

V- DIAGTOOL

USER MANUAL

OBDII/EOBD VD30 PRO CODE READER



www.vdiagtool.com

Safety Information

To ensure your safety and prevent damage to the device or vehicle, please carefully read and follow all instructions in this manual before use.

When operating the device, always verify proper testing procedures and strictly adhere to the instructions provided. As automotive electrical systems may vary, you must assess potential risks and ensure a safe testing environment.

Always observe all safety warnings, use appropriate tools, and disconnect power sources when necessary. Improper operation may result in personal injury, equipment damage, or voided warranty.

Safety Messages

Safety messages use standardized signal words to indicate hazard levels and prevent injuries or equipment damage:

DANGER

Will result in death or serious injury if ignored

Indicates an immediately life-threatening hazard.

WARNING

Could result in death or serious injury if ignored

Indicates a potentially dangerous situation.

Safety Instructions

This manual covers known safety hazards, but cannot anticipate all possible risks. You are responsible for ensuring safe operating conditions and procedures.

DANGER

- Always ventilate the service area when engine is running or use building exhaust removal system if available
- Carbon monoxide is odorless and deadly - can cause loss of consciousness or death

⚠ WARNINGS

- Always conduct testing in a safe, controlled environment.
- Wear ANSI-approved safety goggles during all operations.
- Keep all objects away from moving or hot engine components.
- Ensure proper ventilation to avoid toxic exhaust fumes.
- Secure the vehicle in PARK (automatic) or NEUTRAL (manual) with parking brake engaged.
- Place wheel chocks and never leave the vehicle unattended during tests.
- Exercise extreme caution around ignition systems - hazardous voltages are present.
- Maintain an ABC-rated fire extinguisher within immediate reach.
- Never connect/disconnect test equipment with ignition on or engine running.
- Keep all test equipment clean, dry and free from contaminants.
- Never operate test equipment while driving - focus solely on testing.
- Strictly follow the vehicle service manual's diagnostic procedures.
- Verify full battery charge and secure DLC connections before testing.
- Never place test equipment near the distributor due to EMI risks.

Legal Information

Trademarks

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Disclaimer & Liability Statement

Product Documentation Notice

All illustrations, specifications, and technical data in this manual are for reference only and subject to change without notice.

For the latest documentation, visit:

<https://www.vdiagtool.com/support/downloads>

Limitation of Liability

VDIAGTOOL expressly disclaims all liability for:

- Any direct, indirect, incidental, or consequential damages
- Loss of profits or business interruption
- Product modifications or unauthorized use

This manual does not:

- Modify existing purchase/lease agreements
- Create additional liabilities for VDIAGTOOL
- Constitute additional product warranties

IMPORTANT:

Always consult this manual before operation, with special attention to all safety warnings. VDIAGTOOL reserves the right to modify product specifications at any time.

Product Support & Training Resources

Technical Support

- Official Website: www.vdiagtool.com
- Support Email: support@vdiagtool.com
- US Hotline: +1-213-355-7171
- Online Form:

<https://www.vdiagtool.com/support/tech-support>

Training Videos

Free product operation videos:

1. Visit Training Center:

<https://www.vdiagtool.com/support/training-center>

2. Select **Code Reader** category

3. Watch model-specific tutorials

Contents

| | |
|--|-----------|
| 1. General Information..... | 1 |
| 1.1 On-Board Diagnostics(OBD) II..... | 1 |
| 1.2 Diagnostic Trouble Codes(DTCs)..... | 1 |
| 1.3 Location of the Data Link Connector (DLC)..... | 2 |
| 2. Using the Code Reader..... | 3 |
| 2.1 Control Buttons..... | 3 |
| 2.2 Included Accessories..... | 4 |
| 2.3 Technical Specifications..... | 4 |
| 3. Getting Started..... | 4 |
| 3.1 Power Connection Method..... | 4 |
| 3.2 Application Overview..... | 5 |
| 4. OBDII/EOBD..... | 5 |
| 4.1 Read DTC..... | 5 |
| 4.1.1 Stored DTCs..... | 6 |
| 4.1.2 Pending DTCs..... | 6 |
| 4.1.3 Permanent DTCs..... | 6 |
| 4.1.4 Stored DTC..... | 6 |
| 4.2 Clear DTC..... | 7 |
| 4.3 Live Data..... | 7 |
| 4.3.1 View All Items..... | 7 |
| 4.3.2 Select Items..... | 8 |
| 4.3.3 View Graphic Items..... | 8 |
| 4.3.4 Record All..... | 8 |
| 4.3.5 Record Select..... | 8 |
| 4.4 Freeze Frame..... | 9 |
| 4.5 MIL Status..... | 9 |
| 4.6 Vehicle Information..... | 10 |
| 4.7 O2 Sensor..... | 10 |
| 4.8 On-Board Monitoring (Mode 6)..... | 10 |
| 4.9 EVAP System Test (Mode 8)..... | 11 |
| 4.10 I/M Readiness..... | 12 |
| 5. Battery..... | 14 |
| 6. DTC Lookup..... | 15 |
| 7. Setting..... | 15 |
| 7.1 Language..... | 15 |
| 7.2 Unit of Measure..... | 16 |
| 7.3 Self Tests..... | 16 |

