ANCEL AD310

ANCEL AD310 Classic Enhanced Universal OBD II Scanner User Manual

Model: AD310 | Brand: ANCEL

1. Introduction

The ANCEL AD310 is a highly effective and user-friendly OBD II scanner designed to assist vehicle owners in diagnosing and understanding issues related to their vehicle's engine. This tool allows you to quickly identify the cause of the Check Engine Light (CEL), read and clear Diagnostic Trouble Codes (DTCs), and access crucial vehicle information without needing professional assistance for basic diagnostics.

It is a compact, sturdy, and portable device, making it an essential tool for any car owner looking to perform quick checks and understand their vehicle's health. The AD310 is designed for ease of use, providing accurate and fast results directly from your vehicle's OBDII port.





Figure 1.1: ANCEL AD310 Classic Enhanced Universal OBD II Scanner.

2. Setup and Connection

The ANCEL AD310 is designed for simple plug-and-play operation. No batteries or external chargers are required as the device draws power directly from your vehicle's OBDII Data Link Connector (DLC).

2.1 Locating the OBDII Port

The OBDII port is typically located under the dashboard on the driver's side of the vehicle. In some vehicles, it may be found under a panel below the handbrake in the center console.

2.2 Connecting the Scanner

1. Ensure the vehicle's ignition is in the OFF position.
2. Locate the 16-pin OBDII Data Link Connector (DLC) in your vehicle.
3. Firmly plug the ANCEL AD310's cable into the vehicle's DLC.
4. Turn the vehicle's ignition to the ON position (do not start the engine). The scanner will power on automatically.

