

1. Product Introduction

V519 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 Product Description

- 1. Connection Line:** Connect OBD
- 2. Display:** 2.8" 240×320
- 3. Quick Read:** Read fault
- 4. I/M Ready:** I/M state
- 5. Back/Exit:** Return
- 6-9. Direction:** Up/down/L/R
- 10. Confirmation:** Confirm
- 11. Upgrade/Print:** Type-C port
- 12. Code Read ●:** Indicator
- 13. Failed ●:** Indicator
- 14. Success ●:** Indicator

4.1 Product Parameters

Working Voltage	DC 9-16V
Operating Current	48-72mA
Operating Environment	-20 to 65°C
Storage Temperature	-30 to 70°C
Dimensions	155 × 87 × 24 mm

4.2 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)

4.3 Product Fittings

- Host × 1
- Instructions × 1

4.4 Main Functions (15 Functions)

- ① 9 OBD II/EODB protocols
- ⑧ Battery voltage
- ② Read fault code
- ⑨ Mode 6 detection
- ③ Clear fault code
- ⑩ Oxygen sensor test
- ④ Freeze frame
- ⑪ Mode 8 detection
- ⑤ I/M ready state
- ⑫ Fault code query
- ⑥ Vehicle information
- ⑬ Playback function
- ⑦ Data flow
- ⑭ Print function

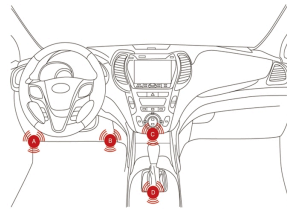
⑮ **Languages:** English, German, French, Spanish, Italian, Russian, Dutch, Chinese, Japanese, Portuguese

Exclusive Print Feature:

Connect to PC via Type-C port, download V519ProductTool from elm327.com, print data stream and diagnostic reports

5. Automobile Inspection

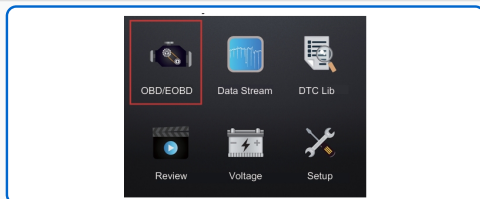
Find the OBD interface (usually in lower left dashboard, above accelerator). Start vehicle after insertion.



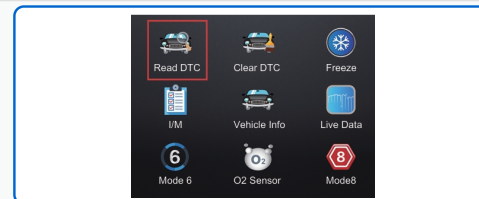
Various locations

6.1 Test Main Menu

After connecting vehicle, select "Diagnosis" menu, press OK. 9 test functions available.



Diagnostic functions



Diagnostic functions

6.1.1 Code Reading

Example Display:

Diagnose engine system. Reads fault codes. Use direction keys for multiple codes.

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

```

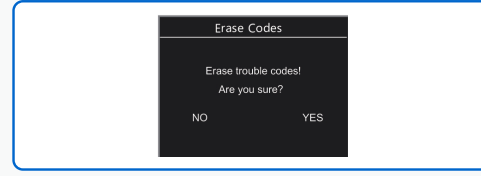
Trouble Codes 1/4
Stored Codes $0012
P2029
Fuel heater disabled
    
```

6.1.2 Clear Code

Confirmation message appears. After confirming, fault light turns off. If fails, clear when engine off.



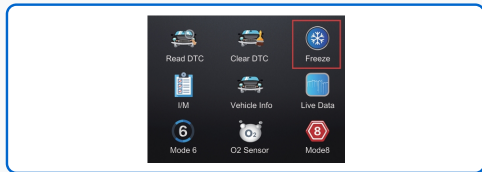
Confirm



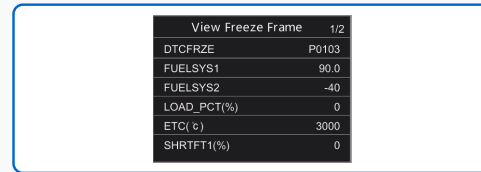
Light off

6.1.3 Freeze Frame

Snapshot data recorded when fault code occurs. Helps determine fault cause.



