

XTOOL IP900BT

XTOOL IP900BT ECU Coding OBD2 Scanner Instruction Manual

Model: IP900BT

1. INTRODUCTION

The XTOOL IP900BT is a wireless, AI-assisted diagnostic scan tool designed for comprehensive vehicle diagnostics and maintenance. It features a robust hardware configuration and a wide array of software functionalities to assist both professional mechanics and DIY enthusiasts.



Image: Overview of the XTOOL IP900BT wireless diagnostic scanner, highlighting its key features.

Key Features:

- **Hardware:** Quad-core 1.5GHz processor, 64GB internal storage, Android 10.0 OS, 8-inch touchscreen, 8MP camera, 5000mAh 7.3V Li-ion battery.
- **Connectivity:** Wireless (Wi-Fi) and wired connection options.
- **Diagnostic Functions:** Full system diagnostics, 41+ reset services, 4000+ bidirectional tests, ECU coding, PMI function, ADAS calibration.
- **Advanced Features:** AI-assisted diagnostics, Pre/Post scan reports, Live Data graphing, FCA AutoAuth, DoIP, CAN FD support.

- **Updates:** 3 years of free software updates.

2. SETUP

2.1 Unboxing and Initial Inspection

Carefully unpack all components from the tool case. Verify that all items listed in the 'What's Included' section are present and undamaged. If any items are missing or damaged, contact XTOOL support.



Image: The VCI (Vehicle Communication Interface) box, a key component for wireless diagnostics.

2.2 Powering On and Charging

1. Connect the provided charger adapter to the IP900BT device.
2. Plug the charger into a power outlet. The device will begin charging.
3. Press and hold the power button to turn on the device.

2.3 Initial Configuration

Upon first startup, follow the on-screen prompts to configure basic settings:

- **Language Selection:** Choose your preferred language.
- **Wi-Fi Connection:** Connect to a stable Wi-Fi network for software updates and online functions.
- **Time Zone:** Set the correct time zone.

2.4 Account Registration and Software Updates

Registering an account is essential for accessing software updates and certain online features. Ensure the device is connected to Wi-Fi before proceeding.

Your browser does not support the video tag.

Video: This video demonstrates the process of registering an account for the XTOOL IP900BT diagnostic tool, which is necessary for software updates and online services.

After registration, navigate to the 'Update' section to download and install the latest software. Regular updates ensure optimal performance and compatibility with new vehicle models.

3. OPERATING INSTRUCTIONS

3.1 Connecting to the Vehicle

The IP900BT supports both wireless and wired connections to the vehicle's OBD-II port.

Your browser does not support the video tag.

Video: This video illustrates how to establish both wireless and wired connections between the XTOOL IP900BT and a vehicle, demonstrating flexibility in diagnostic setup.

Wireless Connection:

1. Locate the vehicle's OBD-II port (usually under the dashboard).
2. Plug the VCI (Vehicle Communication Interface) module into the OBD-II port.
3. Ensure the IP900BT device's Bluetooth is enabled and paired with the VCI module.
4. The device will automatically detect the vehicle's VIN (Vehicle Identification Number) and establish communication.

Wired Connection:

1. Locate the vehicle's OBD-II port.
2. Connect the OBDII-16 connector cable from the IP900BT device directly to the vehicle's OBD-II port.
3. The device will automatically detect the vehicle's VIN and establish communication.

3.2 Diagnostic Functions

Once connected, the IP900BT offers a range of diagnostic and service functions.

Your browser does not support the video tag.

Video: This video demonstrates the automatic scan feature of the XTOOL IP900BT, showing how it quickly identifies vehicle systems and potential issues.

Full System Diagnostics:

Select 'Diagnostics' from the main menu to perform a comprehensive scan of all available vehicle systems (e.g., Engine, ABS, Airbag, Transmission, TPMS). The tool will read and clear Diagnostic Trouble Codes (DTCs).

Live Data Stream:

View real-time data parameters from various sensors and modules. This data can be displayed in text, graph, or gauge format, allowing for detailed analysis of vehicle performance. Up to 8 PIDs can be graphed simultaneously.

Your browser does not support the video tag.

Video: This video demonstrates the real-time live data display feature of the XTOOL IP900BT, showing how to monitor various vehicle parameters simultaneously.

Bidirectional Control / Active Tests:

This function allows you to send commands to vehicle components to test their functionality directly from the scanner. Examples include activating fuel pumps, cycling ABS solenoids, or testing window motors. This helps pinpoint faulty components quickly.



Image: The XTOOL IP900BT performing bidirectional control, illustrating the ability to send commands to vehicle components.

Your browser does not support the video tag.

Video: This video demonstrates the bidirectional controls and active tests available on the XTOOL IP900BT, showing how to command vehicle components for diagnostic purposes.

ECU Coding & PMI:

ECU Coding: This function allows for component matching, adaptive data reset, and feature control. It ensures new components are recognized by the vehicle and allows for customization of vehicle features. Supported for specific brands like Benz and BMW.

PMI (Programmable Module Installation): Used when replacing parts like control modules, sensors, or actuators. It ensures the new component is properly recognized and allows for relearning optimal parameters. Supported for Ford, Lincoln, and Mazda.



Image: The XTOOL IP900BT performing ECU coding, illustrating its capability to program and adapt vehicle modules.

Your browser does not support the video tag.

Video: This video highlights the ECU Coding feature and the ability to reflash hidden features using the XTOOL IP900BT diagnostic tool.

