

AERMOTOR V410

AERMOTOR V410 OBD2 Scanner User Manual

Model: V410
Brand: AERMOTOR

1. INTRODUCTION

The AERMOTOR V410 OBD2 Scanner is a professional diagnostic tool designed to quickly identify and resolve issues indicated by the Check Engine Light. This device supports all 10 OBD2 test modes, offering comprehensive vehicle health monitoring, live data graphing, I/M readiness checks, and battery voltage testing. It is an essential tool for both DIY enthusiasts and professional mechanics.

Note: Always repair the root cause before clearing codes. Error codes cannot be cleared if hardware problems persist.

2. WHAT'S IN THE BOX

- AERMOTOR V410 OBD2 Car Scanner
- User Manual
- Integrated OBD2 Cable (No separate charger/adaptor needed)

3. PRODUCT OVERVIEW

The V410 features a compact and durable design with a 2.8-inch backlit display for clear visibility in various lighting conditions. Its intuitive interface and well-labeled buttons ensure ease of use for all skill levels.



Image: The AERMOTOR V410 OBD2 Scanner, showcasing its display and buttons.



Image: Detailed dimensions of the AERMOTOR V410 OBD2 Scanner, showing its compact size and integrated cable length.

4. SETUP

The V410 is designed for plug-and-play operation, requiring no batteries or external power. Simply connect it to your vehicle's OBD2 port.

1. Locate your vehicle's OBD2 port. This is typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the 'ON' position (engine can be off or running, depending on the test).
3. Plug the V410's integrated cable into the OBD2 port. The device will power on automatically.

PLUG & PLAY

Easy To Use, Beginner Friendly



Image: Visual guide demonstrating the simple plug-and-play connection of the V410 scanner to a vehicle's OBD2 port.

5. OPERATING INSTRUCTIONS

The V410 supports all 10 OBD2 test modes, allowing for comprehensive vehicle diagnostics.

5.1. Full OBD2 Functions

The V410 can perform the following OBD2 functions:

- Read and Clear Diagnostic Trouble Codes (DTCs)
- View Live Data Stream
- View Freeze Frame Data
- I/M Readiness Status (Emissions Test)
- O2 Sensor Test
- On-Board Monitor Test
- Component Test
- Vehicle Information (VIN, CIN, CVN)
- Modules Present
- DTC Lookup Library

Quickly Identify Engine Issues And Turn Off Warning Light In Seconds

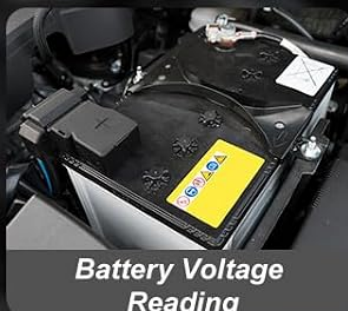


Image: Overview of the V410's capabilities, including automotive engine troubleshooting, reading/erasing codes, O2 sensor test, I/M readiness, vehicle information, real-time data, fault freeze frame, battery voltage, and EVAP system test.

To read diagnostic trouble codes (DTCs) and clear the Check Engine Light:

1. Navigate to the 'Read Codes' option on the main menu. The scanner will display any active or pending DTCs.

2. Consult the built-in DTC library or an external resource to understand the meaning of the codes.
3. After addressing the underlying issue, navigate to the 'Erase Codes' option. Confirm the action to clear the codes and turn off the Check Engine Light.

5.3. Live Data Graphing

The V410 displays real-time sensor data in an easy-to-read graphical format, allowing you to monitor critical engine parameters and identify intermittent issues.

- Monitor parameters such as vehicle speed, RPM, coolant temperature, fuel system status, intake air temperature, and more.
- The graphical display helps in detecting trends and anomalies instantly.

REAL-TIME LIVE DATA

View Data And Troubleshoot Cars' Problems Instantly



Image: The V410 screen showing real-time live data, including MIL status, misfire monitor, fuel system monitor, and component status, along with vehicle info and data stream values.

5.4. I/M Readiness Test

Check your vehicle's emissions system readiness with a single click to ensure it's prepared for annual smog tests.

1. Press the dedicated I/M Readiness button.

2. The screen will display the status of each emissions monitor as "Complete" or "Not Ready."
3. If any monitor is "Not Ready," follow the on-screen prompts or perform a drive cycle to complete the monitoring.

ONE CLICK TO READ CODES/ I/M READINESS

Get Ready For The Annual Smog Test
Then Pass In One Go



Image: The V410 displaying the I/M Readiness status, indicating whether various monitors are complete or incomplete for emissions testing.

5.5. Battery Voltage Test

The V410 can also function as a battery voltage tester, helping you identify weak batteries or charging system issues.

1. Connect the V410 to the OBD2 port.
2. Select the 'Battery Voltage' option from the menu.
3. The device will display the current battery voltage in real-time.

