

USER'S MANUAL

AUTO MASTER. MASTER AUTO



Model:M400

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IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support

 www.humzor.com/www.humzor.cn

 info@humzor.com

For details, please refer to the Service Procedures in this manual.

Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word

indicating the hazard level.

DANGER/WARNING

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

DANGER/WARNING

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

Safety Warning

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.

Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.

- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electromagnetic interference can damage the equipment.

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1.Quick Start Guide

Get your serial number & activation code by scanning the QR



2. Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system.

2.1 Conventions

The following conventions are used.

2.1.1 Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

Tap **NEXT**.

2.1.2 Notes and Important Messages

A **NOTE** provides helpful information such as additional explanations, tips, and comments.

The **IMPORTANT** indicates a situation that if not avoided may result in damage to the tablet or vehicle.

2.1.3 Illustrations

Illustrations used in this manual are samples, and the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

1.1.4 Procedures

An arrow icon indicates a procedure.

Example:

To use the Feedback:

1. Tap the Special button. The customers can use the functions they need to diagnose the vehicles.
2. Select the vehicle brand and type.
3. Tap the NEXT to select automatic scan or manual scan.

3.General Introduction

The M400 is a multi-platform diagnostic solution comprised of a powerful 4.0 inch TFT-LCD touchscreen Android-based tablet, a NEXZBOX communication and diagnostic measurement unit and an on-tool and cloud-based repair instructions and expert advice. As an intelligent diagnostic and information system, M400 not only displays the relevant repairs gathered from experienced industry experts, but provides step-by-step guidance to ensure the repair is done correctly and efficiently.

There are two main components to the M400 system:

- M400 Tablet – the central processor and monitor for the system.
- M400 VCI - Vehicle Communication and Check Interface.

This manual describes the construction and operation of these devices and how they work together to deliver diagnostic solutions.

3.1 Tablet

3.1.1 Functional Description



Figure 2-1 M400 Tablet Front View

1. 4.0 inch LCD Capacitive Touchscreen
2. Type-C charging port
3. Volume button for up and down
4. Power button

3.1.2 Technical Specifications

Battery Pack inside



IMPORTANT

Do not charge the battery when the temperature is lower than 0°C (32°F) or higher than 45°C (113°F).

Internal Battery Pack

The tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 6 hours of continuous operation.

3.1.3 Technical Specifications

Name	Specifications
LCD	LCD: 4.0 inch WVGA(480*800)
Tcard	Support single T card , Support up to 32GB
Flash size	EMCP 8GB+1GB LP DDR3 or EMCP 4GB+512M LP DDR3
Wi-Fi	MPEG4-SP, H.264/AVC,H.263,3GP,3G2,MP4,MKV,AVI,1080P
GPS	Supported
G-Sensor	G-Sensor: supported
USB	1 TYP-C connector , Support data transfer, charging, downloading and other functions
Charge	Support 5V 2A fast charger
Battery	About 2000mAh , Support high voltage battery 4.2V
Finish	The whole body is covered with PU which feeled much smoothly

3.2 VCCI – Vehicle Communication and Check Interface

3.2.1 Functional Description



Figure 2-4 HUMZOR VCCI Top View

3.3 Software Overview

3.3.1 Overview

M400 is a tool-based APP which focus on car diagnosis, reset, key programming and other maintenance functions. It is connected to the vehicle through a specific Bluetooth (V5.0) device. The car owner or maintenance worker can learn the basic information and the existed

faults of the vehicle in real time through the APP, etc., making vehicle maintenance become more convenient.

3.3.2 Features

- ① Wide coverage of vehicle brands of America, Europe, Asia, etc.
- ② Support full-system electronic control diagnosis, quickly scan the conditions of all electronic control systems of the car, and then generate professional diagnosis reports.
- ③ Special customization, special functions are supported, such as Oil reset, TPMS, EPB, etc.
- ④ Support reset connection VCI, one-click screenshot.

3.3.3 VCI Connection

You can connect the VCI device with M400 through the following steps:

- 1.Insert the VCI tightly into the OBD port.
- 2.Then the M400 will automatically scan and recognize the VCI device. At this time, the VCI icon on the top right turns blue, which means the VCI is successfully connected. If the VCI icon still shows red, it means the connection is not successful.



- 3.If the M400 cannot automatically connect to your VCI device, or the device fails to connect, please manually click the VCI icon on the top right to reconnect, or check whether the VCI is well connected to the car's OBD port.

