EDIAG YA-201

EDIAG YA-201 OBD2 Scanner User Manual

Comprehensive guide for operating and maintaining your EDIAG YA-201 OBD2 Scanner.

1. Introduction

The EDIAG YA-201 is a powerful and user-friendly OBD2 diagnostic scan tool designed to help vehicle owners and DIY enthusiasts quickly identify and resolve common engine-related issues. This manual provides detailed instructions on how to set up, operate, and maintain your device, ensuring you get the most out of its comprehensive diagnostic capabilities.

2. Product Overview

The EDIAG YA-201 features a compact design with a 2.4-inch TFT colorful LCD display, intuitive button layout, and a durable OBDII connector cable. It is engineered for ease of use, providing quick access to diagnostic functions.

Figure 2.1: Front view of the EDIAG YA-201 OBD2 Scanner, showing the display and control buttons.

Key Features:

- **Full 10 OBDII Modes:** Supports all standard OBDII diagnostic functions.
- **Live Data Stream:** Displays real-time data from vehicle sensors.
- **Battery Voltage Graphing:** Monitors vehicle battery status.
- **DTC Lookup:** Built-in library for quick code definitions.
- **I/M Readiness:** Checks emission system readiness.
- **Plug & Play:** No batteries or chargers required, powers directly from the vehicle.

Figure 2.2: The EDIAG YA-201 displaying its main features and capabilities.

Figure 2.3: Visual representation of the 10 full OBDII modes supported by the scanner, including Read Codes, Erase Codes, Live Data, I/M Readiness, View Freeze Frame, O2 Sensor Test, DTC Code Look Up, On-board Monitor Test (Mode 6), Vehicle Info, and EVAP System Test (Mode 8).

3. Setup

The EDIAG YA-201 is designed for immediate use with its plug-and-play functionality. No complex setup or external power source is required.

1. **Locate the OBDII Port:** The 16-pin OBDII Data Link Connector (DLC) is typically located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you cannot locate it.
2. **Connect the Scanner:** Firmly plug the EDIAG YA-201's OBDII connector into the vehicle's DLC.
3. **Power On:** Once connected, the scanner will automatically power on and display the main menu. If the device does not power on, ensure the vehicle's ignition is in the "ON" position (engine off or running, depending on the desired test).

4. Operating Instructions

Navigate the scanner's menu using the directional buttons (Up, Down, Left, Right) and the OK/Enter button. The Return button allows you to go back to the previous screen.

4.1 Main Menu Options

- **Diagnosis:** Accesses the primary OBDII diagnostic functions.
- **DTC Lookup:** Provides definitions for Diagnostic Trouble Codes.
- **Battery:** Checks the vehicle's battery voltage.
- **Settings:** Configures device preferences.

4.2 Diagnostic Functions

From the main menu, select "Diagnosis" and press OK to access the following functions:

- **Read Codes (DTCs):**

  Retrieves Diagnostic Trouble Codes from the vehicle's Engine Control Unit (ECU). Codes are categorized as:

  - **Stored Codes:** Confirmed fault codes that have illuminated the Malfunction Indicator Lamp (MIL).
  - **Pending Codes:** Faults detected during the current or last driving cycle that have not yet illuminated the MIL.
  - **Permanent Codes:** Codes that cannot be cleared by simply erasing DTCs. They clear only after the fault is confirmed to be fixed by the ECU through driving cycles.

- **Erase Codes:**

  Clears all Diagnostic Trouble Codes from the vehicle's ECU and turns off the Malfunction Indicator Lamp (MIL). *Note: Erasing codes does not fix the underlying problem. The MIL will re-illuminate if the fault persists.*

- **Live Data:**

  Displays real-time operating parameters of the vehicle. This function is crucial for diagnosing intermittent problems and verifying repairs.

  - **All Datastream:** Shows all available live data parameters in text format.
  - **Graph Display:** Presents selected live data parameters in a graphical format for easier analysis of trends and fluctuations.
  - **Record:** Allows recording of live data for later review.
  - **Playback:** Reviews previously recorded live data.

