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> OBD2 Car Scanner Diagnostic Tool, V520 Fixd Car Diagnostic Tool, OBDII/EOBD Check Engine with Reads/Erases Codes, Auto Code Reader Scanner, Universal for Cars After 1996 User Manual

Drphiru V520

# OBD2 Car Scanner Diagnostic Tool User Manual

Model: V520 | Brand: Drphiru

## INTRODUCTION

Welcome to the user manual for your Drphiru V520 OBD2 Car Scanner Diagnostic Tool. This manual provides comprehensive instructions on how to set up, operate, and maintain your device, ensuring you can effectively diagnose and troubleshoot issues with your vehicle.

Please read this manual thoroughly before using the device to ensure proper operation and to prevent damage to the tool or your vehicle. Keep this manual for future reference.

## Safety Information

Always operate the device in a safe environment. Ensure the vehicle is parked on a level surface with the parking brake engaged. Do not attempt to perform diagnostics while driving. Consult a qualified mechanic if you are unsure about any diagnostic results or repair procedures.

## PRODUCT OVERVIEW



Figure 1: Drphiru V520 OBD2 Car Scanner Diagnostic Tool

### Key Features

- Professional OBD2 Scanner: Reads I/M readiness, retrieves VIN, tests battery voltage, live data stream, engine lights (MIL), O2 sensor test, Mode 6, Mode 8, cloud print data, evaporation control system test, on-board monitor test, fault code search, and component testing.

- **Cloud Print Data:** Generates DTC, data stream, and freeze frame into QR codes for easy scanning and sharing with maintenance personnel.
- **Built-in 35901 DTC Library:** Provides comprehensive fault code definitions for thorough vehicle diagnosis.
- **Wide Compatibility and Multiple Languages:** Compatible with cars after 1996 (US), 2002 (EU), and 2008 (Asia). Supports 10 languages including English, German, French, Spanish, Italian, Russian, Dutch, Chinese, Japanese, and Portuguese. Not compatible with new energy or hybrid vehicles.
- **Compact and Simple Design:** Equipped with a cable and 6 intuitive buttons (up/down/left/right, return/exit, DTC fault code, OK) for easy operation and portability.



Figure 2: Full OBD2 Modes and Functions Overview



Figure 3: Built-in 35901 DTCs and Diagnostic Capabilities

## Vehicle Coverage is More Extensive

**1996-2024**

**48 Global Brands**



**Support 10 Languages**

|                                                                                            |                                                                                             |                                                                                            |                                                                                               |                                                                                                   |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  USA    |  Spanish |  German |  Italy    |  South Korea |
|  Chinas |  UK      |  French |  Japanese |  Portugal    |

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)

Figure 4: Extensive Vehicle Coverage and Multi-language Support

### What's in the Box

- 1x OBD2 Scanner Diagnostic Tool

## SETUP

The Drphiru V520 OBD2 Car Scanner is designed for plug-and-play operation. Follow these steps to begin:

1. **Locate the OBD2 Port:** The OBD2 port is typically located under the dashboard on the driver's side of the vehicle. Common locations are marked as A, B, C, or D in Figure 5.
2. **Connect the Scanner:** Plug the scanner's OBD2 connector firmly into the vehicle's OBD2 port.
3. **Turn On Ignition:** Turn the vehicle's ignition to the "ON" position (engine can be off or running, depending on the test). The scanner will power on automatically.
4. **Device Initialization:** The scanner will initialize and display the main menu.



Figure 5: Typical OBDII Port Locations in a Vehicle

## OPERATING INSTRUCTIONS

### Basic Navigation

The scanner features a user-friendly interface with dedicated buttons:

- **Up/Down/Left/Right Arrows:** Navigate through menu options and data screens.
- **OK Button:** Confirms selections or enters sub-menus.
- **EXIT Button:** Returns to the previous screen or exits a function.
- **DTC Button:** Directly accesses the Diagnostic Trouble Code (DTC) menu.
- **I/M Button:** Directly accesses I/M Readiness status.
- **BAT Button:** Directly accesses Battery Voltage check.



Figure 6: Scanner Interface and Button Layout

### Reading and Erasing Codes

1. From the main menu, select "OBD/EOBD" or press the "DTC" button.
2. The scanner will automatically scan for Diagnostic Trouble Codes (DTCs).
3. To view code definitions, select a code and press "OK".
4. To erase codes, navigate to the "Erase Codes" option (often found within the "OBD/EOBD" menu or as a separate option). Confirm the action when prompted.

