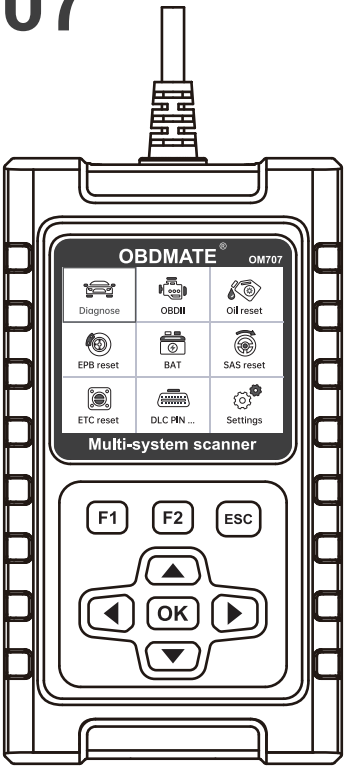
OBDMATE®

USER'S MANUAL

OM707



7/24 Service: obdmate@autophix.com

SAFETY PRECAUTIONS AND WARNINGS

To avoid injury or damage to the vehicle and/or scan tool, please read this manual at first and observe the following safety precautions when working on a vehicle:

- Always perform vehicle tests in a safe environment.
- Do not attempt to operate or observe the unit while driving a vehicle.
- Operating or observing the device while driving can cause distraction and may 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 area: Exhaust fumes are toxic.
- Put the transmission in PARK(for automatic) or NEUTRAL(for manual) and make sure the parking brake is engaged.
- Never leave the vehicle unattended while performing tests.
- 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 of oil/water or grease. If necessary, use a mild detergent on a clean cloth to wipe the exterior of the scan tool.

ABOUT OBDMATE OM707

1. Coverage

OBDMATE OM707 is a professional diagnostic tool designed for Honda and Acura, supporting multiple vehicle systems including engine, brake, airbag, automatic transmission, instrumentation and other control modules.

1) This product works with most OBDII-compatible vehicles produced after 1996 in the USA, 2002 in Europe, and 2008 in Asia.

2) This device supports most Honda group vehicles with 16-pin OBDII interface and 12V voltage as listed:

Honda: 1996-2022 models

Acura: 1996-2022 models

2. Product Specifications

1) Display: 2.8" TFT color screen, 320 X 240 pixels

2) Operating temperature: 0 to 50 ºC (32 to 140 ºF)

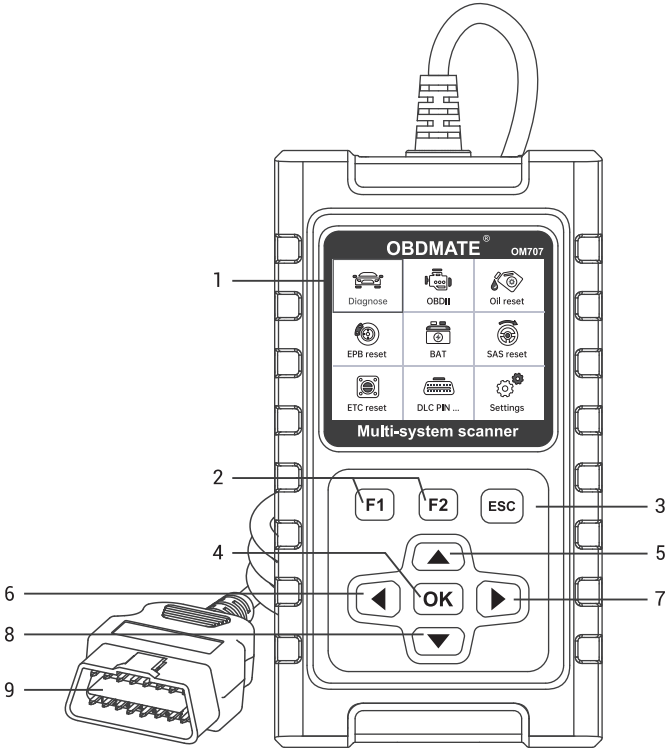
3) Storage temperature: -20 to 70 ºC (-4 to 158 ºF)

