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Vgate vLinker MC+

Vgate vLinker MC+ (BT3.0/BLE4.0) OBD2 Scanner User Manual

Bluetooth Car Code Reader for Android, iOS, and Windows

1. Introduction

The Vgate vLinker MC+ (BT3.0+BLE4.0) transforms your Android, iOS device, or Windows PC into a professional-grade diagnostic scanning tool with Bluetooth and Bluetooth Low Energy connectivity. This OBD2 adapter supports all legal OBD2 protocols, including access to SW-CAN and MS-CAN networks.

Unlike other OBD adapters, the Vgate vLinker MC+ (BT3.0+BLE4.0) will not drain your car's battery if left plugged in. It features an operating current of 24 mA and an automatic sleep mode with a low sleep current of 3mA.

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your vLinker MC+ device.

2. Product Features

- **Multi-System Support:** The Vgate vLinker MC+ car scanner features dual-mode Bluetooth connectivity, compatible with Android, iOS, and Windows operating systems. Its compact and portable design does not obstruct the driver's legroom, making it easy to use in the car.
- **Functional Versatility:** The Vgate vLinker MC+ adapter offers basic OBD2 functions like reading and clearing fault codes for modules such as ABS, SRS (airbags), powertrain, and air conditioning. It may also support advanced diagnostic functions (Note: These functions may depend on specific apps and vehicle support).
- **Battery Saving and Protection Technology:** Features automatic sleep and wake-up mode, overvoltage and battery discharge protection, and free firmware updates. The Vgate vLinker MC+ operates at a current of 51mA, ensuring robustness and durability during normal operation. To prevent vehicle battery drain from prolonged connection, it automatically enters sleep mode with a low sleep current of 3mA.
- **Popular Recommended Apps:** This adapter is recommended for applications such as FORScan, Carista, Torque (Android), DashCommand, JScan, BimmerCode, and many others. (Note: We only sell adapters compatible with these software applications; some features of the software may not be free and may require an additional fee to the software company).
- **Wide Vehicle Compatibility:** The Vgate vLinker MC+ is suitable for all 12V gasoline vehicles manufactured in 1996

and later, and 12V small diesel vehicles (load capacity 6.5T or less) that support the OBD2 protocol. In addition to standard OBD-II protocols, it also supports SW-CAN and MS-CAN protocols, providing access to proprietary networks for brands like GM and Ford. (Note: Do not use with 24V diesel vehicles).

3. Setup

3.1 Physical Connection

1. Locate your vehicle's OBD2 port. This is typically found under the dashboard on the driver's side.
2. Ensure your vehicle's ignition is off before connecting the device.
3. Plug the Vgate vLinker MC+ into the OBD2 port. Ensure it is firmly seated.
4. Turn your vehicle's ignition to the ON position (engine off). The device's power indicator light should illuminate.



Image: The Vgate vLinker MC+ device connected to a vehicle's OBD2 port, highlighting its wide compatibility with various car models and operating systems.

3.2 Bluetooth Pairing

The vLinker MC+ supports both Bluetooth 3.0 and BLE 4.0. The pairing process varies slightly depending on your device's operating system.

For Android Devices:

1. Go to your Android device's Bluetooth settings.
2. Scan for available devices. You should see "vLinker MC+" or a similar name.
3. Select the device to pair. If prompted for a PIN, enter **1234** or **0000**.
4. Once paired, open your preferred OBD2 diagnostic app and select the vLinker MC+ as the adapter.

For iOS Devices:

1. Ensure Bluetooth is enabled on your iOS device.
2. **Do not pair the device directly from iOS Bluetooth settings.**
3. Open your chosen OBD2 diagnostic app (e.g., BimmerCode, Carista).
4. Within the app, navigate to its settings or connection menu and select the vLinker MC+ as your OBD2 adapter. The app will establish the BLE connection.

For Windows PC:

1. Go to your PC's Bluetooth settings.
2. Add a new Bluetooth device and select "vLinker MC+".
3. Follow on-screen prompts to complete pairing.
4. Open your diagnostic software and configure it to use the vLinker MC+ via the established Bluetooth connection.

3.3 App Installation

The Vgate vLinker MC+ works with a variety of third-party OBD2 diagnostic applications. You will need to download a compatible app from your device's app store (Google Play Store for Android, Apple App Store for iOS, or software provider websites for Windows).

