iCarsoft MB V2.0 2025

iCarsoft MB V2.0 OBD2 Scanner User Manual

Model: MB V2.0 2025 | Brand: iCarsoft

1. PRODUCT OVERVIEW

The iCarsoft MB V2.0 is a comprehensive OBD2 diagnostic scan tool designed specifically for Mercedes Benz, Sprinter, Smart, and Maybach vehicles manufactured from 1996 to 2023. This advanced device provides in-depth full system diagnosis, automatic VIN detection, and complete OBD2 functions, including reading and clearing diagnostic trouble codes (DTCs) and displaying live data streams. It is equipped with 9 professional-level reset functions to facilitate precise vehicle maintenance and repair.

Figure 1: Front view of the iCarsoft MB V2.0 diagnostic tool, showing its color display with various menu icons and the OBD2 connector cable.

2. WHAT'S IN THE BOX

- iCarsoft MB V2.0 Car Scanner
- Nylon Carry Case
- User's Manual
- PC Connecting Cable
- Main OBD2 Cable
- TF Card (included in the scanner)

Figure 2: Contents of the iCarsoft MB V2.0 package, including the car scanner, nylon carry case, user's manual, PC connecting cable, main OBD2 cable, and TF card.

3. KEY FEATURES AND FUNCTIONS

3.1 Full Systems In-depth Diagnosis

The MB V2.0 is designed for comprehensive diagnosis of deeper systems and sub-systems across various vehicle models. It covers approximately 650 systems for Benz, 286 for Sprinter, 71 for Maybach (240), and 58 for Smart vehicles (from 1996-2023). This includes critical systems such as SRS, ECM, TCM, suspension, AC, TPMS, instrument cluster, ESP, door modules, and more. The tool supports multiple communication protocols including CAN, ISO9141, KWP2000, J1850 VPW, and J1850 PWM, providing live data, freeze frame data, and module information for effective repair.

Figure 3: An illustration showing the iCarsoft MB V2.0 scanner connected to a car, highlighting its ability to diagnose various systems like Engine, ABS, SRS, Brake, Transmission, Battery, Suspension, and Air Conditioning.

3.2 Auto VIN & Full OBD2 Functions

This scanner offers automatic VIN detection, simplifying vehicle identification. It provides all standard OBD2 diagnostic modes for Benz, Sprinter, Smart, and Maybach vehicles, enabling users to read and clear diagnostic trouble codes (DTCs). Key OBD2 functions include enhanced I/M readiness (misfire monitor, fuel system, component monitor, EVAP

system, O2 sensor heater), on-board monitoring, O2 sensor tests, freeze frame review, live graphic data display, and VIN/CVN verification. This ensures accurate troubleshooting and helps identify intermittent issues.
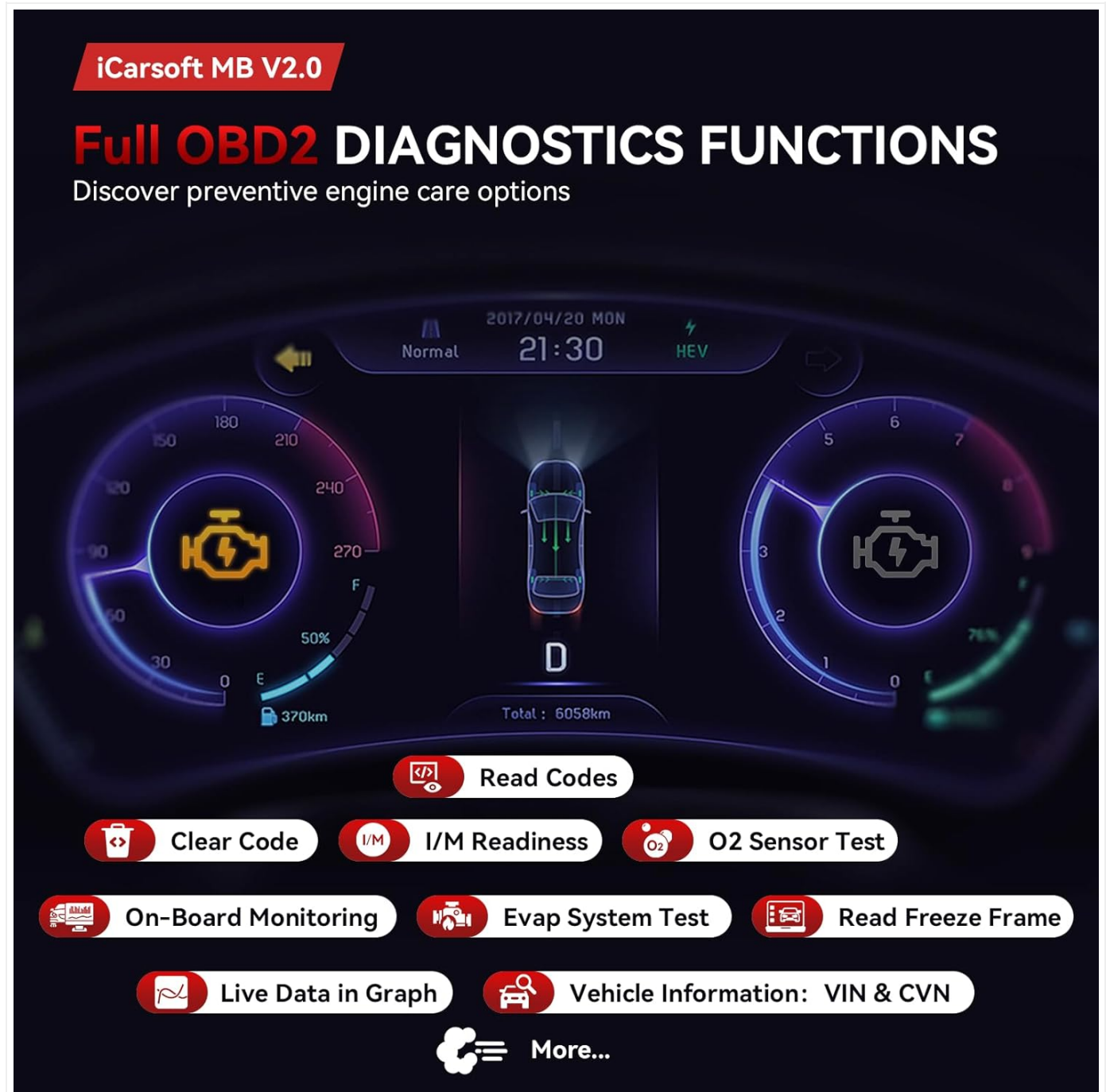