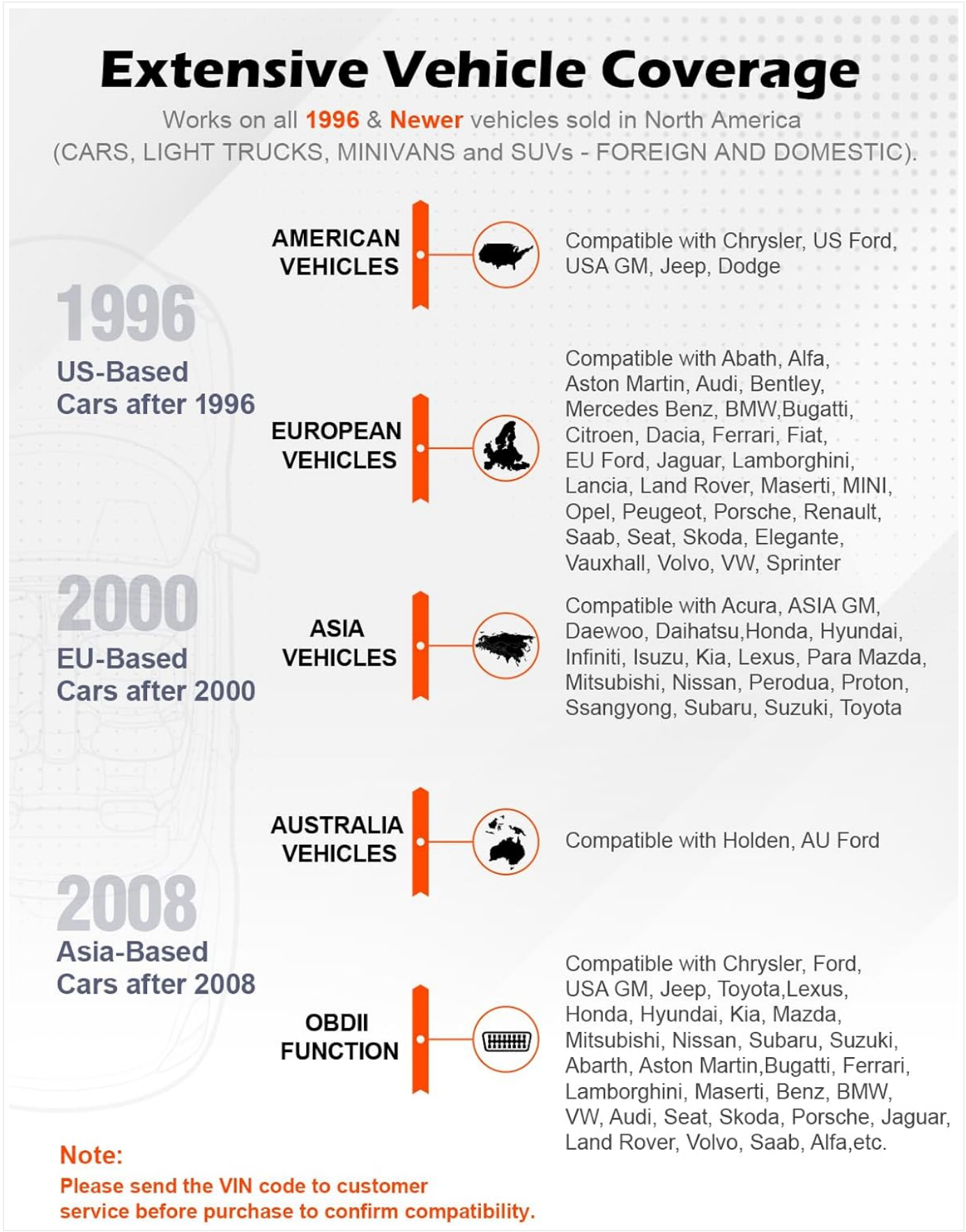


Figure 2.1: Step-by-step guide for using the OBDII code reader.

