



User Manual

JU2000 Max

PROFESSIONAL MULTI-SYSTEM CAR DIAGNOSTIC TOOL



PROFESSIONAL. FAST. SMART. POWERFUL

CONTENT

EN

1-30

DE

17-33

FR

34-50

ES

51-67

IT

68-84

Service & Support



[Http://www.icarzone.com](http://www.icarzone.com)



Support@icarzone.us



PRECAUTION

To ensure personal safety and prevent damage to equipment/vehicles, always adhere to the safety guidelines and applicable test protocols provided by the vehicle/equipment manufacturer prior to use. Familiarize yourself with the safety instructions outlined in this manual.

Vehicle maintenance methods and operator skill levels vary significantly. Given the wide range of diagnostic applications and vehicle systems supported by this tool, we cannot anticipate or prescribe safety measures for every scenario. Follow proper servicing practices aligned with ISO 14229-1 diagnostic protocols and SAE J2012 test procedures.

DANGER

Critical Ventilation Requirement

Ensure the service area is WELL VENTILATED during engine operation or connect an exhaust extraction system to the vehicle's tailpipe.

Hazard Warning

Engines emit carbon monoxide (CO) – an odorless toxic gas that causes impaired reaction times and poses life - threatening risks.

SAFETY INSTRUCTIONS

1. **Ventilation & Exhaust Management:** Ensure proper ventilation or use exhaust extraction systems (SAE J1111) during engine operation to prevent carbon monoxide exposure.
2. **Personal Protective Equipment:** Wear ANSI - certified eye protection and secure loose clothing/hair to avoid entanglement with moving parts.
3. **Vehicle Stabilization:** Park in "PARK" (automatic) or "NEUTRAL" (manual), engage the parking brake, and block drive wheels to prevent unintended movement.
4. **Electrical System Caution:** Avoid ignition components (coil, wires, plugs) when energized. Disconnect test equipment before ignition/engine startup. Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs.
5. **Equipment Handling:** Keep equipment dry, clean, and free from oil/grease. Use mild detergent for external cleaning only.
6. **Fire Safety:** Maintain an ABC - rated fire extinguisher nearby to address gasoline, chemical, or electrical fires.
7. **Diagnostic Compliance:** Follow vehicle/service manual protocols (ISO 14229 - 1) and ensure a fully charged battery with secure DLC connection.
8. **EMI Protection:** Avoid placing equipment on vehicle distributors to prevent damage from electromagnetic interference.

9. **Distance & Distraction:** Maintain $\geq 20\text{cm}$ clearance from the body and never operate equipment while driving to avoid accident.

Power Sources

The Device can receive power from any of the following sources:

- **Internal Battery Pack:** A full charge provides approximately 8 hours of continuous operation. New batteries reach full capacity after approximately 3 to 5 charging and discharging cycles.
- **External Power Supply:** Power via USB cable and USB external power adapter.

Power On

Press the top - right Lock/Power button to power on.

The system boots and shows the lock screen.

Slide the lock icon upward to access the JU2000 Max menu.

Power Off

Terminate all vehicle communications before powering off. Forced shutdown during active communication may cause ECM issues on certain vehicles. Exit the Diagnostics app prior to powering down.

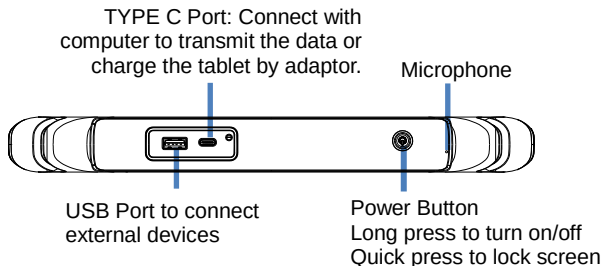
➤ To power down the display tablet:

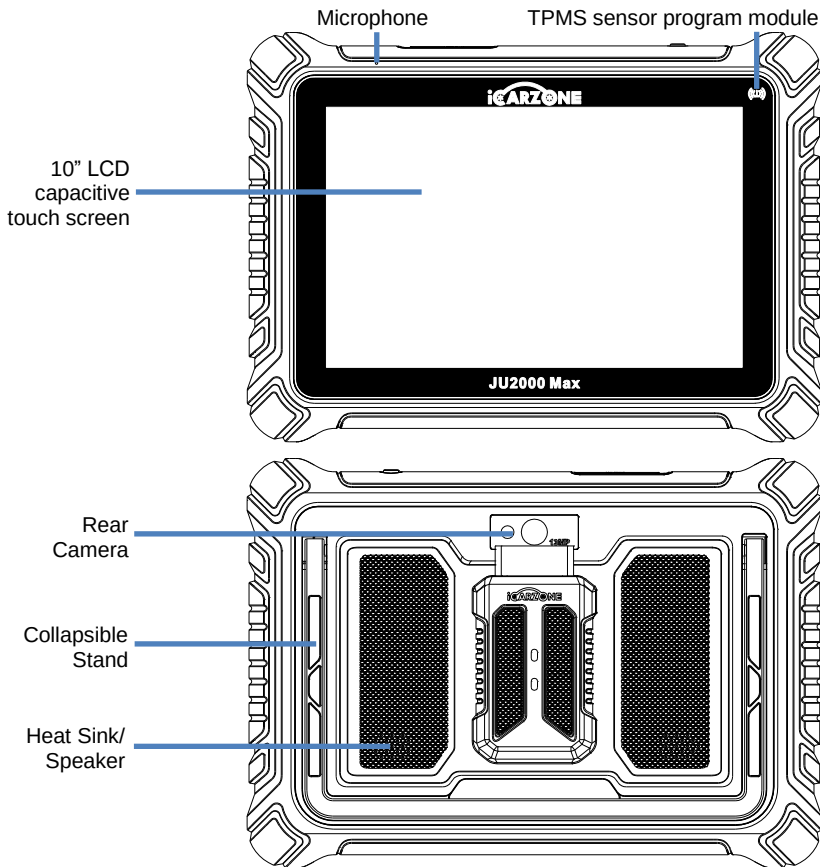
Long press the Lock/Power Button -> Tap **Power off** -> Tap **OK**.

