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› VDIAGTOOL VD70 Lite Bidirectional Scan Tool User Manual

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VDIAGTOOL VD70 Lite Bidirectional Scan Tool User Manual

Model: VD70Lite | Brand: VDIAGTOOL

INTRODUCTION

The VDIAGTOOL VD70 Lite is a professional-grade OBD2 scanner and diagnostic tool designed for comprehensive vehicle diagnostics and maintenance. It offers a wide array of features including full bi-directional controls, 31+ hot resets, all system diagnostics, and advanced protocol support like CAN FD & DoIP. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your VD70 Lite device, ensuring optimal performance and longevity.



Image: The VDIAGTOOL VD70 Lite diagnostic tool, showcasing its main interface and compact design.

WHAT'S IN THE BOX

Upon opening your VDIAGTOOL VD70 Lite package, please verify that all the following components are included:

- 1 x VDIAGTOOL Diagnostic Tool (VD70 Lite)
- 1 x Type-C to Type-C Charge Cable
- 1 x Type-C to Type-A Adapter (for PC connection)
- 1 x DB15 Main Cable
- 1 x US/UK/EU Plug Adapter
- 1 x Quick Start Guide

WHAT'S IN THE BOX?



Image: All components included in the VDIAGTOOL VD70 Lite package, neatly arranged.

SETUP

- 1. Charging the Device:** Connect the VD70 Lite to a power source using the provided Type-C charge cable and plug adapter. Ensure the device is fully charged before first use.
- 2. Connecting to Vehicle:** Locate your vehicle's OBD2 port, typically found under the dashboard on the driver's side. Connect the DB15 Main Cable to the VD70 Lite and then to the vehicle's OBD2 port.
- 3. Power On:** The device will automatically power on once connected to the vehicle's OBD2 port. If not, press the power button.
- 4. Initial Setup:** Follow the on-screen prompts to select your preferred language (23 languages supported) and configure basic settings.
- 5. Software Updates:** It is highly recommended to perform a software update immediately after initial setup to ensure you have the latest features and vehicle compatibility. Connect the device to Wi-Fi (2.4 & 5GHz dual-band) and navigate to the "Updates" section on the main menu.

OPERATING INSTRUCTIONS

1. Full System Diagnostics

The VD70 Lite performs OE-level diagnostics across all vehicle systems, including Engine, Transmission, Airbag, ABS, ESP, TPMS, Radio, and more. It can read/clear diagnostic trouble codes (DTCs), view live data, freeze frame data, and read ECU information.

- **Auto VIN & Auto Scan:** The device can automatically identify the vehicle's VIN and perform a comprehensive scan of all available modules for quick fault detection.
- **Read & Clear Codes:** Access and clear DTCs from any supported system.
- **Live Data Stream:** View real-time sensor data. The device supports 8-in-One data graphing for intuitive analysis and allows data export as CSV for further review.

OE-LEVEL ALL SYSTEMS DIAGNOSTICS

Workshop-Level Car Scanner: Detect System Faults at Dealership Speed & Detailed Report

- ✓ Auto-Identify VIN in 5S
- ✓ Auto-Scan All Systems
- ✓ CAN Fast Scan (50% quicker on post-2005 vehicles)
- ✓ Mostly for 2005+ Cars
- ✓ Fast & Accurate

TPMS, SRS, ABS, Engine

Read & Clear Codes, Live Data 8-In-1 Pid Graphing, ECU Info, Freeze Frame, Full Bi-Directional Control, Resets, Relearns, Matchings, Initializations

Image: Diagram illustrating the comprehensive OE-level all systems diagnostic capabilities of the VD70 Lite.

2. Bi-directional Control (Active Tests)

This feature allows the tool to send commands to vehicle ECUs to perform specific tests and functions, verifying component integrity and operation. Over 4000 active tests are supported.

- **Examples:** Test windows, doors, ABS motor, radiator fan, fuel injector, wipers, headlights, rear mirrors, sunroof, and more.

