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› GARMEE V520 OBD2 Scanner Instruction Manual

GARMEE V520

GARMEE V520 OBD2 Scanner Instruction Manual

Enhanced Vehicle Diagnostic Scan Tool

1. INTRODUCTION

The GARMEE V520 OBD2 Scanner is an advanced diagnostic tool designed to help vehicle owners and mechanics quickly and accurately identify issues with their vehicles. This manual provides comprehensive instructions for setting up, operating, and maintaining your V520 scanner, ensuring optimal performance and longevity.



Figure 1: The GARMEE V520 OBD2 Scanner main unit, featuring a clear display and intuitive control buttons.

2. SETUP

2.1 Package Contents

- GARMEE V520 OBD2 Scanner Unit
- OBD2 Connection Cable (integrated)
- User Manual

Perfect Gift for Car Owners & Mechanics



Figure 2: Contents of the GARMEE V520 package, including the scanner unit and user manual.

2.2 Connecting the Scanner

1. Locate the vehicle's OBD2 port, typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is off before connecting the scanner.
3. Plug the V520 scanner's integrated cable into the vehicle's OBD2 port. The scanner will power on automatically.

Your browser does not support the video tag.

Video 1: Demonstration of connecting the GARMEE V520 OBD2 Scanner to a vehicle's OBD2 port and initial power-up. This video also shows various functions of the scanner including reading/clearing codes, viewing live data, and using the cloud print feature.

3. OPERATING INSTRUCTIONS

3.1 Main Menu Navigation

Use the directional buttons (up, down, left, right) to navigate through the menu options and the 'OK' button to confirm selections. The 'EXIT' button returns to the previous screen.

V520 Professional OBO2 Scanner



Figure 3: Overview of the V520's main menu, displaying icons for various diagnostic functions such as Read Codes, Clear Codes, Freeze Frame, I/M Readiness, DTC Lookup, Cloud Print, Live Data Stream, O2 Sensor Test, On-Board Monitor Test, VIN Info, MIL Fault Indicator, Vehicle Info, Mode 6, Mode 8, and 10 Languages Support.

3.2 Reading and Clearing Diagnostic Trouble Codes (DTCs)

1. From the main menu, select "OBD/EOBD" or "Read Codes".
2. The scanner will link to the vehicle and display any detected DTCs.
3. To clear codes, select "Clear DTC" from the main menu. Confirm the action when prompted.