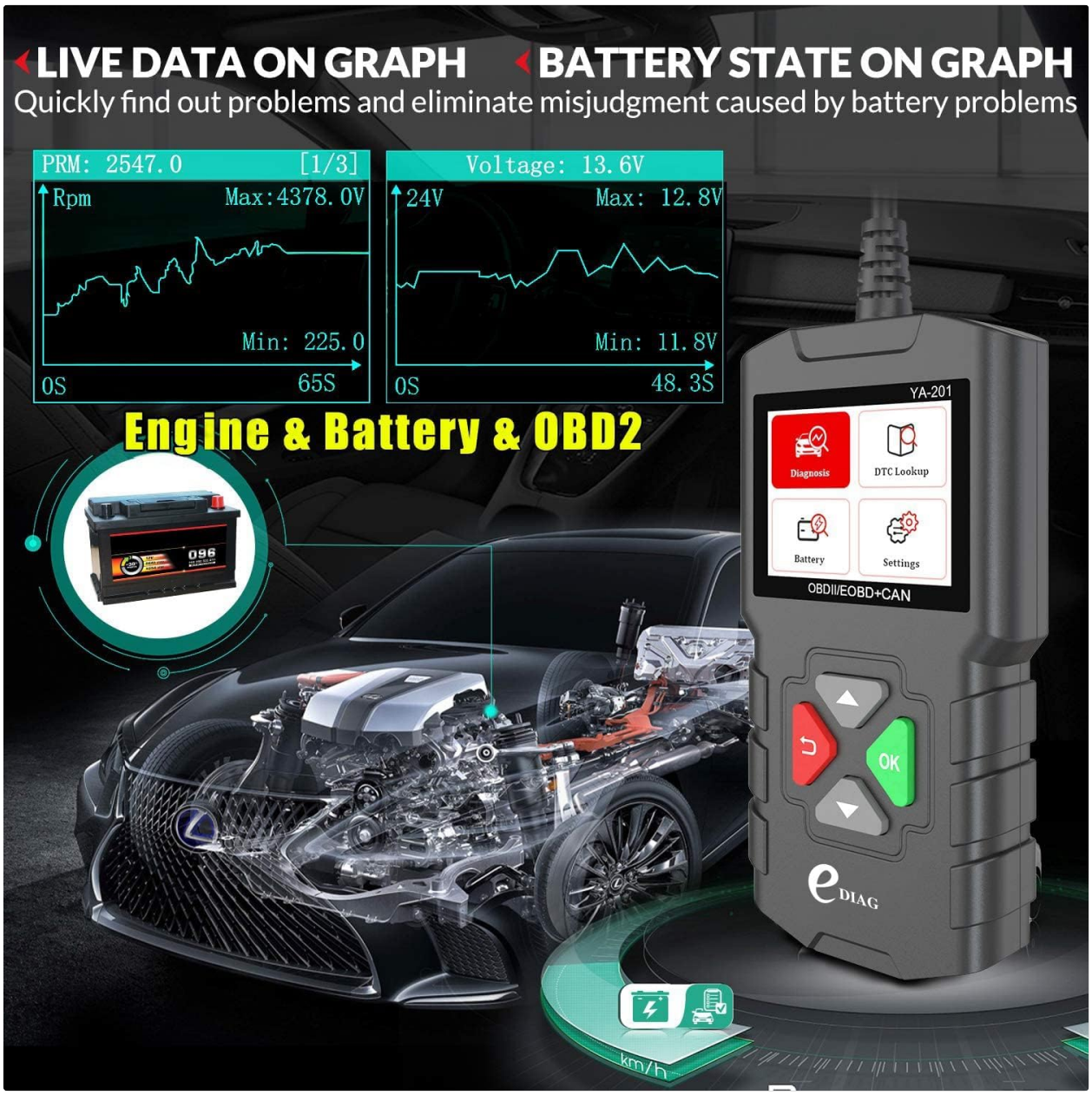


Figure 4.1: The scanner showing live data parameters and a graphical representation of battery voltage.

- **Freeze Frame:**

  Captures a snapshot of vehicle operating conditions at the moment a fault code is set. This data helps in determining the cause of the fault.

- **I/M Readiness:**

  Indicates whether the various emission-related systems on the vehicle are operating correctly and have completed their diagnostic tests. This is essential for emissions testing.

- **Mode 6 (On-board Monitoring Test):**

  Accesses the results of on-board diagnostic monitoring tests for specific components/systems that are not continuously monitored. This includes misfire cylinder data.

- **O2 Sensor Test:**

  Retrieves O2 sensor monitoring test results for the most recently completed tests from the vehicle's on-board computer.

- **EVAP Systems (Mode 8) Component Test:**

  Allows initiation of a leak test for the vehicle's EVAP (Evaporative Emission Control) system.

- **Vehicle Information:**

Displays the vehicle's Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

4.3 DTC Lookup

Select "DTC Lookup" from the main menu. Enter the 5-digit code to view its definition directly on the screen, saving time from searching online.