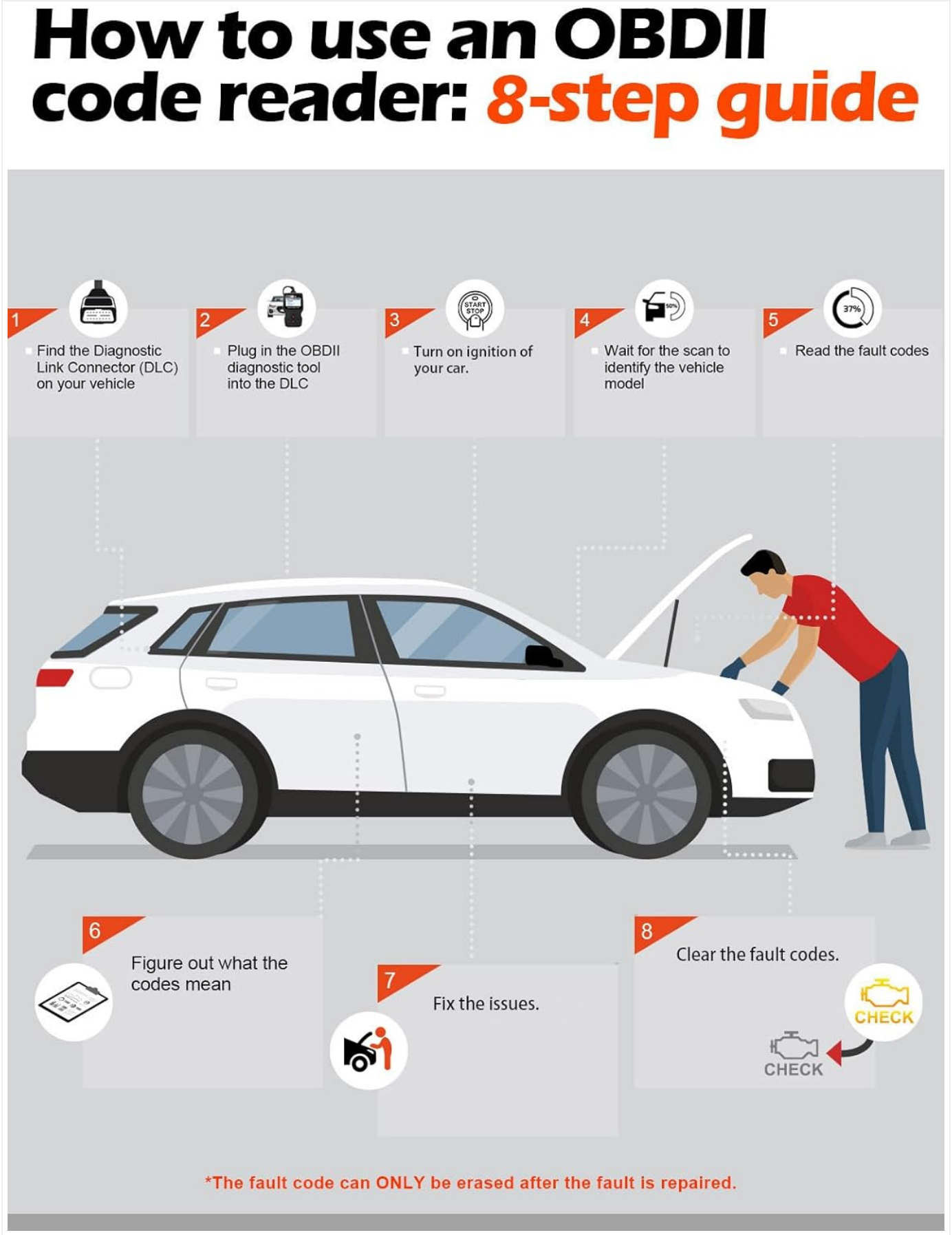


Figure 2.2: The ANCEL AD310 scanner and its included user manual.

3. Operating Instructions

Once connected and powered on, the ANCEL AD310 will display the main menu. Use the UP/DOWN arrow buttons to navigate through the options and the ENTER button to select.

3.1 Reading Diagnostic Trouble Codes (DTCs)

To read codes, select 'Read Codes' from the Diagnostic Menu. The scanner will display current, pending, and permanent codes, along with their definitions. This helps identify the specific issue triggering the Check Engine Light.



Figure 3.1: Understanding OBD-II Code Definitions.

3.2 Erasing Diagnostic Trouble Codes (DTCs)

After diagnosing and fixing a vehicle issue, you can clear the Check Engine Light by selecting 'Erase Codes'.**Important:** Codes should only be cleared after the underlying problem has been resolved. Clearing codes without fixing the issue will result in the light reappearing.

3.3 Viewing Live Data

The 'Live Data' function allows you to monitor real-time operational parameters of your vehicle's engine. This includes sensor readings, engine RPM, vehicle speed, and more. This feature is useful for observing how components are functioning during operation.