| | |
|------------------------------------|-----------|
| 7.3.1 Keys Test..... | 16 |
| 7.3.2 TFT Test..... | 16 |
| 7.3.3 LED Test..... | 17 |
| 7.4 Help..... | 17 |
| 7.4.1 Tool Information..... | 17 |
| 7.4.2 About OBD..... | 17 |
| 7.4.3 About Datastream..... | 17 |
| 7.5 Beep..... | 17 |
| 8. Review..... | 18 |
| 9. Updating..... | 18 |
| 9.1 Updating the Code Reader..... | 18 |
| 9.2 Printing..... | 19 |
| 9.3 Manual..... | 19 |
| 9.4 Software Language Setting..... | 19 |
| 10. Warranty..... | 20 |
| 11. Contact Us..... | 20 |

1. General Information

1.1 On-Board Diagnostics(OBD) II

The first generation of On-Board Diagnostics (OBD I) was introduced by the California Air Resources Board (ARB) in 1988 to monitor basic emission control components in vehicles. With advancements in technology and the need for enhanced diagnostics, a more sophisticated system—OBD II—was developed.

OBD II continuously or periodically monitors emission control systems and critical engine components through specialized tests. If an issue is detected, the system activates a Malfunction Indicator Light (MIL) on the dashboard, typically labeled "Check Engine" or "Service Engine Soon."

Additionally, OBD II records essential diagnostic data to assist technicians in identifying and resolving problems efficiently.

Key information includes:

- **MIL Status:** Whether the warning light is activated ("on") or deactivated ("off").
- **Diagnostic Trouble Codes (DTCs):** Specific error codes stored in the system.
- **Readiness Monitor Status:** The completion status of emission-related self-tests.

1.2 Diagnostic Trouble Codes(DTCs)

Diagnostic Trouble Codes (DTCs) are alphanumeric codes stored by the vehicle's OBD II system when a malfunction is detected. These codes help pinpoint the source of a problem, serving as a guide for troubleshooting.

An OBD II DTC follows a **5-character format**:

- **First character (letter)** – Indicates the affected system:

P = Powertrain (Engine/Transmission)

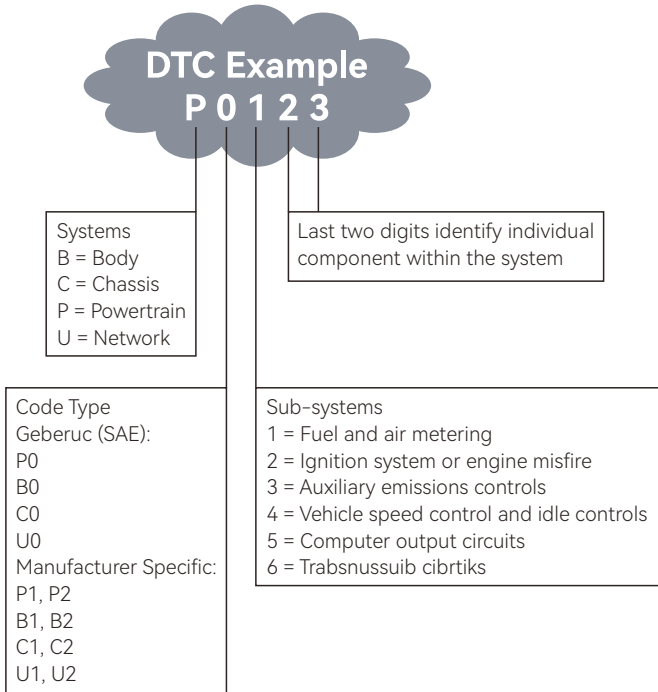
B = Body (e.g., Airbags, Climate Control)

C = Chassis (e.g., ABS, Stability Control)

U = Network/Communication (e.g., CAN Bus)

- **Remaining four digits** – Specify the exact issue

See the following DTC breakdown for a visual explanation of how the codes are structured.

