OBDMATE®

USER'S MANUAL
OM701

OBDMATE® OM701

Diagnose	OBDII	Oil reset
EPB reset	BAT	BMS reset
ETC reset	DLC PIN ...	Settings

Multi-system scanner

F1　F2　ESC

▲ ◀ OK ▶ ▼
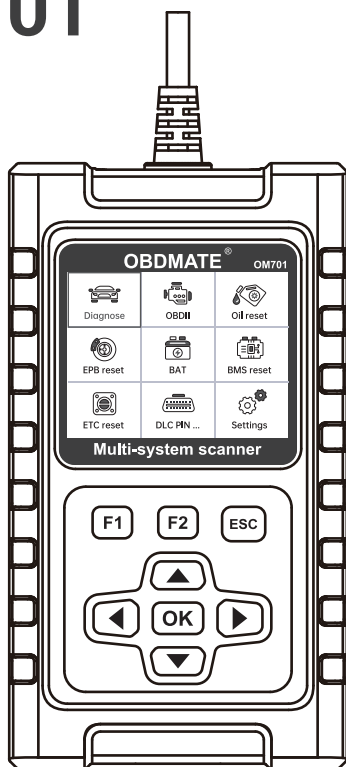
SAFETY PRECAUTIONS AND WARNINGS

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 OM701

1. Coverage

OBDMATE OM701 is a professional diagnostic tool designed for Toyota 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 Toyota group vehicles with 16-pin OBDII interface and 12V voltage as listed:

Toyota: 1996-2023 models

Lexus: 1996-2023 models

Scion: 2003-2016 models

2. Product Specifications

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

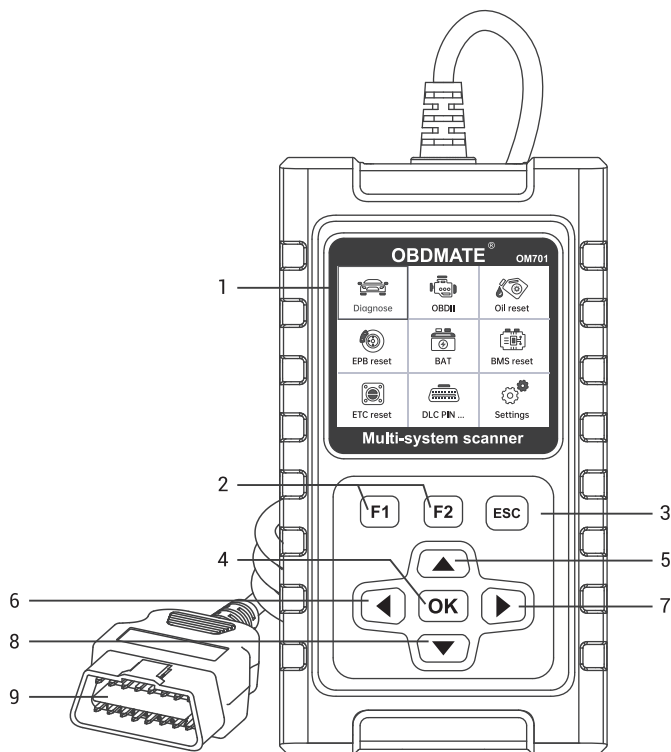2) Operating temperature: 0 to 50 °C (32 to 140 °F)

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

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:

I/M Readiness			
IGN	Spark	DTC	0
MIL	🖥	PdDTC	0
MIS	⊘	EVAP	⊘
FUEL	✔	AIR	⊘
CCM	✔	O2S	✕
CAT	✔	HTR	✕
HCAT	⊘	EGR	⊘

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.

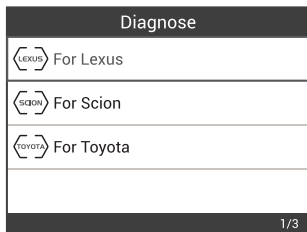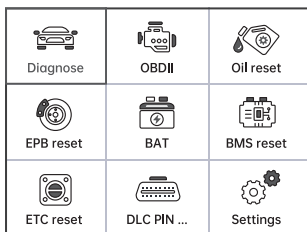3) Storage case - To carry the tool and accessories.