- **Procedure:** Navigate to "Special Function" or "Active Test" menu, select the desired component, and follow on-screen instructions to activate the test.

FULL BI-DIRECTIONAL CONTROLS

• Faster & More Accurate

<ul style="list-style-type: none"> ▶ Doors ▶ ACC Lkas ▶ Cycle A/C ▶ Fuel Pump ▶ Injector Buz ▶ Sound Horn ▶ Interior light 	<ul style="list-style-type: none"> ▶ Open Brakes ▶ Parking Brake ▶ Clutch On/Off ▶ ACM Solenoid ▶ Exterior Lights ▶ Brake Vacuum ▶ Operate Mirrors 	<ul style="list-style-type: none"> ▶ Modulate Throttle ▶ Inlet & Outlet Valve ▶ Acceleration Device ▶ Left Clutch Elec. Coil ▶ Oil Pressure Control ▶ Open/Close Windows ▶ Wheel Speed Sensor
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The Most Affordable

4000+ Actuator Tests

BI-directional Pids

Image: Visual representation of the bi-directional control function, showing commands sent to and received from vehicle components.

3. 31+ Hot Resets & Maintenance Services

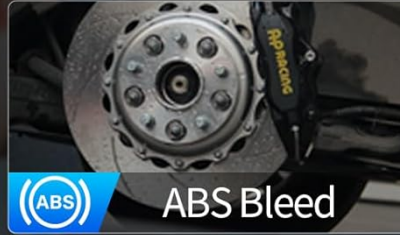
The VD70 Lite provides access to over 31 common maintenance and reset functions, covering nearly all daily service needs for various vehicle makes.

- **Key Resets:** Oil Reset, ABS Bleed, Crank Sensor Relearn, Idle Relearn, Injector Coding, Window Initialization, HVAC Calibration, Suspension Calibration, Throttle Matching, EPB Reset, SAS Reset, BMS Reset, and more.
- **Note:** Availability of specific functions may vary by vehicle model, year, and VIN. Always verify compatibility before performing a reset.

31+

HOT RESETS

- Cover 99% Factory-level Maintenances
- Keep Growing with Updates for 150+ Makes



- | | | |
|--------------|-------------------|------------------------------|
| ▶ SRS | ▶ A/C Relearn | ▶ Transport Mode |
| ▶ EEPROM | ▶ EGR Relearn | ▶ Stop/Start Reset |
| ▶ A/F Reset | ▶ VGT Relearn | ▶ Language Change |
| ▶ Headlight | ▶ Tire Upgrade | ▶ Instrument Cluster |
| ▶ Suspension | ▶ Gear Learning | ▶ DPF Regeneration |
| ▶ HV Battery | ▶ Power Balance | ▶ Control Unit Reset |
| ▶ Seat Match | ▶ Gearbox Match | ▶ Windows Initialization |
| ▶ TPMS Reset | ▶ Injector Coding | ▶ Electronic Pump Activation |

*Functions vary by model, please send us the Vehicle Model, Year, VIN for compatibility before purchase.

Image: A grid displaying various hot reset functions available on the VD70 Lite, such as Oil Reset, ABS Bleed, and Throttle Matching.

4. CAN FD & DoIP Protocol Support

The VD70 Lite supports advanced communication protocols, ensuring compatibility with modern vehicles and faster diagnostic speeds.

- **CAN FD:** Supported for GM MY2020+ vehicles.
- **DoIP:** Supported for BMW E/F/G Chassis, Jaguar, and Land Rover models.
- This eliminates the need for special adapters, saving costs and expanding vehicle coverage.

5. Vehicle Coverage

The VD70 Lite supports over 10,000 vehicle models from 150+ brands worldwide, including US, European, and Asian vehicles (mostly for 2005+ cars). It is a global diagnostic scanner with 23 language support.

150+ VEHICLE BRAND COVERAGE

★ Global Ver.

★ No IP Limit.

★ Hot-selling Cars

★ Post-1996 Cars

★ CAN FD for GM

★ DoIP for EU. Cars

★ Keep Expanding for 2025s!



