

OnRetul V350

OnRetul V350 OBD2 Diagnostic Scanner Tool User Manual

Model: V350

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1. INTRODUCTION

The OnRetul V350 is a versatile OBD2 diagnostic scanner tool designed to help you monitor and diagnose issues in your vehicle. This device is compatible with most OBD2 compliant cars and trucks manufactured since 1996 (USA), 2002 (EU), and 2008 (Asia). It provides essential diagnostic information, allowing you to read and clear diagnostic trouble codes (DTCs), perform I/M readiness checks, view live data streams, and test battery voltage.

This manual provides detailed instructions on how to set up, operate, and maintain your V350 diagnostic tool to ensure optimal performance and accurate vehicle health monitoring.

2. KEY FEATURES

- **Extensive Vehicle Compatibility:** Works with most OBD2 compliant vehicles (gasoline cars after 1996 USA, 2002 EU, 2008 Asia).
- **Full OBD2 Functionality:** Read/clear codes, reset check engine lights, analyze freeze frames, test battery voltage, monitor live data, and run component tests.
- **I/M Readiness Check:** Proactively checks the status of crucial vehicle systems for emission compliance.
- **Real-Time Data Stream:** Displays live sensor data such as fuel pressure and coolant temperature to accurately locate intermittent faults.

- **Built-in DTC Library:** Provides direct definitions for diagnostic trouble codes, eliminating the need for external lookups.
- **User-Friendly Interface:** Simple navigation and clear display for ease of use.



Image: The OnRetul V350 diagnostic tool displaying its main menu and key features like full OBD2 tests, I/M readiness, live data stream, voltage testing, and a large DTC library.

3. DEVICE LAYOUT

Familiarize yourself with the components and controls of your OnRetul V350 scanner.



Image: The OnRetul V350 device highlighting its display, navigation buttons (OK, Up, Down, Left, Right), function buttons (DTC, I/M, EXIT), and LED indicators for Clear DTC success, Pending Fault, and Current Fault.

3.1. Components

- **LCD Display:** Shows diagnostic information, menus, and results.
- **OBD2 Connector Cable:** Connects the scanner to your vehicle's OBD2 port.
- **Navigation Buttons (Up, Down, Left, Right, OK):** Used to navigate menus and confirm selections.
- **DTC Button:** Shortcut to Diagnostic Trouble Code functions.
- **I/M Button:** Shortcut to I/M Readiness functions.
- **EXIT Button:** Returns to the previous menu or exits a function.
- **LED Indicators:**
 - **Green LED:** Indicates successful DTC clearing.
 - **Yellow LED:** Indicates a pending fault.
 - **Red LED:** Indicates a current fault.

4. SETUP GUIDE

Follow these steps to prepare your OnRetul V350 for use.

How to use V350 Scanner: 8-step guide ↓



Image: An 8-step visual guide demonstrating the process of using the V350 scanner, from finding the DLC to clearing fault codes.

1. **Locate the OBD2 Port:** The Diagnostic Link Connector (DLC) is typically located under the dashboard on the driver's side. Refer to your vehicle's manual if you cannot find it.
2. **Connect the Scanner:** Plug the V350's OBD2 connector cable firmly into your vehicle's DLC.
3. **Turn on Vehicle Ignition:** Turn your vehicle's ignition to the 'ON' position (engine off). The scanner will power on automatically.
4. **Vehicle Identification:** The scanner will automatically scan and identify your vehicle's model.
5. **Access Diagnostic Menu:** Once connected and powered, the main diagnostic menu will appear on the screen.

5. OPERATION

This section details the various functions and how to use them.

5.1. Basic Navigation

Use the **Up** and **Down** buttons to scroll through menu options. Press the **OK** button to select an option. Use the **EXIT** button to return to the previous screen.

5.2. Reading Diagnostic Trouble Codes (DTCs)

This function allows you to retrieve stored, pending, and permanent codes from the vehicle's computer.

1. From the main menu, select '**Read Codes**' and press **OK**.
2. The scanner will display any detected DTCs.
3. Use the **Up/Down** buttons to scroll through multiple codes if present.

5.3. Erasing Diagnostic Trouble Codes (DTCs)

Clearing DTCs will turn off the Check Engine Light (MIL) and erase all diagnostic data. Ensure the underlying issue is resolved before clearing codes.



Image: A vehicle dashboard illustrating the Check Engine Light (MIL) illuminated before clearing codes, and then off after successful code erasure.