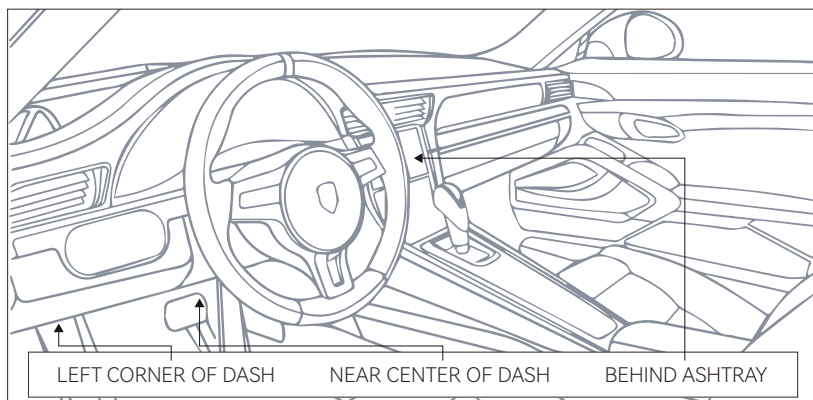


1.3 Location of the Data Link Connector (DLC)

The Data Link Connector (DLC), also known as the Diagnostic Link Connector, is a standardized 16-pin port used to connect diagnostic scan tools to the vehicle's onboard computer.

Typical DLC Locations:

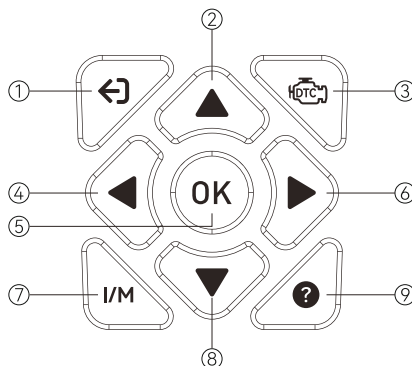
- Most vehicles: Within 12 inches of the dashboard center, typically under or near the driver's side.
- Some Asian/European models: Behind the ashtray (may require removal for access).
- If not visible: Check for a location label or consult the vehicle's service manual.



2. Using the Code Reader

This section describes the external features, ports, and connectors of the code reader.

2.1 Control Buttons



- ① **ESC button** - Returns to previous screen (press once to exit other tests)
- ② **Up button** - Menu navigation up; previous page in multi-screen info; edits DTC characters
- ③ **DTC button** - Direct access to Read DTC function
- ④ **Left button** - Previous page in multi-screen info; navigate character positions
- ⑤ **OK button** - Confirms selection

- ⑥ **Right button** - Next page in multi-screen info; navigate character positions
- ⑦ **I/M button** - Checks emissions readiness and drive cycle status
- ⑧ **Down button** - Menu navigation down; next page in multi-screen info; edits DTC characters
- ⑨ **Help button** - Opens help menu

2.2 Included Accessories

- **Type-C Cable:** For:
 - Computer connection
 - Firmware updates
- **User Manual:** Complete operation instructions

2.3 Technical Specifications

Display: 2.8" TFT color

Operating Temperature: 0°C to 60°C (32°F to 140°F)

Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Connection: Wired via main cable

Power Source: Vehicle DLC port or Type-C connection

Compatibility: OBDII & EOBD (12V) vehicles

Dimensions: 6.5×3.48×1.02 inches

Weight: 7.69 oz

3. Getting Started

Power on your code reader by connecting to vehicle power or computer before using any applications.

3.1 Power Connection Methods

Vehicle Power Connection (Recommended)

- (1) Locate the vehicle's DLC (typically under dashboard)
- (2) With ignition ON, connect code reader to DLC
- (3) Device will auto-power on

Important:

- Never use Type-C power during vehicle communication
- Ensure clean connector contact

Computer Connection (For Updates/Data Transfer)

- (1) Connect Type-C cable to device and computer
- (2) Device will auto-power on

3.2 Application Overview

Upon startup, you'll see these preloaded applications:

- **OBDII/EOBD** - Shows OBDII screen for all nine OBD system tests.
- **Battery** - Shows screen that tests and displays voltage of vehicle battery.
- **DTC Lookup** - Shows screen for diagnostic trouble code lookup.
- **Setting** - Shows screen for access to modify your settings like Language, Unit of Measure, etc
- **Review** - Shows screen for access to tested data files.
- **Print** - Shows screen for access to printing function.