Figure 4: A graphic depicting a car's dashboard with a check engine light, surrounded by icons representing the full OBD2 diagnostic functions.

3.3 Professional-Level Reset Functions

The MB V2.0 includes 9 advanced service functions for comprehensive maintenance:

- **Oil Reset:** Resets oil service light, general maintenance, and reinitializes ASSYST.
- **EPB Service:** Electronic Parking Brake service, including calibration and function tests.
- **ABS Bleeding:** Performs ABS bleeding procedures to remove air from the brake system.
- **SAS Calibration:** Steering Angle Sensor calibration for precise wheel alignment.
- **BMS Service:** Battery Management System service, including isolation measurement and battery capacity determination.
- **Injector Coding:** Adjusts injector injection quantity and teaches in used fuel injectors.

- **TPMS Reset:** Tire Pressure Monitoring System reset, including activating functions and writing sensor IDs.
- **DPF Reset:** Diesel Particulate Filter reset, including regeneration and learned value resets.
- **ETC Relearn:** Electronic Throttle Control relearn, including teach-in of throttle valve stop and actuator replacement.

Note: The availability and specific sub-functions of these resets depend on the vehicle model. Please contact iCarsoft for compatibility verification with your specific vehicle's VIN.

Figure 5: A collage illustrating the 8 professional-level reset services available on the iCarsoft MB V2.0.

4. SETUP GUIDE

1. **Power On:** Ensure the diagnostic tool is fully charged or connected to a power source if applicable.
2. **Locate OBD2 Port:** Identify the 16-pin OBD2 diagnostic port in your vehicle. This is typically located under the dashboard on the driver's side.
3. **Connect Scanner:** Plug the main OBD2 cable from the iCarsoft MB V2.0 scanner into the vehicle's OBD2 port.

Ensure a secure connection.

4. **Ignition On:** Turn the vehicle's ignition to the "ON" position (engine off).

5. **Tool Initialization:** The scanner will power on automatically and begin initializing. Follow the on-screen prompts.

6. **Vehicle Communication:** The tool will attempt to establish communication with the vehicle's ECU. If prompted, confirm the vehicle's VIN or manually enter it.

Important Note: For certain older Mercedes models (e.g., C Class: W202, W203 (before 2000); E Class: W210, W211 (before 2002); S Class: W140, W220 (before 1998); CLK Class: 208 (before 2003); SLK Class: 170; SL Class: 129 (before 2002)), a separate iCarsoft 38-pin adapter for Mercedes is required and is NOT included with this product.

5. OPERATING INSTRUCTIONS

Once the scanner is connected and initialized, navigate through the menu using the directional buttons and the ENTER key.

5.1 Diagnostics

- Select "Diagnostics" from the main menu.
- Choose "Auto Scan" for a comprehensive scan of all available systems or select a specific system (e.g., Engine, ABS, SRS).
- The tool will display any detected Diagnostic Trouble Codes (DTCs). Select a DTC to view its detailed description.
- To clear codes, select the "Clear Codes" option. Ensure you understand the cause of the DTCs before clearing them.
- Access "Live Data" to view real-time sensor readings and operating parameters in numerical or graphical format. This is useful for monitoring vehicle performance and identifying intermittent issues.
- Review "Freeze Frame" data, which captures vehicle conditions at the moment a DTC was set.

5.2 Service Functions (Resets)

- Select "Service" from the main menu.
- Choose the desired reset function (e.g., Oil Reset, EPB Service, ABS Bleeding).
- Follow the on-screen instructions carefully for each specific service function. Some procedures may require specific vehicle conditions (e.g., engine off, ignition on).