*Note: Erasing codes will turn off the Check Engine Light (MIL) but will not fix the underlying problem. The light will reappear if the fault persists.*



Figure 7: Erasing Fault Codes

### Live Data Stream

The Live Data Stream function allows you to view real-time sensor data from your vehicle. This can be crucial for diagnosing intermittent issues.

1. From the main menu, select "Data Stream".
2. You can customize the parameters displayed and view data in numerical or graphical format.

3. Observe the values for various sensors (e.g., engine RPM, coolant temperature, O2 sensor readings) to identify anomalies.

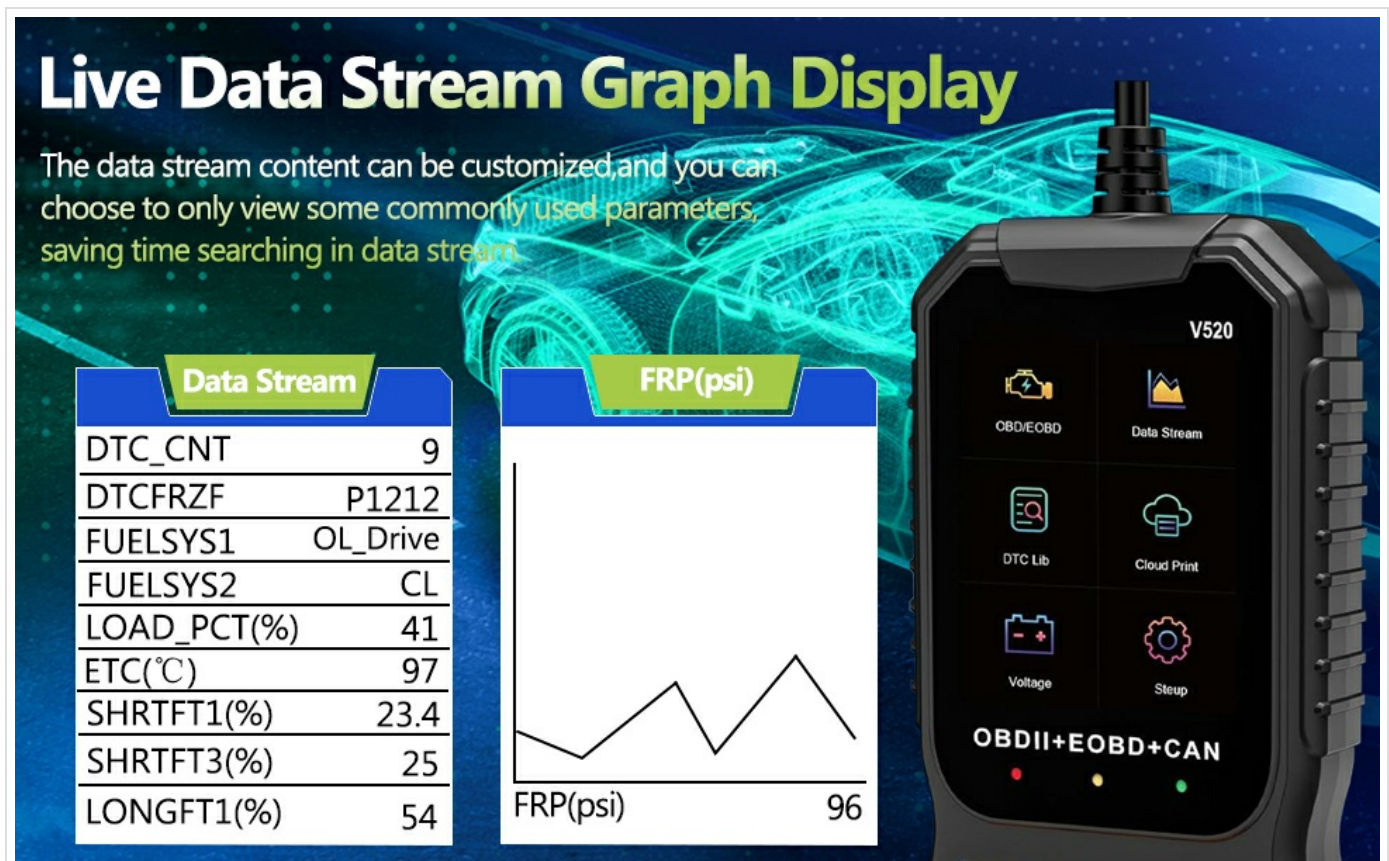


Figure 8: Live Data Stream Graph Display

## DTC Lookup (Fault Code Library)

The scanner has a built-in library of over 35,901 Diagnostic Trouble Codes. This allows you to quickly understand the meaning of a code without needing external resources.