4. OBDII/EOBD

When you select the OBDII/EOBD application from the home screen, your vehicle's diagnostic information will display as shown below:

Press OK to access the diagnostic menu with these available tests:

Diagnostic Test Menu:

- Read DTC
- Clear DTC
- Live Data
- Freeze Frame
- MIL Status
- Vehicle Info
- O2 Sensor
- Mode 6
- Mode 8

4.1 Read DTC

This function allows you to check stored fault codes in the vehicle's control modules.

Available Code Types:

- Stored DTCs
- Pending DTCs

- Permanent DTCs
- Record DTC

4.1.1 Stored DTCs

Stored DTCs are active fault codes that are stored in the vehicle's ECU when the onboard diagnostic system confirms a problem. These codes will typically illuminate the check engine light (MIL) immediately upon detection. Current DTCs can be cleared using the code reader's erase function, though some may clear automatically after several problem-free drive cycles if the issue doesn't recur.

4.1.2 Pending DTCs

Pending DTCs are temporary fault codes stored when a potential issue is first detected by your vehicle's monitoring systems. Unlike regular trouble codes, these won't turn on the check engine light immediately. The system keeps them as a warning - if the problem happens again on your next drive, they'll turn into confirmed trouble codes and activate the warning light. You can clear these pending codes with your code reader, or they'll disappear automatically if the issue doesn't recur after several driving cycles.

These codes are useful for spotting intermittent problems early or checking if a repair fixed an issue.

4.1.3 Permanent DTCs

Permanent DTCs are fault codes that were severe enough to originally trigger the check engine light (MIL), and remain stored in the vehicle's computer even after the light turns off. These codes preserve a record of the fault whether the MIL was cleared manually or stopped illuminating because the problem didn't reoccur. They automatically erase only after: (1) the underlying issue is fully repaired, and (2) the system successfully completes 3 consecutive drive cycles without detecting the fault.

4.1.4 Stored DTC

This function allows you to record the DTCs if there are trouble codes in the vehicle.

To read codes from a vehicle:

- (1) Select **"Read DTC"** from the OBDII/EOBD menu using the arrow keys, then press OK.
- (2) Choose the code type (**Stored, Pending, or Permanent DTCs**) and confirm with OK.
- (3) The tool will display all detected codes along with their descriptions.

4.2 Clear DTC

This function allows you to clear stored diagnostic trouble codes (DTCs) from the vehicle's ECU with the ignition ON (engine OFF).

To erase codes from a vehicle:

- (1) Select **"Clear DTC"** from the OBDII menu.
- (2) Follow the on-screen prompts to confirm and complete the erasure.
- (3) Immediately rescan the system to check for remaining codes.

After Erasure:

If codes persist: This may indicate permanent DTCs. Please repair or replace the affected components before attempting to clear the codes again.

4.3 Live Data

This function allows real-time monitoring of vehicle sensor data and system parameters (PIDs) from the ECU.

- View All Items
- Select Items
- View Graphic Items
- Record All
- Record Select

4.3.1 View All Items

This function displays real-time monitoring of all available vehicle parameters from the ECU, including engine RPM, coolant temperature, fuel trim values (both short-term and long-term), oxygen sensor voltages, throttle position, and other critical system measurements.

4.3.2 Select Items

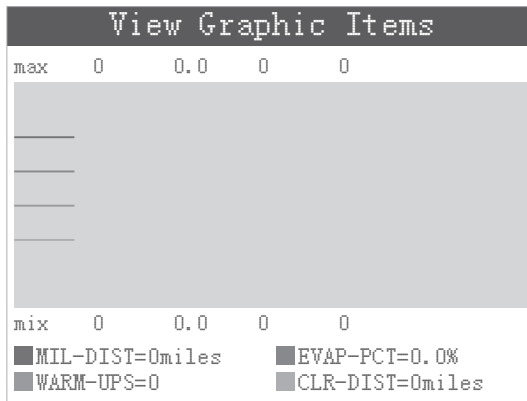
This function enables focused monitoring of specific vehicle parameters.