5.3 Battery Voltage Monitor

- Select "Voltage" from the main menu to monitor the vehicle's battery voltage in real-time. This helps in assessing battery health and preventing starting issues.

6. MAINTENANCE

- **Software Updates:** The iCarsoft MB V2.0 offers lifetime free software updates. Regularly visit the official iCarsoft website to download and install the latest software to ensure compatibility with new vehicle models and access to updated functions. Use the provided PC connecting cable for updates.
- **Cleaning:** Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the scanner in its nylon carry case in a dry, cool environment when not in use to protect it from dust and physical damage.
- **Cable Care:** Handle the OBD2 cable and PC connecting cable with care. Avoid bending or twisting them excessively to prevent internal damage.

7. TROUBLESHOOTING

- **No Communication with Vehicle:**

    - Ensure the OBD2 cable is securely connected to both the scanner and the vehicle's OBD2 port.
    - Verify the vehicle's ignition is in the "ON" position (engine off).
    - Check if your vehicle requires a specific adapter (e.g., 38-pin for older Mercedes models) which is not included.
    - Some vehicle systems operate independently from the ECU. Contact iCarsoft support to confirm product communication compatibility for your specific car model and system.

- **Reset Function Not Working:**

    - Confirm that the specific reset function is supported for your vehicle's exact model and year. Compatibility varies.
    - Ensure all prerequisites for the reset procedure (e.g., engine temperature, ignition status) are met as per the on-screen instructions.
    - Update the scanner's software to the latest version.

- **Screen Freezes or Device Unresponsive:**

    - Disconnect the scanner from the vehicle and restart it.
    - Ensure the device's battery is adequately charged.

For any persistent issues or specific technical inquiries, please contact iCarsoft customer support. Their engineers are available to provide step-by-step assistance and customized solutions.

8. SPECIFICATIONS

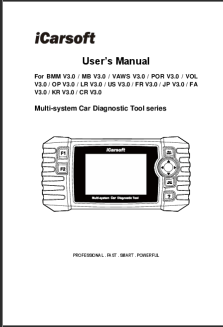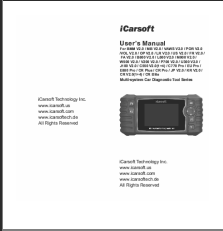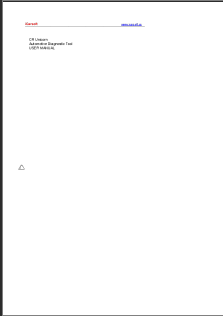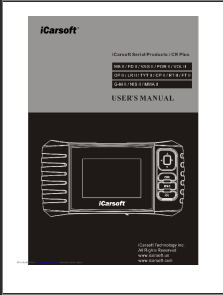| Attribute	Detail
Brand	iCarsoft
Model	MB V2.0 2025
Item Weight	1.61 pounds
Package Dimensions	9.29 x 5.59 x 2.72 inches
Operating System	WIN PE (Professional Automotive Inspection OS)
Automotive Fit Type	Vehicle Specific Fit (Mercedes-Benz, Sprinter, Smart, Maybach)
Supported Protocols	CAN, ISO9141, KWP2000, J1850 VPW, J1850 PWM

9. WARRANTY AND SUPPORT

iCarsoft provides comprehensive support for the MB V2.0 diagnostic tool:

- **Lifetime Free Software Update:** Ensure your device is always up-to-date with the latest vehicle models and diagnostic functions.
- **Lifetime Free Hardware Repair:** Hardware repairs are free, with the customer only responsible for shipping fees.
- **1-Year Warranty:** The product comes with a 1-year warranty from the date of purchase.

- **Customer Support:** For any technical assistance, compatibility questions, or troubleshooting, please contact iCarsoft directly via Amazon or their official support channels. Their engineers are ready to provide detailed help and customized solutions.

Related Documents

	[iCarsoft V3.0 Series Multi-system Car Diagnostic Tool User's Manual](#) Comprehensive user's manual for the iCarsoft V3.0 Series multi-system car diagnostic tool, detailing product descriptions, specifications, features, operation, and troubleshooting.
	[iCarsoft V2.0 Series Multi-system Car Diagnostic Tool User Manual](#) User manual for iCarsoft V2.0 Series multi-system car diagnostic tools, detailing operation, diagnostics, and special service functions like Oil Reset, EPB, BMS, DPF, ETC, and SAS for various vehicle makes.
	[iCarsoft CR Unicorn: Advanced Automotive Diagnostic Tool User Manual](#) Explore the capabilities of the iCarsoft CR Unicorn, a professional-grade automotive diagnostic tool. This user manual details its advanced features, including intelligent diagnostics, comprehensive maintenance functions, and system-specific procedures, designed to assist automotive technicians.
	[iCarsoft Serial Products and CR Plus User Manual - Automotive Diagnostic Tool Guide](#) Comprehensive user manual for iCarsoft Serial Products (e.g., MB II, FD II, VAG II) and CR Plus diagnostic tools. Covers features, specifications, connections, settings, diagnostic procedures, software updates, and FAQs for automotive repair professionals and DIY users.