4) External power supply: 8.0 to 18.0 V (Vehicle battery-powered)

5) Dimensions: 166x90x27 mm (L × W × H)

6) Net Weight: 0.385 kg

3. Product Appearance



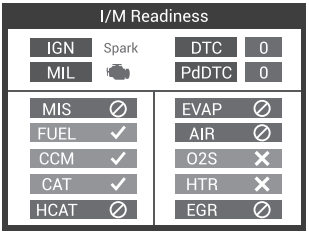
3.1 Buttons Description

1) LCD DISPLAY - Indicate test results. Backlit, 2.8" TFT color screen, 320*240 pixels.
2) **[F1]/[F2]** BUTTON - Shortcut keys for "I/M Readiness", "Diagnose" and "Service" functions.
3) **[ESC]** BUTTON - Cancels the current selection/action or returns to the previous menu.
4) **[OK]** BUTTON - Confirms the current selection/action.

5) [▲] BUTTON - Scrolls upward through menu items (one item per press).
6) [◄] BUTTON - Moves the cursor left or select the left menu item.
7) [►] BUTTON - Moves the cursor right or select the right menu item.
8) [▼] BUTTON - Scrolls downward through menu items (one item per press).
9) OBDII CONNECTOR - Connects the scan tool to the vehicle's DLC (Data Link Connector).

3.2 I/M Readiness Shortcut

Press F1/F2, then select "I/M Readiness". The display shows as following:



Remarks:
MIL Yellow- Dashboard MIL ON
MIL Gray-Dashboard MIL OFF
⊘ -not support
✓ -complete
✕ -not complete

Note: The F1/F2 keys can be customized in "Settings".

4. Accessories List

1) User manual - Instructions on how to operate the scanner.
2) USB cable - Connects the scanner to a computer for upgrade.
3) Storage case - To carry the tool and accessories.

OPERATION INSTRUCTIONS

1. OM707 Connection Procedure

1) Turn off the ignition.

2) Plug the scan tool's 16-pin connector into the vehicle's DLC port.

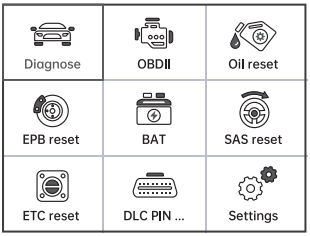
3) Turn the ignition to "ON" position (do not start engine).

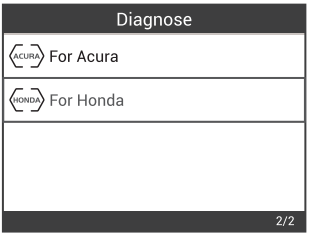
4) The scan tool will power up automatically.

2. For Honda System Scan

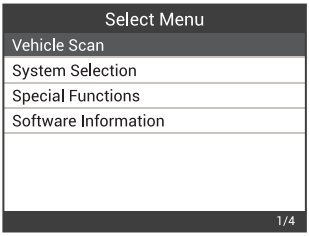
This product primarily supports Honda and Acura. Here we use Honda as an example to demonstrate the product's general functionality.

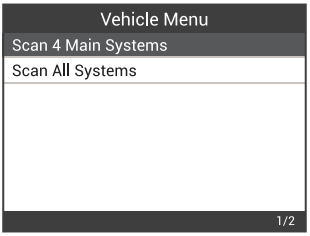
1) From the main menu, select "For Honda" and press [OK] to proceed.

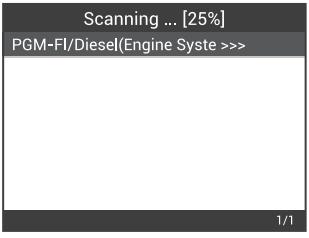




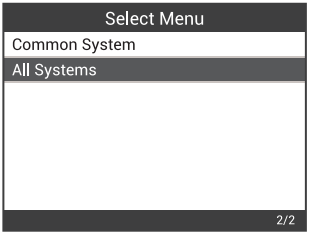
2) Select "Vehicle Scan". Two options will be displayed. Choose "Scan All Systems", and the tool will begin scanning vehicle systems one by one as follows:

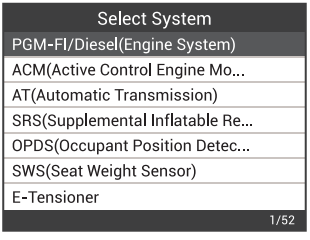




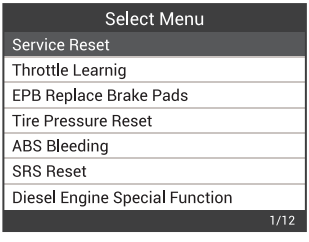


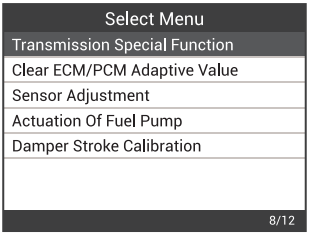
3) From “System Selection" menu select “All Systems". The tool will display all systems detected as follows:





4) Select "Special Functions", the tool will display as follows:





3. For Honda Special Functions

The procedure of each special function contains multiple steps. Screen captures in this manual demonstrate representative steps - actual workflow may differ. Always adhere to the interface prompts during actual operation. Here we select ETC Reset in detail.

Note: Special functions availability depends on the vehicle's year, make, and model. Not all special functions are supported.

3.1 ETC Reset

1) Select the “ETC Reset" shortcut menu directly from the main interface.

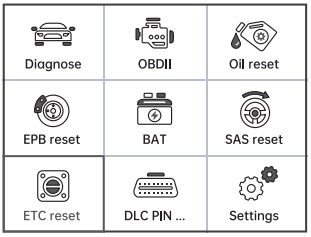


Figure 1

2) Throttle function execution process

Read the prerequisite prompt information and press [OK] to proceed. When performing the throttle reset function, ensure the following steps:

- Turn on the ignition switch but do not start the engine.
- Shift the transmission to N (Neutral).
- Apply the parking brake.
- Turn off electrical equipment (e.g., air conditioners, radios, audio systems).
- Ensure the coolant temperature is normal (around 90°C).

● Do not press the accelerator pedal.

Press [OK] to continue. If the coolant temperature has not reached the normal range, press [ESC] to exit, then start the engine to warm it up. Once the coolant temperature is normal, turn off the engine and perform the throttle reset function again.

Note: Coolant temperature can be checked via the instrument panel or the engine system data stream. Refer to Figure 2-6.

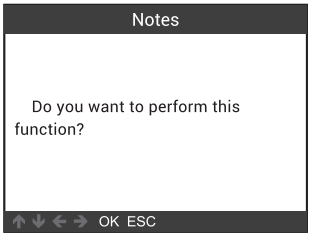


Figure 2

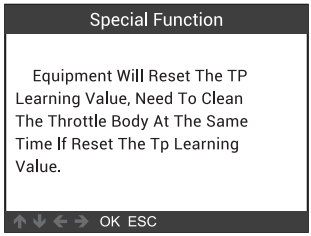


Figure 3

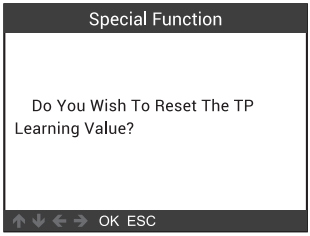


Figure 4

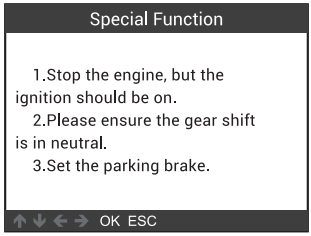


Figure 5

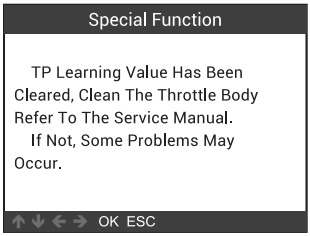


Figure 6

3) After the throttle is reset, if the engine idle speed becomes unstable and idle speed learning is required, follow these steps:

• Turn off the vehicle's electrical equipment (e.g., air conditioner, radio, lights, etc.).

