

[Manuals.plus](#) /
› [FOXWELL](#) /
› FOXWELL NT909 Scan Tool Wireless Bidirectional All System All Function Scanner with FOXWELL BT100 Pro Battery Tester 12V Automotive User Manual

FOXWELL NT909, BT100 Pro

FOXWELL NT909 Scan Tool & BT100 Pro Battery Tester User Manual

Your comprehensive guide to setting up, operating, and maintaining your FOXWELL automotive diagnostic tools.

1. PRODUCT OVERVIEW

The FOXWELL NT909 Scan Tool and BT100 Pro Battery Tester are advanced automotive diagnostic devices designed to provide comprehensive vehicle health analysis. The NT909 offers extensive diagnostic capabilities, while the BT100 Pro specializes in battery health assessment.



Image: The FOXWELL NT909 Scan Tool (tablet with VCI dongle) and the FOXWELL BT100 Pro Battery Tester.

1.1 FOXWELL NT909 Scan Tool

The NT909 is a professional-grade diagnostic scanner featuring a wireless VCI dongle for convenient vehicle connection. It supports a wide range of functions including OE-level full system diagnosis, bidirectional control (active tests), advanced ECU coding, and over 30 service reset functions. It operates on Android 9.0 with an 8-inch touchscreen display.

FOXWELL NT909

Diagnostic Tool

Upgrade of NT809/NT809BT, More
High-level functions+Premium hardware+
Wireless connection+New protocols added

- VAG Guided Functions
- Bi-directional Control(Active Test)
- OE-Level Full Systems Diagnosis
- ECU Offline Coding For BMW E&F Chassis Vehicles
- FCA Auto Auth
- Coding for Specific Brands
- Remote Task
- Wireless VCI Dongle
- Compatible with USB Port 2.0 Endoscope
- Camera Scan VIN



Android 9.0



2GB+32GB



8" Touchscreen



8000mAh
Battery



1280*800
Resolution

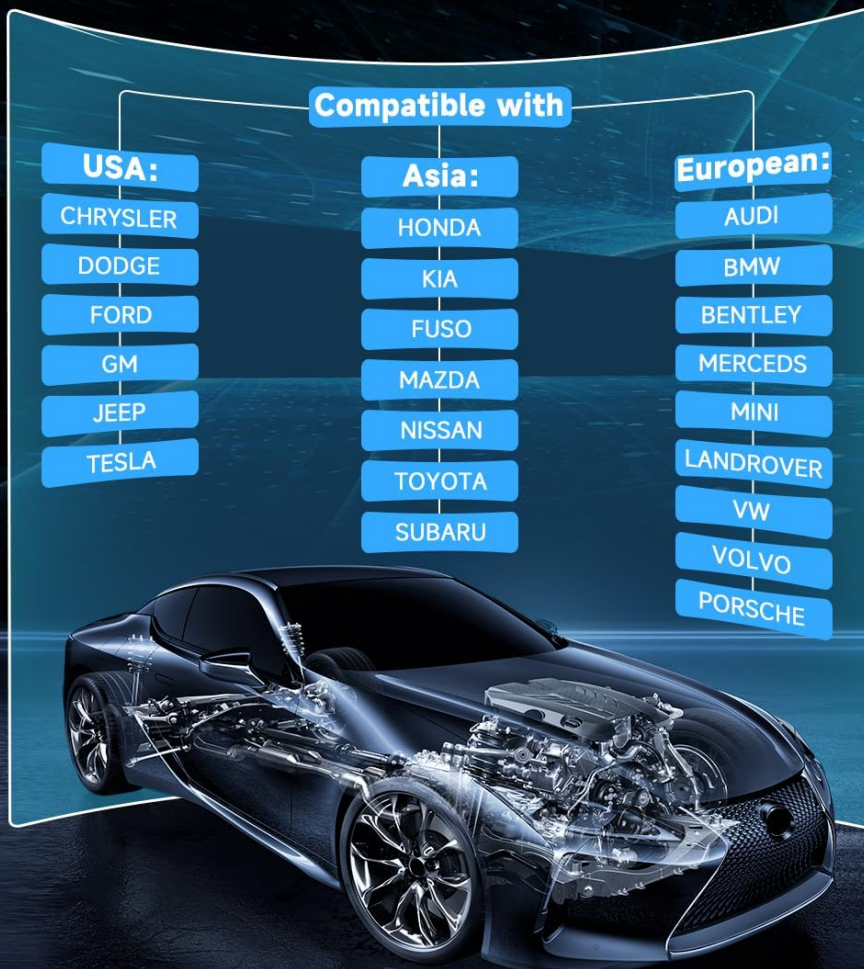


MT8168
Processor



Image: Key features of the FOXWELL NT909, including VAG Guided Functions, Bi-directional Control, OE-Level Full Systems Diagnosis, ECU Coding, FCA Auto Auth, Wireless VCI Dongle, and hardware specifications.