OPERATION INSTRUCTIONS

1. OM701 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 Toyota System Scan

This product primarily support Toyota, Lexus and Scion. Here we use Toyota as an example to demonstrate the product's general functionality.

1) From the main menu, select "For Toyota" and press [OK] to proceed. The user must select the market area (Europe, America, Japan), model, and mode/frame no. based on their vehicle. Press [OK] to continue.

Diagnose	OBDII	Oil reset
EPB reset	BAT	BMS reset
ETC reset	DLC PIN ...	Settings

Diagnose
LEXUS For Lexus
SCION For Scion
TOYOTA For Toyota
1/3

Note: There are Automatic identification and manual selection. If it cannot be identified, you can choose the corresponding model in manual selection to test.

2) Select "System Scan" then select "Scan All Systems", the tool will display as follows:

Select Menu	
System Scan	
Manual Select	
Special Functions	
	1/3

Select Menu	
Scan 4 Main Systems	
Scan All Systems	
	1/2

Select Function	
Powertrain	
Oil Reset	
Diesel particulate filter	
Bleed	
Chassis	
Electronic Parking Brake	
Steering	
	1/7

3) Select "Manual Select", the tool will display as follows:

Select Menu	
System Scan	
Manual Select	
Special Functions	
	2/3

Select Menu	
FC	
FCHV	
HV Battery	
ABS/VSC/TRC(TRAC)	
EMPS	
SRS Airbag	
Body/Gateway	
	1/9

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

Select Menu	
System Scan	
Manual Select	
Special Functions	
	3/3

Select Function	
Oil Reset	
Chassis	
Injector	
Throttle	
Battery	
Powertrain	
Electronic Parking Brake	
	1/10

3. For Toyota 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 two of the special functions and explain them in detail.

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

3.1 Oil Reset

Select "Special Functions" first, then select "Oil Reset". Follow the instructions on the interface to complete the Oil Reset. The specific steps are as follows.

Select Function	
Oil Reset	
Chassis	
Injector	
Throttle	
Battery	
Powertrain	
Electronic Parking Brake	
	1/10

Oil Reset	
With intelligent key	
Without intelligent key	
In the central control	
	1/3

Oil Reset

1. Press and hold the ' Rectangular' button in the lower right corner of the multi-function steering wheel.

↑ ↓ ← → OK ESC

Oil Reset

2. 'Settings' will appear on the Multi-Information Display (MID) at this time. Press and hold the ' Rectangular' button on the multi-function steering wheel to confirm.

↑ ↓ ← → OK ESC

Oil Reset

3. Select the 'Oil' option and there will be a prompt of 'whether to reset after changing oil'.

↑ ↓ ← → OK ESC

Oil Reset

4. Press and hold the ' Rectangular' button on the multi-function steering wheel to confirm.
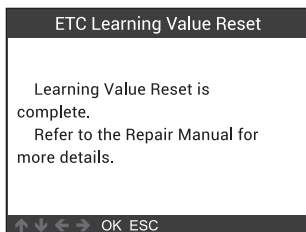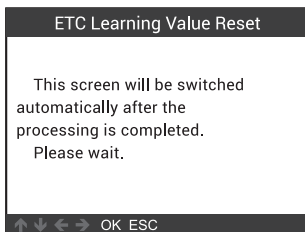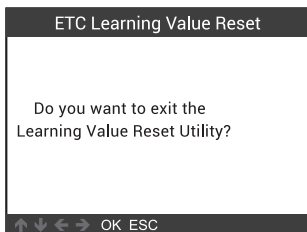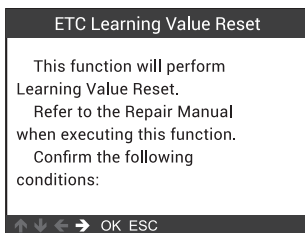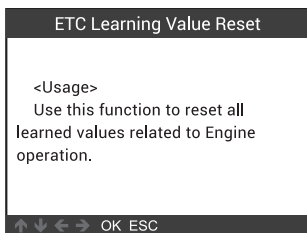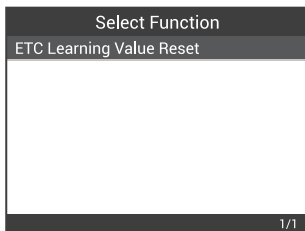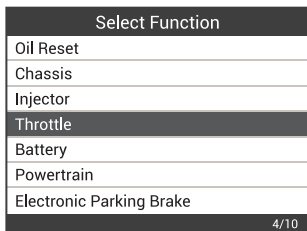
↑ ↓ ← → OK ESC