To view selected PIDs:

- (1) Navigate through the parameter list using the UP/DOWN button
- (2) Press OK to select/deselect each desired parameter
- (3) Press ESC to display all selected parameters in real-time

4.3.3 View Graphic Items

This function allows you to view the PID data as a graphing.



4.3.4 Record All

This function is used to record PIDs to help diagnose intermittent drivability problems that can't be determined by any other method.

4.3.5 Record Select

This function allows you to record the PID data you selected.

CAUTION

- Always park the vehicle before using the code reader
- When recording live data during driving, ensure two occupants are present - one to drive and one to operate the device

NOTE:

Vehicle communication speeds and supported PIDs vary by make/model/year. Some parameters may not be available on all vehicles.

4.4 Freeze Frame

The Freeze Frame function provides a snapshot of critical vehicle parameters (engine RPM, load, fuel system status, etc.) recorded at the moment a fault code was triggered. This data helps diagnose intermittent issues by showing exact operating conditions when the problem occurred.

To access freeze frame Data:

- (1) Select **Freeze Frame** from the OBDDII menu
- (2) Scroll through recorded parameters using UP/DOWN button
- (3) View detailed condition readings for each parameter

Note: If no data is available, the display will show "No freeze frame data stored"

4.5 MIL Status

Performing MIL status function, it will show you some detailed information, such as the Check Engine Light status, the Run Time with Check Engine Light on, the Distance with Check Engine Light on and etc.

| MIL Status | | |
|-------------------------------------|-------|---------|
| Check Engine Light Status | | |
| OFF | | |
| Run Time with Check Engine Light On | | |
| - | - | - |
| Day | Hours | Minutes |
| Distance with Check Engine Light On | | |
| 0 | 0.00 | |
| KM | Miles | |
| < 1/2 > | | |

4.6 Vehicle Information

The Vehicle Information function retrieves the vehicle's VIN number, calibration IDs (identifying control module software versions), and calibration verification numbers (CVNs), which are values calculated according to OBDII regulations to verify whether emission-related calibrations have been modified.

Note that multiple CVNs may be reported for a single control module and the calculation process may take several minutes to complete. Available options will vary depending on the connected vehicle.

4.7 O2 Sensor

O2 Sensor Test opens a menu of tests available for checking the integrity of the oxygen sensors.

Making a selection displays all of the pertinent O2S parameters for the specific test.

4.8 On-Board Monitoring (Mode 6)

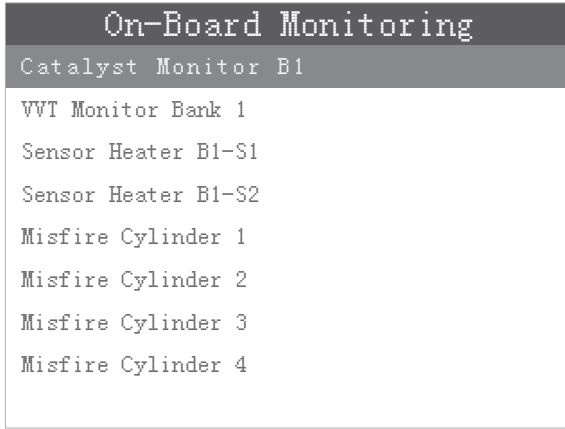
The On-Board Monitoring (Mode 6) function is useful after servicing or after clearing a vehicle ECU's memory. It receives test results for emission-related powertrain components and systems that are not continuously monitored for Non-CAN vehicles. And for CAN vehicles, it receives test data for emission-related powertrain components and systems that are and are not continuously monitored. It is vehicle manufacturer who is responsible for assigning test and component IDs.

NOTE:

Test results do not necessarily indicate a faulty component or system.

To request On-board Monitor Test (Mode 6) results:

- (1) Use the **UP/DOWN** key to highlight **On-board Monitor Test (Mode 6)** from **OBDII/EOBD** menu and press the OK key.
- (2) A screen will show:



(3) Use the **UP/DOWN** key to highlight a test group and press the **OK** key to confirm, a screen with details of the selected sensor displays. Use the **UP/DOWN** arrow keys to scroll through data to select lines.

4.9 EVAP System Test (Mode 8)

The EVAP System Test (Mode 8) allows the code reader to control operation of vehicle components, tests of systems.