Popular recommended apps include FORScan, Carista, Torque (Android), DashCommand, JScan, and BimmerCode. Please note that some advanced features or full versions of these apps may require a separate purchase or subscription from the app developer.



Image: Examples of popular diagnostic applications such as BimmerCode and JScan that are compatible with the Vgate vLinker MC+ adapter.

4. Operating

Once the vLinker MC+ is connected and paired with your device and app, you can begin performing diagnostic functions.

4.1 Basic OBD2 Functions

- **Read/Clear DTCs (Diagnostic Trouble Codes):** Access and clear engine fault codes and check engine light.
- **Live Data Stream:** View real-time sensor data such as engine RPM, vehicle speed, fuel system status, and more.
- **I/M Readiness:** Check the status of emission-related monitoring systems.
- **Freeze Frame Data:** View a snapshot of vehicle conditions when a fault code was stored.

4.2 Advanced Diagnostic Functions

Depending on the diagnostic app and your vehicle's capabilities, the vLinker MC+ can support advanced functions:

- **Module Reset:** Reset various control modules (e.g., ABS, SRS, Powertrain).
- **Module Activation:** Activate specific vehicle components for testing.
- **Battery Tester:** Monitor battery voltage and health.
- **Regeneration:** Initiate DPF regeneration for diesel vehicles (if supported by app/vehicle).
- **Proprietary Protocol Access:** Access SW-CAN and MS-CAN networks for GM and Ford vehicles, enabling deeper diagnostics.