• Start the engine and maintain a speed of 3000 RPM (with the transmission in P or N position).

• Continue until either the radiator fan activates or the coolant temperature reaches 90°C (194°F).

• Once achieved, let the engine idle for 5 minutes without pressing the accelerator pedal.

NOTE: If the radiator fan is running during this process, pause the timer—the fan operation time does not count toward the 5-minute requirement. Refer to Figure 7-14.

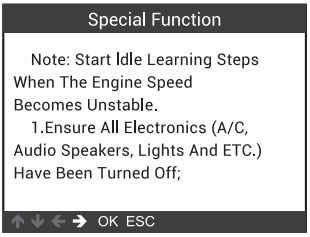


Figure 7

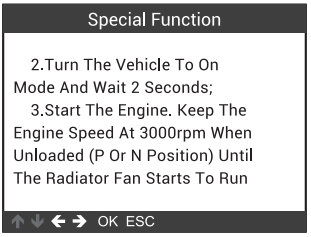


Figure 8

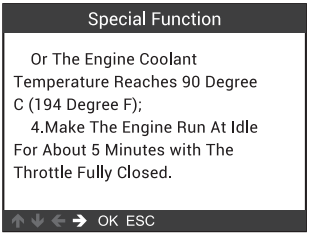


Figure 9

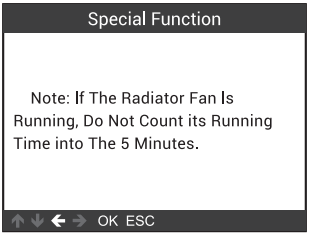


Figure 10

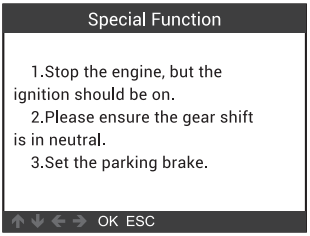


Figure 11

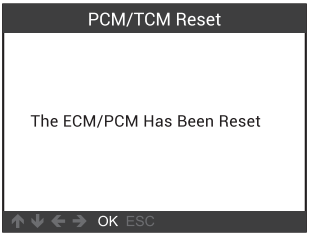


Figure 12

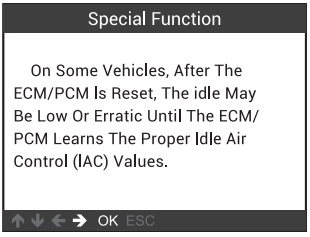


Figure 13

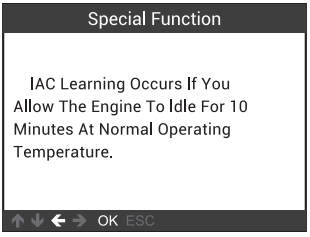
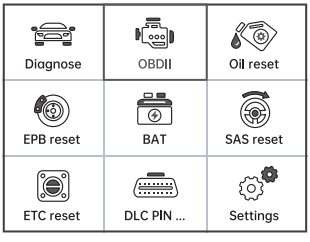


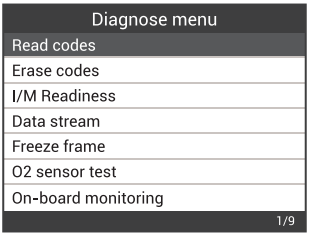
Figure 14

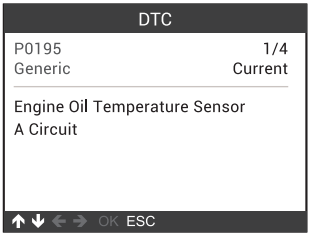
4. OBDII Functions

4.1 Read Codes

Select "OBDII" first to enter "diagnostic menu". Then select "Read Codes". If fault codes exist, they will list as below:





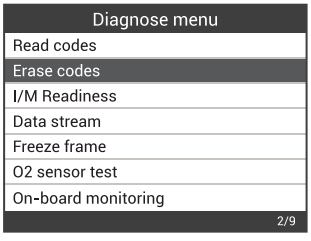


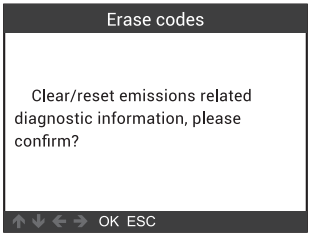
If there are no fault codes, the display will indicate "No (pending) codes are stored in the module!". Wait a few seconds or press any key to return to the diagnostic menu.