Reboot System

In case of system crash, long press the Lock/Power button and tap Reboot option to restart the system.

1 Product Structure





1.1 Technical Specifications

Item	Description
Recommended Use	Indoor
Operating System	Android 10.0
Processor	Quad Core 2.0 GHz

Storage	128GB
Display	10.1-inch LCD capacitive touchscreen with 1280x800 resolution
Connectivity	• USB Host • USB Type C • Wi-Fi (2.4/5 GHz) • Bluetooth
Body Color	Black
Audio Input/ Output	• Input: Microphone • Output: Speaker
Power and Battery	• 3.8V/10000mAh lithium-polymer battery • Charges via 5V DC power supply
Tested Battery Life	Around 8 hours of continuous use
Type C Input	5V --- 3A
Power Consumption	800mA (LCD on with default brightness, Wi-Fi on) @3.8 V
Operating Temp.	0°C to 50°C(32°F to 122°F)
Storage Temp.	-20 to 70°C (-4 to 158°F)
Operating Humidity	5% - 95% non-condensing
Dimensions (W x H x D)	300 mm X 214 mm X 31.4 mm (11.8 inch X 8.4 inch X 1.2 inch)
Net Weight	≈1300g (2.866lb)
Supported Automotive Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850 PWM, ISO11898 (Higspeed, Middlespeed, Lowspeed and Singlewire CAN), CAN FD, SAE J2610, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6.

Power

Wireless	Frequency band of operation	Maximum transmit power
Bluetooth	2402MHz to 2480MHz	≅ 11.44dBm
Bluetooth Low Energy	2402MHz to 2480MHz	≅ 5.62dBm
2.4G WIFI	802.11b/g/n(HT20): 2412MHz~2472 MHz 802.11n(HT40): 2422MHz~2462 MHz	≅ 18.07dBm
5G WIFI	U-NII-1:5150MHz~5250MHz U-NII-2A:5250MHz~5350MHz	≅ 17.51dBm
	U-NII-3:5725MHz ~5850MHz	≅ 13.51dBm

125KHz
Wireless

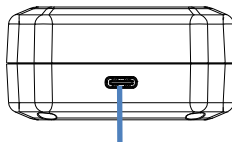
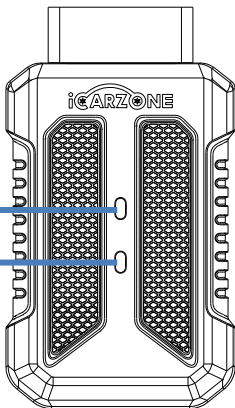
125KHz

≤ 66.12dBuV/m

EN

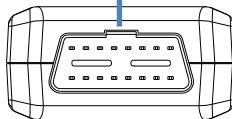
1.2 JU2000 Max VCI Device

Red power indicator light: it will turn on when the connector is plugged in.



TYPE C Port

DB15 Port: connect the cable to vehicle's diagnostic socket.



Bicolor light: Under normal conditions, the blue light flashes rapidly, indicating that the WiFi module is working properly. A steady green light means the USB is powered on, while a flashing green light indicates that data is being transmitted or received.

1.2.1 Technical Specifications

Item	Description
Communication	Wi-Fi 2.4G Hz
Wireless frequency	2.4 GHz
Input voltage range	9V -- 18V ---
Power supply current	150mA@12V
Operating temp.	0°C to 50°C(32°F to 122°F)
Storage temp.	-20°C to 70°C(-4°F to 158°F)
Dimensions (L x W x H)	113.82 mm x 65mm x 32 mm (4.48 inch x 2.56 inch x 1.26 inch)
Weight	≈109g (0.24 lb)

1.2.2 VCI Device binding

First, connect the VCI to the car's OBD port, or use the USB-TYPE C adapter cable to energize the VCI, when the WLAN light blinks blue light on the VCI. That is, the VCI device can work normally.

VCI binding is required for first time use. VCI binds to tablet devices via WIFI.

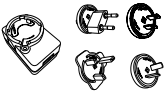
For the first binding, you can do as follows:

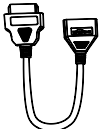
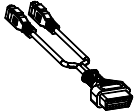
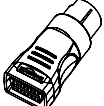
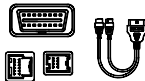
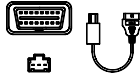
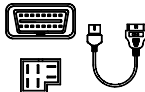
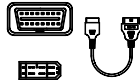
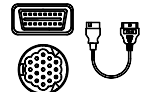
1. Enter the setting interface and tap the VCI binding option to jump to the binding page.
2. In the interface after the jump, tap the Search VCI device button.
3. Wait for the device to be searched, and tap the tablet with the same serial number as the VCI device to bind.
4. After the binding is successful, the page will display a successful signal and display the serial number of the VCI device.
5. If you need to unbind, tap the unbind button in the lower right corner, and the device will be unbound, and you can re-bind with other VCI devices.
6. If the binding is successful, the VCI binding option on the setting page will display the serial number of the bound VCI device.
7. In any other interface, if you need to communicate with the vehicle without VCI binding, the tablet will give a message indicating that you need to bind the VCI, and it will automatically jump to the binding interface after confirmation. Then follow the instructions on the screen.

1.2.3 VCI Device connection

The tablet computer can communicate with VCI via Bluetooth or USB cable. Generally, the USB cable is faster. When the VCI is successfully bound with the tablet, it can automatically transfer vehicle data to your tablet when it enters the vehicle diagnostic system.

1.3 Accessory Kit

	USB Cable Connects the Display Tablet to the PC or DC external power adapter.		TPMS Sensor
	External Power Adapter Together with the USB cable, connects the Display Tablet to the external DC power port for power supply. With a choice of four separate connection plugs		

	VCI Extended Cable Connect the vehicle and VCI device.			Videoscope and USB adapter cable	
	AI-4		B-20		BZ-14
	BZ-38		FCA 12+8		HA-3
	FT-3		CR-6		NN-14
	M/H-12+16		F/M-17		HA-5
	KI-20		PO-19		Starting Battery Tester
	Cleaning cloth			User Manual	
	Packing list			Quick Guide	

2 Operation

2.1 Main Interface

* Ensure the tablet is sufficiently charged or is connected to the external power supply.