1. From the main menu, select '**Erase Codes**' and press **OK**.
2. Confirm your choice when prompted.
3. The Check Engine Light should turn off, and the green LED on the scanner will illuminate.

5.4. I/M Readiness Test

This function checks the status of the emission-related monitoring systems to determine if they are ready for an emissions test.



Image: The V350 scanner displaying the I/M Readiness Test results, showing the status of various monitors like MIL, Misfire Monitor, Fuel System Monitor, and Component Monitor.

1. From the main menu, select '**I/M Readiness**' or press the dedicated **I/M** button.
2. The scanner will display the status of various monitors (e.g., OK, INC - Incomplete, N/A - Not Applicable).

5.5. Live Data Stream

View real-time operational parameters from the vehicle's sensors.

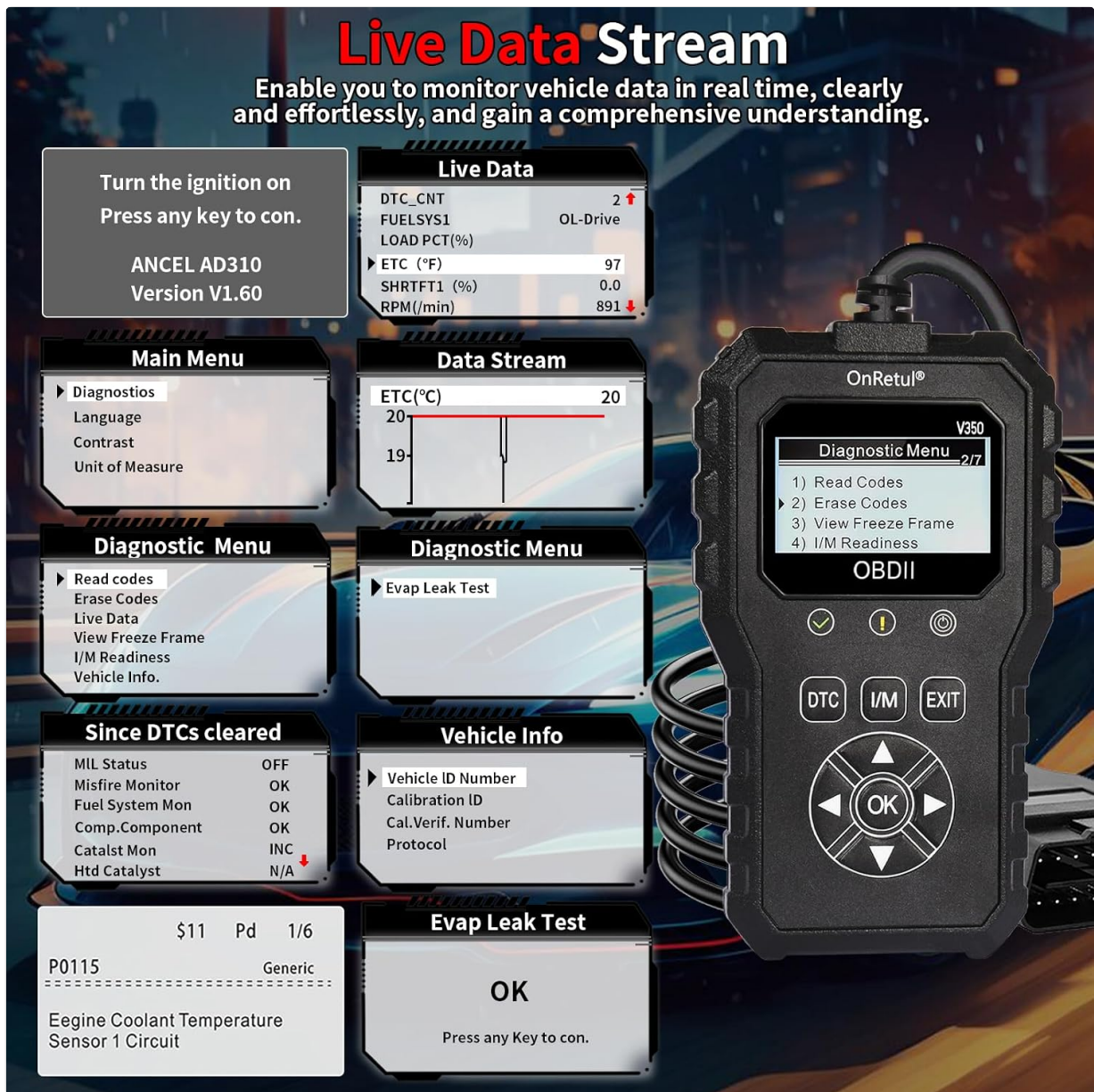


Image: The V350 scanner showing various live data parameters such as DTC count, fuel system status, engine load, coolant temperature, short-term fuel trim, and RPM.

