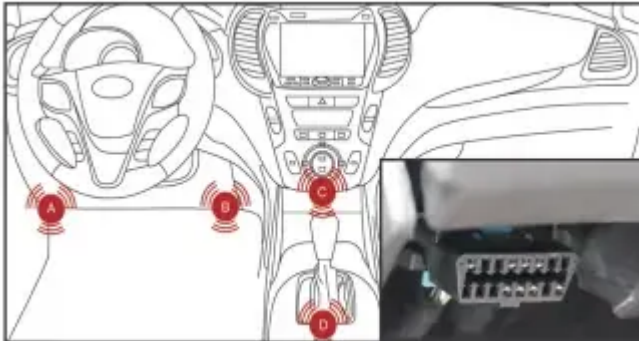
1. SAE J1850 PWM (41.6Kbaud)
2. SAE J1850 VPW (10.4Kbaud)
3. ISO 9141-2 (5 baud init, 10.4Kbaud)
4. ISO 14230-4 KWP (5 baud init, 10.4 Kbaud)
5. ISO 14230-4 KWP (fast init, 10.4 Kbaud)
6. ISO 15765-4 CAN (11bit ID, 500 Kbaud)
7. ISO 15765-4 CAN (29bit ID, 500 Kbaud)
8. ISO 15765-4 CAN (11bit ID, 250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

Mainfuctions

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

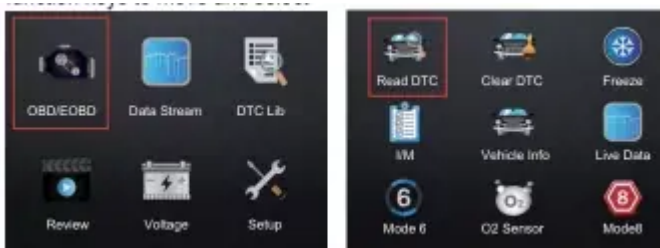
Find the special OBD interface for cars. The positions of OBD interfaces of different models are different (usually located in the inner panel at the lower left of the instrument panel, that is, above the accelerator pedal. For other models, see the figure below) Start the vehicle after insertion.



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.



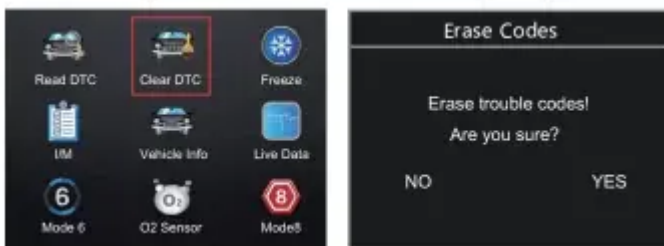
6.1.1 Code reading

- 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.

Trouble Codes	1/4
Stored Codes	\$0012
	P2029
	Fuel heater disabled

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

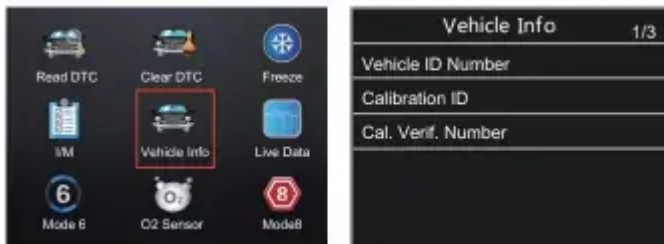
The I/M ready function is used to check whether the car monitor is OK or NA. During specific driving time, each monitor has specific driving conditions and required time. OK means the monitoring test is completed. INC indicates that the vehicle has not completed monitoring. NA

means that the modified vehicle does not support this monitoring.



6.1.5 Vehicle information

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



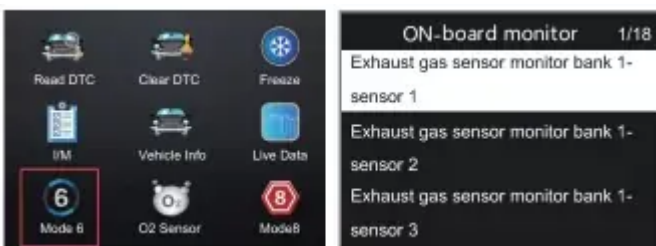
6.1.6 Data stream

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



6.1.7 Mode 6

- Select mode 6 to enter on-board monitoring test.



- 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.

	<table border="1"> <thead> <tr> <th>O2 monitor test</th> <th>1/8</th> </tr> </thead> <tbody> <tr><td>O2 bank1 sensor1</td></tr> <tr><td>O2 bank1 sensor2</td></tr> <tr><td>O2 bank2 sensor1</td></tr> <tr><td>O2 bank2 sensor2</td></tr> <tr><td>O2 bank3 sensor1</td></tr> <tr><td>O2 bank3 sensor2</td></tr> </tbody> </table>	O2 monitor test	1/8	O2 bank1 sensor1	O2 bank1 sensor2	O2 bank2 sensor1	O2 bank2 sensor2	O2 bank3 sensor1	O2 bank3 sensor2												
O2 monitor test	1/8																				
O2 bank1 sensor1																					
O2 bank1 sensor2																					
O2 bank2 sensor1																					
O2 bank2 sensor2																					
O2 bank3 sensor1																					
O2 bank3 sensor2																					
<table border="1"> <thead> <tr> <th>O2 Bank1 sensor1</th> <th>1/10</th> </tr> </thead> <tbody> <tr><td>Rich-lean threshold</td></tr> <tr><td>Lean-rich threshold</td></tr> <tr><td>Low for switch</td></tr> <tr><td>High for switch</td></tr> <tr><td>Rich-lean threshold</td></tr> <tr><td>Lean-rich threshold</td></tr> </tbody> </table>	O2 Bank1 sensor1	1/10	Rich-lean threshold	Lean-rich threshold	Low for switch	High for switch	Rich-lean threshold	Lean-rich threshold	<table border="1"> <thead> <tr> <th>Rich-lean threshold</th> <th></th> </tr> </thead> <tbody> <tr> <td>Test value</td> <td>0.500</td> </tr> <tr> <td>Min Limit</td> <td>0.250</td> </tr> <tr> <td>Max Limit</td> <td>0.000</td> </tr> <tr> <td>Status</td> <td>Fail</td> </tr> <tr> <td>Unit</td> <td>V</td> </tr> </tbody> </table>	Rich-lean threshold		Test value	0.500	Min Limit	0.250	Max Limit	0.000	Status	Fail	Unit	V
O2 Bank1 sensor1	1/10																				
Rich-lean threshold																					
Lean-rich threshold																					
Low for switch																					
High for switch																					
Rich-lean threshold																					
Lean-rich threshold																					
Rich-lean threshold																					
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.