4.Diagnostic

1. Support 91 car brands: American cars (15), European cars (34), Asian cars (16) , Australian cars (2).
2. Support more than 100 special functions, external 9 kinds of common special functions.

3.1 Protocol Supported

High Speed CAN - offers baud rates from 40 Kbit/s to 1 Mbit/sec, depending on cable length. This is the most popular standard for the physical layer, since it allows for simple cable connection between devices. High speed CAN networks are terminated with 120 ohm resistors on each end of the network

Low Speed CAN - offers baud rates from 40 Kbit/s to 125 Kbits/sec. This standard allows CAN bus communication to continue in case of a wiring failure on the CAN bus lines. In low speed CAN networks, each device has its own termination.

Single CAN - offers baud rates up to 33.3 Kbit/s (up to 88.3 Kbit/s for high-speed mode)

J1939 CAN - is used in the commercial vehicle area for communication throughout the vehicle with the physical layer defined in ISO 11898. Under J1939/11 and J1939/15, the data rate is specified as 250 Kbit/s, with J1939/14 specifying 500 Kbit/s.

J1850 (PWM) - SAE J1850 pulse-width modulation offers baud rates up to 41.6 Kbit/s, standard of the Ford Motor Company

J1850 (VPW) - SAE J1850 variable pulse width offers baud rates up to 10.4 Kbit/s, standard of the General Motors

J1708 (SAE) - the standard defines a double-wire 18-gauge cable that can run up to 130 feet (40 m) and operates at 9600 bit/s

4.2 Getting Started

Prior to first use of the diagnostics application, ensure the VCI device is properly connected to and is communicating with the tablet.

4.3 Vehicle Menu Layout

For example:

Click on DAS->EUROPE



Manufacturer Buttons

The Manufacturer buttons display the various vehicle brand names.

Select the manufacturer button after the VCI device is properly connected to the test vehicle to start diagnostic session.

Select EUROPE->BMW brand to check.

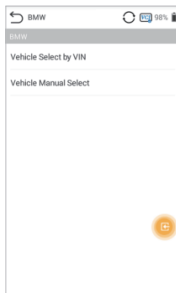


4.4 Vehicle Identification

The M400 diagnostic system supports two methods of Vehicle Identification.

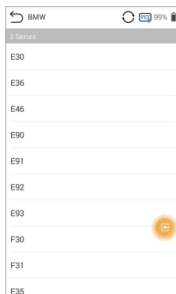
1. Vehicle Manual Select

2. Vehicle Select by VIN



4.5 Vehicle Manual Select

For vehicles that do not support the Auto VIN diagnose function, the M400 diagnostic system allows you to enter the vehicle brand manually.



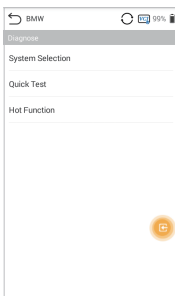
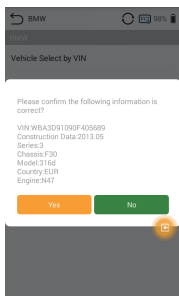
5. Vehicle Select by VIN

The M400 diagnostic system features the latest VIN-based Auto VIN Scan function to identify CAN vehicles with just one tap, enabling the technician to quickly identify the exact vehicle and scan its available systems for fault codes.

Click on BMW and the system will acquire VIN information automatically or allow users to input the VIN manually.

To Perform Manual Input

1. Tap the Diagnostics application button from the Menu. The Vehicle Menu displays.
2. Select Manual input.
3. Tap the input box and enter the correct VIN code or license numbers.
4. Tap ENTER. The vehicle will be identified and matched to the vehicle database and the Vehicle Diagnostics screen will display.
5. Tap the cross icon on the top right corner to exit Manual Input.

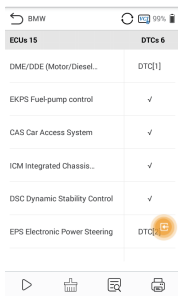
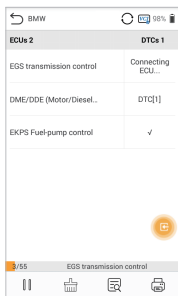


After the vehicle information is selected. Tap the NEXT button at the bottom right corner of the screen to open the Main menu page. This

section consists of various functions commonly used, including quick test, system selection, and more. The available functions displayed vary by vehicle.