Voltage Guidelines:

- Below 10.8V: Too low to start the vehicle.
- 10.8V - 11.8V: Difficulty starting may occur.
- 11.8V - 12.8V: Normal voltage (before starting).
- 12.8V - 13.2V: Charging might be insufficient (after starting).
- 13.2V - 14.8V: Normal voltage (after starting).
- Above 14.8V: Risk of battery damage due to overvoltage.

BATTERY VOLTAGE TEST

Accurate Battery Voltage Readings. Prevent Unexpected "Fail To Start" Malfunctions And Avoid Breakdowns



Battery voltage

13.6v

PRIMOTOR® V410

Diagnostic Menu 1/4

Codes

Codes

Sensors

OBDII

DTC I/M EXIT

▲

◀ OK ▶

▼

Before Starting the Vehicle	After Starting the Vehicle
Below 10.8V: Too low to start the vehicle	Above 14.8V: Risk of battery damage due to overvoltage
10.8V – 11.8V: Difficulty starting may occur	12.8V – 13.2V: Charging may be insufficient
11.8V – 12.8V: Normal voltage	13.2V – 14.8V: Normal voltage

Image: The V410 displaying a battery voltage reading of 13.6V, along with a guide for interpreting voltage levels before and after starting the vehicle.

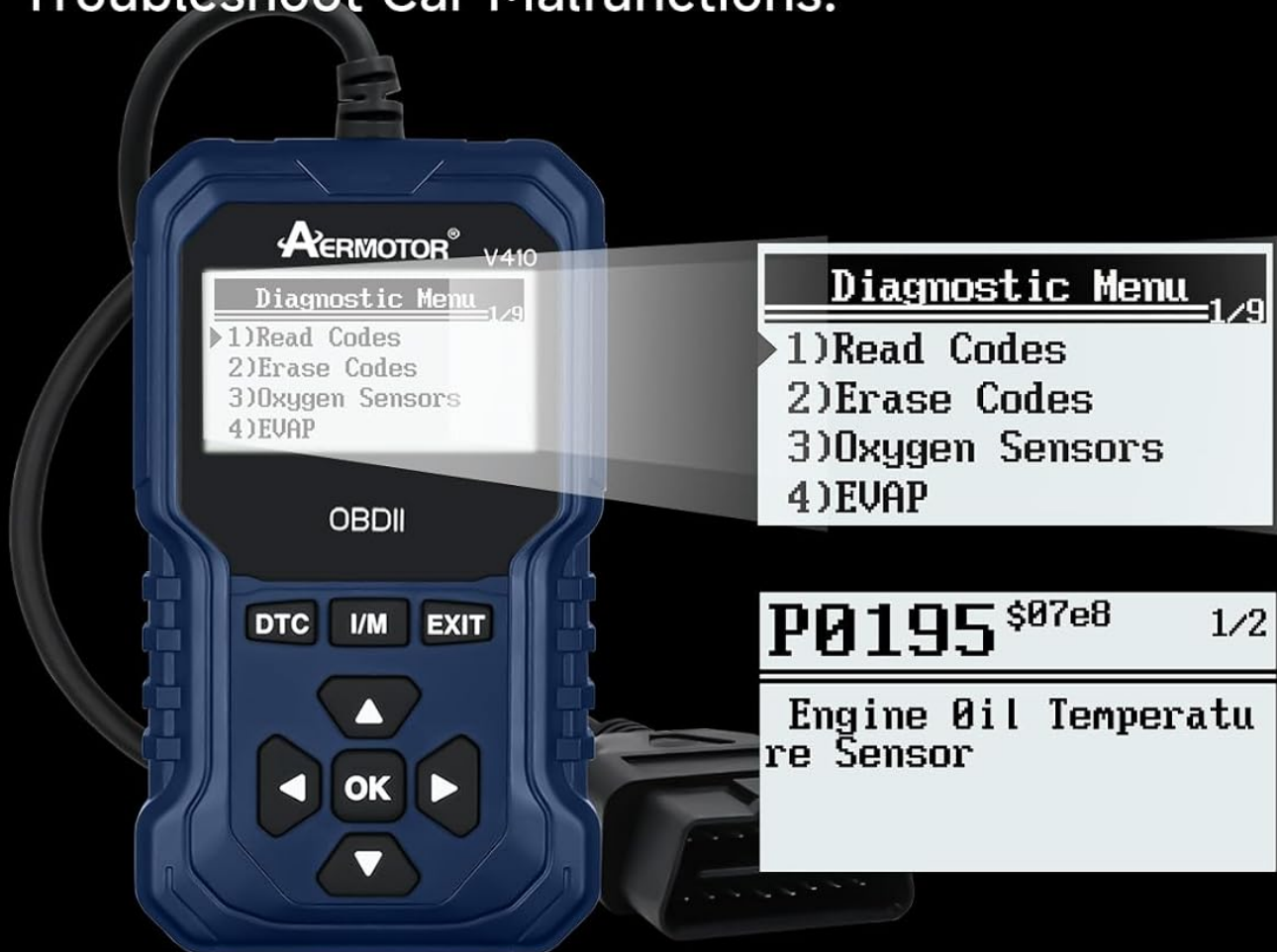
5.6. Powerful DTC Lookup

The V410 includes a built-in library of over 10,000 Diagnostic Trouble Codes (DTCs), eliminating the need to search online for code definitions. This feature provides accurate and simple diagnosis, helping you troubleshoot car malfunctions efficiently.

