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> iCarsoft CR MAX P Bidirectional Scan Tool User Manual

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Model: CR MAX P

1. INTRODUCTION

The iCarsoft CR MAX P is a high-performance bidirectional diagnostic scan tool designed for comprehensive vehicle diagnostics. It features a 10-inch touchscreen, Android 8.1 operating system, and supports a wide range of diagnostic functions including full-system scanning, up to 51 maintenance services, over 4000 bidirectional tests, and complete OBD2 functions. This tool is compatible with most vehicles manufactured after 1996 and supports advanced protocols like CAN FD and DoIP.

PRO-LEVEL DIY DIAGNOSTICS

2026 Upgraded, Go Beyond Basic Scanners

OE-Level
All Systems Diagnostics

4000+
Active Tests

51+
Reset Services

46+
Special Functions
(Brand-Specific)

**Full OBD2
Modes**



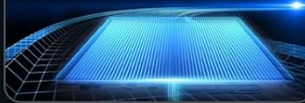
10" Large Touch Screen
1280 x 800 resolution



64G Memory
No Lag Operation



10000mAh
All-Day Battery



Android 8.1
Smooth



CAN FD



33 Feet BT Wireless
Work Anywhere



2.4G WIFI



Image: The iCarsoft CR MAX P device showcasing its key features and capabilities.

2. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present:

- iCarsoft CR MAX P Diagnostic Tool
- User Manual
- VCI Adapter Holder
- VCI Adapter
- USB Cable
- USB to Ethernet Adapter Cable
- Power Adapter
- OBDII Connector F-Chassis
- RJ45 Network Cable, 1.2 M
- Cleaning cloth

what's in the box



Image: All items included in the iCarsoft CR MAX P product package, including the main unit, cables, and accessories.

3. SETUP

3.1 Initial Power-On and Charging

Before first use, ensure the device is fully charged using the provided power adapter. Connect the power adapter to the device's charging port and plug it into a standard electrical outlet. The device features a 10,000mAh battery for extended operation.

3.2 Connecting to the Vehicle

Locate your vehicle's OBD2 diagnostic port, typically found under the dashboard on the driver's side. Connect the 16-pin OBD2 diagnostic adapter (or appropriate adapter for non-16pin sockets) to the vehicle's port, then connect the other end to the iCarsoft CR MAX P device.

3.3 Wireless Connection (Bluetooth & Wi-Fi)

The CR MAX P supports wireless diagnostics via Bluetooth and Wi-Fi. This allows for flexible operation up to 33 feet

away from the vehicle. To establish a connection:

1. Power on the CR MAX P device.
2. Navigate to the 'Settings' menu on the device.
3. Enable Bluetooth and Wi-Fi.
4. For Bluetooth, select the VCI adapter from the list of available devices to pair.
5. For Wi-Fi, select your network and enter the password if required.

2 new Services Launched with CR MAX P!

VIV(VIN Verification) **DMV(Mileage Verification)**

Good news! These two new services are compatible with the vast majority of brands we support (covering most car models), but four brands (For PEUGEOT/DS/DAWOO/HOLDEN) are still completely incompatible. Please send us your vehicle's VIN and we will conduct a precise compatibility check for you.

Image: The iCarsoft CR MAX P device connected wirelessly to a vehicle, demonstrating its 33ft Bluetooth range.

3.4 Software Updates

Regular software updates are provided to ensure compatibility with new vehicle models and to enhance functionality. Connect the device to a Wi-Fi network and navigate to the 'Upgrade' section on the main menu to check for and install available updates.

4. OPERATING INSTRUCTIONS

4.1 Full System Diagnostics


The CR MAX P can perform a deep scan of all vehicle modules to identify diagnostic trouble codes (DTCs) and monitor system status. This includes engine, transmission, ABS, airbag, and more.


- **Read & Clear Codes:** Retrieve and erase DTCs from all accessible control units.
- **Live Data:** View real-time data streams from various sensors and components. Data can be displayed in analog, text, graphing, or progress bar formats.
- **Freeze Frame:** Capture a snapshot of vehicle conditions at the moment a fault code was triggered.
- **Vehicle Information:** Access vehicle identification number (VIN), calibration IDs, and calibration verification numbers.
- **Monitor Test:** Check the status of various emission-related monitors.
- **O2 Sensor Test:** Retrieve O2 sensor monitoring test results.
- **I/M Readiness:** Check the readiness status of the emission-related monitoring systems.