Figure 4.2: The scanner's DTC Lookup feature providing a definition for a selected trouble code.

4.4 Battery Test

Select "Battery" from the main menu to view the real-time voltage of the car battery. This feature helps in monitoring battery health and determining if a replacement is needed.

4.5 Settings

Select "Settings" from the main menu to customize the device:

- **Language:** Change the display language.

- **Unit:** Switch between Metric and Imperial units for data display.
- **Data Logging:** Manage recorded data.
- **Self Test:** Perform internal tests on the scanner.
- **System Info:** View device firmware version and other system details.

5. Official Product Video

Your browser does not support the video tag.

Video 5.1: This video provides an in-depth explanation of why the EDIAG YA-201 is considered a professional code reader, detailing its various functions and capabilities.

6. Maintenance

To ensure the longevity and optimal performance of your EDIAG YA-201 scanner, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a clean, dry environment away from extreme temperatures and direct sunlight.
- **Software Updates:** The EDIAG YA-201 offers lifetime free software updates. Regularly check for and install updates to ensure compatibility with newer vehicles and access to improved features. Refer to the manufacturer's website for update instructions.

7. Troubleshooting

If you encounter issues with your EDIAG YA-201, consider the following common troubleshooting steps:

- **No Power/Display:**
  - Ensure the OBDII connector is firmly plugged into the vehicle's DLC.
  - Verify the vehicle's ignition is in the "ON" position.
  - Check the vehicle's fuse for the OBDII port (usually labeled "CIGAR" or "AUX POWER").
- **Communication Error:**
  - Confirm the vehicle supports the OBDII protocol (most vehicles after 1996 do).
  - Ensure the ignition is "ON" or the engine is running.
  - Try connecting the scanner to a different OBDII-compliant vehicle to rule out a scanner issue.
  - Check for any loose connections or damaged cables.
- **Codes Not Clearing:**

- Ensure the underlying fault has been repaired. Codes will reappear if the problem persists.
- Some permanent codes require multiple drive cycles to clear after a repair.

8. Specifications

Attribute	Detail
Brand	EDIAG
Model Number	SC104 (YA-201)
Product Dimensions	5.4"L x 2.9"W x 0.9"H (approx. 13.7cm x 7.4cm x 2.3cm)
Item Weight	7.8 ounces (approx. 221g)
Display	2.4" TFT Colorful LCD (320x240 resolution)
Operating System	OBD2
Operating Temperature	-10°C to 40°C (14°F to 104°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
External Power	9.0V to 16.0V via vehicle battery
UPC	724190801321

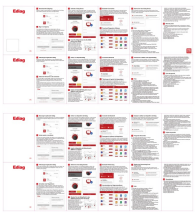
9. Warranty & Support

For technical support or inquiries, please contact EDIAG customer service. While specific warranty details are not provided in this manual, general support can be obtained via the following contact:

- **Email:** ucarobdsales@hotmail.com

Please have your product model (YA-201) and any relevant details ready when contacting support.

Related Documents - YA-201

	[EDIAG YA201 OBD2 Scanner User Manual: Features, Functions, and Diagnostics] Comprehensive user manual for the EDIAG YA201 OBD2 Scanner. Learn about its full OBDII functions, live data graphing, EVAP and O2 sensor tests, Mode 6/8 diagnostics, and engine fault code reading. Includes lifetime free updates for automotive diagnostics.
	[Ediag Automotive Diagnostic Device IC Label Information] Details on the IC label specifications, sample, and location for the Ediag Automotive Diagnostic Device, including FCC and IC identification, and compliance marks.
	[KINGBOLEN Ediag OBD2 Scanner User Guide] A comprehensive guide to setting up and using the KINGBOLEN Ediag All Systems OBD2 Scanner, including app download, device activation, Bluetooth connection, and warranty information.
	[Soloscan Automotive Diagnostic Tool User Guide] A comprehensive guide to setting up, activating, and using the Soloscan OBD2 automotive diagnostic tool with the Ediag app, covering device connection, software downloads, troubleshooting, and warranty information.
	[KINGBOLEN Ediag: Quick Start Guide for Bluetooth OBD2 Car Diagnostic Tool] A comprehensive guide to setting up and using the KINGBOLEN Ediag Bluetooth OBD2 car diagnostic tool. Learn to download the Ediag app, activate your device, connect via Bluetooth, download vehicle-specific software, and access diagnostic functions. Includes FAQs and warranty details.