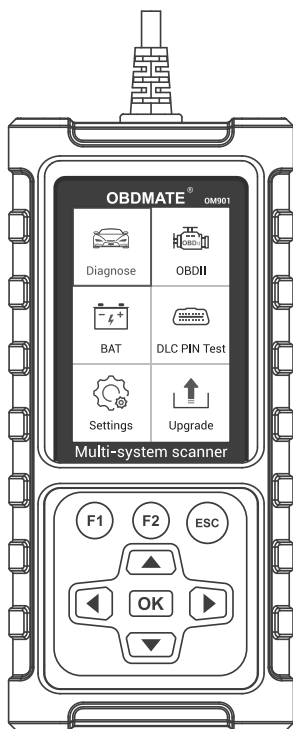


OBDMATE®

USER'S MANUAL

OM901



7/24 Service: obdmate@autophix.com

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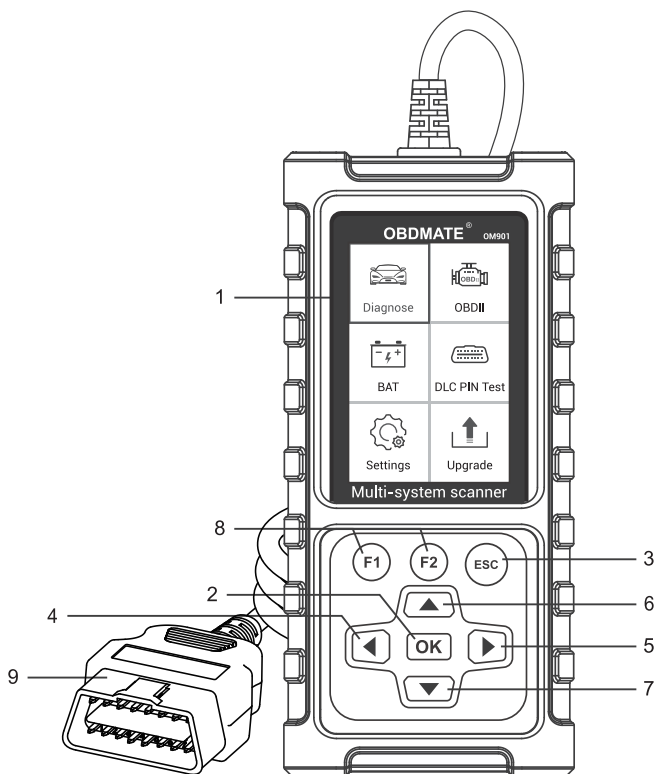
1. Safety Precautions

To prevent personal injury or damage to vehicles and/or the scan tool, first read this manual thoroughly and observe the following safety precautions when working on a vehicle:

- Always perform automotive testing in a safe environment.
- NEVER attempt to operate or observe the tool while driving a vehicle. Doing so may distract the driver and could result in a fatal accident.
- Wear safety glasses that meet the standards of ANSI.
- Keep your hair, hands, clothing, tools, and test equipment away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area: Exhaust fumes are toxic.
- Put the transmission in PARK (for automatic) or NEUTRAL (for manual) and ensure the parking brake is engaged when using the scan tool.
- Use extreme caution when working near the ignition coil, distributor cap, ignition wires and spark plugs. These components generate dangerous voltages when the engine is running.
- Keep a fire extinguisher nearby that is suitable for gasoline, chemical, and electrical fires.
- Keep the scan tool dry, clean, and free from oil, water, or grease.
- If necessary, clean the exterior of the scan tool with a mild detergent on a clean cloth.
- DO NOT disassemble the tool, as this may cause damage.

2. Product Description

2.1 Product Appearance

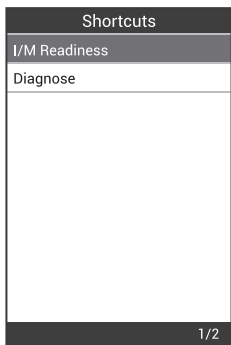


1. LCD DISPLAY - Indicates test results. Backlit, 3.5" TFT color display.
2. **[OK]** - Confirms the current selection/action.
3. **[ESC]** - Cancels the current selection/action or returns to the previous menu.
4. **[◀]** - Moves the cursor left or select the left menu item.
5. **[▶]** - Moves the cursor right or select the right menu item.