For Toyota



For Ford



For GM



For VW



For Honda



For Benz

COMPATIBLE PROTOCOLS

- ISO9141-2
- ISO14230-2
- ISO15765
- K/L-Line
- Flashing Code
- TP2.0
- SAE-J1850 VPW SAE-J1850PWM
- GM UART UART Echo Byte Protocol
- TP1.6
- Iso11898 (Highspeed, Middlespeed, Lowspeed & Singlewire CAN. fault-tolerant CAN) SAE J2610
- Honda Diag-H Protocol



Image: A collage of various car brands and models, illustrating the wide vehicle coverage of the VD70 Lite.

MAINTENANCE

- **Software Updates:** The VD70 Lite offers long-term free software updates. Regularly check for updates via the "Updates" icon on the main menu to ensure optimal performance, new features, and expanded vehicle compatibility.
- **Cleaning:** Use a soft, damp cloth to clean the device. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the device in its protective carrying case in a cool, dry place when not in use to prevent damage.
- **Battery Care:** The device contains a Lithium Ion battery. Avoid extreme temperatures and prolonged periods of full discharge or full charge to maximize battery life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Not properly connected to OBD2 port; low battery.	Ensure secure connection to OBD2 port. Charge the device fully.

Problem	Possible Cause	Solution
Cannot connect to vehicle.	Incorrect cable connection; vehicle ignition off; incompatible vehicle.	Check cable connections. Turn vehicle ignition to ON position. Verify vehicle compatibility.
Software update fails.	Unstable Wi-Fi connection; insufficient storage.	Ensure stable Wi-Fi. Clear unnecessary files if storage is low. Retry update.
Specific function not working.	Function not supported by vehicle; incorrect procedure.	Check vehicle compatibility for the specific function. Refer to the Quick Start Guide or contact support.

For more complex issues, please refer to the "Warranty and Support" section.

SPECIFICATIONS

Feature	Detail
Model	VD70 Lite
Operating System	Android 10.0
Display Resolution	1024x600
Processor	Quad-core 1.5GHz
Memory	2GB RAM + 64GB Storage
Battery	18.25Wh 7.3V Lithium Ion (included)
Connectivity	2.4 & 5GHz Dual-Band Wi-Fi, USB-C, DB15 OBD Port
Supported Protocols	CAN FD, DoIP, ISO9141-2, ISO14230-2, ISO15765, K/L-Line, SAE-J1850 VPW, SAE-J1850 PWM, ISO11898, Honda Diag-H Protocol
Item Weight	5.15 pounds
Package Dimensions	12.4 x 10.83 x 4.09 inches

2025 ENHANCED PERFORMANCE

Easier & 5X Faster & Superior & Wider Compatibility



LIFETIME

Free Update



5X Faster

Chip Architecture



18.25Wh 7.3V Battery

Fast Charging & Low-loss



2G/64G Memory

Smoother Operation



2.4/5GHz

Dual-Band Wifi



CAN FD & DoIP

Pro-Grade Stability

8-IN-1 PID

Live Data Graphing

REPORT

Customized Diagnostic

DATA PLAYBACK

Clipable and Adjustable
Progress Bar



Image: Infographic detailing the enhanced performance features of the 2025 VD70 Lite model, including faster chip architecture and memory.

WARRANTY AND SUPPORT

VDIAGTOOL is committed to providing exceptional user experiences and stands behind the quality of its products.

- **Warranty:** The VDIAGTOOL VD70 Lite comes with a 2-year warranty from the date of purchase.
- **Return Policy:** A 30-day risk-free return/replacement policy is offered.
- **Customer Support:** 24/7 support is available for any inquiries or assistance.
- **Contact:** For support, you can reach out via email at vddiagtool2@outlook.com. Please provide your tool's Serial Number (S/N) for efficient service.
- **Online Resources:** For additional help, check the product page on Amazon.com and look for "Get Product Support" or "Ask a question."