WORLDWIDE 125+ CAR BRANDS COVERAGE



User-Friendly Settings

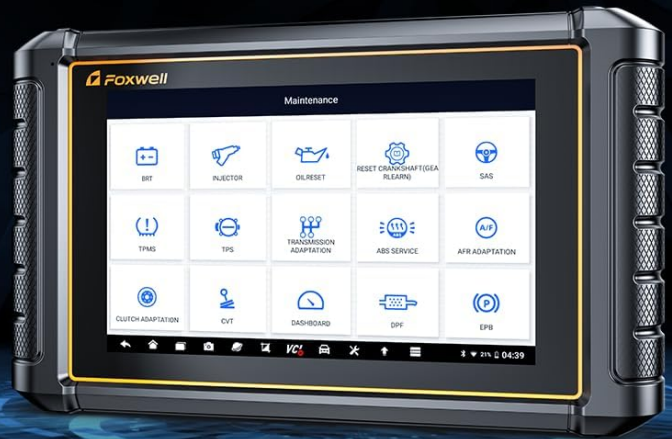
No IP Limitation ➡ Screen Lock ➡ One-Click Screenshot ➡ 24 Languages

Image: Illustration of the NT909's compatibility with over 125 car brands globally, including support for DOIP and CAN-FD protocols, and new energy vehicle diagnosis.

30 Resets

Hot Services

Big News! Get 6 more special function via Update at the same price



ABS Bleeding



Oil Reset



Transmission Adaptation



Gear Learning



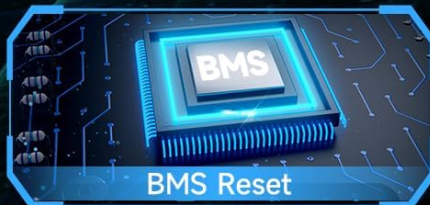
Injector Coding



EPB Reset



Throttle Adaptation



BMS Reset



Clutch Adaption

New Function

✓ EGR Reset

✓ Fuel Pressure Test

✓ G Sensor Learn

✓ Ods Initialization

✓ OPDS Initialization

✓ More...

Image: Display of 30+ hot service functions available on the NT909, such as ABS Bleeding, Oil Reset, Transmission Adaptation, Injector Coding, EPB Reset, BMS Reset, and more.