Oil Reset

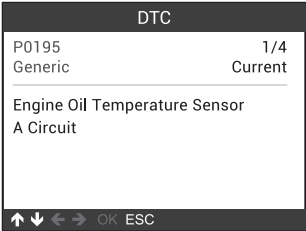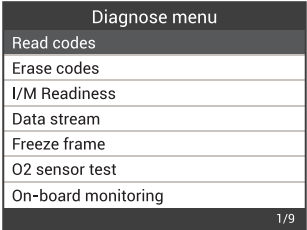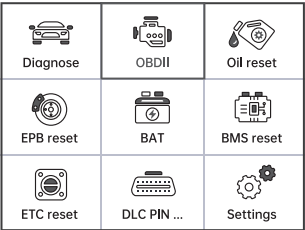5. Service reset completed.

↑ ↓ ← → OK ESC

3.2 Throttle Learning

Select "Special Functions" first, then select "Throttle". The specific steps are shown in the figure below:

Select Function	
Oil Reset	
Chassis	
Injector	
Throttle	
Battery	
Powertrain	
Electronic Parking Brake	
	4/10

Select Function	
ETC Learning Value Reset	
	1/1

ETC Learning Value Reset

<Usage>
Use this function to reset all learned values related to Engine operation.

↑ ↓ ← → OK ESC

ETC Learning Value Reset

This function will perform Learning Value Reset.
Refer to the Repair Manual when executing this function.
Confirm the following conditions:

↑ ↓ ← → OK ESC

ETC Learning Value Reset

Do you want to exit the Learning Value Reset Utility?

↑ ↓ ← → OK ESC

ETC Learning Value Reset

This screen will be switched automatically after the processing is completed.
Please wait.

↑ ↓ ← → OK ESC

ETC Learning Value Reset

Learning Value Reset is complete.
Refer to the Repair Manual for more details.

↑ ↓ ← → OK ESC

4. OBDII Functions

4.1 Read Codes

Access "OBDII", select "Read Codes" from "diagnostic menu" and press [OK]. If fault codes exist, they will list as below:

Diagnose	OBDII	Oil reset
EPB reset	BAT	BMS reset
ETC reset	DLC PIN ...	Settings

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

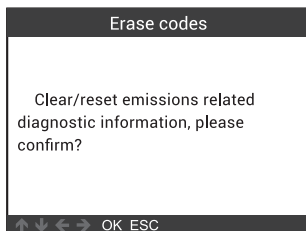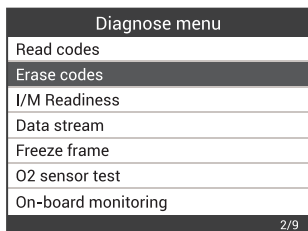| DTC	
P0195	1/4
Generic	Current
Engine Oil Temperature Sensor A Circuit	
↑ ↓ ← → OK ESC	

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.
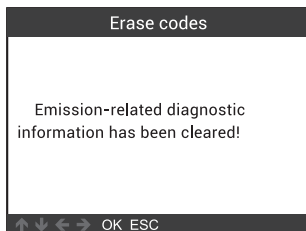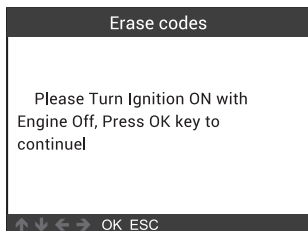
4.2 Erase Codes

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.