	<table border="1"> <thead> <tr> <th>Component test</th> <th>1/1</th> </tr> </thead> <tbody> <tr> <td>Evaporative system leak test</td> <td></td> </tr> </tbody> </table>	Component test	1/1	Evaporative system leak test	
Component test	1/1				
Evaporative system leak test					

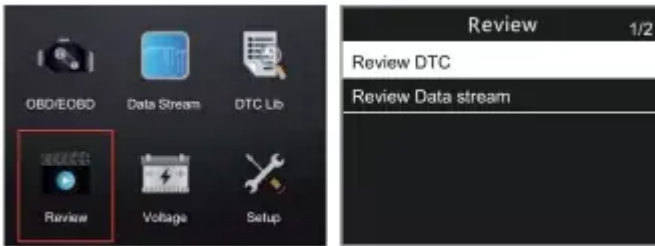
6.2 Query the fault code library

- 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.



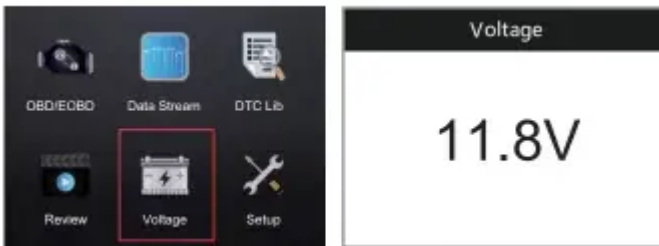
6.3 Playback

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



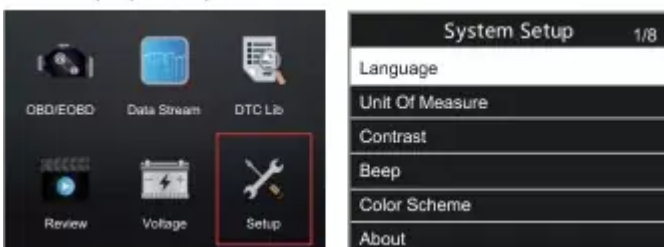
6.4 Voltage

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

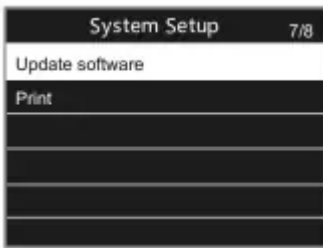


6.5 Settings

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

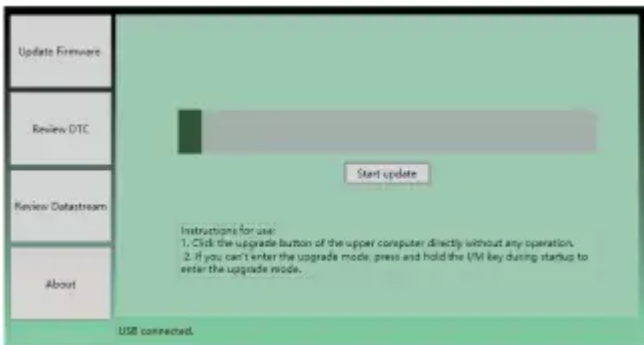


6.5.1 Software upgrade

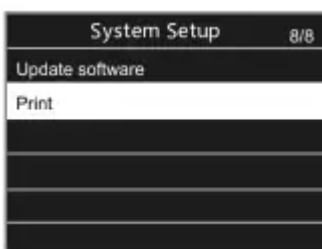


Software Upgrade Procedure

- 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

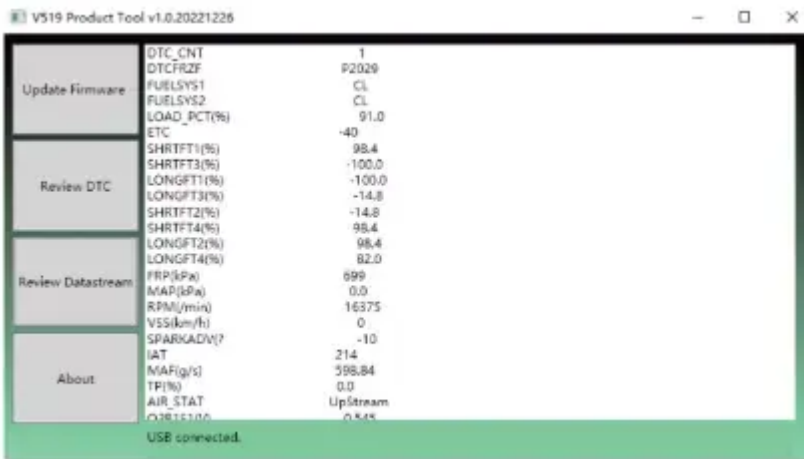


6.5.2 Print



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.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.