Advanced ECU Coding

Activate Hidden Functions, Set Up New ECU Modules

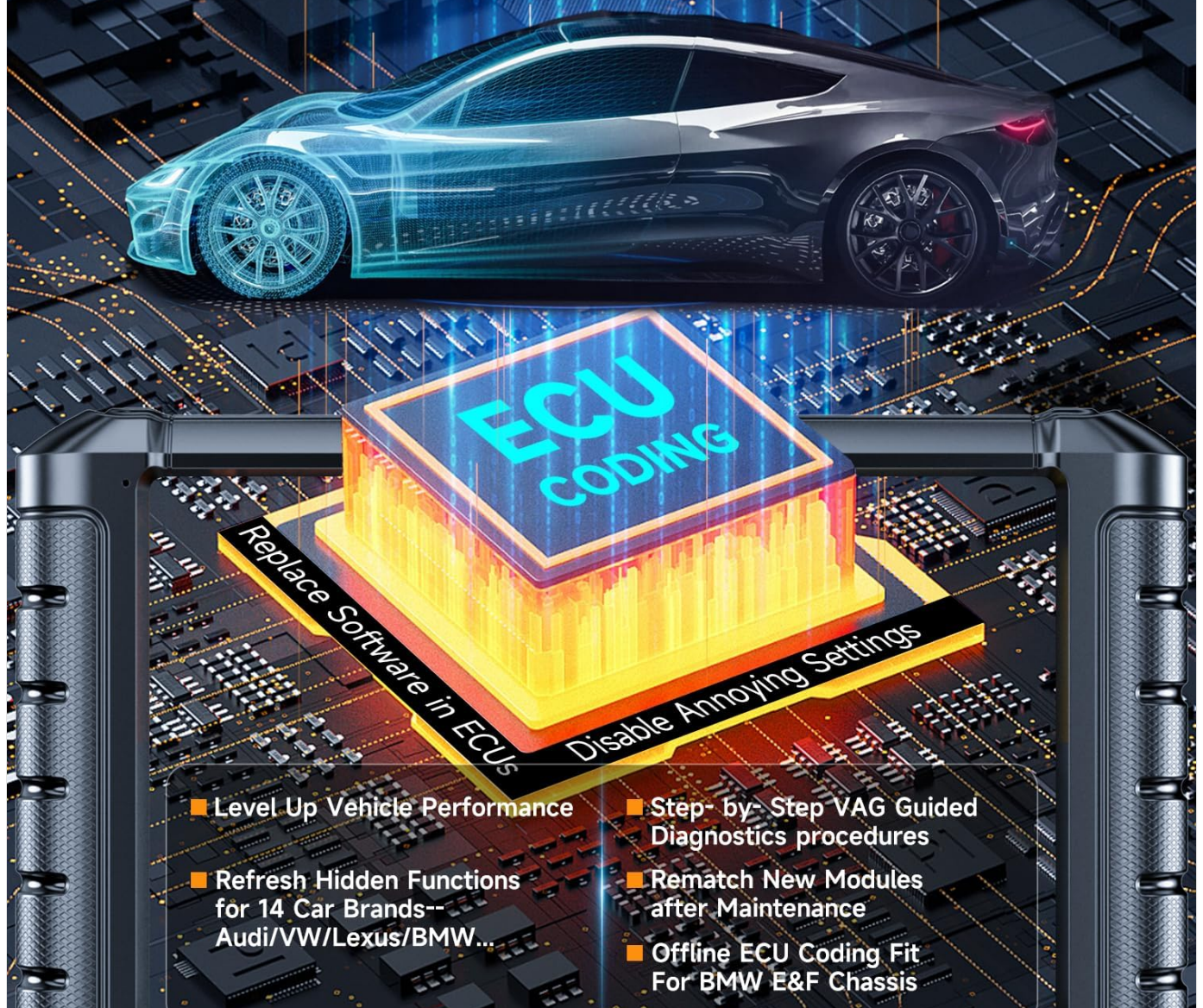


Image: Visual representation of the NT909's advanced ECU Coding capabilities, including activating hidden functions, setting up new ECU modules, and disabling unneeded settings.

Bi-Directional Control & All Systems Diagnosis

Check components status in seconds



Image: Diagram illustrating the NT909's bi-directional control and all systems diagnosis, showing components like fuel pump, windows, ABS, camshaft, and various vehicle systems.

1.2 FOXWELL BT100 Pro Battery Tester

The BT100 Pro is a 12V automotive battery tester designed to quickly and accurately analyze the health status of various battery types. It provides insights into battery cell health, charging status, and can detect faults and bad cells. It supports 100-1100 CCA batteries and includes safety features like polarity protection.

2024 A MUST-HAVE

For 12V 100-1100 CCA Batteries

100-1100 CCA



Regular Flooded



AGM Flat Plate



AGM Spiral



GEL

Image: The FOXWELL BT100 Pro, highlighting its compatibility with 12V 100-1100 CCA batteries, including Regular Flooded, AGM Flat Plate, AGM Spiral, and GEL types.

NO GUESSING ANY MORE

Quickly know your battery status



Image: A user interacting with the BT100 Pro, demonstrating its ability to display Internal Resistance Test, CCA & AH Capacity Test, Status of Health, Voltage Test, and Status of Charge.

2. SETUP GUIDE

2.1 FOXWELL NT909 Scan Tool Initial Setup

1. **Unpacking:** Carefully remove the NT909 tablet, VCI dongle, and accessories from the packaging.
2. **Charging:** Connect the power adapter to the NT909 tablet and a power outlet. Allow the device to fully charge before first use. The charging indicator will show progress.
3. **Power On:** Press and hold the power button on the tablet until the FOXWELL logo appears.
4. **VCI Dongle Connection:** Plug the VCI dongle into the vehicle's OBD-II port. Ensure the vehicle's ignition is in the ON position (engine off).
5. **Wireless Pairing:** On the NT909 tablet, navigate to 'Settings' and ensure Bluetooth is enabled. The tablet should automatically detect and pair with the VCI dongle. Confirm the connection status on the screen.
6. **Wi-Fi Setup:** Connect the NT909 to a stable Wi-Fi network for software updates and online features. Go to 'Settings' > 'Wi-Fi' and select your network.

2.2 FOXWELL BT100 Pro Battery Tester Setup

1. **Identify Battery Terminals:** Locate the positive (+) and negative (-) terminals on the vehicle's 12V battery.
2. **Connect Clamps:** Attach the red clamp of the BT100 Pro to the positive (+) battery terminal and the black clamp to the negative (-) battery terminal. Ensure a secure connection. The device will power on automatically.
3. **In-Vehicle or Out-of-Vehicle:** The BT100 Pro can be used for both in-vehicle and out-of-vehicle battery testing.

EASY TO USE

Just connect
and begin the testing

Out-Of-Vehicle



In-Vehicle

Image: Demonstrates the simple connection process for the BT100 Pro, showing both out-of-vehicle and in-vehicle testing scenarios.