EN



NOTE

The tablet screen is locked by default upon startup. It is recommended to lock the screen when not in use to protect the information in the system and conserve the power.

2.2 Locator and Navigation Buttons

Button	Name	Description
	Locator	Shows screen position. Swipe left/right to navigate between screens.
	Back	Returns to the previous screen.
	Recent Apps	Shows running apps. Launch by tapping icons. Swipe apps up/down to remove.
	Android Home	Returns to Android System's Home screen.
	JU2000 Max Home	Returns to JU2000 Max Job Menu.
	Screenshot	Capture a screenshot of the current display to save information.

3 Diagnostics

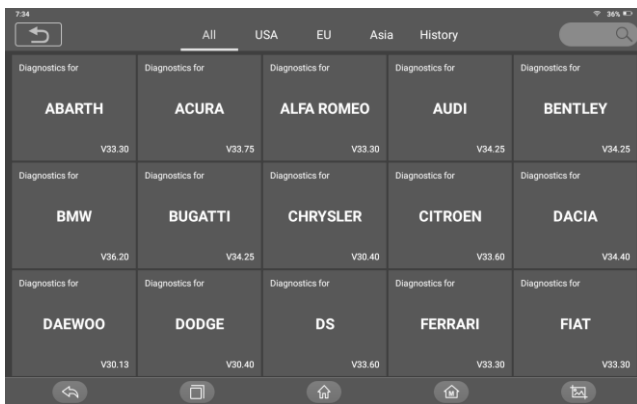
EN



The Diagnostics application can access the electronic control unit (ECU) of various vehicle control systems, such as engine, transmission, anti-lock brake system (ABS), airbag system (SRS) and more.

Diagnostic operation requires the use of a VCI connector to connect to the test vehicle's DLC and work on the wireless connection.

When the tablet is properly connected to the vehicle, the platform is ready to start vehicle diagnosis. Tap on the Diagnostics application button on the JU2000 Max Job Menu, the Vehicle Menu then displays.



Top Toolbar Buttons

The operations of the toolbar buttons at the top of the screen are listed and described in the table below:

Button	Name	Description
	Back	Returns to the JU2000 Max Job Menu.
All	All	Displays a menu of vehicle manufacturers.
USA	USA	Displays the USA vehicle menu.
EU	Europe	Displays the European vehicle menu.
Asia	Asia	Displays the Asian vehicle menu.
History	History	Displays stored test vehicle history records.
	Search	Searches for a specific vehicle make.

Manufacturer Buttons

The vehicle manufacturer buttons display the vehicle brands currently compatible with the tool. After establishing communication with the vehicle. Tap the desired manufacturer button to start a diagnostic session.

EN

3.1 Vehicle Identification

The JU2000 Max diagnostic system supports two methods for Vehicle Identification.

1. Auto identify or VIN identify
2. Vehicle select

3.1.1 Auto Identify

The JU2000 Max diagnostic system features the latest VIN-based Auto VIN Scan function to identify vehicles with just one touch, enabling the technician to quickly identify the vehicle, scan all the diagnosable ECUs on the vehicle and perform diagnostics on the selected system.

The “VIN identify” can automatically parse the car model, eliminating the cumbersome program manually input by the user.

The device diagnostic system has the latest automatic identification function based on the vehicle identification number. It stores all the diagnosable electronic control units of Scan on the vehicle and performs the diagnosis on the selected system. Perform automatic VIN recognition. For some vehicles that do not support the automatic vehicle identification number scanning function, the diagnostic tool allows you to manually enter the vehicle identification number. Recognize the VIN first. If the VIN cannot be recognized, you need to enter it manually.

● Automatic VIN identification

➤ To perform VIN Identify

1. Tap the **Diagnostics** application button from the JU2000 Max Job Menu. The Vehicle Menu displays.
2. Select **vehicle brand**. Tap the “Auto Identify”, Wait for the vehicle to communicate.
3. Once the test vehicle is successfully identified, the screen will show the Vehicle information: include VIN, model code, brand etc., then tap OK to enter the diagnosis.

● Manual VIN Input

For some vehicles that not supporting the Auto VIN Scan function, the JU2000 Max diagnostic system allows you to enter the vehicle VIN manually.

➤ To perform Manual VIN Input

1. Tap the **Diagnostics** application button from the JU2000 Max Job Menu. The Vehicle

Menu displays.

2. Select **vehicle brand**. If some vehicles do not support automatic VIN code recognition, you need to enter the VIN code manually.
3. Tap the input box and enter the correct VIN.
4. Tap OK. The vehicle will be identified and the Vehicle Diagnostics screen will display.
5. Tap Cancel to exit Manual Input.

3.1.2 Vehicle select

In some cases, when the user selects the vehicle brand without performing an automatic vehicle identification number scan, the system can provide vehicle selection to enter the vehicle diagnosis system.

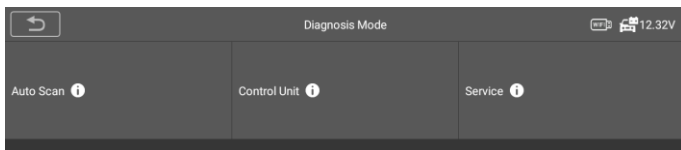
➤ To perform Vehicle Select

1. Tap the Diagnostics application button from the JU2000 Max Job Menu. The Vehicle Menu displays.
2. Tap the vehicle brand of the test vehicle.
3. Tap the "Vehicle Select" option to make a series of selections according to the on-screen prompts, select the correct vehicle model, model year, etc.,
4. Select step by step according to the screen prompts, and finally enter the list of diagnosis modes.

3.2 Diagnosis mode

The scan tool provides 3 diagnostic modes for users to choose:

Auto Scan, Control Unit and Service.



Auto Scan

The Auto Scan function performs a comprehensive scanning of the ECUs in the vehicle's system to locate and retrieve DTCs. Enter Auto Scan, the system will scan your vehicle's system for you. At the same time, the fault information of each unit is detected to show the list and fault status.