4.2 Erase Codes

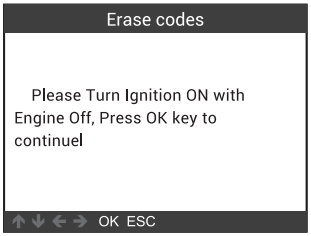
This function should be performed with ignition key on (engine off). Do not start the engine. Before proceeding, retrieve and record the trouble codes.

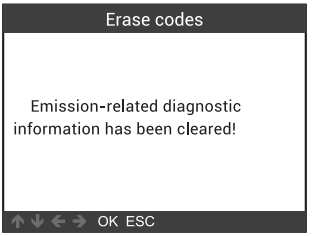
1) Select "Erase Codes" in the diagnostic menu. A warning message comes up asking for your confirmation.





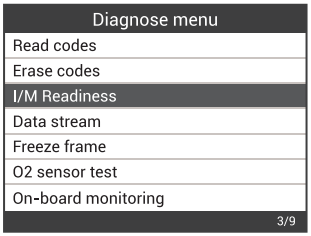
2) Press [OK] to erase fault codes.

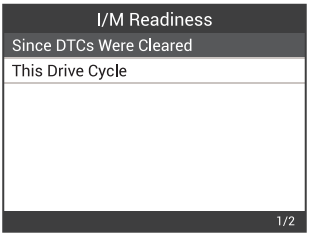


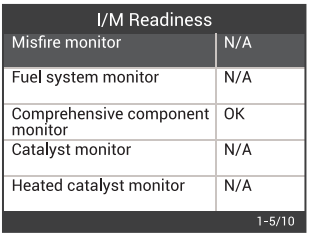


4.3 I/M Readiness

From the diagnostic menu select "I/M Readiness" first then select "Since DTCs Were Cleared", the screen will display as follows:

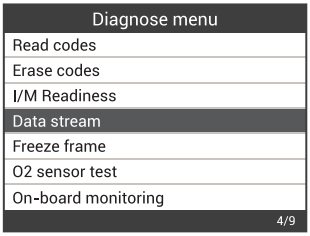




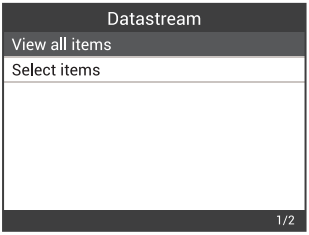


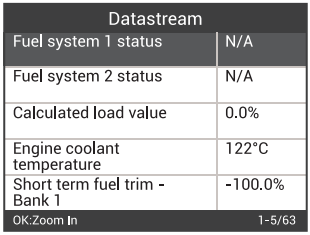
4.4 Read Data Stream

1) Select "Data stream" in the diagnostic menu.



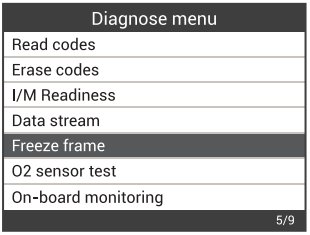
2) Select "View all items", the user can read real-time data including value(volts, rpm, temperature, speed etc.) and system status information (open loop, closed loop, fuel system status, etc.) generated by the various vehicle sensors, switches and actuators.

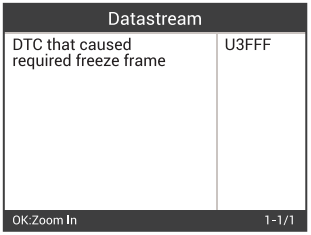




4.5 Freeze Frame

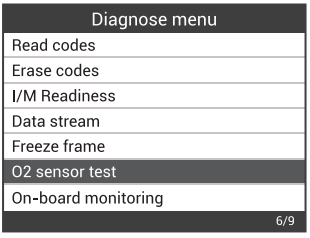
Select "Freeze Frame" in the diagnostic menu then press [OK]. The screen will display recorded emission-related fault information.

