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› FOXWELL NT510 Elite Scan Tool User Manual

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FOXWELL NT510 Elite Scan Tool User Manual

Model: NT510 Elite | Brand: FOXWELL

1. INTRODUCTION

The FOXWELL NT510 Elite Scan Tool is a professional diagnostic device designed for BMW, Mini, and Rolls Royce vehicles. It provides comprehensive system diagnostics, bi-directional control, and various reset services, enabling users to perform advanced vehicle maintenance and troubleshooting.



Image: Front view of the FOXWELL NT510 Elite Scan Tool, showing its display and control buttons.

Product Overview Video

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Video: An overview of the FOXWELL NT510 Elite, demonstrating its full diagnostic capabilities for BMW vehicles.

2. KEY FEATURES

- **Full System Diagnostics:** Access and diagnose all available electronic control systems, including Engine, ABS, Airbag, Transmission, TPMS, and more. The tool provides over 10,000 code definitions for OEM fault codes, allowing for accurate issue identification.

Save \$1,000 on Unnecessary Repair Fees

Full-system Diagnostics

70,000+ Fault Codes Definition

Troubleshoot 80% Basic Automotive Issues by Yourself

Erase Codes & Reset MILs After Repair

Disclaimer: These features only compatible with BMW, Mini, and Rolls-Royce.

Image: The scan tool displaying a list of diagnostic results, emphasizing cost savings on repairs.

- **Bi-Directional Control (Active Test):** Perform active tests on various vehicle components such as fuel pumps, A/C clutches, windows, and more. This function helps verify the functionality of components and pinpoint faulty parts efficiently.

Command With Bidirectional Control

Test individual components to assist in troubleshooting & diagnosis

- Fuel Pump On/Off
- A/C Clutch On/Off
- Test Door Lock
- Retracting the EPB
- More...



Disclaimer: This features only compatible with BMW, Mini, and Rolls-Royce.

Image: The scan tool showing active test options, with a visual representation of components under test.

- **Battery Registration:** Register new batteries with the vehicle's Battery Management System (BMS) in minutes. Supports AGM/EFB battery matching to ensure proper charging and system integration.

5-Minutes to Finish Battery Registration



One-click Matching the New Battery to BMS.

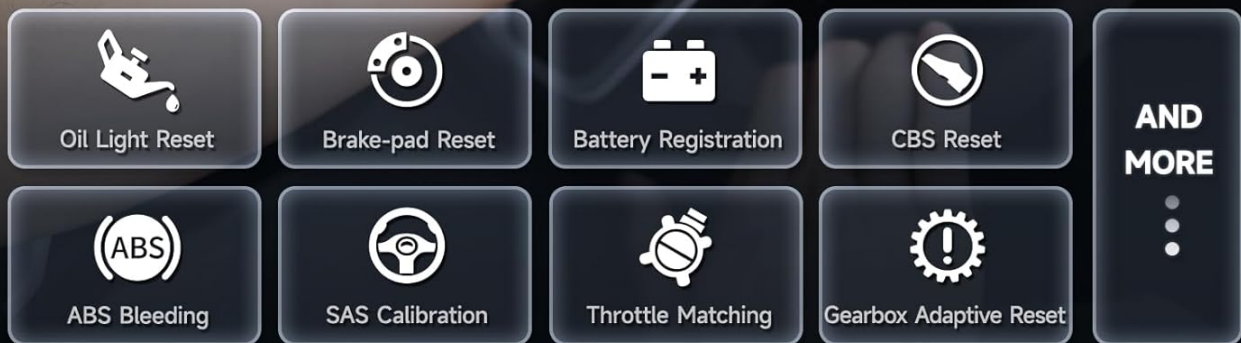
Only Support the AGM/EFB Batteries (Same Capacity as OEM).

Disclaimer: These features only compatible with BMW, Mini, and Rolls-Royce.

Image: A hand using the scan tool to perform battery registration within a vehicle's engine compartment.