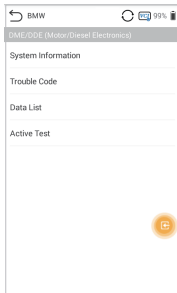
5.1 Quick Test

The Quick Test function performs a comprehensive scanning of all the systems in the vehicles ECVU to locate faults and retrieve DTCs. Tap Fault to start. Systems with no faults detected will display ✓; systems containing faults will display the numbers of the faults, such as DTC(2).



5.2 Control Unit

This option allows you to manually locate a required control system for testing through a series of choices. Simply follow the menu driven procedure, and make proper selection each time; the program will guide you to the diagnostic function menu after a few choices you've made.



Available functions may vary by vehicle. The function menu may include:

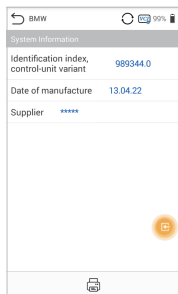
System information - displays detailed ECU information. Select to display information screen.

Trouble codes - contains Read Codes and Erase Codes. The former displays detailed DTC information retrieved from the vehicle control module, the latter facilitates you to erase DTCs and other data from the ECU.

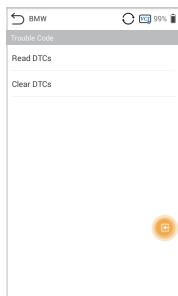
- Live data - retrieves and displays live data and parameters from the vehicle's ECU.
- Active test - provides specific subsystem and component tests. This selection may display as Actuators, Actuator Test, or Function Tests. Available tests vary by vehicle.
- Special functions - provides component adaptation or variant coding functions for custom configurations, and allows entry of adaptive values for certain component after repairs. Depending on the test vehicle, this selection may sometimes appear.

5.3 ECU Information

This function retrieves and displays the specific information for the tested control unit, including unit type and version numbers.

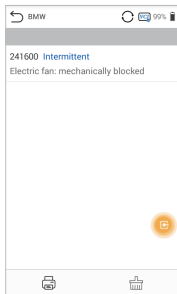
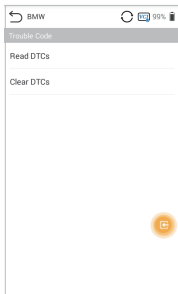


5.4 Fault Code



5.4.1 Read Code

This function retrieves and displays the DTCs from the vehicle control system. The Read Codes screen varies for each vehicle being tested. For some vehicles, freeze frame data can also be retrieved for viewing. A sample Read Codes screen displays as below:



Freeze Frame - icon displays when freeze frame data is available for viewing; Tap icon to display data screen. The Freeze Frame interface is similar to that of the Read DTCs interface and share similar operations.

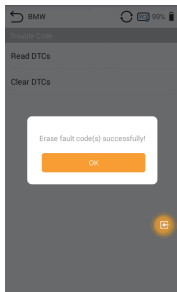
Search - tap to search the selected DTC for additional information on the internet.

Clear DTCs - tap to erase codes from the ECU. It is recommended that DTCs are read and needed repairs are performed before erasing codes.

Read DTCs - retrieves and displays the DTCs from the vehicle control system. The Read Codes screen varies for each vehicle being tested.

5.4.2 Erase Codes

After reading the retrieved codes from the vehicle and certain repairs have been made, you can erase the codes from the vehicle using this function. Before performing this function, make sure the vehicle's ignition key is in the ON (RUN) position with the engine off.



To perform Manual Input

1. Tap Clear Codes in the Function Menu.
2. A warning message displays to inform you of data loss when this function is applied.
 - a) Tap YES to continue. A confirming screen displays when the operation is successfully done.
 - b) Tap NO to exit.
3. Tap ESC on the confirming screen to exit Erase Codes.

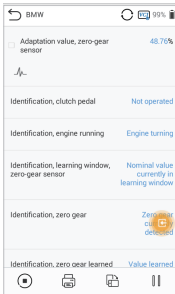
Check the Read Codes function again to ensure the operation is successful.

5.4.3 Read Data Stream

When this function is selected, the screen displays the data list for the selected module. The parameters display in the order that they are transmitted by the ECU, so expect variation among vehicles.

Gesture scrolling allows you to quickly move through the data list.

