### iCarsoft VAWS V4.0

# iCarsoft VAWS V4.0 Diagnostic Scan Tool User Manual

Comprehensive Guide for Operation and Maintenance

## INTRODUCTION TO THE ICARSOFT VAWS V4.0

The iCarsoft VAWS V4.0 is a professional full-system bidirectional diagnostic scan tool designed for comprehensive vehicle diagnostics. It supports most V.A.G (Volkswagen Audi Group) models from 1996-2023 and allows for the download of software for two additional car brands from a selection of 26 available manufacturers. This tool provides in-depth system diagnostics, powerful bidirectional control, and a wide range of reset services, making it suitable for both professional technicians and advanced DIY users.

## PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and in good condition:



Image: The iCarsoft VAWS V4.0 package contents, showing the packing box, nylon carry case, user's manual, car scanner, main OBD2 cable, data cable, and external power adapter.

- 1 x Packing Box
- 1 x Nylon Carry Case

- 1 x User's Manual

- 1 x iCarsoft VAWS V4.0 Car Scanner

- 1 x Main OBD2 Cable

- 1 x Data Cable

- 1 x External Power Adapter

## SETUP GUIDE

### 1. Initial Power-On and Connection

1. Locate the OBD2 port in your vehicle. This is typically found under the dashboard on the driver's side.
2. Connect the Main OBD2 Cable to the vehicle's OBD2 port and to the iCarsoft VAWS V4.0 scanner.
3. The scanner will power on automatically. If not, ensure the connection is secure or use the external power adapter if necessary.
4. Follow the on-screen prompts to select your preferred language and region settings.

### 2. Software Updates

It is recommended to update the software to the latest version to ensure optimal performance and access to the most current vehicle data and functions. Connect the device to a Wi-Fi network and navigate to the 'Update' section in the main menu. Follow the on-screen instructions for software updates. Lifetime software updates are provided free of charge.

### 3. Vehicle Compatibility Check

Before performing specific services, it is crucial to verify compatibility with your vehicle. Not all functions are available for all car models due to variations in vehicle systems and ECUs. You can check compatibility using one of the following methods:



Image: Two methods for checking vehicle compatibility: directly via the iCarsoft website URL or by navigating through the official website's support section.

- **Method 1: Direct URL**

  - Enter the URL directly: https://www.icarsoft.com/Function/194.html
  - Click on the VAWS V4.0 device.

- Select your car brand.
- Check compatibility.

- **Method 2: Official Website Navigation**

  - Search for "icarsoft.com".
  - Enter the official website.
  - Select "Support & Update".
  - Select "Function List".
  - Click "- For Audi/VW/Seat/Skoda/Bentley/Bugatti/Lamborghini" and choose VAWS V4.0.
  - Select your car brand.
  - Check compatibility.

**Important Notice: Please provide your car's VIN and the required service to iCarsoft support for a precise compatibility check before purchase if you have specific concerns.**

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## OPERATING INSTRUCTIONS

### 1. All Systems In-depth Diagnosis

The VAWS V4.0 can perform a comprehensive scan of all available vehicle systems and electronic control units (ECUs). This includes, but is not limited to, Engine, Transmission, ABS (Anti-lock Braking System), SRS (Supplemental Restraint System), EPB (Electronic Parking Brake), and BMS (Battery Management System). The tool will detect fault codes, display their descriptions, and provide potential solutions.



Image: Visual representation of the iCarsoft VAWS V4.0 performing diagnostics across multiple vehicle systems, including HVAC, EPS, AC, Body, Gateway, and TCU.

- From the main menu, select **"Diagnosis"**.
- Choose **"Auto Scan"** or manually select the vehicle make and model.
- The tool will scan all accessible modules and display a detailed report of any detected fault codes.
- Select a fault code to view its description and suggested troubleshooting steps.
- After repairs, use the **"Clear Codes"** function to erase the diagnostic trouble codes (DTCs).

### 2. OE-Level Full OBD2 Functions

The VAWS V4.0 provides comprehensive OBD2 functionality for emissions-related diagnostics and general engine performance monitoring.



Image: The iCarsoft VAWS V4.0 screen showing a menu of all-in-one OBD2 functions, including battery test capabilities.

- **Read Codes:** Retrieves generic (P0, P2, P3, U0) and manufacturer specific (P1, P3, U1) codes.
- **Clear Codes:** Erases Diagnostic Trouble Codes (DTCs) and turns off the Malfunction Indicator Lamp (MIL).
- **Live Data Stream:** Displays real-time data from the vehicle's sensors in text or graph format.
- **Freeze Frame Data:** Shows engine conditions at the time a fault code was set.
- **I/M Readiness:** Checks the status of emission-related monitors.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **EVAP System Test:** Initiates a test of the evaporative emission system.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **Battery Test:** Monitors battery voltage and health.

## 3. Powerful Bi-directional Control (Active Test)

Bidirectional control allows the scanner to send commands to vehicle components and systems to test their functionality, aiding in faster and more accurate troubleshooting. This feature is available for V.A.G models and the two additional car makes you download.



Image: The iCarsoft VAWS V4.0 performing bidirectional tests, demonstrating control over car lights, mirrors, and exhaust flaps, alongside a list of available actuation tests such as injector test, fuel pump test, and cooling fan test.