EVAP(Evaporative Emission Control System) is an automotive system designed to prevent fuel vapor from escaping into the atmosphere, thereby reducing air pollution.

Its main functions include:

- (1) Preventing Fuel Vapor Leakage: The EVAP system captures and stores fuel vapor to avoid its escape into the environment while the vehicle is in operation or parked.
- (2) Storing Vapor: The system uses a fuel vapor canister to store vapors, minimizing their impact on the environment.
- (3) Recycling Vapor: When the engine is running, the system directs the stored vapor back to the combustion chamber via an electromagnetic valve for re-burning, enhancing fuel efficiency.
- (4) Monitoring for Leaks: The EVAP system is equipped with sensors that monitor pressure changes in real-time to detect any leaks within the system, ensuring its integrity.

(5) Improving Fuel Efficiency: By effectively capturing and reusing fuel vapor, the EVAP system contributes to improved fuel economy and reduced fuel consumption.

NOTE:

- Some manufactures do not allow tools to control vehicle systems.
- The manufacturer sets the criteria to automatically stop test. Refer to appropriate vehicle service manual before using this function.

4.10 I/M Readiness

I/M Readiness, or Inspection and Maintenance Readiness, refers to the status of a vehicle's on-board diagnostic (OBD) system's readiness to perform emissions testing. It indicates whether the various emissions-related systems on the vehicle are operating properly and have completed their self-diagnostic checks. This is crucial for passing state emissions inspections, as some monitors must be "ready" for the vehicle to be compliant.

Monitor Status:

- **OK** - Test completed successfully
- **INC (Incomplete)** - Test not yet finished (needs more driving)
- **N/A (Not Applicable)** - This monitor is not required/supported for your specific vehicle

There are two types of I/M Readiness tests:

- Since DTCs Cleared - shows the status of monitors since the last time diagnostic trouble codes (DTCs) were cleared.
- This Drive Cycle - shows the status of monitors since the beginning of the current driving cycle.

The code reader supports these standard OBDII monitor abbreviations and full names:

| No | Abbreviation | Name |
|----|--------------|--------------------------------------|
| 1 | MIS | Misfire Monitor |
| 2 | FUEL | Fuel System Monitor |
| 3 | CCM | Comprehensive Components Monitor |
| 4 | CAT | Catalyst Monitor |
| 5 | HCAT | Heated Catalyst Monitor |
| 6 | EVAP | Evaporative System Monitor |
| 7 | AIR | Air Conditioning Refrigerant Monitor |
| 8 | O2S | Oxygen Sensor Monitor |
| 9 | HTR | Oxygen Sensor Heater Monitor |

NOTE:

- To check I/M Readiness status, ensure the ignition is ON (engine OFF)
- Monitor availability varies by vehicle specifications.

To retrieve I/M Readiness Status data by one-click I/M Readiness hotkey:

1. Press the I/M Readiness hot key on the keypad and the following screen displays:

I/M Readiness

| | |
|-------|-----------|
| MIL | IGN ComPr |
| DTC 0 | Pd DTC 3 |

| | |
|------|---|
| MIS | ✓ |
| FUE | ✓ |
| CCM | ✓ |
| CAT | ✗ |
| HCAT | ⊘ |

| | |
|------|---|
| EVAP | ✗ |
| AIR | ✗ |
| O2S | ✗ |
| HRT | ✗ |

2. Colored LED and build-in beeper provide both visual and audible reminders for emission check and DTCs.

When the LED is:

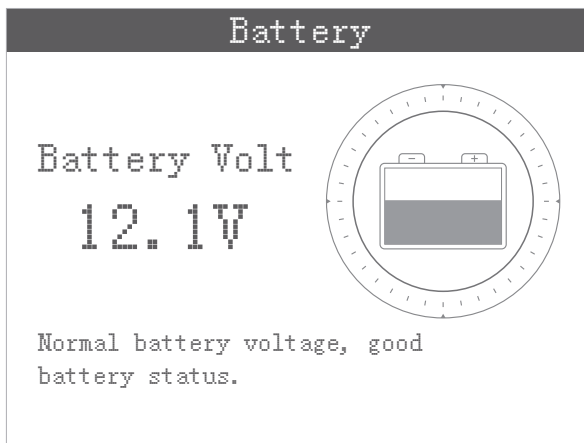
- Yellow - The tool finds a possible problem. It indicates the following two conditions:
 - (1) Pending DTCs exist. Please check the I/M Readiness test result screen and use the Read Codes function to view detailed codes information.
 - (2) Some of the vehicle's emission monitors have not working properly. If the I/M Readiness screen shows no DTC(including pending DTC), but the Yellow LED is still illuminated, it indicate a "Monitor Has Not Run" status.
- Red - Indicates some problems exist with one or more of the vehicle's system, and the vehicle is not ready for an Emissions Test. As well there are DTCs found. The MIL lamp on the vehicle's instrument panel will light steady. The problem that is causing the illumination of Red LED should be fixed before an Emissions Test or driving the vehicle further.