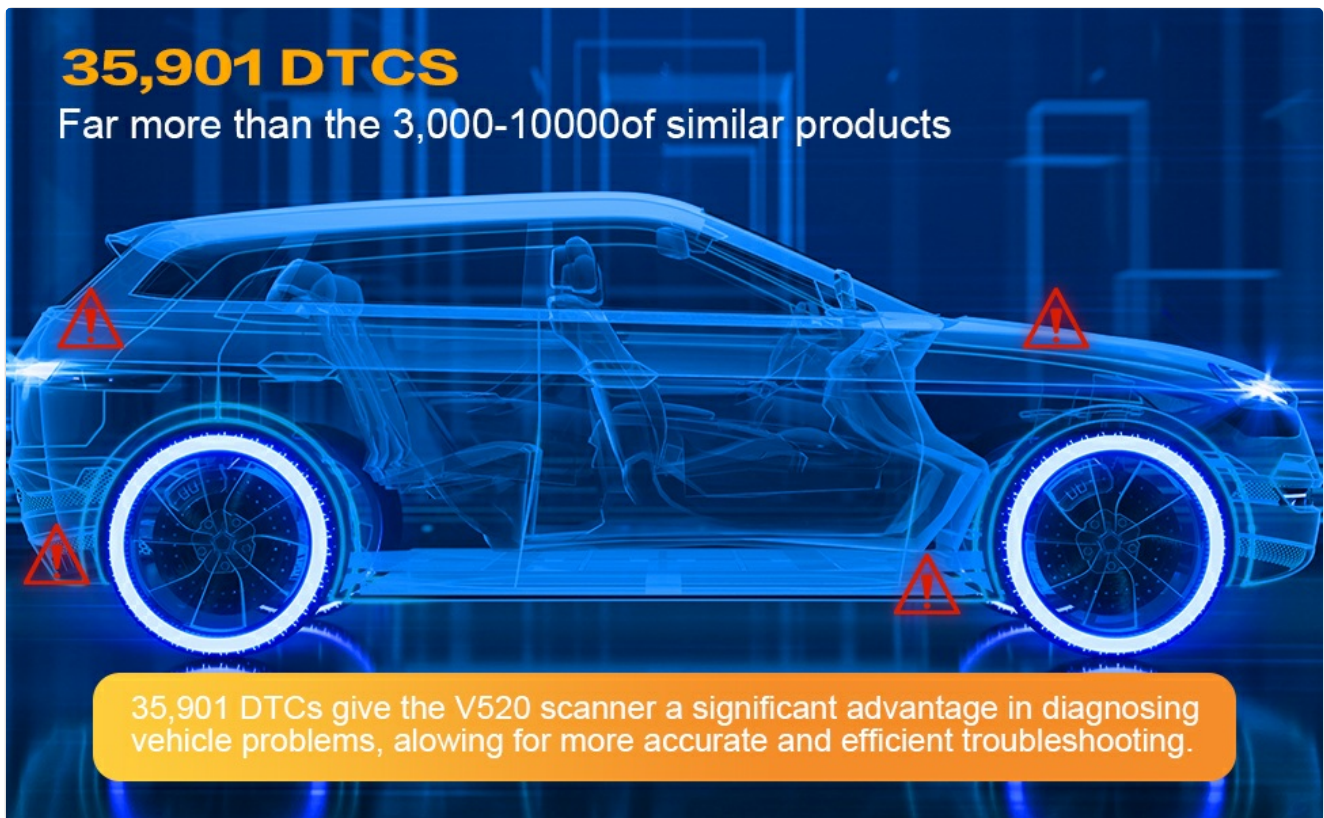


Figure 4: The DTC Lookup feature allows users to input a fault code (e.g., P2000) and view its definition, aiding in comprehensive fault diagnosis. The V520 features an extensive library of up to 35,901 built-in fault codes.

3.3 Live Data Stream

View real-time operational parameters of the vehicle's engine, such as RPM, vehicle speed, coolant temperature, and more. This data can be displayed numerically or graphically.

- Select "Data Stream" from the main menu.
- Choose "View the data" to see a list of parameters or "Custom data set" to select specific parameters.

3.4 I/M Readiness

Check the readiness status of various emission-related monitoring systems to determine if the vehicle is ready for an emissions test.

- Select "I/M Readiness" from the main menu.
- The screen will display the status of each monitor (OK, INC, N/A).

I/M Readiness

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)



Figure 5: The I/M Readiness function checks the status of various vehicle monitors (e.g., MIL Status, Misfire Monitor, Fuel System Monitor, Catalyst Monitor) to indicate if the vehicle's emission systems are ready for testing.

3.5 Cloud Print Functionality

The V520 supports cloud printing of diagnostic reports, including DTCs, data streams, and freeze frame data. This allows for easy sharing and record-keeping.

1. Select "Cloud Print" from the main menu.
2. Choose the type of data to print (DTC, Data Stream, Freeze Frame).
3. A QR code will be generated on the scanner's screen.
4. Scan the QR code with your smartphone to view and save the diagnostic report.

Support Cloud Printing Fault Data



Figure 6: The Cloud Print feature allows users to generate a QR code on the scanner's screen, which can then be scanned by a mobile phone to display and save diagnostic reports, including fault codes and live data streams.

3.6 Battery Voltage Reading

Quickly check the vehicle's battery voltage directly from the scanner.

- Select "Voltage" from the main menu.
- The current battery voltage will be displayed on the screen.

4. SPECIFICATIONS

Feature	Description
Model	V520
Display Screen	2.8 Inches
Supported Protocols	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4 KWP, ISO 15765-4 CAN (various bit rates)
DTC Library	Up to 35,901 built-in fault codes
Supported Languages	English, German, French, Spanish, Japanese, Italian, Russian, Dutch, Chinese, Portuguese
Dimensions	7.87 x 5.12 x 1.69 inches

Feature	Description
Weight	10.8 ounces
Compatibility	Most gasoline vehicles after 1996

SUPPORT NINE OBD II / EOBD STANDARD PROTOCOL

- SAE J1850 PWM (41.6 Kbaud)
- SAE J1850 VPW(10.4 Kbaud)
- ISO 9141-2(5 baud init,10.4 Kbaud)
- ISO14230-4 KWP(5 baud init,10.4 Kbaud)
- ISO14230-4 KWP (fast init,10.4 Kbaud)
- ISO15765-4 CAN(11bit ID,500 Kbaud)
- ISO15765-4 CAN(29bit ID,500 Kbaud)
- ISO15765-4 CAN(11bit ID,250 Kbaud)
- ISO15765-4 CAN(29bitID,250 Kbaud)



Figure 7: The V520 supports nine standard OBDII/EOBD protocols and offers multi-language support, making it versatile for a wide range of vehicles and users.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending or crimping the OBD2 cable excessively to prevent internal damage.

- **Software Updates:** Periodically check the manufacturer's website for available software updates to ensure optimal performance and compatibility with newer vehicle models.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection; vehicle's OBD2 port issue; vehicle battery low.	Ensure the cable is securely connected. Check vehicle's battery. Test on another vehicle if possible.
"Linking Error" or "Communication Error" message.	Incorrect protocol; vehicle not OBD2 compliant; faulty cable.	Verify vehicle is OBD2 compliant (most vehicles after 1996). Ensure ignition is on. Try reconnecting.
Cannot clear DTCs.	Ignition not on; underlying fault still present.	Turn ignition to ON position (engine off). Address the underlying vehicle fault before attempting to clear codes.

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or visit the official GARMEE website.

Manufacturer: GARMEE

Model: V520

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