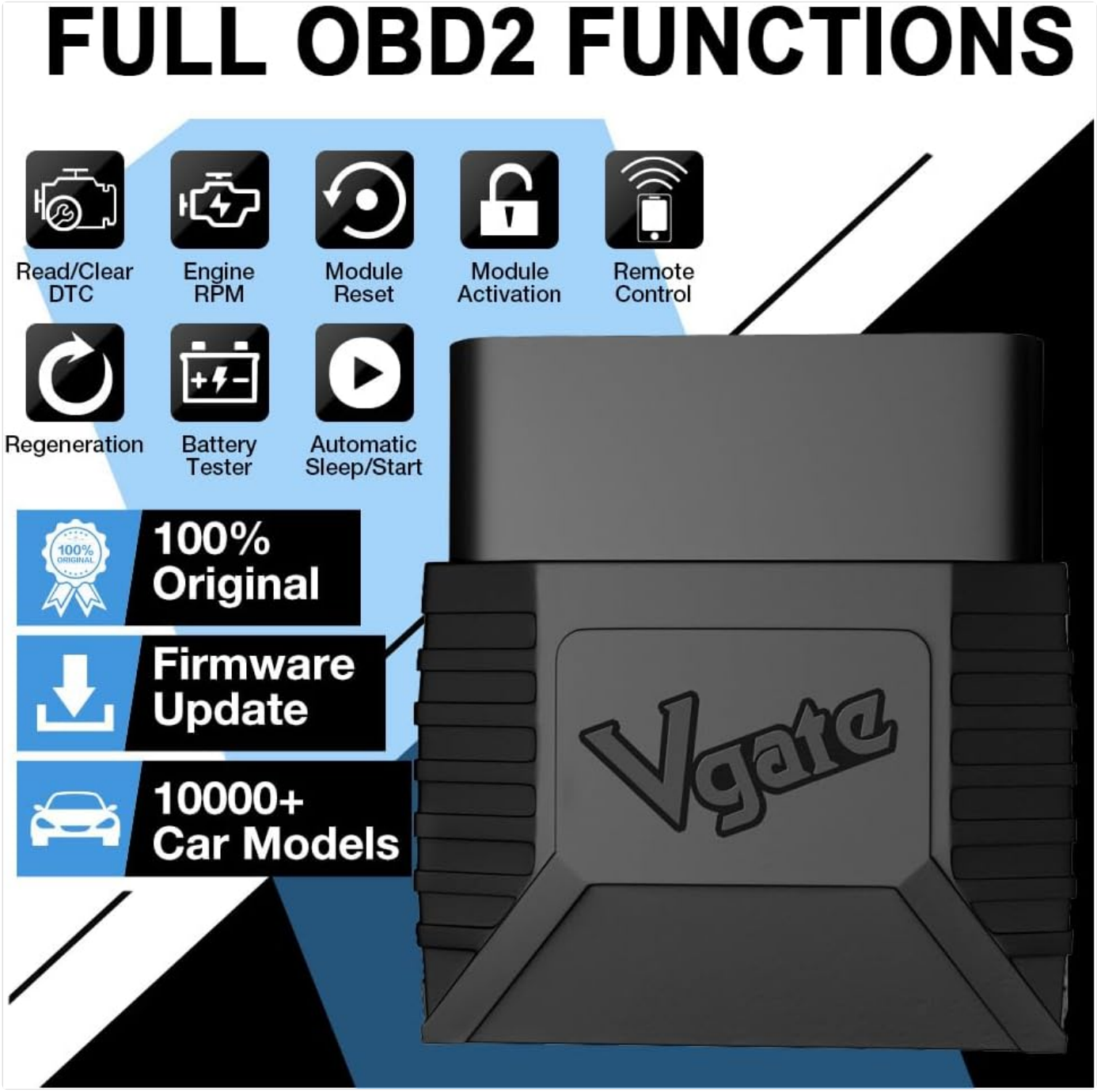


Image: Visual representation of the comprehensive OBD2 functions supported by the vLinker MC+, including diagnostic code management, real-time data, and module controls.

5. Maintenance

5.1 Firmware Updates

The Vgate vLinker MC+ supports free firmware updates to ensure compatibility with new vehicles and diagnostic protocols, and to improve performance. Check the Vgate official website or your diagnostic app for instructions on how to perform firmware updates.

5.2 Battery Saving Feature

The device is designed with an automatic sleep and wake-up mode. When the vehicle is turned off, the vLinker MC+ will automatically enter a low-power sleep mode (3mA current) to prevent draining your car's battery. It will wake up automatically when the vehicle's ignition is turned on.

5.3 General Care

- Keep the device clean and free from dust and moisture.
- Avoid exposing the device to extreme temperatures.
- Do not attempt to disassemble or modify the device, as this will void the warranty.

6. Troubleshooting

6.1 Device Not Powering On

- Ensure the device is firmly plugged into the OBD2 port.
- Verify that the vehicle's ignition is in the ON position (engine off).
- Check your vehicle's fuse box for any blown fuses related to the OBD2 port.

6.2 Bluetooth Connection Issues

- **For Android/Windows:** Ensure the device is paired correctly in your system's Bluetooth settings. Try unpairing and re-pairing.
- **For iOS:** Remember not to pair directly from iOS Bluetooth settings. The connection is established within the diagnostic app. Ensure Bluetooth is enabled on your iOS device.
- Restart your mobile device or PC.
- Ensure no other Bluetooth devices are interfering with the connection.

6.3 App Not Connecting to Device

- Verify that you have selected the vLinker MC+ as the adapter within your diagnostic app's settings.
- Ensure the app is compatible with the vLinker MC+. Refer to the app's documentation or Vgate's compatibility list.
- Close and reopen the diagnostic app.
- Check for app updates.

6.4 Cannot Read/Clear Codes or Access Specific Modules

- Ensure your vehicle supports the specific OBD2 protocol or proprietary network required for the function.
- Some advanced functions are app-dependent and may require a paid version or specific add-ons within the app.
- Verify that your vehicle is a 12V gasoline or small diesel vehicle (under 6.5T load capacity) manufactured in 1996 or later. The device is not compatible with 24V diesel vehicles.

7. Specifications

PRODUCT SIZE



Image: Physical dimensions of the Vgate vLinker MC+ device, indicating its compact size.



Image: Detailed list of OBD2 and proprietary protocols supported by the Vgate vLinker MC+.

Feature	Detail
Brand	Vgate
Model	vLinker MC+
Part Number	XY-vLinker MC+
Connectivity	Bluetooth 3.0, Bluetooth Low Energy (BLE 4.0)
Power Source	Battery Powered (from OBD2 port)
Operating System Compatibility	Android, iOS, Windows

Feature	Detail
Operating Current	51mA (normal operation), 3mA (sleep mode)
Included Components	1 x Vgate vLinker MC+ (BT3.0/BLE4.0); 1 x User Manual
Highlighted Feature	OBD2 Diagnostic Tool, compatible with Android, iOS, and Windows, Black

8. Warranty and Support

The Vgate vLinker MC+ comes with a one-year warranty and a commitment to 100% satisfaction service.

If you have any questions or encounter issues with your device, please contact the VgateDirect after-sales service team directly. They are dedicated to providing you with hassle-free support and service.



Image: Illustration of dedicated customer support available for the Vgate vLinker MC+.

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