Diagnose menu
Read codes
Erase codes
I/M Readiness
Data stream
Freeze frame
O2 sensor test
On-board monitoring
2/9

Erase codes
Clear/reset emissions related diagnostic information, please confirm?
↑ ↓ ← → OK ESC

2) Press [OK] to erase fault codes.

Erase codes
Please Turn Ignition ON with Engine Off, Press OK key to continuel
↑ ↓ ← → OK ESC

Erase codes
Emission-related diagnostic information has been cleared!
↑ ↓ ← → OK ESC

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:

Diagnose menu
Read codes
Erase codes
I/M Readiness
Data stream
Freeze frame
O2 sensor test
On-board monitoring
3/9

I/M Readiness
Since DTCs Were Cleared
This Drive Cycle
1/2

I/M Readiness	
Misfire monitor	N/A
Fuel system monitor	N/A
Comprehensive component monitor	OK
Catalyst monitor	N/A
Heated catalyst monitor	N/A
	1-5/10

4.4 Read Data Stream

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

Diagnose menu
Read codes
Erase codes
I/M Readiness
Data stream
Freeze frame
O2 sensor test
On-board monitoring
4/9

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.

Datastream	
View all items	
Select items	
	1/2

| Datastream	
Fuel system 1 status	N/A
Fuel system 2 status	N/A
Calculated load value	0.0%
Engine coolant temperature	122°C
Short term fuel trim - Bank 1	-100.0%
OK:Zoom In	1-5/63

4.5 Freeze Frame

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

Diagnose menu	
Read codes	
Erase codes	
I/M Readiness	
Data stream	
Freeze frame	
O2 sensor test	
On-board monitoring	
	5/9

Datastream	
DTC that caused required freeze frame	U3FFF
OK:Zoom In	1-1/1

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.

Diagnose menu	
Read codes	
Erase codes	
I/M Readiness	
Data stream	
Freeze frame	
O2 sensor test	
On-board monitoring	
	6/9

Select O2 sensor	
Bank1-Sensor1	
Bank1-Sensor2	
Bank1-Sensor3	
Bank1-Sensor4	
Bank2-Sensor1	
Bank2-Sensor2	
Bank2-Sensor3	
	1/16

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).

Diagnose menu	
Read codes	
Erase codes	
I/M Readiness	
Data stream	
Freeze frame	
O2 sensor test	
On-board monitoring	
	7/9

On-Board Monitoring	
Test ID #01	
Test ID #5	
Test ID #9	

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:
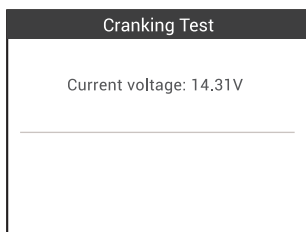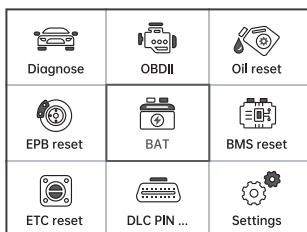
Diagnose menu
Evap system test
Vehicle information
8/9

Evap System Test
Evaporative system leak test passed
↑ ↓ ← → OK ESC
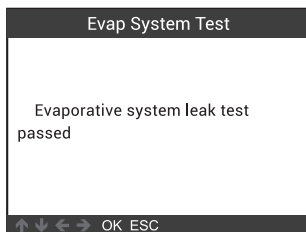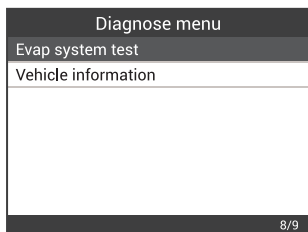
4.9 Vehicle Information

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.