FULL SYSTEM DIAGNOSTICS

Deep Scan All the Modules, Locate Root Cause




 Engine System

 ABS System

 Transmission

 SRS System


 Suspension

 Electrical

 Fuel

 BCM

 A/C

 TPMS

And More...



Image: The iCarsoft CR MAX P displaying full system diagnostic capabilities, including reading codes, live data, and ECU information across various vehicle systems.

4.2 Bidirectional Control (Active Tests)

This function allows the diagnostic tool to send commands to vehicle components to test their functionality directly. This helps in pinpointing faults and verifying repairs.

Examples of actuation tests include:

- Injector Test
- Fuel Pump Test
- Idle Air Control Valve Test
- Ignition Coil Test
- ABS Pump Motor Test
- EV-AP Valve Test
- Throttle Position Actuator Test
- Cooling Fan Test
- HVAC Test

- A/C Compressor Test
- Window, Headlight, Wiper, Door Lock, Horn tests



Image: The iCarsoft CR MAX P demonstrating bidirectional control, sending commands to various vehicle components for active testing.

4.3 Reset and Maintenance Services

The CR MAX P offers up to 51 maintenance and reset services to restore vehicle systems to optimal status after repair or replacement. The availability of specific functions depends on the vehicle model and its systems.

Key services include:

- Oil Reset
- Electronic Parking Brake (EPB) Reset
- Steering Angle Sensor (SAS) Reset
- Throttle Relearn
- Diesel Particulate Filter (DPF) Regeneration
- Battery Management System (BMS) Reset
- Anti-lock Braking System (ABS) Bleeding
- Injector Coding
- Tire Pressure Monitoring System (TPMS) Reset
- Suspension Calibration
- Air Conditioning (AC) System Reset
- Head Lamp Adjustment
- Body Stability System Reset
- Engine, Transmission, Airbag System Resets
- Seat, Door-Window-Roof System Resets
- Fuel Pump Activation
- Exhaust Gas Recirculation (EGR) Adaptation
- AdBlue Reset
- Clutch Adaptation
- Crankshaft Position Sensor Learning
- High Voltage Battery Diagnostics
- Cruise Control System Adaptation
- NOx Sensor Reset

- Rain Sensor Calibration
- Stop And Start System Reset
- Turbocharger Calibration
- Head Up Display Calibration
- Radar Camera Calibration
- Vehicle Setup
- Cylinder Misfire Check
- Speed Limit Assist
- Control Unit Reset
- Oxygen Sensor Calibration
- Seatbelt Warning Reset
- VIN Verification (New Service)
- Mileage Verification (New Service)

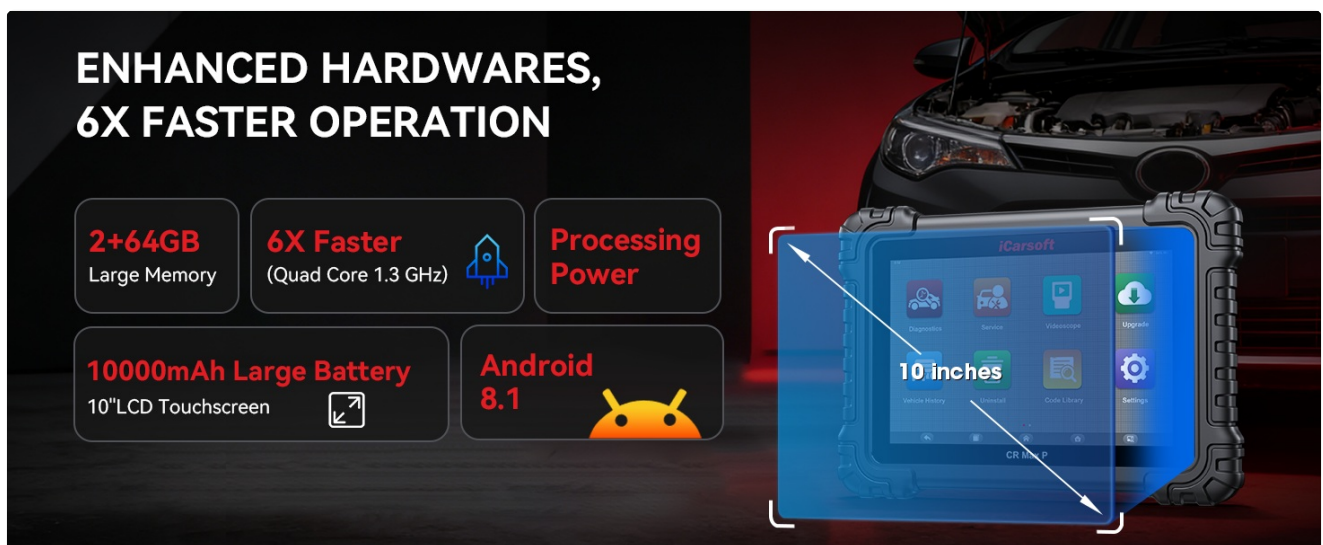


Image: A comprehensive display of the 51 maintenance and reset services available on the iCarsoft CR MAX P.