1. From the main menu, select '**Live Data**' and press **OK**.
2. The scanner will display a list of available data parameters.
3. Use **Up/Down** to scroll and **OK** to select specific parameters for detailed viewing.

5.6. View Freeze Frame Data

When an emission-related fault occurs, the vehicle's computer records a snapshot of operating conditions. This is called Freeze Frame Data.

1. From the main menu, select '**View Freeze Frame**' and press **OK**.
2. The scanner will display the recorded parameters at the time the fault occurred.

5.7. DTC Lookup

This feature allows you to look up the definition of a DTC directly on the device.

Built-In DTC Definitions

No need to google CEL and DTC codes, shows the code and what the code means directly

P-Powertrain

U-Network & Vehicle Integration

B-Body

C-Chassis

0-99 Fault Description

P0115

0, 2, or 3-Standardized(SAE) code
1-Manufacturer-specific code

- 0-Fuel & air metering, auxiliary emission controls
- 1- Fuel and air metering
- 2-Fuel and air metering (injector circuit)
- 3-Ignition systems or misfires
- 4-Auxiliary emission controls
- 5-Speed control and idle control systems
- 6- Computer and output circuit
- 7-Transmission
- A-F - Hybrid Trouble Codes

One-Click DTC Shortcut



Image: The V350 scanner displaying the definition for DTC P0115, which indicates an 'Engine Coolant Temperature Sensor 1 Circuit' issue, along with a list of code categories.

1. From the main menu, select '**DTC Lookup**' or press the dedicated **DTC** button.
2. Enter the DTC code using the navigation buttons.
3. Press **OK** to view the definition.

5.8. Battery Voltage Test

Check the current voltage of your vehicle's battery.

1. From the main menu, select '**Battery Test**' (or similar option) and press **OK**.
2. The scanner will display the current battery voltage.

6. TROUBLESHOOTING

If you encounter issues while using the OnRetul V350, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection to OBD2 port; Vehicle ignition not on; Vehicle not OBD2 compliant.	Ensure the cable is securely connected. Turn the ignition to the 'ON' position. Verify your vehicle is OBD2 compliant.
Error message 'LINKING ERROR'.	Communication failure with vehicle.	Check the OBD2 cable connection. Ensure the ignition is on. Try connecting to a different OBD2 compliant vehicle if possible to rule out scanner issue.
Cannot clear codes.	Engine is running; Underlying fault still present.	Ensure the engine is off and the ignition is in the 'ON' position. The codes cannot be cleared if the fault is still active. Repair the issue first.
Inaccurate readings.	Faulty sensor in vehicle; Scanner software issue.	Compare readings with other diagnostic tools if available. Ensure the scanner's software is up to date (if applicable).

7. SPECIFICATIONS

- **Model:** V350
- **Brand:** OnRetul
- **Power Source:** Corded Electric (via OBD2 port)
- **Display:** 2.3-inch LCD Display
- **Product Dimensions (L x W x H):** 7.6 x 2 x 13 Centimeters
- **Automotive Fit Type:** Universal Fit (for OBD2 compliant vehicles)
- **Operating System:** Windows 10 (as per manufacturer specification, refers to internal system)

8. MAINTENANCE

To ensure the longevity and proper functioning of your OnRetul V350 diagnostic tool, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the scanner in a clean, dry environment, away from extreme temperatures, direct sunlight, and moisture.
- **Cable Care:** Avoid bending or twisting the OBD2 cable excessively. Store it neatly to prevent damage.
- **Software Updates:** Check the manufacturer's website periodically for any available software updates to ensure optimal performance and compatibility.

9. WARRANTY AND CUSTOMER SUPPORT

OnRetul is committed to providing quality products and excellent customer service.

9.1. Warranty Information

Please refer to the warranty card included with your product for specific warranty terms and conditions.

Typically, products are covered against manufacturing defects for a specified period from the date of purchase.

9.2. Customer Service

If you encounter any problems during use or have questions about your OnRetul V350 diagnostic tool, please do not hesitate to contact our customer support team. We aim to respond to inquiries within 24 hours.

For support, please visit the official OnRetul website or refer to the contact information provided in your product packaging.