1. From the main menu, select "DTC Lib" or press the "DTC" button and navigate to the lookup option.
2. Enter the fault code using the arrow buttons to change digits.
3. Press "OK" to view the detailed definition of the code.

# 35901 Fault code Library

Quickly query fault code definitions

P2029 P2A09 P2A0D 92A0D

B2A29 P2A09 P2A0D P0A3D

P2A1B U2A09 C010D A9OFG

P30AS P20D0 CO2FE F5DO2

C0029 U0L0B P020D P20A9

P02D9 P2A09 P2A0D P020D

## DTC Lookup

P 2 0 0 0

|                                                                                     |                                                                                     |              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
|  |  | Left/Right   |
|  |  | Change Digit |
|  |                                                                                     | Confirm      |



Figure 9: Built-in Fault Code Library

## Battery Voltage Check

Quickly check your vehicle's battery health status in real-time.

1. From the main menu, select "Voltage" or press the "BAT" button.
2. The scanner will display the current battery voltage and a graph showing its stability.



Figure 10: Battery Health Status Check

## Cloud Print Function

The cloud print function allows for easy sharing of diagnostic data.

1. After performing a diagnostic scan, navigate to the "Cloud Print" option.
2. The scanner will generate QR codes for DTCs, data streams, and freeze frame data.
3. Scan these QR codes with your smartphone to obtain the corresponding data. You can then save screenshots or share the data with maintenance personnel for reference.

## MAINTENANCE

Proper maintenance ensures the longevity and reliability of your OBD2 scanner.

- **Cleaning:** Use a soft, dry cloth to clean the scanner's casing and screen. Do not use abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Cable Care:** Avoid bending or kinking the OBD2 cable excessively. Always grasp the connector, not the cable, when plugging or unplugging.
- **Software Updates:** Check the manufacturer's website periodically for any available software updates to ensure optimal performance and compatibility with newer vehicles.

## TROUBLESHOOTING

If you encounter issues with your Drphiru V520 OBD2 scanner, refer to the following common problems and solutions:

| Problem                                        | Possible Cause                                                                  | Solution                                                                                                                                                      |
|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scanner does not power on.                     | Loose connection; vehicle's OBD2 port not supplying power; vehicle battery low. | Ensure the cable is securely connected. Check vehicle's fuse for the OBD2 port. Check vehicle battery voltage. Try on another compatible vehicle if possible. |
| "Link Error" or "Communication Error" message. | Incorrect protocol; faulty connection; vehicle not OBD2 compliant.              | Verify vehicle is OBD2 compliant (1996 US, 2002 EU, 2008 Asia). Ensure ignition is ON. Check for damaged cable or port.                                       |
| Cannot clear trouble codes.                    | Ignition not ON; fault is still present; vehicle's ECU prevents clearing.       | Ensure ignition is ON. Address the underlying fault first. Some codes may require specific driving cycles to clear.                                           |
| Inaccurate readings or intermittent data.      | Loose connection; sensor malfunction in vehicle; software glitch.               | Reseat the connection. Check vehicle's sensors. Restart the scanner and vehicle.                                                                              |

## SPECIFICATIONS

| Feature             | Detail                                                                     |
|---------------------|----------------------------------------------------------------------------|
| Model               | V520 (OBD2 Car Scanner)                                                    |
| Item Model Number   | 757-TP1F                                                                   |
| Supported Protocols | SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4 KWP, ISO 15765-4 CAN |
| DTC Library         | Built-in 35901 DTCs                                                        |
| Display             | Color LCD                                                                  |
| Operating Voltage   | 9-16V (via OBD2 port)                                                      |

| Feature               | Detail                                                                                   |
|-----------------------|------------------------------------------------------------------------------------------|
| Operating Temperature | 0°C to 60°C (32°F to 140°F)                                                              |
| Storage Temperature   | -20°C to 70°C (-4°F to 158°F)                                                            |
| Automotive Fit Type   | Universal Fit (for OBD2 compliant vehicles)                                              |
| Supported Languages   | English, German, French, Spanish, Italian, Russian, Dutch, Chinese, Japanese, Portuguese |

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact Drphiru customer service. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may visit the official Drphiru website or contact their support team directly. Contact details are typically found on the product packaging or the manufacturer's website.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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