Touch the screen and drag your finger up or down to reposition the parameters being displayed if the data occupies more than one screen. The figure below displays a typical Live Data screen:

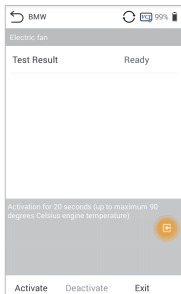


5.4.4 Active Test

The Active Test function is used to access vehicle-specific subsystem and component tests. Available tests vary by vehicle.

During an active test, the tablet sends commands to the ECU to activate the actuators. This test determines the integrity of the system or part by reading ECU data, or by monitoring the operation of the actuators. Such tests may include switching a solenoid, relay, or switch, between two operating states.

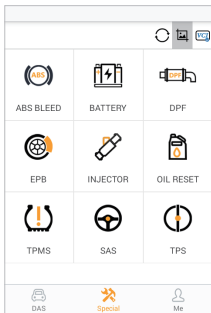
Selecting Active Test displays a menu of test options. Available tests vary by vehicle. Select test from menu option. Follow the instructions displayed on screen to complete test. Procedures and instructions vary by vehicle.



The functional buttons in the lower right corner of the Active Test screen manipulate the test signals. The operational instructions are displayed in the main section of the test screen. Follow the on-screen instructions and make appropriate selections to complete the tests. Tap the ESC functional button to exit the test when finished.

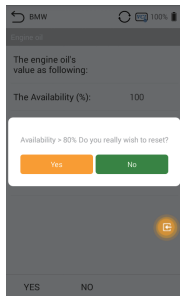
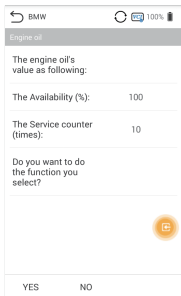
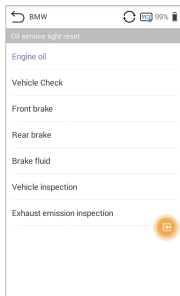
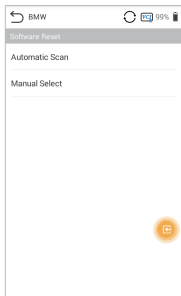
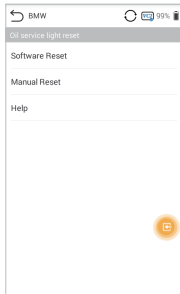
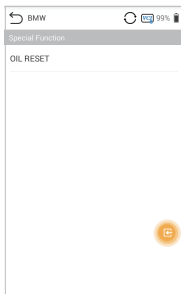
6.Special Function

These functions perform various component adaptations, including the recalibrate or configuration of certain components after repairs or replacements have been completed.



For example:

Click on Special Function->->Oil Reset->Europe->BMW, interface as image such as



7 Me

On the "HUMZOR" main interface, click the "Me" icon button, and the system will guide you to the interface.

7.1 Unit

In the Settings interface, click the "Units" button to switch the units.

7.2 Upgrade

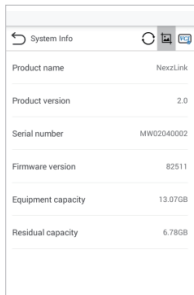
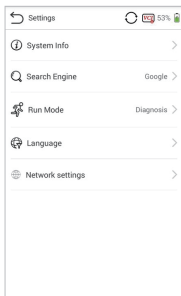
If your M400 application is not the latest version, you can upgrade the application version through the following steps:

1. On the Me interface, click the "Upgrade" icon button.
2. Click the "Download" button on the right to start downloading the new version.
3. The version is downloaded successfully, click the "INSTALL" button to start the installation.

The version is downloaded successfully, click the "INSTALL" button to start the installation.

7.3 Settings

Click System Info and you can view the information of the application.



8. Search Engine

In the Settings interface, click the "Search Engine" button to switch the Engine Google or Baidu.

8.1 Run Mode

In the Settings interface, click the "Run Mode" button to switch between modes.

8.2 Language

You can switch the display language through the following steps:

1. On the Settings interface, click Language, the system will guide you to the language selection interface.
2. Click the language you need to display, the language switch setting completes.

8.3 Navigation Bar

The buttons on the navigation bar from left to right are Reset, connection VCI.

8.4 Reset connection VCI

Open the home page of the app, click the first icon on the top right. Click OK to reset connection VCI. Then please wait for the initialization of VCI. After that, the VCI will be successfully reset.