Auto Scan		
ECM (Engine Control Module)	Pass	➤
TCM (Transmission control module)	Fault (1)	➤
SRS (Supplemental Inflatable Restraint System)	Pass	➤
IPC (Instrument cluster control module)	Fitted	➤
RLM (Ride level control module)	Fault (2)	➤
SASM (Steering angle sensor module)	Pass	➤
ARCM (Dynamic response module)	Fault (1)	➤
ATCM (All terrain control module)	Fault (1)	➤
CCM (Speed control module)	Fault (1)	➤
FLM (Front lighting control module)	Fault (2)	➤
		Report Quick Erase Pause

- ◆ Fault | (2): Indicates that the fault code is detected; 2 represents the number of faults detected.
- ◆ Pass: Indicates that the vehicle is equipped with this system and has no fault code.
- ◆ Fitted: Indicates that the vehicle is equipped with this system.
- ◆ Not Fitted: Indicates that it is detected that the vehicle is not equipped with this system.
- ◆ Unknown: Indicates that it is detected that it is unknown whether the vehicle is equipped with this system.
- ◆ Scanning: Indicates that the device is scanning the vehicle system.

[Quick Erase] – Press this button to quickly clear the fault code.

[Pause] / [Continue] – Press this button to pause or continue scanning.

[Report] – Press this button to view the fault reports generated during diagnosis.

[Back Button] – Returns to the previous screen or exits Auto Scan.

Control Unit

This option allows you to manually locate the desired control system. According to the menu driven program, the user manually selects the specified control unit that he wants to detect, skips the whole vehicle scanning, and directly carries out the diagnosis of the specified system.

Service

The vehicle diagnostic tool provides an entry from the diagnostic mode to the service function. You can easily select the service function from the diagnosis mode, without

returning to the service menu for selection. For different vehicle models, the service functions are different. Select this option to perform service function and calibrating different systems, such as reset oil service lamp, EPB service, SAS service, Doors, windows and seat calibration learning and so on.

3.3 Diagnostic operation

This option allows you to manually locate a required control system for testing through a series of choices. Follow the menu driven procedures and make proper selection each time; the program will guide you to the diagnostic function menu after selections are made.

The Function Menu options vary slightly for different vehicles. The function menu may include: **Module Information, Read fault code, Clear fault Memory, View data, Actuation Test**

➤ To perform a diagnostic function

1. Establish communication with the test vehicle.
2. Select "Diagnostic" icon.
3. Select Vehicle Manufacturer.
4. Select "Vehicle Select" and select vehicle model, model year, etc. according to the on-screen prompts.
5. Select the diagnosis mode and guide the selection through the menu of any diagnosis mode to locate the required test system.
6. Select the test to be performed on the function list.

◆ Module Information

This function retrieves and displays the specific information for the tested control unit, including unit type, version numbers and other specifications. Also you can save these data by press save button.

◆ Read Fault Codes

This function retrieves and displays the DTCs from the vehicle's control system. The Read Codes screen varies for each vehicle being tested. On some vehicles, freeze frame data can also be retrieved for viewing.

-  – tap this icon to view the information of the detail.
-  – tap this icon to view the information of the freeze frame.

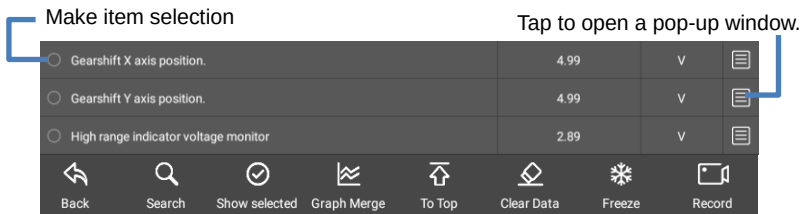
◆ Clear Fault Codes

Once you've read the diagnostic trouble codes (DTCs) from the vehicle and completed necessary repairs, use this function to clear the codes. Before doing so, ensure the

ignition is turned to the ON (RUN) position while the engine remains off.

◆ View Data

Upon selecting this function, the screen shows the data list of the chosen module. Available items for each control module differ across vehicles. Parameters are displayed in the order sent by the ECM, so variations between vehicles are expected.



- ❖ **Back:** returns to previous screen or exits the function.
- ❖ **Search:** search for parameter names to view data.
- ❖ **Show selected:** switch between the two options; one displays the selected parameter items, the other displays all the available items.
- ❖ **Graph Merge:** merge selected data graphs (for Waveform Graph Mode only). This function is useful when making a comparison between parameters. To cancel Graph Merge mode, tap the ⊗ button in the upper right corner.
- ✓ **There are 4 types of display modes** available for data viewing in the submenu.
 - 1) Analog Gauge Mode: displays in form of an analog meter graph.
 - 2) Text Mode: displays the parameters in texts and displays in list format.
 - 3) Waveform Graph Mode: In this mode, view the waveform status of the data.
 - 4) Digital Gauge Mode: displays in form of a digital gauge graph.
- ❖ **To Top:** moves a selected data item to the top of the list.
- ❖ **Clear Data:** clears all previously retrieved parameter values at a selected point.
- ❖ **Freeze:** displays the retrieved data in freeze frame mode.
- ❖ **Record:** the recorded real-time data will be stored as a video clip in the Data Manager.

◆ Actuation Test

The "Actuation Test" function accesses vehicle specific subsystem tests and performs component tests. The available test functions vary according to the manufacturer, year and model, and the menu will only show the available test options.

When performing the actuation test, the tester inputs the command to the ECU to drive the actuator. This test can monitor the operation of the actuator by reading the ECU data

of the engine. For example, by repeatedly switching the two working states of the solenoid valve, relay and switch, it can determine whether the system or components are working normally, and execute the command of the switch on the door or window.

➤ **Left / Right turn signals**

Through the left / right turn signal action test item, you can control the left and right turn signal flashing to test whether the turn signal works normally.

➤ **Window regulator front / rear left / right: down / up**

Through the window regulator action test item, you can control the whole vehicle window up and down to test whether the window up and down works normally.