6. [▲] - Scrolls upward through menu items (one item per press).
7. [▼] - Scrolls downward through menu items (one item per press).
8. [F1]/[F2] - Shortcut keys for "Diagnose" or "I/M readiness" functions.
9. OBDII 16Pin CONNECTOR - Connects the scan tool to the vehicle's DLC (Data Link Connector).

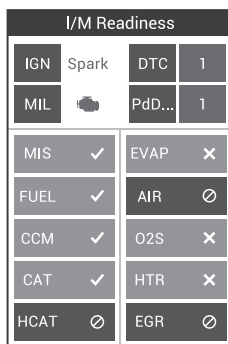
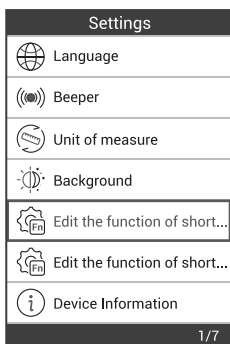
2.3 I/M Readiness Shortcut

The F1/F2 keys can be customized as shortcuts for either Diagnose or I/M Readiness functions. If not defined, pressing either F1/F2 will display both options as follows.



Example: setting F1 as I/M Readiness shortcut.

1. Go to settings, select "Edit the function of shortcut key F1".
2. Then select "I/M Readiness" and press "OK" to confirm.
3. After setup, pressing F1 will display the ECU's monitoring results of various sensors related to emissions.



Remarks:

MIL Yellow- Dashboard MIL ON

MIL Gray-Dashboard MIL OFF

✓ -complete

⊘ -not support

✗ -not complete

2.4 Accessories List

1. USB Cable - Connects the scanner to a computer.
2. User Manual - Instructions on how to operate the device.
3. Storage Case- For carrying the device and accessories.

2.5 Technical Specifications

Display: Backlit, 3.5" TFT color display

Operating Voltage: 8V-18V (Vehicle battery-powered)

Operating Temperature: 0°C to 60°C (32°F to 140°F)

Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Dimensions: 195*90*34 mm (L*W*H)

Net Weight: 0.423 kg

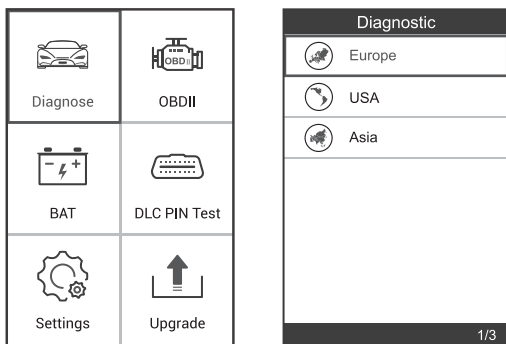
Compatibility: Support 9 protocols compatible with most 1996 US-based, 2000 EU-based and Asian vehicles.

Protocols Supported:

- 1) SAE J1850 PWM(41.6 Kbaud)
- 2) SAE J1850 VPW(10.4 Kbaud)
- 3) ISO9141-2(5 baud init, 10.4 Kbaud)
- 4) ISO14230-4 KWP(5 baud init, 10.4Kbaud)
- 5) ISO14230-4 KWP(fast init, 10.4 Kbaud)
- 6) ISO15765-4 CAN(11bit ID, 500 Kbaud)
- 7) ISO15765-4 CAN(29bit ID, 500 Kbaud)
- 8) ISO15765-4 CAN(11bit ID, 250 Kbaud)
- 9) ISO15765-4 CAN(29bit ID, 250 Kbaud)

3. Diagnose

1. Select “Diagnose” in the main menu, press “OK” to enter. There are three region options based on to the origin of automobile manufacturing, including Europe, USA and Asia.



The brands in the European region, such as:

Benz, BMW, VW, Opel, Vauxhall, Volvo, Land Rover, Peugeot, Renault.

The brands in the USA, such as:

Ford, GM, Chrysler.

The brands in the Asian region, such as:

Toyota, Honda, Nissan, Hyundai.