NOTE:

The built-in beeper which makes different tones corresponding to different LED indicators is invaluable when the test is performed while driving or in bright areas where LED illumination may not be visible.

5. Battery

This function provides real-time battery voltage monitoring.



6. DTC Lookup

This function provides instant access to the built-in diagnostic trouble code database, containing both SAE standard and manufacturer-specific code definitions.

To Search for DTC Definitions:

- (1) Select **DTC Lookup** from the main menu
- (2) Enter the code using:
 - **LEFT/RIGHT** to navigate character positions
 - **UP/DOWN** to change digit values
 - **OK** to confirm
- (3) View the code definition

Note:

- For manufacturer-specific codes (P1xxx/C1xxx/B1xxx/U1xxx), select the vehicle make
- If no definition is found, consult the vehicle service manual

7. Setting

This menu allows you to customize the code reader's configuration to suit your preferences.

Available Options:

- Language - Select display language
- Unit of Measure - Choose metric/imperial units
- Self Tests - Run device self-test
- Help - Access device information
- Beep - Turn beep on or off

7.1 Language

Selecting Language opens a screen that allows you to choose system language.

To configure system language:

- (1) Select **Language** from the Settings menu
- (2) Choose your desired language from the available list
- (3) Confirm selection with **OK**

7.2 Unit of Measure

This setting allows you to switch between measurement systems:

Available Options:

- Metric (km/h, °C)
- US Customary (mph, °F)

Configuration Steps:

- (1) Select **Unit of Measure** from the Settings menu
- (2) Choose preferred system
- (3) Confirm with **OK**

7.3 Self Tests

This feature verifies proper operation of the device hardware components.

Available Tests:

- Keys Test
- TFT Test
- LED Test

7.3.1 Keys Test

Selecting Keys Test option opens a screen that allows you to check the functionality of the keypad.

To test the keypad:

- (1) Select **Key Test** from Self-Test menu
- (2) Press any button - the display will show button name
- (3) Double-press ESC to exit

7.3.2 TFT Test

Selecting TFT Test option opens a screen that allows you to check the functionality of the screen.

To test the screen:

- (1) Select **TFT Test**
- (2) Visually inspect for:
 - Dead pixels
 - Color uniformity
- (3) Press ESC to complete

7.3.3 LED Test

Selecting LED Test option opens a screen that allows you to check the functionality of the LED.

To test the LED:

- (1) Select LED Test
- (2) All status LEDs will illuminate sequentially
- (3) Press ESC to terminate

7.4 Help

Access this section for essential product information and diagnostic references.

Available Resources:

- Device Information
- About OBD
- About Data Stream

7.4.1 Tool Information

This option will show information about your code reader, such as hardware and software version.

7.4.2 About OBD

This option will show you what is OBD, OBDII modes and vehicle coverage.

7.4.3 About Datastream

This option will show you some brief introductions about each sensor and module.

7.5 Beep

Opens a settings dialog to enable/disable the keypress sound from the built-in speaker.

8. Review

This function provides access to all recorded diagnostic data through the following menu options:

- Review DTC
- Review Datastream
- Review Freeze Frame
- Delete DTC Data
- Delete Datastream
- Delete Freeze Frame

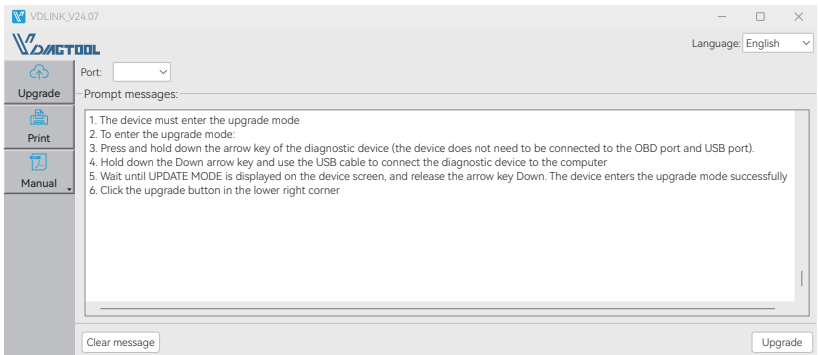
To review or delete recorded data:

- (1) Select **Review** from the main menu
- (2) Navigate through the six options using **UP/DOWN** button
- (3) Press **OK** to view or delete selected data

9. Updating

9.1 Updating the Code Reader

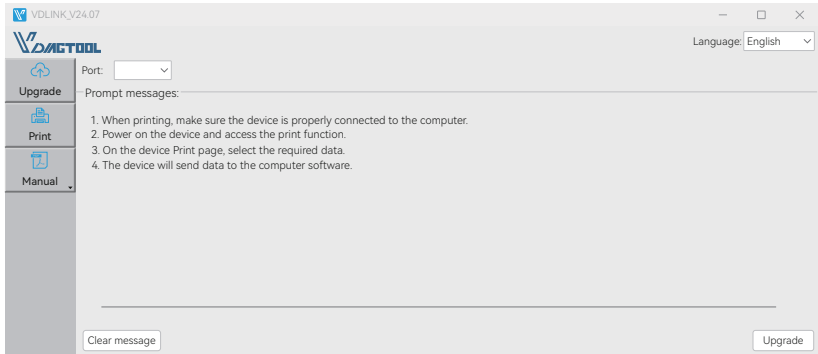
- (1) Download and install the VD30 Pro Update Client from <https://www.vdiagtool.com/support/downloads>.
- (2) Launch the VD30 Pro Update Client.



- (3) With the device powered off, hold the Down button while connecting via USB-C until "UPDATE MODE" appears.
- (4) Click Upgrade and wait for completion.

9.2 Printing

This function transfers saved diagnostic data to your computer as a .txt file for printing.



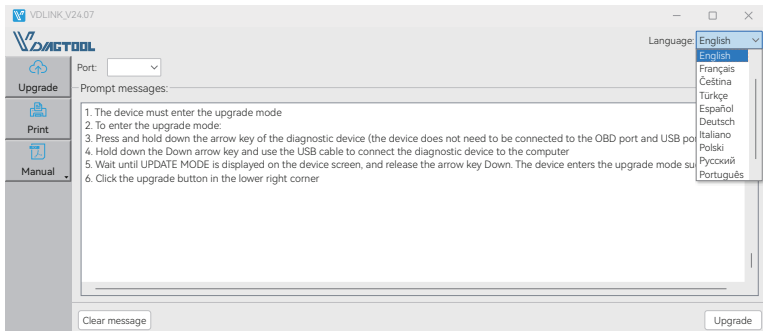
- (1) Open the VD30 Pro software and connect the device to your computer and
- (2) Click **Print** in the software
- (3) On the device, select the test results to print and confirm
- (4) The data will transfer as a .txt file
- (5) Click **Open File** in the software to locate and print the report

9.3 Manual

A copy of user manual in PDF format will show up when you click this option.

9.4 Software Language Setting

This option allows you to set the language of the update client.



10. Warranty

Limited Three Years Warranty

This warranty is expressly limited to buyer who purchase VDIAGTOOL VD30 Pro product for purposes of resale or use in the ordinary course of the buyer's business.

VDIAGTOOL VD30 Pro is warranted against defects in materials and workmanship for three years(36 months) from date of delivery to the buyer. This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any tool found to be defective is repair or replacement, and it shall not be liable for any consequential or incidental damages.

11. Contact Us

Warranty & Support

Email: support@vdiagtool.com

Website: www.vdiagtool.com

For wholesale business or become our distributors:

Email: sales@vdiagtool.com

Invent with us, test products before they hit market, help us make better products for everyone:

Email: inventers@vdiagtool.com

Create social media content, post online and help our community:

Email: marketing@vdiagtool.com

Follow Us on Social Media



Facebook Page: Search for "vdiagtool"

Facebook User Group: Search for "VDIAGTOOL OFFICIAL User Group"

Instagram: Search for "vdiagtool_official"

TikTok: Search for "vdiagtool_us"

YouTube: Search for "Vdiagtool Official"