POWERFUL DTC LOOKUP

Built In 10000+DTCS, Without Searching Online

Accurate And Simple Diagnosis, Easily
Troubleshoot Car Malfunctions.



What's Wrong With Your Car



Engine Fails To Start



Fuel Consumption
Suddenly Increased



Worried About Smog Test

Image: The V410 screen showing the diagnostic menu with options to read/erase codes and access oxygen sensors, alongside a DTC lookup result for P0195, indicating an Engine Oil Temperature Sensor issue.

6. COMPATIBILITY

The AERMOTOR V410 is compatible with all OBDII vehicles, including American, European, and Asian cars, light trucks, and SUVs manufactured after 1996. It supports all standard OBDII protocols:

- SAE J1850 PWM (41.6 Kbaud)
- SAE J1850 VPW (10.4 Kbaud)
- ISO9141-2 (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 (29bit ID, 250 Kbaud)

The device also supports 8 languages: English, Spanish, German, Russian, French, Dutch, and Italian.

WIDER CAPABILITY

COMPATIBLE WITH 98% OF OBDII CARS MADE AFTER 1996

Plug and Play



Supports 9 OBDII/EOBD Standard Protocols

1. SAE J1850 PWM (41.6Kbaud)
2. SAE J1850 VPW (10.4Kbaud)
3. ISO9141-2(5 baud init, 10.4Kbaud)
4. ISO14230-4 KWP (5 baud init, 10.4 Kbaud)
5. ISO14230-4 KWP (fast init, 10.4 Kbaud)
6. ISO15765-4 CAN (11bit ID, 500 Kbaud)
7. ISO15765-4 CAN (29bit ID, 500 Kbaud)
8. ISO15765-4 CAN (11bit ID, 250 Kbaud)
9. ISO15765-4 CAN (29bit ID, 250 Kbaud)



Chinese



English



Spanish



German



Russian



French



Dutch



Italian

Image: The V410 scanner connected to a vehicle, illustrating its wide compatibility with OBDII cars made after 1996 and listing the 9 supported OBDII/EOBD standard protocols and 8 supported languages.

7. MAINTENANCE

To ensure the longevity and optimal performance of your AERMOTOR V410 OBD2 Scanner:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Store the scanner in a dry, cool place, away from direct sunlight and extreme temperatures.
- Avoid dropping the device or subjecting it to strong impacts.
- Regularly check the integrated cable for any signs of damage or wear.

8. TROUBLESHOOTING

If you encounter issues with your V410 scanner, consider the following:

- **Device Not Powering On:** Ensure the OBD2 cable is securely connected to the vehicle's OBD2 port and the vehicle's ignition is in the 'ON' position. The device draws power directly from the vehicle.
- **Communication Error:** Verify that your vehicle is OBDII compliant (generally 1996 and newer for US vehicles, later for European/Asian). Check the connection to the OBD2 port. Try the scanner on another OBDII compliant vehicle if possible to rule out a vehicle-specific issue.
- **Codes Cannot Be Cleared:** If the underlying hardware issue causing the Diagnostic Trouble Code (DTC) has not been resolved, the code will reappear immediately or cannot be cleared. Address the root cause of the problem before attempting to clear codes.
- **Incorrect Readings:** Ensure the vehicle's engine is running or the ignition is on, as required for certain tests. Refer to the specific function's instructions.

9. SPECIFICATIONS

Feature	Specification
Model Number	V410
Display Size	2.8 inches
Power Source	Vehicle OBD2 Port (Cable Electric)
Product Dimensions (L x W x H)	8.9 x 2.4 x 15.2 cm (3.5 x 0.94 x 5.98 inches)
Cable Length	72.7 cm (28.42 inches)
Weight	281 g
Supported Protocols	KWP2000, J1850 VPW, ISO9141, J1850 PWM, CAN

Supported Languages	English, Spanish, German, Russian, French, Dutch, Italian
Operating System	Built-in system
Vehicle Fit Type	Universal Fit

10. WARRANTY AND SUPPORT

The AERMOTOR V410 OBD2 Scanner comes with a 1-year warranty and lifetime technical support. For any questions, issues, or technical assistance, please contact AERMOTOR customer service through the retailer where you purchased the product.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

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