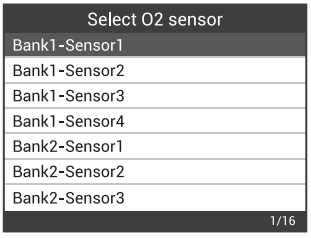




4.6 O2 Sensor Test

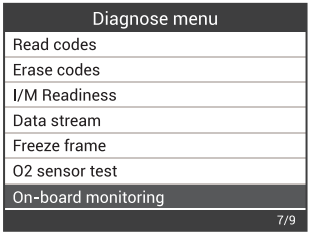
Select "O2 sensor test" in the diagnostic menu then press [OK]. It will retrieve and display the O2 Sensor monitor test results from the vehicle's ECU.

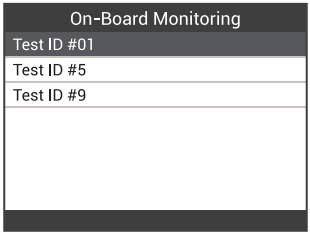




4.7 On-board Monitoring

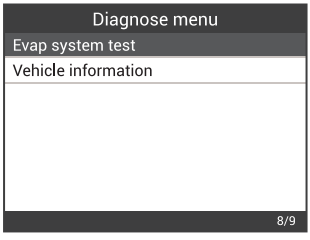
Select "On-board monitoring" in the diagnostic menu then press [OK]. It will display the results of the on-board diagnostic monitoring (the data is different each time).

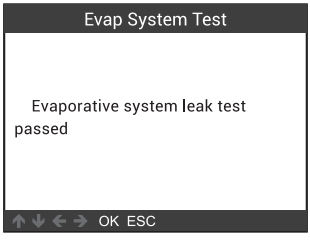




4.8 EVAP System Test

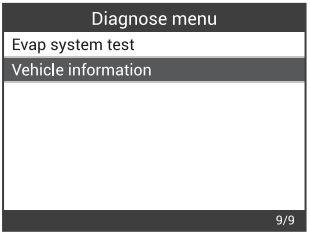
Select " EVAP system test" in the diagnostic menu then press [OK]. If the vehicle supports this function, it will display as follows:

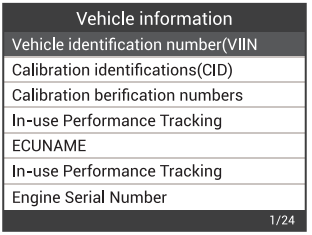




4.9 Vehicle Information

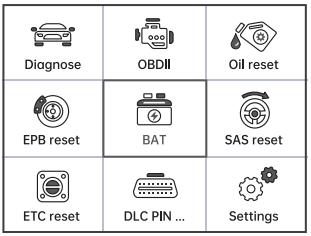
Select " EVAP system test" in the diagnostic menu then press [OK]. It will display the information such as VIN(Vehicle identification number), CID (Calibration identifications), CIN (Calibration verification numbers), etc.

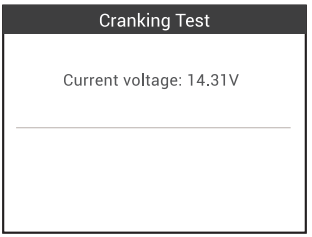




5. BAT Check

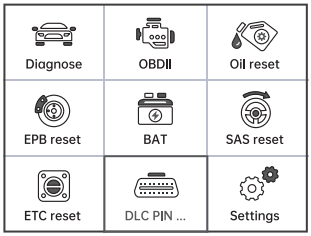
Select "BAT" to perform a battery test. This monitors the vehicle's battery voltage in real time.

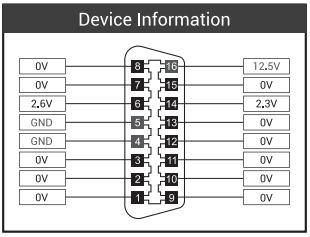




6. DLC PIN test

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. Tool Setup

The scan tool allows you to make the following settings and adjustments.