2. Select the region and vehicle model based on your vehicle.

3. Choose the "Vehicle Scan" menu for a quick diagnosis. The following options will be displayed:

- Vehicle Information
- Read Fault Codes
- Erase Fault Codes
- Read Datastream

[illegible][illegible]

Select Function
01-Version Information
02-Read Fault Codes
03-Erase Fault Codes
04-Read Datastream







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4. OBDII Function

OM901 is compatible with most OBDII-compliant US, European and Asian vehicles from 1996 onwards. It supports all standard OBDII protocols, including CAN, J1850 PWM, J1850 VPW, ISO9141 and KWP2000.

When OBDII application is selected from main menu, the scanner automatically begins detecting the communication protocol. Once the connection is established, a menu listing all available tests for the identified vehicle will appear. Menu options typically include:

- Read codes
 - I/M Readiness
 - Freeze frame
 - On-board monitoring
 - Vehicle Information
- Erase codes
 - Data stream
 - O2 Sensor test
 - Evap system test

 Diagnose	 OBDII
 BAT	 DLC PIN Test
 Settings	 Upgrade

Monitor status	
MIL status	OFF
DTCs in this ECU	0
Readiness YES	0
Readiness NO	0
Readiness N/A	10
Datastream supported	119
Ignition	Spak
Protocol type	CAN

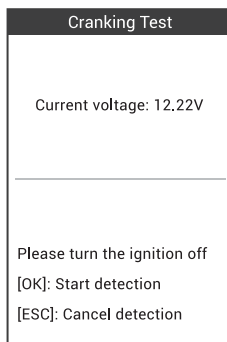
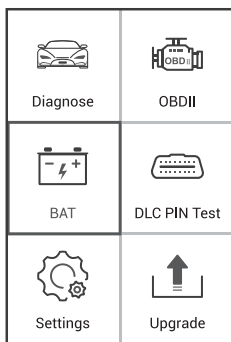
Diagnose menu
Read codes
Erase codes
I/M Readiness
Data stream
Freeze frame
O2 sensor test
On-board monitoring
Evap system test
Vehicle information
1/9

NOTE:

Not all functions listed above are available for all vehicles. Available options may vary by the year, model, and make of the vehicle being tested. "**not supported" indicates that the function is not applicable to the vehicle under test.**

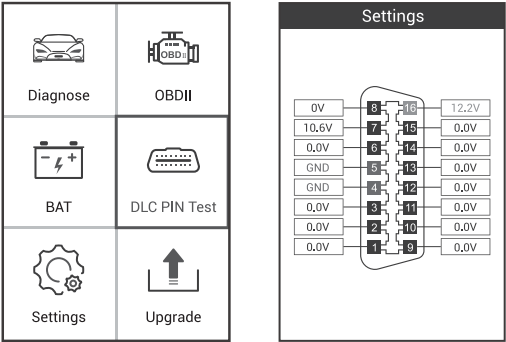
5. Battery Test

From the main menu, select "BAT" and press "OK" to perform a battery test. The tool will display the real-time battery voltage as follows.



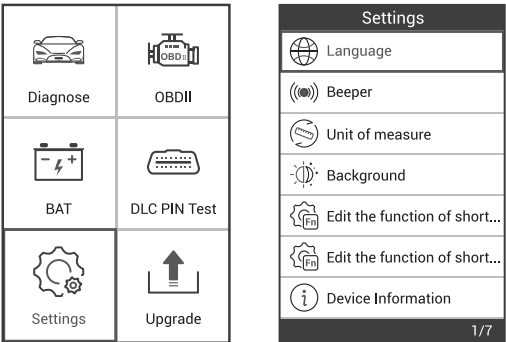
6. DLC PIN Test

Select "DLC PIN test" in the main menu, then press [OK] to enter. The tool will detect and display the voltage measurements for each pin of the 16-pin diagnostic connector (DLC) as shown below.









7. Settings

Select "Settings" in the main menu, then press [OK] to enter the submenu. This allows users to configure basic settings including language, beeper, unit of measure, and background. Users can also customize the functions of shortcut keys F1 and F2.



8. Upgrade

This tool's software can be upgraded using a computer. Please note that it only supports Windows7/8/10/11; Windows XP and macOS are not supported.

