OnRetul V315

OnRetul V315 OBD2 Diagnostic Tool User Manual

Model: V315

Image: The OnRetul V315 OBD2 Diagnostic Tool, a red handheld device with a screen displaying a diagnostic menu and an attached OBD2 connector cable.

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1. Introduction

The OnRetul V315 OBD2 Diagnostic Tool is designed to assist in diagnosing issues in OBD2 compliant vehicles. This device functions as a code reader, engine light diagnostic tool, and battery voltage tester. It provides essential diagnostic information, enabling users to understand vehicle status and perform basic troubleshooting.

This manual provides instructions for the proper setup, operation, and maintenance of your V315 diagnostic tool.

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2. Product Features

- Reads and clears Diagnostic Trouble Codes (DTCs).
- Resets Check Engine Light (MIL).
- Performs I/M Readiness checks.
- Displays live data stream.
- Analyzes freeze frame data.
- Tests battery voltage.
- Built-in DTC library for code definitions.
- Supports multiple languages.

Image: A visual representation of the OnRetul V315's professional OBDII scanner features, including Live Data, Read Codes, DTC Code Lookup, O2 Sensor Test, Vehicle Info, Freeze Frame, I/M Readiness, Clear Codes, On-Board Monitor, and EVAP System Test.

3. Setup

Before using the OnRetul V315, ensure your vehicle is OBD2 compliant. This tool is compatible with gasoline cars produced after 1996 (USA), 2002 (EU), and 2008 (Asia). It does not support hybrid, electric, or non-OBD2 models. This product does not support ABS, SRS, or TPMS detection.

Connecting the Device

1. Locate your vehicle's 16-pin OBD2 diagnostic port. This port is typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the OFF position.
3. Firmly plug the V315's OBD2 connector into the vehicle's diagnostic port.
4. Turn the vehicle's ignition to the ON position (do not start the engine). The V315 will power on automatically.

Image: The OnRetul V315 diagnostic tool connected to a vehicle's OBD-II port, located under the dashboard. The image highlights the connection point.

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4. Operating Instructions

Once connected and powered on, the V315 will display the main menu. Use the directional buttons (Up, Down, Left, Right) and the OK button to navigate and select options.

4.1. Reading Diagnostic Trouble Codes (DTCs)

1. From the main menu, select "Read Codes" and press OK.
2. The tool will scan the vehicle's systems for stored DTCs.
3. Any detected codes will be displayed along with their descriptions.

4.2. Clearing Diagnostic Trouble Codes (DTCs)

Clearing DTCs will turn off the Check Engine Light (MIL). Ensure you have addressed the underlying issue before clearing codes, as they may reappear if the problem persists.

1. From the main menu, select "Erase Codes" and press OK.

2. Confirm the action when prompted.
3. The Check Engine Light should turn off, and stored DTCs will be cleared from the vehicle's computer.

Image: A visual demonstrating the V315's ability to read fault codes, turn off the engine light, and its plug-and-play operation, with a car engine illustration in the background.

4.3. I/M Readiness Check

The I/M Readiness function checks the status of various emission-related monitors to determine if the vehicle is ready for an emission test.

1. From the main menu, select "I/M Readiness" and press OK.
2. The tool will display the status of the vehicle's monitors (e.g., MIL, MIS, FUE, CCM, CAT, EVAP, O2S, HRT, EGR). A green checkmark indicates the monitor is complete, while a red 'X' indicates it is incomplete.

Image: The OnRetul V315 displaying the I/M Readiness screen, showing the status of various vehicle systems with checkmarks and 'X' marks, indicating readiness for emission testing.

4.4. Live Data Stream

View real-time operational parameters of the vehicle, such as engine RPM, vehicle speed, coolant temperature, and fuel pressure.

1. From the main menu, select "Data Stream" and press OK.
2. The tool will display various data parameters in real-time.

4.5. View Freeze Frame

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

1. From the main menu, select "View Freeze Frame" and press OK.
2. The tool will display the recorded parameters.

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5. Maintenance

The OnRetul V315 is a low-maintenance device. Follow these guidelines to ensure its longevity:

- Keep the device clean and free from dust and moisture.
- Store the device in a dry, cool environment when not in use.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to disassemble the device, as this will void the warranty.

6. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Loose connection to OBD2 port; vehicle ignition not ON; vehicle not OBD2 compliant.	Ensure the connector is firmly seated. Turn vehicle ignition to ON. Verify vehicle compatibility.
Cannot link to vehicle.	Vehicle not OBD2 compliant; communication error; faulty OBD2 port.	Verify vehicle compatibility. Check for loose connections. Try on another OBD2 compliant vehicle if possible.
Codes cannot be cleared.	Underlying fault still present; ignition not ON.	Address the root cause of the DTCs first. Ensure ignition is ON.

7. Specifications

- **Model:** V315
- **Product Dimensions:** 2.7"L x 0.94"W x 5.1"H
- **Item Weight:** 6.4 ounces
- **Operating System:** Windows 10 (for software compatibility, not device OS)
- **Automotive Fit Type:** Universal Fit (for OBD2 compliant vehicles)
- **UPC:** 768383869088
- **Supported Protocols:** SAE J1850 PWM, SAE J1850 VPW, ISO9141-2, ISO14230-4 KWP (5 baud init), ISO14230-4 KWP (fast init), 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, 251 Kbaud)
- **Supported Languages:** English, German, Dutch, Italian, Spanish, French, Japanese, Portuguese

Image: A diagram illustrating the physical dimensions of the OnRetul V315 diagnostic tool, showing its length, width, and height in both inches and centimeters.

8. Warranty and Customer Support

OnRetul is committed to providing quality products and customer satisfaction. For any issues encountered during use, please contact our customer service team.

We aim to respond to all inquiries within 24 hours to provide assistance and resolution.