➤ **Windshield wiper motor (V) stage 1 / 2**

Through the action test item of windshield wiper motor, the wiper can be controlled to work at 1 / 2 gear to test whether the wiper motor works normally.

3.4 Generic OBDII Operations

A fast-access option for OBDII/EOBD vehicle diagnosis is available on the Vehicle Menu screen. This option presents a quick way to check for DTCs, isolate the cause of an illuminated malfunction indicator lamp (MIL), check monitor status prior to emissions certification testing, verify repairs, and perform a number of other services that are emissions-related.

3.4.1 General Procedure

➤ **To access the OBDII/EOBD diagnostics functions**

1. Tap the **Diagnostics** application button from the JU2000 Max Job Menu. The Vehicle Menu displays.
2. Tap the **OBD** button. The device will automatically establish communication with the vehicle. When the communication is complete, vehicle protocol information will be displayed. Tap OK to proceed to the next step.
3. Select a specific protocol under the **Protocol** option. Wait for the OBDII Diagnostic Menu to display.

 NOTE

Some functions are supported only on certain vehicle manufacturers.

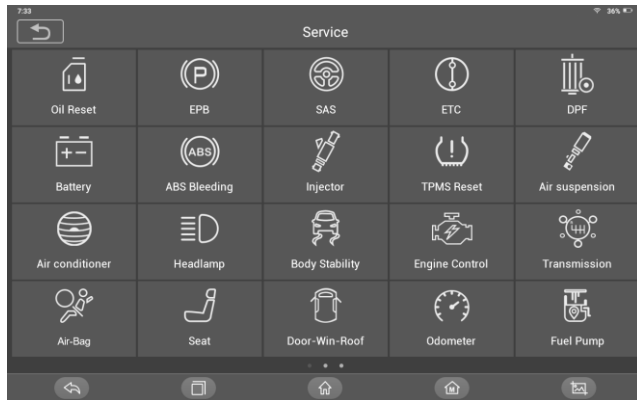
OBDDII has the following function modes: **Read Codes, Erase Codes, I/M Readiness, Live Data, Freeze Frame, Vehicle Information, O2 Monitor Test, On-Board Monitor, Evap System**

4 Service Operations

The Service section is specially designed to provide you with quick access to the vehicle

systems for various scheduled service and maintenance performances.

** All required work must be carried out before the service indicators are reset. Failure to do so may result in incorrect service values and cause DTCs to be stored by the relevant control module.*



● **ABS Bleeding (BLD) Service**

When the ABS contains air, or the ABS computer / ABS pump / brake master cylinder / brake cylinder/ brake fluid is replaced, the ABS bleeding function must be performed to bleed the brake system to restore ABS brake sensitivity.

● **Oil Reset (OIL) Service**

This function allows you to perform reset for the Engine Oil Life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate. The Oil Life Reminder must be reset every time the oil is changed, so the system can calculate when the next oil change is required. Different vehicles may have different methods to do the oil maintenance, generally, oil change is required whenever oil lamp is on and the recommended maintenance period is reached. The Oil Reset function can reset the maintenance period and distance and turn off the lamp when you really change the oil.

NOTE

All required work must be carried out before the service indicators are reset. Failure to do so may result in incorrect service values and cause DTCs to be stored by the relevant control module.

● **Electronic Parking Brake (EPB) Service**

This function has a multitude of usages to maintain the electronic braking system safely

and effectively. The applications include deactivating and activating the brake control system, assisting with brake fluid control, opening and closing brake pads, and setting brakes after disc or pad replacement.

Electronic Parking Brake (EPB) system maintenance, deactivates and reactivates the EPB system for replacement and initialization.

● **Electronic Throttle Control (ETC) Service**

Electronic Throttle Control system (ETC), relearns the throttle value control value while clear or replace the throttle value.

● **Injector Coding (INJ) Service**

When individual injectors are renewed, the injector control module requires the new configuration values for the injector to perform correctly. Write injector actual code or rewrite code in the ECU to the injector code of the corresponding cylinder so as to more accurately control or correct cylinder injection quantity. After the ECU or injector is replaced, injector code of each cylinder must be confirmed or re-coded so that the cylinder can better identify injectors to accurately control fuel injection.

If the vehicle has replaced the fuel injector, in order to ensure the normal operation of the fuel injector, you need to carry out this operation to replace the fuel injector code.

● **Steering Angle Sensor (SAS) Service**

SAS: Steering Angle Sensor (SAS) calibration, calibrates the steering wheel to straight ahead, or recalibrates SAS while steering part replacement.

Calibration must be completed after the following operations:

- Steering wheel replacement.
- Steering angle sensor replacement.
- Any maintenance involving opening the connector hub from the steering angle sensor to the column.
- Any maintenance or repair work on the steering linkage, steering gear or other related mechanism.
- Wheel alignment or wheel track adjustment.
- Accident repairs where damage to the steering angle sensor or assembly, or any part of the steering system may have occurred.

● **NOTE**

- 1) iCarzone accepts no responsibility for any accident or injury arising from servicing the SAS system. When interpreting DTCs retrieved from the vehicle, always follow the manufacturer's recommendation for repair.
- 2) All software screens shown in this manual are examples, actual test screens may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selections.

- 3) Before starting the procedure, make sure the vehicle has an ESC button. Look for the button on dash.

➤ **Steering Column Calibration**

If the steering column or instrument cluster is replaced or the instrument cluster software is updated, a body system steering column calibration is required.

● **Battery Management System (BMS)**

The BMS (Battery Management System) allows the scan tool to evaluate the battery charge state, monitor the close-circuit current, register the battery replacement, and activate the rest state of the vehicle.

NOTE

- 1) This function is not supported by all vehicles.
- 2) The sub functions and actual test screens of the BMS may vary by vehicle. Please follow the on-screen instructions to make the correct selection.

The vehicle may use either a sealed lead-acid battery or an AGM (Absorbed Glass Mat) battery. Lead acid battery contains liquid sulphuric acid and can spill when overturned. AGM battery (known as VRLA battery, valve regulated lead acid) also contains sulphuric acid, but the acid is contained in glass mats between terminal plates.

