



Manuals.plus /

› LKAHYUIBC /

› LKAHYUIBC V302 OBD2 Scanner User Manual

LKAHYUIBC V302

LKAHYUIBC V302 OBD2 Scanner User Manual

1. INTRODUCTION

Thank you for choosing the LKAHYUIBC V302 OBD2 Scanner. This device is designed to assist in diagnosing automotive issues by reading and clearing diagnostic trouble codes (DTCs), viewing live data, and performing various diagnostic tests on OBD2-compliant vehicles. This manual provides essential information for the safe and effective operation of your scanner.

2. SAFETY INFORMATION

- Always perform automotive testing in a safe environment.
- Wear eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, and test equipment away from moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area; exhaust gases are poisonous.
- Put the transmission in PARK (for automatic) or NEUTRAL (for manual) and ensure the parking brake is engaged.
- Place blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be cautious when working around ignition coils, distributor caps, ignition wires, and spark plugs, as these components create hazardous voltages when the engine is running.
- The scanner is powered by the vehicle's OBD2 port. Do not attempt to power it from other sources unless specified.

3. PRODUCT OVERVIEW

The LKAHYUIBC V302 OBD2 Scanner features a color LCD screen for clear display of diagnostic information and intuitive navigation buttons for ease of use.



Figure 3.1: Front view of the LKAHYUIBC V302 OBD2 Scanner. The device features a color LCD screen at the top, displaying various diagnostic icons such as Code Reading, Clear Code, Freeze Frame, I/M, Vehicle Information, and Data Flow.

Flow. Below the screen are physical buttons: 'DTC', 'BAT', 'OK', 'ESC', and directional arrows (Up, Down).

3.1 Device Components

- **Color LCD Screen:** Displays diagnostic menus, data, and results.
- **OBD2 Connector Cable:** Connects the scanner to the vehicle's OBD2 port.
- **DTC Button:** Directly accesses Diagnostic Trouble Code functions.
- **BAT Button:** Checks battery voltage.
- **OK Button:** Confirms selections or actions.
- **ESC Button:** Returns to the previous screen or cancels an operation.
- **Up/Down Arrow Buttons:** Navigates through menu options and data.

4. SETUP

4.1 Connecting the Scanner to the Vehicle

1. Turn the vehicle's ignition OFF.
2. Locate the vehicle's 16-pin Data Link Connector (DLC). The DLC is usually located under the dashboard on the driver's side. If not, refer to your vehicle's service manual for its location.
3. Firmly plug the scanner's OBD2 connector into the vehicle's DLC.
4. Turn the vehicle's ignition ON (engine off or running, depending on the test). The scanner will automatically power on.

5. OPERATING INSTRUCTIONS

Once connected and powered on, the scanner will display the main menu. Use the Up/Down arrow buttons to navigate and the OK button to select options.

5.1 Reading and Clearing Diagnostic Trouble Codes (DTCs)

This function allows you to retrieve and erase fault codes stored in the vehicle's Engine Control Unit (ECU).

1. From the main menu, select "Code Reading" or press the "DTC" button.
2. The scanner will communicate with the vehicle and display any stored DTCs.
3. To clear codes, select "Clear Code" from the main menu or a relevant sub-menu. Confirm the action when prompted. Clearing codes will turn off the Malfunction Indicator Lamp (MIL) or "Check Engine" light, but the underlying issue must be resolved to prevent codes from reappearing.