Select

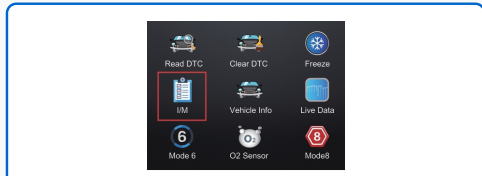


View data

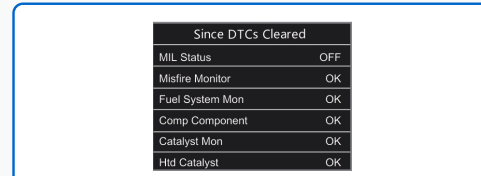
6.1.4 I/M Ready State

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

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



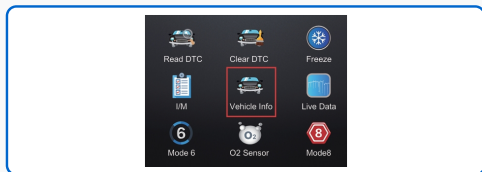
Select



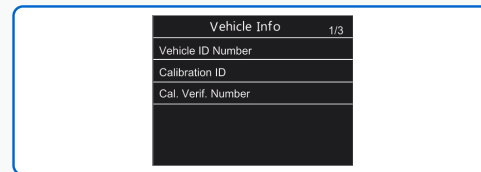
Status List

6.1.5 Vehicle Information

View VIN and vehicle information.



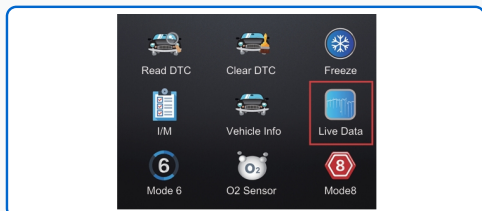
Select



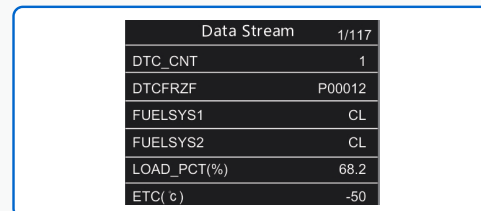
View

6.1.6 Data Stream

Reads current real-time engine data stream information.



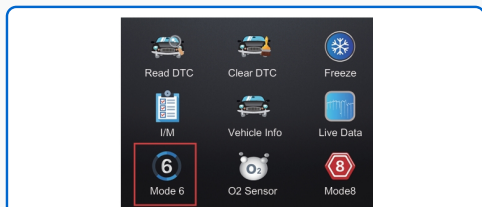
Select



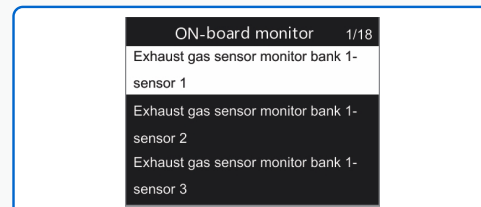
Engine data

6.1.7 Mode 6

On-board monitoring test. Enter sensor monitoring interface.



Select



View

6.1.7 Mode 6

Enter the sensor monitoring interface

Sensor Monitor

Sensor Value

6.1.8 Oxygen Sensor Test

Reads O2 sensor values to determine if test data is normal.

Select

Select B1

Select Option to view

View data list

6.1.9 Mode 8

Component test project.

Select

Test

6.2 Query Fault Code Library

Use direction keys to adjust code, select OK to query definition.

Input

View

6.3 Playback

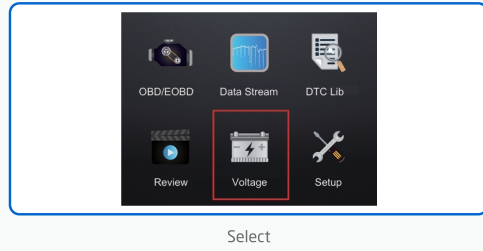
View fault code and data stream playback records.

History

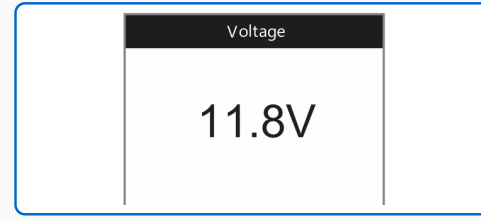
Stream

6.4 Voltage

Read current battery voltage data.