Special Functions / Reset Services:

The IP900BT provides over 41 common maintenance and reset services, including but not limited to:

- Oil Reset
- Electronic Parking Brake (EPB) Reset
- Battery Management System (BMS) Reset
- Steering Angle Sensor (SAS) Calibration
- ABS Bleeding
- Throttle Relearn
- ADAS Calibration
- Gearbox Match
- Seat Match
- Headlight Adjustment
- A/C Relearn
- TPMS Reset



Image: The XTOOL IP900BT displaying its extensive list of over 41 service reset functions.

Pre/Post Scan Reports:

Generate diagnostic reports before and after repairs to document resolved issues. This feature provides a clear record of vehicle condition and repairs performed.

AI-Assisted Diagnostics:

The AI-assisted feature translates complex fault codes into understandable language and provides step-by-step troubleshooting guidance, reducing reliance on extensive technical knowledge.

(PMI) Programmable Module Installation

- ◆ Support PMI function, Compatible with Ford /Lincoln/ Mazda.



Image: The XTOOL IP900BT displaying AI-assisted diagnostic results and recommendations.

Advanced Protocols (FCA/DoIP/CAN FD):

The IP900BT supports advanced communication protocols for modern vehicles:

- **FCA AutoAuth:** Directly accesses secured modules on Chrysler, Jeep, Dodge (2018+) and Fiat (2017+) vehicles in North America. (Requires FCA account, registration, and subscription plan, or use XTOOL 12+8 cable as an alternative).
- **DoIP (Diagnostics over Internet Protocol):** Utilizes the vehicle's Ethernet network for faster and more stable data transfer, essential for 2020+ vehicles.
- **CAN FD (Controller Area Network Flexible Data-Rate):** Provides faster diagnostic speeds and handles larger data frames for 2005+ vehicles.

Online & Offline ECU Coding

◆ Online Coding

Quick and precise. Online servers send coding values; can be used by any technician or shop, regardless of experience.

Compatible Brands: for BMW.

◆ Offline Coding

For more customized builds. Manually input coding values for more customized car builds.

Compatible Brands: for VW, for Audi, for Skoda, for BENZ, for Mitsubishi.



Image: The XTOOL IP900BT demonstrating FCA AutoAuth functionality for secure gateway access.

4. MAINTENANCE

4.1 Software Updates

Regular software updates are crucial for maintaining optimal performance, adding new features, and ensuring compatibility with the latest vehicle models. The IP900BT includes 3 years of free software updates.

1. Ensure the device is connected to a stable Wi-Fi network.
2. Navigate to the 'Update' section on the main menu.
3. Follow the on-screen instructions to download and install available updates.

4.2 Cleaning and Storage

- Clean the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- Keep the touchscreen clean to ensure responsiveness.
- Store the device in its protective case in a cool, dry place when not in use.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

4.3 Battery Care

- Charge the device regularly to maintain battery health.
- Avoid completely draining the battery frequently.
- If storing for an extended period, charge the battery to approximately 50-70% before storage.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your XTOOL IP900BT.

5.1 Device Not Powering On

- Ensure the device is fully charged. Connect it to the charger and wait a few minutes before attempting to power on again.
- Verify the charger and cable are functioning correctly.

5.2 Connection Issues (Wireless/Wired)

- **Wireless:** Ensure the VCI module is securely plugged into the vehicle's OBD-II port and the vehicle's ignition is on. Check that Bluetooth is enabled on the IP900BT and it is paired with the VCI.
- **Wired:** Ensure the OBDII-16 connector cable is securely connected to both the device and the vehicle's OBD-II port.
- Verify the vehicle's battery has sufficient charge.

5.3 Software Freezing or Unresponsive

- Restart the device.
- Ensure the software is up to date. Perform a software update if available.
- If the issue persists, contact XTOOL technical support.

5.4 AI Suggestions for Reference Only

The AI-assisted diagnostic suggestions are for reference only. Always refer to the actual on-site conditions and professional judgment for final diagnosis and repair decisions.

6. SPECIFICATIONS

Feature	Specification
---------	---------------

Feature	Specification
Brand	XTOOL
Model Number	IP900BT
Operating System	Android 10.0
Processor	Quad-core 1.5GHz
Screen Size	8 inches (1024x768)
Internal Storage	64GB
Battery Capacity	5000mAh 7.3V Li-ion
Camera	8MP Rear
Connection Method	Wireless (Wi-Fi) / Wired
Free Update Period	3 Years
Warranty	2 Years
Special Functions	41+
Bidirectional Control	Available
ECU Coding	Available
ADAS Calibration	Available
PMI (Programmable Module Installation)	Available
FCA AutoAuth	Available (North America, 2018+ Chrysler/Jeep/Dodge, 2017+ Fiat)
DoIP Support	Available (for modern 2020+ vehicles)
CAN FD Support	Available (for 2005+ vehicles)

7. What's Included

The XTOOL IP900BT package includes the following components:



Image: A visual representation of the XTOOL IP900BT and its included accessories.

- IP900BT Wireless AI-Assisted Diagnostic Scan Tool
- OBD II -16 Connector
- OB15 to OBD II-F Adapter
- Tool Case
- Charger Adapter US
- Charger Adapter UK
- Charger Adapter EU
- Type C to Type C Charger Cable
- Type C to Type A Adapter
- Quick Start Guide
- Packing List

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The XTOOL IP900BT comes with a **2-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

8.2 Technical Support

For any technical assistance, troubleshooting, or warranty inquiries, please contact XTOOL customer service:

- **Email:** xtoolinplusus@outlook.com
- Please provide your product model, serial number, and a detailed description of the issue when contacting support.

XTOOL provides lifetime after-sales support to ensure you get the most out of your diagnostic tool.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question