4.4 ECU Coding

The ECU Coding function allows for advanced vehicle customization and component adaptation, primarily for V.A.G (Volkswagen, Audi, Skoda, SEAT), BMW, MINI, Bentley, Lamborghini, and Ducati vehicles. This includes:

- **Unlocking Hidden Features:** Enable manufacturer-equipped functions that are not active by default (e.g., auto door lock, coming home/leaving home lights, blind spot monitoring, instrument cluster coding).
- **Disabling Annoying Features:** Customize vehicle behavior by deactivating certain functions.
- **Coding Retrofitted Components:** Adapt new components to the vehicle's existing systems.



Image: The iCarsoft CR MAX P demonstrating its advanced ECU coding capabilities to unlock vehicle potential.

4.5 One-Click Auto VIN & Auto Scan

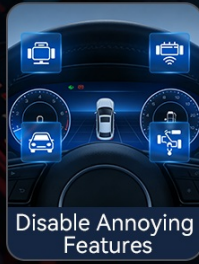
For efficient and comprehensive diagnostics, the device supports automatic VIN detection and a one-click auto scan function that quickly scans all accessible modules for fault codes.

ADVANCED ECU CODING UNLOCK FULL POWER OF YOUR VEHICLE

For Audi/BMW/VW/Škoda/SEAT/Bentley/Lamborghini/Ducati ONLY



Unlock Hidden Features



Disable Annoying Features



Code The Retrofitted Components



Image: The iCarsoft CR MAX P displaying its one-click auto VIN and auto scan feature for quick vehicle identification and diagnostic overview.

5. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device's screen and exterior. Avoid abrasive cleaners or solvents.
- **Software Updates:** Regularly check for and install software updates to ensure optimal performance and compatibility with the latest vehicle models.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying case for protection during transport.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it will be stored for an extended period.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; faulty power adapter; device malfunction.	Charge the device for at least 30 minutes. Ensure the power adapter is working correctly. If the issue persists, contact support.
Unable to connect to vehicle.	Loose OBD2 connection; incorrect adapter; vehicle ignition off; incompatible vehicle.	Ensure the OBD2 connector is securely plugged into the vehicle's port. Turn the vehicle ignition to the ON position (engine off). Verify vehicle compatibility with the manufacturer.
Wireless connection (Bluetooth/Wi-Fi) issues.	Out of range; interference; incorrect settings.	Ensure the device is within 33 feet of the VCI adapter. Check Bluetooth and Wi-Fi settings on the device. Restart both the device and the VCI adapter.
Diagnostic functions not working for specific vehicle.	Software not updated; vehicle not supported; specific function not available for that model.	Perform a software update. Contact iCarsoft support with your vehicle's VIN to confirm compatibility for specific functions.

7. SPECIFICATIONS

Feature	Detail
Brand	iCarsoft
Model Number	CR MAX P
Power Source	Battery Powered
Operating System	Android 8.1
Screen Size	10 Inches
Memory	64GB Storage
Battery Capacity	10,000mAh
Wireless Range	33ft (Bluetooth/Wi-Fi)
Supported Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850 PWM, ISO11898, SAE J2610, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, CAN FD, DoIP
Automotive Fit Type	Universal Fit



Image: Visual representation of the iCarsoft CR MAX P's enhanced hardware, including screen size, memory, battery, and operating system.

8. WARRANTY INFORMATION

The iCarsoft CR MAX P comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official iCarsoft website or contact customer support.

9. CUSTOMER SUPPORT

For technical assistance, compatibility inquiries, or any other support needs, please contact iCarsoft customer

service. When contacting support, it is helpful to have your device's serial number and your vehicle's VIN (Vehicle Identification Number) ready, especially for compatibility checks regarding specific functions.

You can often find support contact information on the iCarsoft official website or within the device's 'About' or 'Settings' menu.