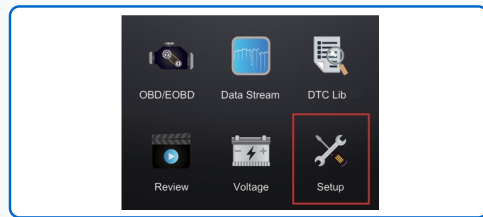
Select



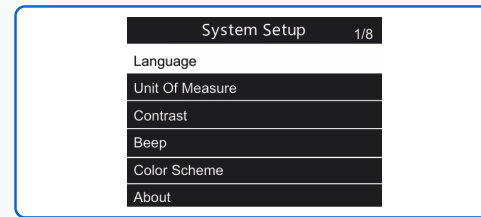
View

6.5 Settings

Adjust language, unit and product parameter settings.



Config

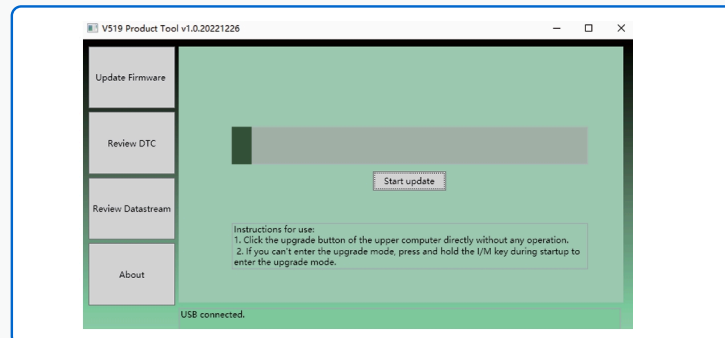
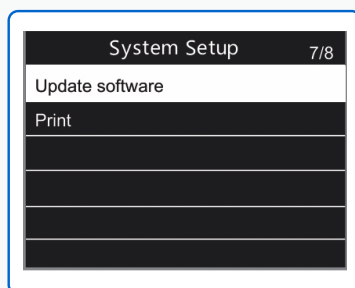


Adjust

6.5.1 Software Upgrade

Software Upgrade Procedure:

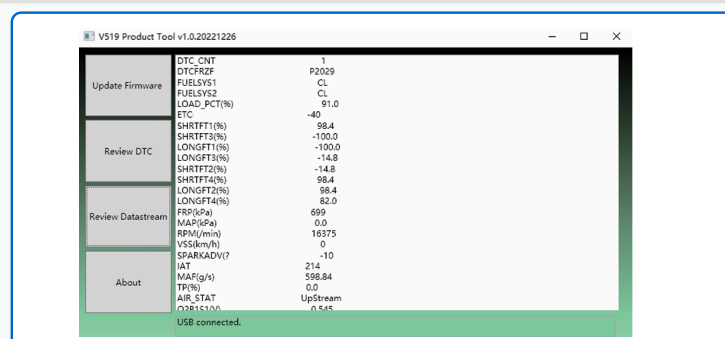
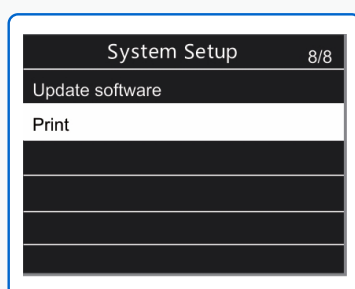
- 1) Log in to "elm327.com" to download "V519ProductTool"
- 2) Use Type-C cable to connect product and computer
- 3) Double click to run "V519ProductTool"
- 4) Select "Update Firmware"
- 5) Select "Start update" and wait until successful



6.5.2 Print

Print Procedure:

- 1) Log in to "elm327.com" to download "V519ProductTool"
- 2) Use Type-C cable to connect product and computer
- 3) Double click to run "V519ProductTool"
- 4) Select "Review Datastream"
- 5) After successful reading, data stream displays and can be copied for printing



 6.5.2 Print**Print Features:**

- Review data stream
- Print diagnostic reports
- Copy to clipboard
- Export vehicle data

 8. Notes

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

 9. 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.

Need Technical Support?

For B2B / OEM / ODM partners and after-sales teams

Contact your account manager or sales representative

www.drovest.com