It is recommended that the replacement aftermarket battery have the same specifications, such as capacity and type, as the battery in the vehicle. If the original battery is replaced with a different type of battery (e.g. a lead-acid battery is replaced with an AGM battery) or a battery with a different capacity (mAh), the vehicle may require reprogramming the new battery type in addition to performing the battery reset. Consult the vehicle manual for additional vehicle-specific information.

➤ **Register Battery Replacement**

This option allows displaying the mileage reading of last battery replacement, registering the battery replacement after replacing a new battery and informing the power management system that a new battery has been fitted to the vehicle.

If the battery change is not registered, the power management system will not function properly, which may not provide the battery with enough charging power to operate the car and limit the functions of individual electrical equipment.

● **Diesel Particulate Filter (DPF) Service**

The DPF function allows you to carry out numerous functions to the Diesel Particulate Filter system. The tool will manage DPF regeneration, DPF component replacement teach-in and DPF teach-in after replacing the engine control unit.

The ECM monitors driving style and selects a suitable time to employ regeneration. Cars driven primarily at idling speed and low load will attempt to regenerate earlier than cars driven with higher loads and at higher speed. For regeneration to occur, a prolonged high

exhaust temperature must be obtained.

In the event that the vehicle has been driven in such a way that regeneration is not possible, a diagnostic trouble code will be registered, DPF light and “Check Engine” indicator will display. A service regeneration can be performed using this tool.

Before carrying out a forced DPF regeneration, check the following items:

- ❖ The fuel light is not on.
- ❖ No DPF-relevant faults are stored in system.
- ❖ The vehicle has the correct spec engine oil.
- ❖ The oil for diesel is not contaminated.

❗ IMPORTANT

Before diagnosing a vehicle and attempting to perform an emergency regeneration, it is important to obtain a full diagnostic log and read out relevant measured value blocks.

🔧 NOTE

- 1) The DPF will not regenerate if the engine management light is on, or there is a faulty EGR valve.
 - 2) The ECU must be re-adapted when replacing the DPF and adding the fuel additive eolys.
 - 3) If the vehicle needs to be driven in order to perform a DPF service, ALWAYS have a second person help you. One person should drive the vehicle while the other person observes the screen on the Tool. Trying to drive and observe the Scan Tool at the same time is dangerous, and could cause a serious traffic accident.
-

● Head Lamp

Head Lamp is about the headlamp maintenance, maintenance and other related operations (including AFS setting), and then perform this function for calibration.

If the vehicle has a headlamp replacement, the calibration of the headlamp leveling height sensor needs to be performed.

● Air Suspension

Air Suspension: After maintenance, replacement and other operations of the suspension height sensor are performed in all aspects, this function needs to be executed for suspension learning and calibration.

● Tire Pressure Monitor System (TPMS) service

The TPMS service function include displaying sensor IDs from the vehicle's ECU, inputting TPMS sensor replacement IDs and testing sensors.

Select tire pressure sensor replacement (Front right wheel sensor) as an example.

🔧 NOTE

- 1) This function will require the sensor ID be inputted on the screen.
-

- 2) The sensor IDs can be read directly from the sensor or by using a sensor activation tool that can read the ID.
- 3) Once the IDs have been entered, the vehicle may have to be driven at a certain speed for a certain time to complete procedure. Follow the instructions displays.

Select tire pressure sensor replacement (Front right wheel sensor) as an example.

➤ Tire pressure sensor replacement:

During this application the wheel unit 8-bits identifications will need to be entered using the screens provided. The sensor identifications can be accessed by reading directly from the wheel unit or by using the identification reading tool. On completion, a specific road test will be required followed by the tire pressure monitor system confirmation application.

NOTE

The vehicle must remain stationary for at least 15 minutes with the ignition off, this will place the sensors into sleep mode. The vehicle must be driven for at least 15 minutes at a speed higher than 20 kph to ensure the module has learned the sensor identifications and positions.

For other services, please follow the on-screen instructions to operate. On completion of the drive cycle, carry out the tire pressure monitor system test application.

● Gearbox Reset

After the gearbox is disassembled or repaired, it will cause shift delay or shock problems. At this time, this function needs to be executed to make the gearbox automatically compensate according to the driving conditions in order to achieve a more comfortable and more ideal shift quality.

● Air conditioning service

After the refrigerant, blower pump, etc. in the air conditioner are replaced, the air conditioning system may not work normally. At this time, this function is needed to activate the air conditioner for a period of time to match the replaced refrigerant, blower pump and other automotive components.

● Air Filter

The engine is a very precise machine part, and even the smallest impurities will cause the wear of the engine. Therefore, the air must be filtered by the air cleaner before entering the cylinder. Therefore, the disassembly, maintenance or replacement of the air filter will cause some particulate impurities in the air to enter the car parts. At this time, the air filter learning and matching functions need to be performed to make the air filter work normally.

● Fuel Pump

After the fuel pump is disassembled, repaired or replaced, it may cause the fuel pump to be unable to continuously provide fuel to the fuel injection nozzle. At this time, the function needs to be executed to activate the replaced fuel pump so that the car can start to inject fuel normally and make the engine achieve the ideal Running status.

- **Engine Idle**

This correction can be executed when the idle speed fault is resolved. Adjust the engine speed of the car at idle speed.

- **Body stability**

Learning and calibration after replacing the body stability control unit and other related components, such as: lateral acceleration sensor for active roll stabilization system, BAS brake assist system, ESP electronic stability program, calibration of yaw rate / lateral and longitudinal acceleration sensors, pedal angle Sensors, etc.

- **Door**

After repairing or replacing the window lift motor, it is necessary to perform relevant functions for calibration.

- **Door Window Calibration:**

This routine learns the top position of the door window glass, which enables pinch protection and one touch up function. The door window glass position can be learned by executing this routine.

- **Seat**

After repairing or replacing the seat position drive motor, it is necessary to perform relevant functions for calibration.

- **Driver's Seat Calibration:**

The routine will restore all the seat axis position values to default for the driver's seat module.

- **Passenger's Seat Calibration:**

The routine will restore all the seat axis position values to default for the passenger seat module.