 Diagnose	 OBDII
 BAT	 DLC PIN Test
 Settings	 Upgrade

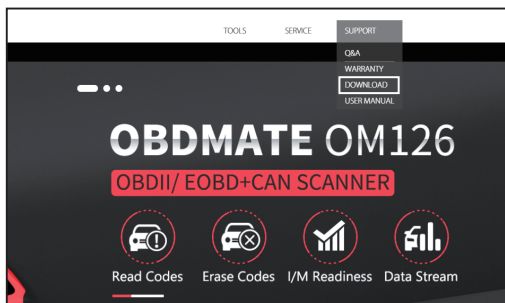
Please perform related operations on your computer

warning:

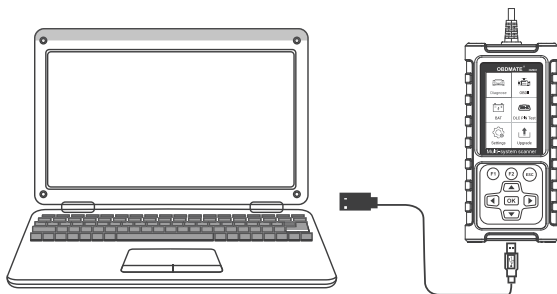
1. Keep USB connected!
2. Do not press any key until upgrade is completed!

USB Upgrade Method:

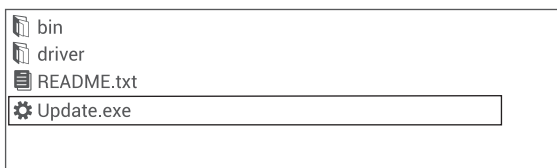
1. Visit our website www.obdmate.com/en and download the software to your computer (locate "SUPPORT-DOWNLOAD" in the upper-right corner).



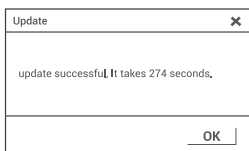
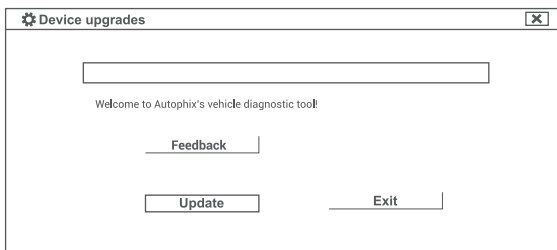
2. Connect the tool to the computer using the included USB cable.



3. Unzip the upgrade file and execute the software.



4. Click "Upgrade" to complete the process.



NOTE:

If you need help with the upgrade, please contact us via email at obdmate@autophix.com.

9. FAQ

- Q: Where is the OBDII interface located?
A: The OBDII port is typically under the dash, or inside the central console near the handbrake. On some Asian and European vehicles, it may be behind the ashtray.
- Q: How to get started?
A: Firstly plug the device into the OBDII port(DLC). Then turn the ignition to "ON" without starting the engine and start to diagnose.
- Q: Why doesn't the screen power on when plugged-in?
A: Please check if the vehicle fuses related to the OBDII port is blown. That is one of the usual reasons why an OBDII port is not communicating. Also, ensure the connection is secure. If issues persist, the cable or OBDII port may be faulty. If unsolved after re-connection, contact OBDMATE customer service for assistance.
- Q: Why can't the fault codes be erased?
A: Please fix the vehicle issues before erasing codes. If the codes get erased without problems fixed, the fault light may turn on again in the future.
- Q: Why are some data/functions unavailable?
A: Available options may vary by the vehicle's year, model, and brand. "***not supported" or "None" indicates that the function is not compatible with the vehicle under test.
- Q: Why are some parameters blank in the data stream?
A: Please start the engine to access full data stream readings. Some parameters require a running engine.

10. Warranty

1. This warranty is valid solely for the original purchaser of OBDMATE products.
2. OBDMATE products are warranted against defects in materials and work-manship under normal use for one year (12 months) from the date of retail purchase.
3. If any issues, we commit to providing a resolution within 24 hours.

Contact Us:

obdmate@autophix.com

www.obdmate.com/en/

11. Trademarks

- Trademarks
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