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> iCarsoft MB V4.0 Diagnostic Scan Tool User Manual

iCarsoft MB V4.0

iCarsoft MB V4.0 Diagnostic Scan Tool User Manual

Model: MB V4.0

INTRODUCTION

The iCarsoft MB V4.0 is a professional full-system bidirectional diagnostic scan tool designed for comprehensive vehicle diagnostics. It supports Mercedes-Benz, Sprinter, and Smart vehicles from 1996-2023, and allows for the download of two additional car brand software packages from a selection of 26 available options. This tool provides OE-level system diagnosis, powerful bi-directional control, up to 42 maintenance reset services, and full OBD2 functions, enabling efficient troubleshooting and maintenance.

iCarsoft MB V4.0

3 in 1 Bidirectional Scanner

For Benz/Sprinter/Smart and 2 Extra Makes
(One-click to select & install diagnostic software)

 **Faster & Smarter Diagnostics**

 **Mor Comprehensive Active Tests**

 **Auto VIN**



**2.4G
WIFI Update**



2GB RAM 32G BROM

Android 8



**4-Core
1.8GHz CPU**



UPGRADE

LOADING...

Lifetime Free Updates



For Benz

For Smart

For Sprinter

For Extra Brand1

Figure 1: The iCarsoft MB V4.0 diagnostic scan tool, showcasing its main interface with various function icons.

WHAT'S IN THE BOX

Upon opening your iCarsoft MB V4.0 package, please verify that all the following components are included:

- 1X iCarsoft MB V4.0 OBD2 Scanner for Mercedes
- 1X Power Adapter
- 1X User Manual
- 1X 16 Pin OBD2 Diagnostic Cable

WHAT'S IN THE BOX



Figure 2: All items included in the iCarsoft MB V4.0 product package.

KEY FEATURES

The iCarsoft MB V4.0 offers a robust set of features for comprehensive vehicle diagnostics and maintenance:

- **Expanded Vehicle Compatibility:** Designed for Mercedes-Benz, Sprinter, and Smart vehicles (1996-2023), with the flexibility to download software for two additional car brands from a selection of 26.
- **OE-Level All Systems Diagnosis:** Performs in-depth diagnostics on all vehicle systems and components, identifying faults and potential issues.
- **Powerful Bi-directional Control:** Enables active tests to send commands to various components (e.g., injectors, fuel pump, ABS pump motor) to verify their operational status.
- **Extensive Service Functions:** Provides up to 42 popular reset services for Mercedes-Benz/Sprinter/Smart, including Oil Reset, SAS, EPB, ETC, TPMS Reset, ABS, Suspension, and more. Also includes VIN Verification and Mileage Verification.
- **Full OBD2 Functions:** Supports all 10 OBD2 test modes, including reading/clearing codes, live data stream, freeze frame data, O2 sensor test, EVAP system test, and I/M readiness.
- **Lifetime Software Updates & Hardware Repair:** Benefits from free lifetime software updates and free lifetime

hardware repair, backed by a 1-year warranty.

SETUP

Initial Power-Up

1. Connect the provided power adapter to the scan tool and a power outlet, or connect the OBD2 diagnostic cable to a vehicle's OBD2 port (vehicle ignition must be on).
2. The device will power on automatically. Follow the on-screen prompts to select your preferred language, time zone, and other initial settings.

Connecting to Vehicle

Locate the 16-pin OBD2 diagnostic port in your vehicle, typically found under the dashboard on the driver's side. Connect the provided OBD2 diagnostic cable firmly to this port and to the iCarsoft MB V4.0 scan tool.

Software Update and Brand Package Download

To ensure optimal performance and access to the latest features and vehicle coverage, it is recommended to update the software and download any necessary brand packages.

1. Connect the iCarsoft MB V4.0 to a stable Wi-Fi network via the 'Settings' menu.
2. Navigate to the 'Upgrade' section on the main menu.
3. Log in with your registered account details.
4. The system will display available updates and a list of additional car brands. You can select up to two extra car brands to download. **Important Note: Once an extra brand package is downloaded, it cannot be changed or removed. Choose carefully based on your diagnostic needs.**
5. Confirm your selections to begin the download and installation process. Ensure a stable internet connection throughout.

Your browser does not support the video tag.

Video 1: This video demonstrates the iCarsoft MB V4.0's one-click Wi-Fi update process and how to download additional brand packages for expanded vehicle compatibility.

OPERATING INSTRUCTIONS

Full System Diagnosis

The tool can perform a comprehensive scan of all available electronic control units (ECUs) in the vehicle.