Diagnose menu
Evap system test
Vehicle information
9/9

Vehicle information
Vehicle identification number(VIIN
Calibration identifications(CID)
Calibration berification numbers
In-use Performance Tracking
ECUNAME
In-use Performance Tracking
Engine Serial Number
1/24
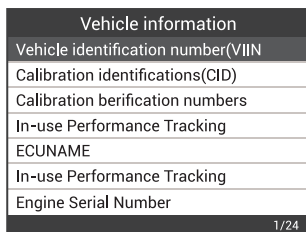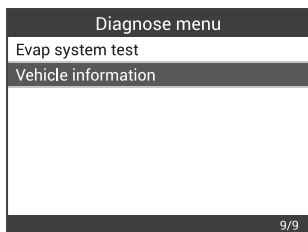
5. BAT Check

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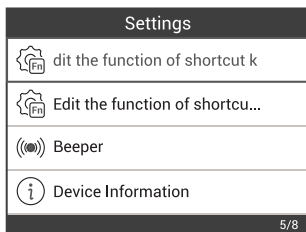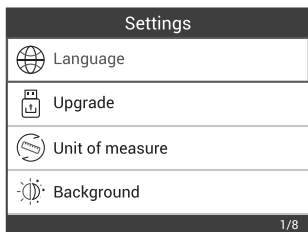

6. DLC PIN test

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:
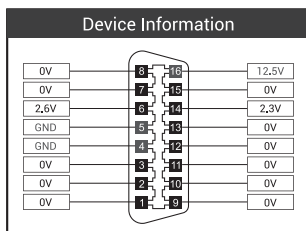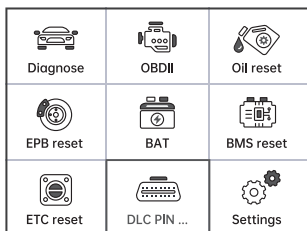
7. Tool Setup

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.

Settings	
🌐 Language	
🖥️ Upgrade	
🧭 Unit of measure	
☀️ Background	
	1/8

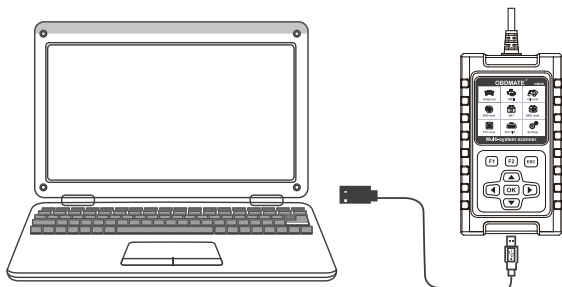| Settings	
Fn dit the function of shortcut k	
Fn Edit the function of shortcu...	
(((•))) Beeper	
ⓘ Device Information	
	5/8

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).
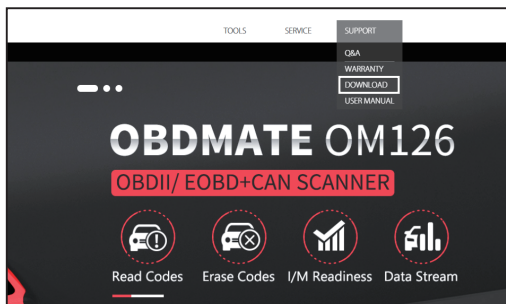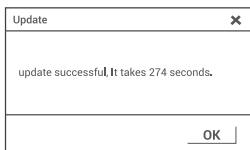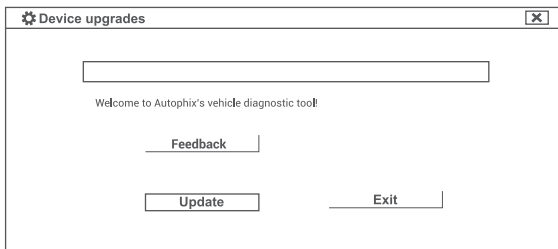

2) Connect the tool to the computer using the included USB cable.

3) Unzip the upgrade file and execute the software.
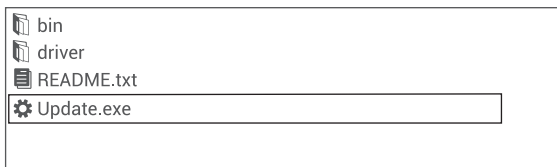
4) Click "Update" to complete the upgrade.

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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