3. OPERATING INSTRUCTIONS

3.1 Using the FOXWELL NT909 Scan Tool

1. **Vehicle Selection:** From the main menu, select 'Diagnosis' and choose the vehicle manufacturer, model, and year.

- 2. **System Scan:** Select 'Auto Scan' or 'Control Unit' to perform a comprehensive scan of all available systems or specific modules. The tool will read Diagnostic Trouble Codes (DTCs) and display live data.
- 3. **Bidirectional Control (Active Test):** Access 'Active Test' to send commands to vehicle systems and components (e.g., turn on/off fuel pump, cycle ABS pump, test windows/door locks) to verify their functionality.
- 4. **Service Functions:** Navigate to 'Maintenance' to access over 30 special functions such as Oil Reset, EPB Reset, ABS Bleeding, BMS Reset, Injector Coding, and Throttle Adaptation. Follow on-screen prompts for each function.
- 5. **ECU Coding:** For supported BMW E&F Chassis and VAG vehicles, select 'ECU Coding' to perform functions like relearning, recoding, matching, personalizing ECU components, or activating hidden features.
- 6. **Data Management:** View, save, and print diagnostic reports. The NT909 supports data logging and playback for further analysis.

3.2 Using the FOXWELL BT100 Pro Battery Tester

- 1. **Power On:** Once connected to the battery, the BT100 Pro will automatically power on.
- 2. **Select Battery Type:** Use the navigation buttons to select the correct battery type (e.g., Regular Flooded, AGM Flat Plate, AGM Spiral, GEL) and CCA rating as indicated on your battery.
- 3. **Perform Test:** Press 'ENTER' to initiate the battery test. The device will display results such as voltage, measured CCA, internal resistance, and overall battery health status (e.g., 'Good Battery', 'Replace Battery').
- 4. **Interpret Results:** Refer to the on-screen display for a clear indication of your battery's condition.

4. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the exterior of both the NT909 tablet and BT100 Pro tester. Avoid using abrasive cleaners or solvents.
- **Software Updates (NT909):** Regularly check for and install software updates via Wi-Fi to ensure optimal performance, expanded vehicle coverage, and new features. Navigate to 'Update' on the NT909 main menu.
- **Battery Care (NT909):** To prolong battery life, avoid fully discharging the NT909 tablet frequently. Store the device in a cool, dry place when not in use.
- **Storage:** Store both devices in their original protective cases or a suitable storage solution to prevent damage from dust, moisture, and impacts.

5. TROUBLESHOOTING

Issue	Possible Cause	Solution
NT909 does not power on.	Low battery; Power button not held long enough; Device malfunction.	Charge the device fully. Press and hold the power button for 3-5 seconds. Contact support if issue persists.

Issue	Possible Cause	Solution
NT909 VCI not connecting.	VCI not properly seated; Bluetooth off; Vehicle ignition off.	Ensure VCI is firmly plugged into OBD-II port. Check Bluetooth settings on NT909. Turn vehicle ignition to ON.
BT100 Pro not powering on.	Incorrect clamp connection; Battery completely dead.	Ensure clamps are correctly attached (red to +, black to -). Test on a known good battery.
Inaccurate BT100 Pro readings.	Loose connections; Incorrect battery type/CCA selected.	Ensure clamps are secure and clean. Verify selected battery type and CCA match the battery specifications.
Software update failure (NT909).	Unstable Wi-Fi connection; Insufficient storage.	Ensure strong Wi-Fi signal. Clear unnecessary files to free up space. Try updating again.

6. SPECIFICATIONS

6.1 FOXWELL NT909 Scan Tool

Feature	Specification
Operating System	Android 9.0
Processor	MT8168 Processor
Memory	32GB
Display	8-inch Touchscreen, 1280x800 Resolution
Battery	8000mAh
Connectivity	Wireless Bluetooth, Wi-Fi, USB Port 2.0
Protocols Supported	DoIP, CAN FD, OBD-II standard protocols

6.2 FOXWELL BT100 Pro Battery Tester

Feature	Specification
Voltage Range	12V
CCA Range	100-1100 CCA
Battery Types Supported	Regular Flooded, AGM Flat Plate, AGM Spiral, GEL
Safety Features	Polarity wrongly-connected protection, Over-voltage protection, Automatic temperature compensation

7. WARRANTY AND SUPPORT

The FOXWELL NT909 Scan Tool includes a **3-year free update** period, ensuring you have access to the latest software, vehicle coverage, and diagnostic functions. This update policy helps maintain the tool's effectiveness and value over time.

For technical assistance, warranty claims, or any operational questions not covered in this manual, please contact FOXWELL customer support through their official website or the contact information provided with your product purchase. Ensure you have your product model and serial number ready for faster service.

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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.

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