- **Comprehensive Maintenance Functions:** Supports essential maintenance services including oil light reset, ABS bleeding, brake pad reset, SAS calibration, throttle matching, and gearbox adaptive reset.

Handle Routine Car Care on Your Own



Disclaimer: Feature availability depends on your vehicles's year, make, and model. Not all vehicles will support the features offered here.

Image: The scan tool displaying various special functions for routine car maintenance, promoting DIY care.

- **OBDII Features for Emissions Check:** Quickly check your vehicle's emission status with I/M Readiness. Includes standard OBDII functions such as reading and clearing codes, live data stream, EVAP test, O2 sensor test, and freeze frame data.

Pre-Check Emissions Status

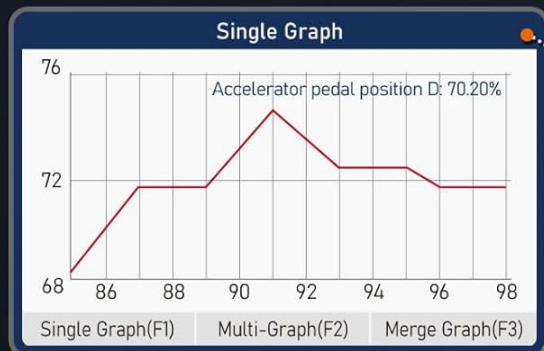


- I/M Readiness
- Full OBDII Features
- Pre-Inspect at Home
- Easily Pass the Smog Check

Image: The scan tool showing the I/M Readiness menu, indicating its use for emissions pre-checks.

- **Real-time Data Monitoring:** Access real-time sensor data from various control modules, including coolant temperature, transmission oil temperature, and battery voltage, to monitor vehicle health.

Real-time Monitoring of Vehicle Condition



Live Data

Name	Value	Unit
Alocation of oxygen sensorsOxygen sensor bank 2.sensor 4	Not installed	
Ambient air pressure	11.6	psi
Calculated oil temperature	21	
Cause for cancellation	0	
Charge air pressure specified Value	994.09820557	HPa

Pause(F1) Graph(F2) Save(F3)

- Access OBD2 and OEM Live Data

- ABS, Transmission, SRS, BMS, Engine, and More...

Disclaimer: These features only compatible with BMW, Mini, and Rolls-Royce.



Image: The scan tool displaying live data streams and graphical representations for real-time vehicle monitoring.

- **Lifetime Free Software Updates:** The device offers lifetime free software updates, ensuring access to the latest vehicle models and diagnostic functions without additional subscription fees.

Once Payment for **Endless Savings**

Lifetime Free Update

ZERO Subscriptions, No Hidden Fees

One-click WiFi Updates

**Avoid Overpriced Repairs,
Pay Only for What's Needed**



Image: The scan tool showing update options, highlighting the benefit of lifetime free updates.

3. SETUP GUIDE

3.1 Initial Device Setup

1. **Power On:** Connect the NT510 Elite to your vehicle's OBDII port. The device will power on automatically.
2. **Language Selection:** Follow the on-screen prompts to select your preferred language.
3. **System Settings:** Navigate to the 'Settings' menu to configure date, time, and other system preferences.

3.2 Software Registration and Update

To ensure your NT510 Elite has the latest vehicle coverage and functions, regular software updates are essential. Updates are performed via a computer using the Foxscanner application.

1. **Download Foxscanner:** Visit the official FOXWELL website to download and install the Foxscanner application on your computer.
2. **Register Device:** Launch Foxscanner. You will need to create a user ID and password. To register your NT510 Elite, locate the serial number on the back of the unit and find the pre-set password within the device's 'SETUP' menu under the 'ABOUT' icon.
3. **Connect Device:** Turn off the NT510 Elite. Remove the SD card from the device and insert it into a card reader connected to your computer.
4. **Update Software:** Close and restart the Foxscanner application. It should detect the SD card and display available updates. Select and download the necessary software updates to the SD card.
5. **Reinsert SD Card:** Safely eject the SD card from your computer and reinsert it into the NT510 Elite. The device will automatically update upon power-on.