Examples of actuation tests include:

- Injector Test
- Fuel Pump Test
- Idle Air Control Valve Test
- Ignition Coil Test
- ABS Pump Motor Test
- EV-AP Valve Test
- Throttle Position Actuator Test
- Cooling Fan Test
- HVAC Test
- A/C Compressor Test
- ETC Actuator Test
- Window Test
- Headlight Test
- Wiper Test
- Door Lock Test
- Horn Test
- And more...

## 4. Reset and Maintenance Services

The VAWS V4.0 offers a wide array of reset and maintenance services to assist in vehicle upkeep and component replacement. Over 40 services are available for V.A.G models, with additional services depending on the two downloaded car brands.



Image: The iCarsoft VAWS V4.0 showing a comprehensive list of built-in reset services for V.A.G vehicles, such as Oil Reset, EPB Service, ABS Bleeding, and Injector Coding.

Key services include:

- Oil Reset
- EPB (Electronic Parking Brake) Reset
- ETC (Electronic Throttle Control) Reset
- DPF (Diesel Particulate Filter) Regeneration
- ABS Bleeding

- Injector Coding
- TPMS (Tire Pressure Monitoring System) Reset
- Battery Registration
- SAS (Steering Angle Sensor) Calibration
- ACS (Air Conditioning System) Reset
- And many more, up to 51 services depending on downloaded software.

**Note: The availability of specific reset services may vary by vehicle model and year. Always check compatibility before attempting a service function.**

## 5. Downloading Additional Car Make Software

The VAWS V4.0 allows you to download software for two additional car brands from a selection of 26 manufacturers, expanding its diagnostic capabilities beyond V.A.G models. Once downloaded, these selections cannot be changed.



Image: A list of 26 car brands from which users can select two additional software packages for their iCarsoft VAWS V4.0 diagnostic tool.

- Navigate to the **"Software Download"** or **"Update"** section in the scanner's main menu.
- Browse the list of available car brands.
- Select your desired two additional car brands. Confirm your selection carefully as it is permanent.
- The software will download and install automatically. Ensure a stable internet connection during this process.

## MAINTENANCE

### 1. Software Updates

Regular software updates are crucial for maintaining the performance and compatibility of your iCarsoft VAWS V4.0. Updates often include new vehicle models, added functions, and bug fixes. iCarsoft provides **lifetime free software updates**.

- Connect the device to a stable Wi-Fi network.
- From the main menu, select **"Update"**.
- The system will check for available updates. Follow the on-screen instructions to download and install them.

## 2. General Care and Storage

- Keep the device clean using a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Store the scanner in its protective nylon carry case when not in use to prevent damage.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.
- Do not attempt to disassemble the device, as this will void the warranty.

## TROUBLESHOOTING

If you encounter issues with your iCarsoft VAWS V4.0, refer to the following common troubleshooting steps. For more complex problems, please contact iCarsoft technical support.

- **Device does not power on:**

    - Ensure the OBD2 cable is securely connected to both the vehicle's OBD2 port and the scanner.
    - Verify the vehicle's ignition is in the ON position (engine off or running).
    - If using the external power adapter, ensure it is properly connected to a power source and the scanner.
    - Check the vehicle's fuse for the OBD2 port.

- **Communication error with vehicle:**

    - Confirm the vehicle's ignition is ON.
    - Check that the OBD2 cable is not damaged and is securely connected.
    - Verify that the selected vehicle make and model on the scanner matches your vehicle.
    - Ensure the scanner's software is up to date.
    - Some older vehicles or specific ECUs may have compatibility limitations. Refer to the compatibility list or contact support.

- **Specific function/service not available:**

    - As noted, not all functions are available for all vehicle models due to differences in protocols and ECUs.
    - Verify compatibility for your specific vehicle and function using the methods described in the Setup section.
    - Ensure the correct software package for your vehicle brand is installed and updated.

- **Screen freezes or device is unresponsive:**

    - Perform a soft reset by holding down the power button until the device restarts.
    - If the issue persists, ensure the software is updated.

## TECHNICAL SPECIFICATIONS

| Model | VAWS V4.0 |
| --- | --- |
| Operating System | Android |

| Screen Size | 5 Inches |
| --- | --- |
| Processor | Quad Core 1.3 GHz |
| Memory | 2GB RAM + 32GB ROM |
| Connectivity | Wi-Fi (2.4GHz) |
| Power Source | Battery Powered (1 Lithium Polymer battery required) |
| Battery Capacity | 3.7V 5000mAh (6 hours continuous use) |
| Item Weight | 2.09 pounds |
| Package Dimensions | 10.24 x 7.6 x 2.6 inches |
| Supported Languages | 15+ Languages |
| Automotive Fit Type | Vehicle Specific Fit |

Note: Specifications are subject to change without prior notice.

## WARRANTY AND SUPPORT

### Warranty Information

The iCarsoft VAWS V4.0 diagnostic scan tool comes with the following warranty and support:

- **Lifetime Free Software Updates:** Ensures your device always has the latest features and vehicle compatibility.
- **Lifetime Hardware Free Repair:** Covers hardware defects for the lifespan of the product.
- **1-Year Warranty:** A standard one-year warranty covers manufacturing defects from the date of purchase.

Please retain your proof of purchase for warranty claims.

### Technical Support

For technical assistance, compatibility inquiries, or any other support needs, please contact iCarsoft customer service. You can typically find contact information on the official iCarsoft website (www.icarsoft.com) or within the device's "About" or "Support" section.
When contacting support, please have your device's serial number and vehicle VIN (if applicable) ready to expedite assistance.