NOTE

Different models will have different menu modes. This manual is for reference. Everything in kind shall prevail. If there is any increase or decrease in the function of the product, the actual product shall prevail.

5 TPMS Program



JU2000 Max can be used with wireless tire pressure module feature to perform TPMS activation, programming and learning.

1. **Original Sensor Information:** This function displays the tire pressure sensor model information configured by the vehicle manufacturer, including supplier, frequency, part number, etc.
2. **Activate Programmed Sensors:** This function activates the programmed tire pressure

sensors and displays related parameters such as ID, pressure, temperature, and battery status.

3. Check TS-Sensor: This function is used to check the iCarzone sensor status and display related parameters like ID, frequency, software version, and battery status.
4. Programming TS-Sensor: This function is used to program the iCarzone sensor.
5. Automatic Relearn Guide: After replacing the tire pressure sensor, follow the vehicle manufacturer's instructions to perform a simple road test self-learning process.
6. Diagnose By OBD: In specific situations, diagnostic functions may be required when replacing tire pressure sensors.

6 Videoscope

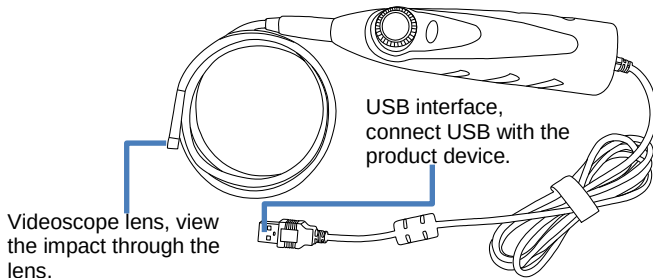


A videoscope is a device utilized by automotive repair technicians to examine an engine and its various components in order to aid in problem identification.

By employing an endoscope, technicians are able to visually inspect areas that are difficult to access or not readily visible, such as engine blocks, valves, pistons, and crankshafts etc.

This facilitates the process of identifying and rectifying faults.

The videoscope diagram is shown below.



➤ To check the JU2000 Max product information in Videoscope:

1. Tap the **Videoscope** application on the JU2000 Max Job Menu. If it is not connected to the videoscope, it is displayed to the not detected page. Tap "video files" button, The screen will go to the "video files" page.
2. If the videoscope is connected to the product, a prompt window is displayed to allow the device to connect to the USB device, Tap OK, then enter the page. At this time, you can take pictures or video.

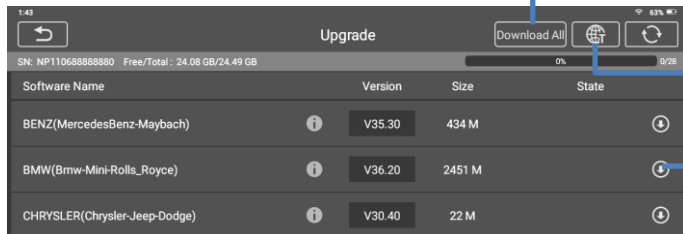
7 Upgrade



The Update application allows you to download the latest released software. The updates can improve the JU2000 Max applications' capabilities, typically by adding new tests, new models, or enhanced applications.

EN

The tablet automatically searches for available updates for the JU2000 Max software when it is connected to the internet. Any updates that are found can be downloaded and installed on the device. This section describes installing an update to the JU2000 Max System.



Tap to update all the items.

Tap to select multiple languages.

Tap to update the item you want

8 Vehicle History



This function stores test vehicle history records, including vehicle information and the retrieved DTCs from previous diagnostic sessions. All information is displayed in summarized details. Tap on a record to resume a diagnostic session on a "stored vehicle".

➤ To access vehicle history:

1. Select **Vehicle History icon** in the **JU2000 Max** main menu. The screen will display the vehicle's historical diagnostic data lists.
2. The drop-down button to the left of the list shows or hides the Historical Diagnostic Records thumbnail. Click on the thumbnail to go to the next level of historical diagnostic data detail page. The Diagnostics button in the upper right corner provides quick access to diagnostics.
3. To delete the historical diagnostic records, click on the tick box in the lower right corner of the thumbnail to select it, and then click on the Delete button in the upper left corner of the navigation bar.

9 Settings



Selecting Settings application opens a setup screen to adjust the default setting and view information about the JU2000 Max system.

These includes: VCI Binding, Unit, Language, Data Log, WIFI, Brightness, Screen Sleep, Vehicle Sorted By, System Settings, Restore Default User Profiles. Tablet System Upgrade

10 Uninstall



This section allows you to manage the software applications installed on the JU2000 Max Diagnostics System. Select this section to open a management screen, on which you can check all the available vehicle diagnostic applications.

By clicking on each line of car brand to select the car software to be removed, the selected item displays a blue check in the check box on the right. Tap the **Delete** button on the top bar to remove the software from the system database.

11 Code Library



Code Library allows you to query the fault history and information description according to the model fault code. Slide up and down to select the required model and code.

12 Support



Through our online community platform and online customer service, you can submit feedback or send help requests to get direct service and support. *In order to sync the device to your online account, you need to register the product via the Internet when you use the product for the first time.

Data Log

The Data Log screen displays diagnostic logs generated during device use. When the logging switch in Settings is enabled, logs are automatically saved. Select the checkbox for any log entry to delete it or submit feedback.

To delete: Check the boxes next to the logs. You can select multiple logs simultaneously. Then tap the “Delete” button in the upper - right corner to delete them.

To submit: 1. Select the check box next to the logs, you can select multiple logs at once. Tap the  **feedback** button in the upper right corner to open the information feedback interface. 2. In the input boxes, enter the title, description, vehicle information, etc. Fields marked with “*” are required. Then tap the  **Upload** button to submit feedback. You can also tap the “+” button to add up to 3 photos for submission.

13 Remote Desk



The Remote Desk application launches the TeamViewer Quick Support program, a simple, fast and secure remote control screen. Use this application to receive ad-hoc remote support from iCarzone's support technicians by allowing them to control your JU2000 Max tablet on their PC via the TeamViewer software.

Make sure the tablet is connected to the Internet before launching the Remote Desk

application.