Your browser does not support the video tag.

Video: A guide on how to register your FOXWELL NT510 Elite and perform software updates.

For detailed installation instructions, please refer to the official [Installation Manual \(PDF\)](#).

4. OPERATING INSTRUCTIONS

4.1 Basic Diagnostic Functions

1. **Connect to Vehicle:** Plug the diagnostic cable into the vehicle's OBDII port, typically located under the dashboard.
2. **Select Vehicle:** From the main menu, select 'BMW' (or 'Mini'/'Rolls Royce' if applicable). The tool may auto-detect the VIN; if not, enter it manually.
3. **Perform Auto Scan:** Choose 'Auto Scan' to scan all available control modules for fault codes.
4. **Read/Clear Codes:** After the scan, review the detected fault codes. Select 'Read Codes' for details and 'Clear Codes' to erase them after repairs.
5. **View Live Data:** Select 'Live Data' to view real-time sensor readings from various systems. This can be displayed in numerical or graphical format.

4.2 Special Functions and Services

The NT510 Elite provides access to various service functions for specific vehicle maintenance tasks.

- **Battery Registration:**

After replacing the vehicle battery, it is crucial to register the new battery with the vehicle's ECU. This ensures proper charging and prevents potential electrical issues.

Your browser does not support the video tag.

Video: A step-by-step guide on using the FOXWELL NT510 Elite to register a new battery in your BMW.

- **DPF Functions:** For diesel particulate filter (DPF) equipped vehicles, the tool supports functions like DPF regeneration and reset.
- **ABS Bleeding:** Perform automated bleeding procedures for the Anti-lock Braking System (ABS) after brake system repairs.
- **Throttle Matching:** Relearn the throttle body position after replacement or cleaning.

5. MAINTENANCE

To ensure the longevity and optimal performance of your FOXWELL NT510 Elite Scan Tool, follow these maintenance guidelines:

- **Keep Clean:** Wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Proper Storage:** Store the tool in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending or twisting the diagnostic cable excessively. Store it neatly to prevent damage.
- **Regular Updates:** Periodically check for and install software updates using the Foxscanner application to maintain compatibility and access new features.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Loose OBDII connection; vehicle's OBDII port issue.	Ensure the diagnostic cable is securely connected to the vehicle's OBDII port. Check vehicle's fuse for the OBDII port.
"Unable to Communicate" error.	Incorrect vehicle selection; outdated software; vehicle ignition off.	Verify correct vehicle model and year. Ensure ignition is in the ON position (engine off). Update device software to the latest version.
Software update issues.	Incorrect Foxscanner installation; internet connectivity issues; corrupted SD card.	Reinstall Foxscanner. Check internet connection. Try a different SD card if issues persist. Ensure the SD card is properly inserted into the computer's card reader.

If you encounter persistent issues not covered here, please contact FOXWELL customer support.

7. SPECIFICATIONS

Attribute	Detail
Brand	FOXWELL
Model	NT510 Elite
Product Dimensions	3.94"L x 1.5"W x 7.87"H
Operating System	Linux
Display Resolution	480 x 640

Attribute	Detail
Item Weight	1.32 pounds
UPC	712321437471



8. WARRANTY INFORMATION

Specific warranty details for the FOXWELL NT510 Elite Scan Tool are provided with the product packaging. Please refer to the documentation included in your product box for comprehensive warranty terms and conditions. For any warranty-related inquiries, it is recommended to contact FOXWELL customer support directly.

9. CUSTOMER SUPPORT

For technical assistance, software updates, or any product-related questions, please utilize the following resources:

- **Official Website:** Visit the official FOXWELL website for the latest software, FAQs, and support contact information.
- **Installation Manual:** A detailed installation manual is available in PDF format:[Download PDF Manual](#).
- **Online Resources:** Explore online forums and communities for user-shared tips and troubleshooting advice.

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