1) Language: Select your preferred language, then press [OK] to confirm.

2) Upgrade: Upgrade this tool by connecting it to a computer via USB.

3) Unit of measure: Choose between Imperial (e.g., mph, °F) or Metric (e.g., km/h, °C) then press [OK] to confirm.

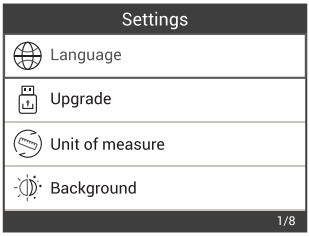
4) Background: Select Day mode or Night mode then press [OK] to confirm.

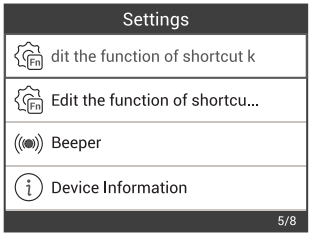
5) Edit the function of shortcut key F1: Set F1 as shortcut for “I/M Readiness” “Diagnose” or “Service”. Press [OK] to confirm.

6) Edit the function of shortcut key F2: Set F2 as shortcut for “I/M Readiness” “Diagnose” or “Service”. Press [OK] to confirm.

7) Beeper: Turns ON/OFF the beep tone then press [OK] to confirm.

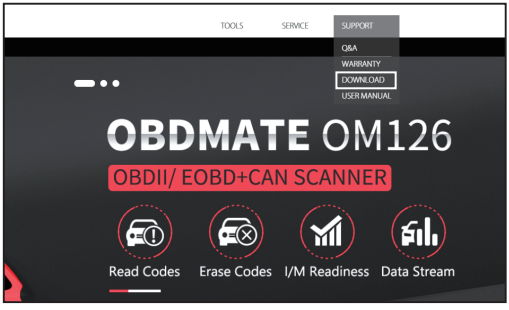
8) Device information: Access version information about this tool.



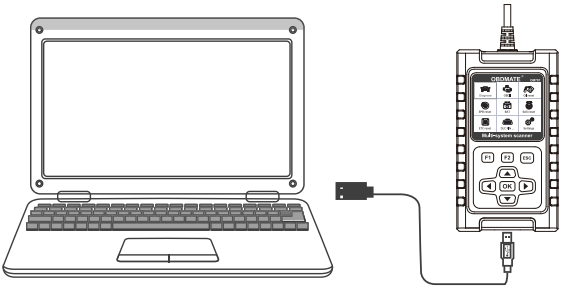


8. Update

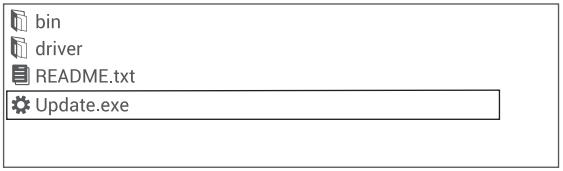
1) Visit our website www.obdmate.com/en and download the update software to your computer (locate “SUPPORT-DOWNLOAD” in the upper-right corner).



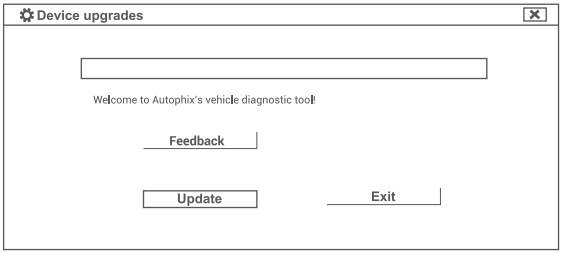
2) Connect the tool to the computer using the included USB cable.

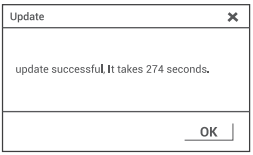


3) Unzip the upgrade file and execute the software.



4) Click “Update” to complete the upgrade.





Note: The update software only supports Windows 7/8/10/11; Windows XP and macOS are not supported.

9. Warranty

1. This warranty is valid solely for the original purchaser of OBDMATE products.
2. OBDMATE products are warranted against defects in materials and workmanship 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/

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