1. From the main menu, select 'Diagnostics'.
2. The tool will automatically identify the vehicle's VIN (Vehicle Identification Number) and initiate a full system scan. If auto VIN fails, you may need to manually select the vehicle make, model, and year.
3. Review the diagnostic trouble codes (DTCs) and system status reports generated by the scan.

In-depth Full-Systems Diagnostics

Pull out deep ECU info, know detailed moduels condition

-  Engine System
-  ABS System
-  Transmission System
-  Airbag System
-  Chassis System
- And More...**



Auto VIN & Deep Scan

- ✓ Auto Identify VIN & Vehicle Info
- ✓ Auto Scan All Available Systems
- ✓ Professional Maintenance Services
- ✓ Faster & Accurate OBD2 Scan
- ✓ Mostly For BENZ/SPRINTER/SMART + 2 Extra Car Brands



Figure 3: The iCarsoft MB V4.0 displaying an in-depth full-systems diagnostic overview, highlighting various vehicle systems.

Bi-directional Control (Active Tests)

Bi-directional control allows you to send commands from the scan tool to the vehicle's ECUs to test specific components or systems.

1. After selecting 'Diagnostics' and identifying the vehicle, navigate to the 'Actuation Test' or 'Bi-directional Control' menu.
2. Select the component you wish to test (e.g., injector, fuel pump, ABS pump motor, cooling fan, window, headlight).
3. Follow the on-screen instructions to activate or deactivate the component and observe its response. This helps in quickly pinpointing faulty parts.

iCarsoft MB V4.0

In-Depth Actuation Test/Bi-Directory Test

Command, test specific units and verify repairs instantly

- ✓ Injector Buzz Test
- ✓ Modulate The Throttle
- ✓ Turn ON/OFF The Lights
- ✓ A/C Compressor Activation
- ✓ Activation Radiator Shutter
- ✓ IMRC Test
- ✓ Open/Close Windows
- ✓ Turn ON/OFF The Sound Horn
- ✓ Activate Parking Lock Solenoid
- ✓ Fuel Rail Pressure Test



BI-DIRECTIONAL (ActiveTest)



Turn On The Radiator Fan



Operate Mirrors



Test Door Lock Actuators



Activate Fuel Pump



Activate Transmission Oil Pump



Fuel Injector



ABS Motors



Activate Lights

Important Tip: Not all listed services are available, vary by models.

Figure 4: A user performing an in-depth actuation test using the iCarsoft MB V4.0, demonstrating its bi-directional control capabilities.

Maintenance and Service Functions

The iCarsoft MB V4.0 provides a wide array of maintenance and reset services to assist with common vehicle repairs and adjustments.

1. From the main menu, select 'Service'.
2. Choose the desired service function from the list (e.g., Oil Reset, Electronic Parking Brake (EPB) Reset, Steering Angle Sensor (SAS) Calibration, Diesel Particulate Filter (DPF) Regeneration, Injector Coding, Battery Management System (BMS) Reset, Throttle Position Actuator Reset, TPMS Reset, ABS Bleeding, Suspension Adjustment, Air Conditioner Reset, Head Lamp Reset, Body Stability Control, Engine Control, Seat, Fuel Pump, Air-Filter, Door, Transmission, Miscellaneous, Clutch, Seat Belt, Cruise Control System, Crankshaft, Language Setting, VIN Verification, Mileage Verification).
3. Follow the on-screen prompts to complete the service procedure.

38+ Maintenance Reset Services + 26 Special Functions

Meet almost all maintenance needs and make motorcycle maintenance to be easier

38+ Maintenance Reset Services



Oil Light Reset



ETC Reset



ABS Bleeding



SAS Calibration



EPB Reset



D-P .F Reset



Injector Coding Service



SPS(Air Suspension Service)

26 Special Functions

- ✓ Oil Reset
- ✓ TPMS Reset
- ✓ Seat Reset
- ✓ EPB Reset
- ✓ Suspension Reset
- ✓ Fuel Pump Reset
- ✓ SAS Reset
- ✓ Air Conditioner Reset
- ✓ Air-Filter Reset
- ✓ ETC Reset
- ✓ Head Lamp Reset
- ✓ Engine Idle Reset
- ✓ D-P-F Reset
- ✓ Body Stability Reset
- ✓ Door Reset
- ✓ ABS Reset
- ✓ Engine Control
- ✓ ImmoKey Reset
- ✓ Injector Coding
- ✓ Trans Adaption
- ✓ Miscellaneous