➤ **To receive remote support from a partner**

1. Power on the tablet. Tap the **Remote Desk** application on the JU2000 Max Job Menu. The TeamViewer screen displays and the device ID is generated and shown.
2. Your partner needs to download and install the TeamViewer remote control program (<http://www.teamviewer.com>) on their computer. Then they need to start the software on their computer to provide support and remotely control the device.
3. Provide your ID to the partner, and wait for him/her to send you a remote control request.
4. A popup will display to ask for your confirmation to allow remote control on your device.

Refer to the associated TeamViewer documents for additional information.

14 Quick Link



The Quick Link application provides access to iCarzone's official website and to other popular automotive service websites. These sites are invaluable resources of automotive information and repair data and include forums, video training and expert consultation.

15 About



The About screen lists the JU2000 Max's version, hardware, and serial number, storage and etc.

16 User Data



The User Data application is used to store and view saved files. Contains images, play back, user manual, Training, Report, DLC Location. Details are explained in the following sections.

➤ **Play Back**

The playback section allows you to view diagnostic data, live data, and fault codes on the system.

To view live data:

1. Tap the Play back icon on the User Data application. The screen display the data list of diagnostic data, live data, and fault codes.
2. Select a list, the screen will enter the data flow recording interface.
3. Select the check box in the lower right corner of each list, tap the button in the upper right corner to execute PDF output function or delete.

Perform PDF output function:

- 1) Select one or more data lists and tap the button "Output PDF" to enter the interface. In this interface, you can still move up, down, and delete.
- 2) After the adjustment is completed, tap the button "Output PDF" in the upper right corner, and an interface for outputting the report to PDF appears. Fill in the file name, vehicle, customer, and operator, and press the save button.
- 3) After the save is complete, the screen will show a message indicating that the save is successful, and inform the user of the save path of the report. Return to the previous menu, you can view the converted PDF report in "Report".

17 Shop Information



The Shop Manager application manages the workshop information including customer information records and test vehicle history records. There are 2 main functions available: **Workshop Information** and **Customer Information**

18 Maintenance

- **Cleaning:** Wipe the tablet's touchscreen with a soft cloth and alcohol or mild window cleaner. Avoid abrasive cleansers, detergents, or automotive chemicals.
- **Environment:** Use/store the device in dry, dust-free conditions within its normal operating temperature range. Moisture (e.g., wet hands or surfaces) may impair touchscreen responsiveness; keep hands and the screen dry.
- **Inspection:** Check the housing, wiring, and connectors for dirt/damage before and after use. Wipe these components with a damp cloth at the end of each workday.
- **Safety & Handling:** Do not store the devices in humid, dusty or dirty areas. Handle carefully to prevent drops or heavy impacts.
- **Charging & Accessories:** Use only authorized chargers/accessories; unauthorized use voids the warranty. Keep chargers away from conductive objects to avoid hazards.
- **Interference:** Avoid operating the tablet near signal-interfering devices (e.g., microwaves, cordless phones, medical/scientific instruments).

19 Troubleshooting

A. When the Display Tablet does not work properly:

- Make sure the tablet has been registered online.
- Make sure the system software and diagnostic application software are properly updated.
- Make sure the tablet is connected to the Internet.
- Check all cables, connections, and indicators to see if the signal is being received.

B. When battery life is shorter than usual:

- This may happen when you are in an area with low signal strength. Turn off your device when not in use.

C. When you cannot turn on the tablet:

- Make sure the tablet is connected to a power source or the battery is charged.

D. When you are unable to charge the tablet:

- Your charger maybe out of order. Contact your nearest dealer.
- You may be attempting to use the device in an overly hot/cold temperature. Try changing the charging environment.
- Your device may have not been connected to the charger properly. Check the connector.

**If your problems persist, please contact iCarzone's technical support personnel or your local selling agent*

20 Battery Usage

**DANGER**

The built-in Lithium-ion Polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion. Do not use a damaged battery charger.

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, expose to fire, explosion or other hazard.
- Make sure to use the charger and USB cables only that come together in the package. If you use the other charger and USB cables, you might incur malfunction or failure of the device.
- Only use the charging device that has been qualified with device per the standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- The closer you are to your network's base station, the longer your tablet usage time because less battery power is consumed for the connection.
- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since over charging may shorten battery life, remove the tablet from its charger once it is fully charged. Unplug the charger, once charging is complete.
- Leaving the tablet in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal

temperatures.

21 Repair Service

If it becomes necessary to return your device for repair, please download the repair service form from www.icarzone.com, and fill it in. The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs
- Preferred method of payment for non-warranty repairs

NOTE

For non-warranty repairs, payment can be made with Visa, Master Card, or with approved credit terms.

22 Compliance Information

FCC Requirement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CR Eagle P SAR

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized. SAR compliance is based on a separation distance of 0 mm between the unit and the body of the user.

FCC 20cm Statement (CR Eagle P VCI)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RoHS Compliance

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU&2015/863/EU.

CE Compliance

This product is declared to conform to the essential requirements of the following Directives and carries the CE mark accordingly:

RED Directive 2014/53/EU

23 . Warranty

Limited One Year Warranty

iCarzone Inc. (the Company) warrants to the original retail purchaser of this JU2000 Max Diagnostic Device that, should this product or any part thereof during normal consumer usage and conditions be proven defective in material or workmanship, resulting in product failure within one (1) year of the purchase date, such defect(s) will be repaired or replaced (with new or rebuilt parts) with proof of purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or non-mounting (or improper mounting; "mounting" alone may be contextually unclear) of the device. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Warranty Exclusions

This warranty does not apply to:

- a) Products damaged by abnormal use, accidents, mishandling, neglect, unauthorized alterations, improper installation/repair, or storage.
- b) Products with altered/removed mechanical/electronic serial numbers.
- c) Damage from extreme temperatures/environmental conditions.
- d) Damage caused by unauthorized accessories/non-approved products.
- e) Cosmetic defects (framing, non-operative parts).
- f) Damage from external causes (fire, dirt, battery leakage, theft, electrical misuse).



IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

iCarzone Inc.

www.icarzone.com

All Rights Reserved