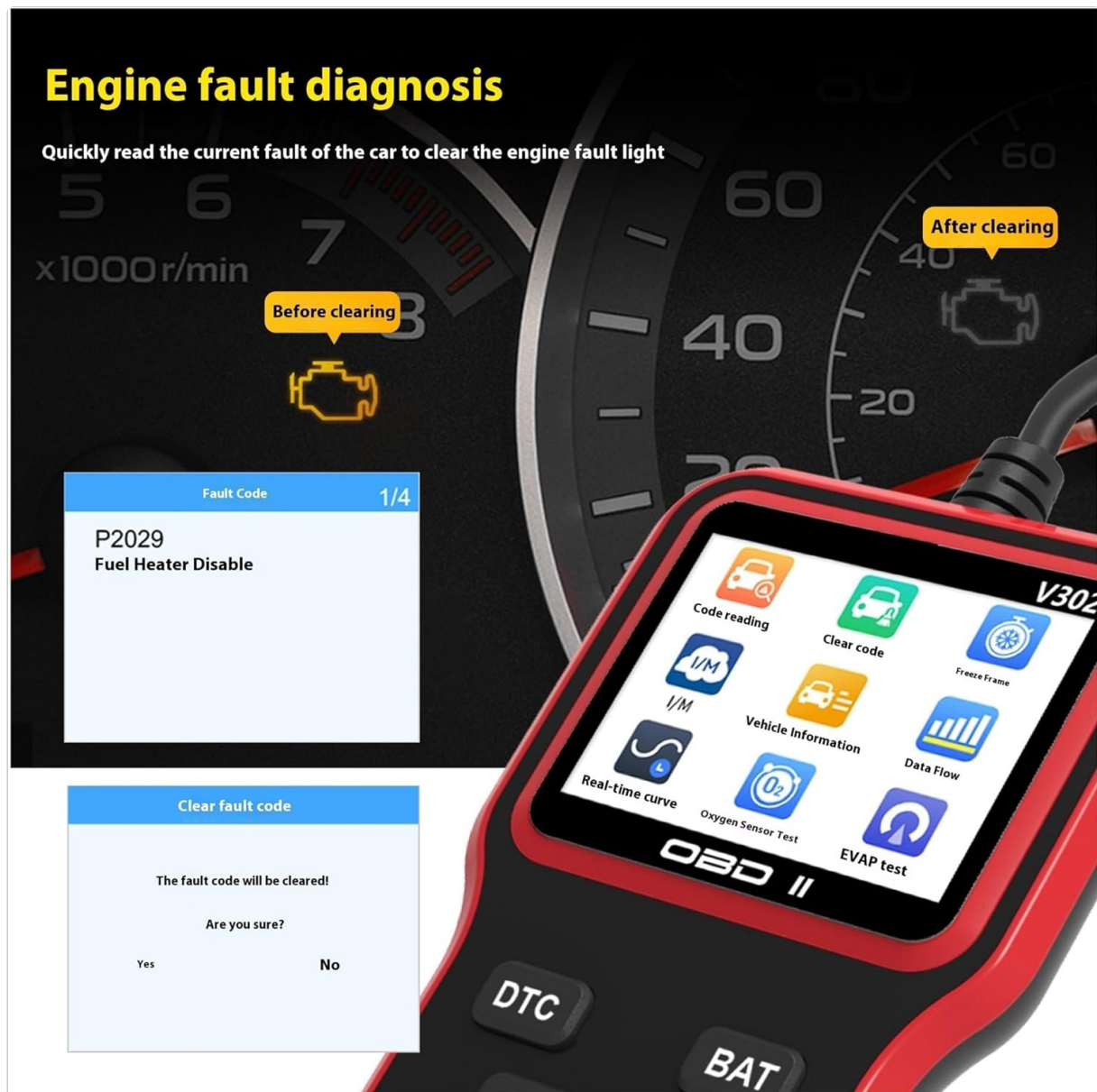


Figure 5.1: The scanner screen showing an engine fault diagnosis (P2029 Fuel Heater Disable) and the option to clear the fault code. The image also illustrates the 'Before clearing' and 'After clearing' states of the engine fault light on a vehicle's dashboard.

5.2 Viewing Live Data

The Live Data function displays real-time operational parameters from the vehicle's sensors and systems.

1. From the main menu, select "Data Flow" or "Real-time curve".
2. The scanner will display a list of available data streams, such as engine RPM, vehicle speed, coolant temperature, fuel system status, and oxygen sensor readings.
3. Use the Up/Down arrow buttons to scroll through the data.



Figure 5.2: The scanner displaying multiple pages of real-time data streams, including Fuel System 2 Status, Load Value, Coolant Temperature, Fuel Pressure, Engine Speed, and Oxygen Sensor Voltage. This feature allows for monitoring nearly a hundred real-time data streams.

5.3 Other Diagnostic Functions

- **I/M Readiness:** Checks the status of emission-related monitoring systems to determine if they are ready for an emissions test.
- **Freeze Frame:** Captures a snapshot of vehicle operating conditions at the moment a DTC was set.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).
- **Oxygen Sensor Test:** Monitors and tests the functionality of the oxygen sensors.
- **EVAP Test:** Initiates a test of the Evaporative Emission Control System.
- **Battery Voltage Check:** Press the 'BAT' button to quickly view the vehicle's battery voltage.

6. MAINTENANCE

6.1 Cleaning the Device

Use a soft, damp cloth to clean the scanner's casing. Do not use abrasive cleaners or solvents. Keep the screen free of dust and smudges for optimal visibility.

6.2 Storage

Store the scanner in a dry, clean environment away from extreme temperatures and direct sunlight. Keep the OBD2 connector free from dirt and debris.

7. TROUBLESHOOTING

- **Scanner does not power on:** Ensure the OBD2 connector is firmly plugged into the vehicle's DLC. Check the vehicle's ignition status. Verify the vehicle's battery has sufficient charge.
- **"No Communication" error:** Verify the vehicle supports the OBD2 protocol. Ensure the ignition is ON. Check for a blown fuse in the vehicle's OBD2 circuit. Try the scanner on another OBD2-compliant vehicle to rule out scanner malfunction.
- **Screen is blank or frozen:** Disconnect the scanner from the vehicle, wait a few seconds, and reconnect. If the issue persists, contact customer support.
- **Incorrect data readings:** Ensure the vehicle's engine is running (if required for the specific data stream). Verify the scanner's connection is stable.

8. SPECIFICATIONS

Brand	LKAHYUIBC
Model	V302
Display	Color LCD Screen
Operating Voltage	8V ~ 36V (via vehicle OBD2 port)
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Compatibility	OBD2-compliant vehicles (Universal Fit)
Power Source	Vehicle OBD2 port (may include internal battery for memory/settings)

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your purchase receipt for warranty claims.