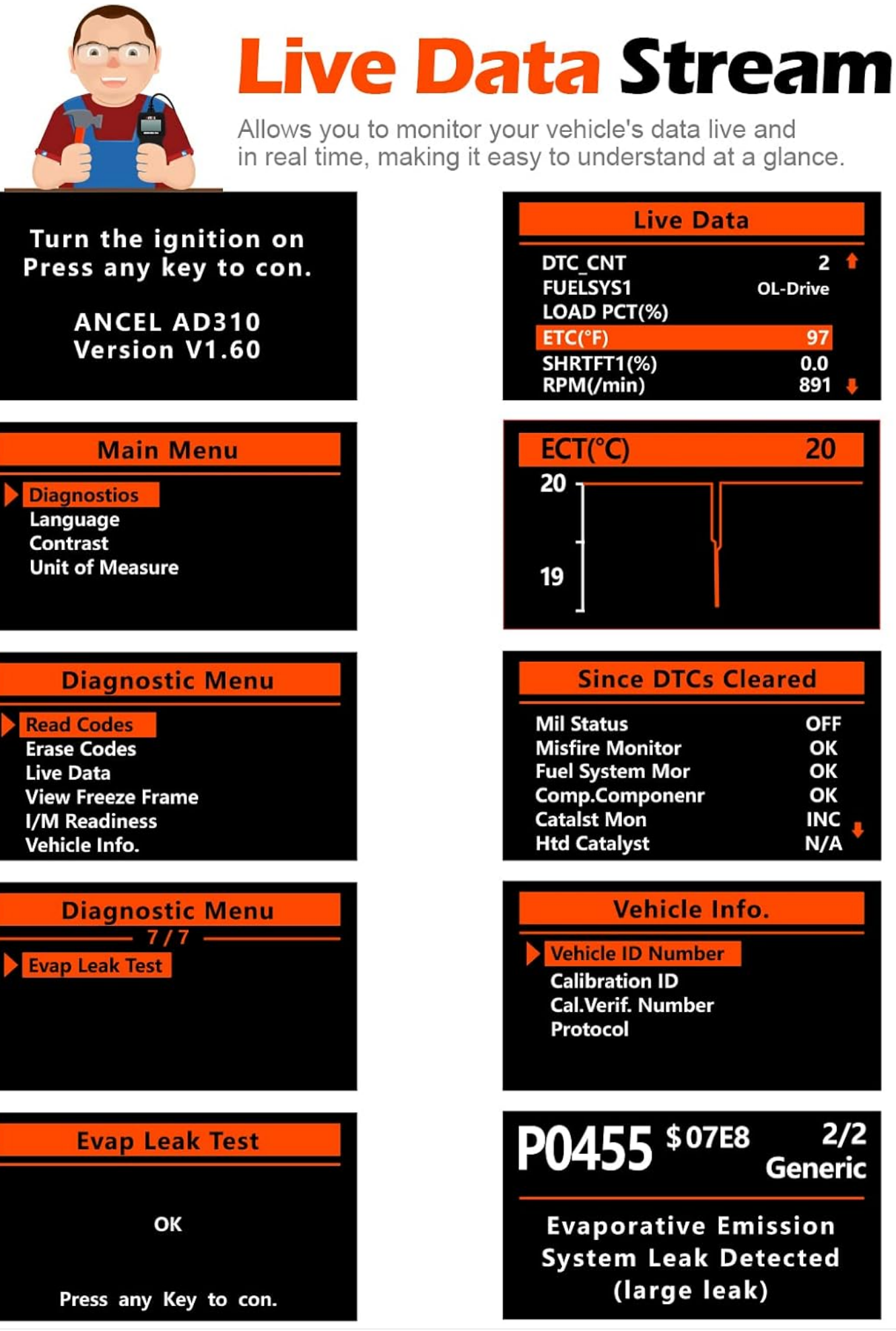


Figure 3.2: Live Data Stream interface showing various engine parameters.

3.4 Viewing Freeze Frame Data

When an emission-related fault occurs, the vehicle's computer stores a snapshot of operating conditions at the time of the fault. This 'Freeze Frame' data can help pinpoint the conditions under which the fault occurred.

3.5 I/M Readiness Monitor

This function checks the readiness of various emission-related systems to determine if they are operating correctly and if the vehicle is ready for an emissions test. 'I/M' stands for Inspection/Maintenance.

3.6 Vehicle Information

The scanner can retrieve vehicle information such as the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

3.7 EVAP Leak Test

The EVAP (Evaporative Emission Control) Leak Test function allows the scanner to initiate a test of the vehicle's EVAP system, which is responsible for preventing fuel vapors from escaping into the atmosphere. This helps in diagnosing leaks within the system.



Figure 3.3: EVAP Leak Test functionality and system overview.

4. Vehicle Compatibility

The ANCEL AD310 is designed to be compatible with a wide range of vehicles that support OBDII protocols. It supports

all OBDII protocols including KWP2000, J1850 VPW, ISO9141, J1850 PWM, and CAN.