- Air Recirculation Mode Is Activated Automatically At A Vehicle Sp.eed < 30km/h
- Automatic Defrost Mode When Windshield Fogging Is Detected By Moisture And Temperature
- Effect Of Solar Radiation On Regulation Of Vehicle Interior Temperature
- Operating Mode Of Air Conditioning During Automatic Engine Stop
- Operating Mode Of Continuous Increase Of Regulated Vehicle Interior Temperature
- Read Coding And Transfer To The New Control Unit
- Reduction Of Blower Output Due To Expected Engine Stop
- Resetting AirFilter Learned Values After AirFilter Replacement
- Calibrate control unit 'Electronic Stability Program control unit
- Reset Learned Values For AdBl.ue(R) Me.tering
- IdleSp.eed set value
- Read Coding And Change If Necessary
- Actuate Folding Outside Mirrors
- Additional Turn Signal Light In Exterior Mirror
- Close trunk lid/ Automatic rear-end door
- Closing of tilting/sliding roof when it rains
- Timer control of seat ventilation
- Adaptive Highbeam Assist
- Automatic door locking
- Oil minimum warning
- Spee.dLim.it Assist
- Teach-in Process Of Anti-pinch Protection
- Mixer adapts and resets
- Reset the OxygenSensor value
- Dental learning

Important Tip: Not all listed services are available, vary by models.

Figure 5: A visual representation of the 38+ maintenance reset services and 26 special functions offered by the iCarsoft MB V4.0.

Unique Services For Other Specific Vehicle Brands

One-click to select & install diagnostic software of 2 extra makes

FOR PORSCHE

- ▶ Standardizing Power Windows
- ▶ Adjustment of Combination Sensor
- ▶ AHBA Calibration
- ▶ Headlight Beam Adjustment
- ▶ Adjust Longitudinal Acceleration Sensor
- ▶ Adjust Fuel-level Sensor
- ▶ Adjust Rear Lid
- ▶ Adjust Seat Occupancy Detection
- ▶ Adaptations
- ▶ Speed Sensor Test
- ▶ Swirl-flap Actuator
- ▶ Airbag Reset
- ▶ Steering Column Adjustment Normalising Run

FOR BENZ/SPRINTER/SMART

- ▶ Teach-in of drive authorization system
- ▶ Teach-in of position for camshafts
- ▶ Adjustment of intake valves
- ▶ Oxygen sensor upstream of catalytic converter
- ▶ Replace component Nox storage catalytic converter
- ▶ Reset learned values of components NOx sensor upstream of SC,Reduction Teach-in process after replacement of component NOx sensor
- ▶ downstream of SC,Reduction catalytic converter
- ▶ Resetting of adjustment values
- ▶ Teach in component' Pedal angle sensor
- ▶ Teach-in of intake port shutoff
- ▶ Teach-in of camshaft positions
- ▶ Write wheel electronics identification number

FOR VOLVO

- ▶ ECU Coding
- ▶ Adaptation Of The E.G Recirculation Valve
- ▶ Adaptation Of Oil Level Sensor
- ▶ Bleeding The Oil Pressure Pump
- ▶ Brake Pressure Sensor Zero Position calibration
- ▶ Calibrate The Differential Electronic Module (DEM)
- ▶ Calibration Of Gear Position Sensor
- ▶ Calibration Of Position Sensor
- ▶ Calibration Of Side Obstacle Detection Control Module Left(SODL)/Right(SODR)
- ▶ Filler Neck Compartment Lid Locking
- ▶ Filling And Bleeding The Cooling System
- ▶ Initiating The Sun Blind
- ▶ Programming Of Parking Assistance Module(PAM)
- ▶ Programming Of Rear Window Wiper When Reversing
- ▶ Programming Parking Brake Warning
- ▶ Programming Text Message, Seatbelt Reminder
- ▶ Programming The Additional And Parking Heater
- ▶ Programming The Clock
- ▶ Programming The Engine Service Time Parameters
- ▶ Programming The Infotainment Control Module
- ▶ Reset Crash Detection Signal
- ▶ Reset The Adaptation Function Of The Fuel/Air Mixing (Fuel Trim)
- ▶ Resetting Adaptations For Air Flow Measurement
- ▶ Resetting The Factory Settings
- ▶ Resetting The Fuel Adaption Values

For BMW

- ▶ ECU Coding
- ▶ Engine Control: Calculates fuel consumption, adjusts average fuel level, identifies fuel quality, VTG calibration, matches EGS transmission fluid, and reads or clears DWA alarm memory.