- **US-Based Vehicles:** Compatible with most 1996 and newer US-based cars, light trucks, and SUVs (e.g., Chrysler, US Ford, USA GM, Jeep, Dodge).
- **EU-Based Vehicles:** Compatible with most 2000 and newer EU-based cars (e.g., Abath, Alfa, Aston Martin, Audi, Bentley, BMW, Bugatti, Citroen, Dacia, Ferrari, Fiat, EU Ford, Jaguar, Lamborghini, Lancia, Land Rover, Maserati, MINI, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, Elegante, Vauxhall, Volvo, VW, Sprinter).
- **Asian Vehicles:** Compatible with most 2000 and newer Asian cars (e.g., Acura, Asia GM, Daewoo, Daihatsu, Honda, Hyundai, Infiniti, Isuzu, Kia, Lexus, Para Mazda, Mitsubishi, Nissan, Perodua, Proton, Ssangyong, Subaru, Suzuki, Toyota).
- **Australian Vehicles:** Compatible with most 2008 and newer Australian cars (e.g., Holden, AU Ford).

Note: The AD310 is primarily an engine code reader and does not support other systems such as ABS, transmission, or airbag systems. For specific compatibility, it is recommended to confirm with the manufacturer if your vehicle model is not listed or if you have an older model near the cutoff years.



Figure 4.1: Overview of ANCEL AD310's extensive vehicle compatibility.

5. Maintenance

The ANCEL AD310 is a low-maintenance device. To ensure its longevity and proper function:

- **Cleaning:** Wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents.

- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Do not bend or crimp the cable excessively. Ensure the connector is clean and free of debris before plugging it into the vehicle.
- **Software Updates:** Check the official ANCEL website periodically for any available software updates to ensure optimal performance and compatibility with newer vehicle models.

6. Troubleshooting

If you encounter issues while using your ANCEL AD310, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection; Vehicle's OBDII port issue; Ignition not ON.	Ensure the scanner is firmly plugged into the DLC. Turn the ignition to the ON position. Check vehicle's fuse for the OBDII port.
Cannot link to vehicle.	Vehicle not OBDII compliant; Incorrect protocol; Faulty connection.	Verify vehicle is 1996 or newer (US) / 2000 or newer (EU/Asia). Ensure ignition is ON. Try connecting to another compatible vehicle if possible.
Codes cannot be cleared.	Underlying fault still present; Ignition not in correct position.	Ensure the vehicle's ignition is ON but the engine is OFF. The fault must be physically repaired before the code can be permanently cleared. If the fault persists, the code will reappear.
Display shows 'LINKING ERROR'.	Communication issue with vehicle's ECU.	Check all connections. Ensure vehicle battery is sufficiently charged. Turn ignition OFF, then ON again and retry.

For more complex issues or if troubleshooting steps do not resolve the problem, please contact ANCEL customer support.

7. Technical Specifications

Feature	Specification
Brand	ANCEL
Model	AD310
Product Dimensions	8.9"L x 6.9"W x 1.4"H
Item Weight	8.4 ounces
Operating System	Linux
Language	English (Multi-language supported)
Display Resolution	128x64
Voltage	12 Volts

Feature	Specification
Special Features	Check engine light diagnostics
Supported Protocols	KWP2000, J1850 VPW, ISO9141, J1850 PWM, CAN

8. What's in the Box

Your ANCEL AD310 package includes the following items:

- 1x ANCEL AD310 OBD2 Scanner
- 1x User's Manual

(No charger/adapter needed as the device is powered via the OBDII port)

9. Warranty and Support

ANCEL products are manufactured to high-quality standards. For warranty information and customer support, please refer to the specific warranty card included with your product or visit the official ANCEL website. If you require technical assistance or have questions regarding the operation of your AD310 scanner, please contact ANCEL customer service.

A digital version of this user manual may also be available for download from the manufacturer's website or via this link: User Manual (PDF).

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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

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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