For JAGUAR/LANDROVER

- ▶ Yaw Rate Sensor Adjustment
- ▶ Powertrain Configuration Reset
- ▶ Stepper Motor Initialisation
- ▶ Re-program All Stepper Motors Service
- ▶ Reset Air-Conditioning Compressor Service

Note: Supported services vary by models, please contact us to confirm

Figure 6: The iCarsoft MB V4.0 displaying unique service functions for specific vehicle brands like Porsche, Volvo, BMW, and Jaguar/Land Rover.

Full OBD2 Functions

The iCarsoft MB V4.0 supports all standard OBD2 diagnostic functions for emissions-related issues.

- **Read & Clear Codes:** Retrieve generic and manufacturer-specific diagnostic trouble codes (DTCs) and clear them to turn off the Malfunction Indicator Lamp (MIL).
- **Live Data Stream:** View real-time data parameters from the vehicle's sensors and components in text or graph format.
- **Freeze Frame Data:** Capture a snapshot of vehicle operating conditions at the time a fault code was set.
- **I/M Readiness:** Check the status of emission-related monitors to determine if the vehicle is ready for an emissions test.
- **O2 Sensor Test:** Retrieve O2 sensor monitoring test results.
- **EVAP System Test:** Initiate a test of the evaporative emission control system.
- **On-Board Monitoring:** Access results of on-board diagnostic monitoring tests for specific components/systems.
- **Vehicle Information:** Retrieve vehicle identification information (VIN, Cal ID, CVN).

Full OBD2 Diagnosis Functions

Quickly identify issues and keep your car running smooth



Figure 7: The iCarsoft MB V4.0 showing its comprehensive full OBD2 diagnostic functions.

Data Display and Analysis

The tool supports 4-in-1 PIDs graphing, allowing you to view and compare multiple live data streams simultaneously for in-depth analysis.



Figure 8: The iCarsoft MB V4.0 displaying real-time 4-in-1 PIDs graphing for detailed data analysis.

MAINTENANCE

Proper maintenance of your iCarsoft MB V4.0 scan tool ensures its longevity and reliable performance.

- **Cleaning:** Use a soft, damp cloth to clean the screen and exterior of the device. Avoid abrasive cleaners or solvents.
- **Storage:** Store the tool in its protective case in a dry, cool environment away from direct sunlight and extreme temperatures.
- **Software Updates:** Regularly check for and install software updates via Wi-Fi to ensure the tool has the latest vehicle coverage and diagnostic capabilities.
- **Cable Care:** Inspect the OBD2 cable for any signs of damage before each use. Avoid bending or twisting the cable excessively.

TROUBLESHOOTING

If you encounter issues with your iCarsoft MB V4.0, refer to the following common troubleshooting tips:

- **Device Not Powering On:** Ensure the OBD2 cable is securely connected to the vehicle's diagnostic port and the vehicle's ignition is on. Alternatively, connect the power adapter to a wall outlet. Check if the device battery is charged.
- **Communication Error with Vehicle:** Verify that the OBD2 cable is properly connected to both the tool and the vehicle. Ensure the vehicle's ignition is in the 'ON' position (engine off or running, depending on the test). Confirm that the vehicle make, model, and year selected on the tool match your vehicle.
- **Specific Function Not Supported:** Not all vehicle models are equipped with a complete set of ECUs, and some functions may not be supported on certain models. Always verify compatibility for specific service functions with your vehicle's VIN before purchase or attempting the function.
- **Slow Operation or Freezing:** Ensure the device software is up to date. If the issue persists, try restarting the device.
- **Software Update Issues:** Check your Wi-Fi connection and ensure it is stable. Verify your login credentials for the update server. If the issue persists, try updating at a different time or location with a stronger internet connection.

SPECIFICATIONS

Key technical specifications for the iCarsoft MB V4.0 diagnostic scan tool:

Brand	iCarsoft
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Model Number	MB V4.0
Power Source	Battery Powered
Operating System	Android 8.1
Screen Size	5 Inches
Automotive Fit Type	Vehicle Specific Fit
UPC	810192671786

WARRANTY AND SUPPORT

iCarsoft is committed to providing reliable products and customer satisfaction.

- **Manufacturer Warranty:** The iCarsoft MB V4.0 comes with a 1-year manufacturer warranty.
- **Software Updates:** Enjoy lifetime free software updates to keep your tool current with the latest vehicle models and diagnostic functions.
- **Hardware Repair:** Lifetime free hardware repair is offered for the device.

For technical assistance, warranty claims, or any product-related inquiries, please contact iCarsoft customer support through their official website or the contact information provided in your product packaging.