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## **FOXWELL NT614 Elite**

# **FOXWELL NT614 Elite OBD2 Scanner User Manual**

Model: NT614 Elite

# 1. Introduction

The FOXWELL NT614 Elite is an advanced OBD2 diagnostic scanner designed for comprehensive vehicle system analysis and maintenance. This device provides access to engine, Anti-lock Braking System (ABS), Supplemental Restraint System (SRS), and Transmission diagnostics, in addition to five key service reset functions. This manual outlines the proper procedures for setting up, operating, and maintaining your NT614 Elite scanner.



Figure 1.1: The FOXWELL NT614 Elite OBD2 Scanner and its protective case.

## 2. PRODUCT OVERVIEW

# 2.1 Key Features

- **4-System Diagnostics:** Reads and clears fault codes, and displays live data for Engine, ABS, SRS, and Transmission systems.
- 5 Service Reset Functions: Includes ABS Bleeding, Oil Reset, Steering Angle Sensor (SAS) Calibration, Electronic Parking Brake (EPB) Reset, and Throttle Reset.
- Full OBD2 Functions: Supports all 10 OBD2 test modes, including I/M Readiness, Live Data Stream, Freeze Frame, O2 Sensor Test, On-Board Monitor Test, Component Test, and Vehicle Information retrieval.
- **Lifetime Free WiFi Updates:** Provides continuous software updates via WiFi for expanded vehicle coverage and new features.
- Battery Test: Displays real-time battery voltage for health assessment.
- AutoVIN: Automatically identifies vehicle information for quicker diagnostics (manual VIN entry

required for some vehicles).

- DTC Lookup: Built-in library for quick fault code definitions.
- Live Data Graphing: Displays multiple data streams simultaneously in graphical format.

### 2.2 What's Included

The package for the FOXWELL NT614 Elite includes the following components:

- 1x NT614 Elite Scanner Unit
- 1x Protective Case
- 1x Diagnostic Cable (OBDII 16-pin)
- 1x USB Cable
- 1x User Manual
- 1x Quick Guide

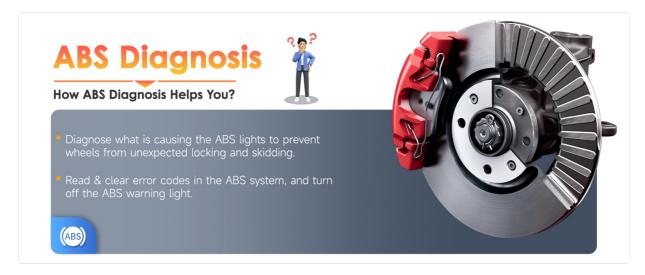


Figure 2.1: Contents of the NT614 Elite package.

# 3. SETUP

Follow these steps to prepare your NT614 Elite scanner for use:

- Connect to Vehicle: Locate your vehicle's OBDII port, typically found under the dashboard on the driver's side. Plug the diagnostic cable (16-pin) from the NT614 Elite into the vehicle's OBDII port.
- 2. **Power On Vehicle:** Turn the vehicle's ignition to the 'ON' position without starting the engine. This provides power to the OBDII port and the scanner.
- 3. **Scanner Initialization:** The NT614 Elite will power on automatically. Follow the on-screen prompts to begin diagnosis or select desired functions.



Figure 3.1: Connection steps for the NT614 Elite scanner.

# 4. OPERATING INSTRUCTIONS

# 4.1 4-System Diagnosis (Engine, ABS, SRS, Transmission)

The NT614 Elite can diagnose four core vehicle systems:

- **Engine System:** Reads and clears fault codes, displays real-time operating status, and turns off warning lights to ensure proper engine function.
- **ABS System:** Diagnoses issues causing ABS warning lights, reads and clears ABS error codes, and helps prevent wheel locking and skidding.
- SRS System: Accesses electronic parameters in the airbag system to diagnose malfunctions and locate faulty components, ensuring safety system functionality.
- **Transmission System:** Reads and clears diagnostic codes from the transmission system, and displays live data to assess speed and load matching with transmission output.



Figure 4.1: Overview of 4-System Diagnosis capabilities.

## 4.2 5 Service Reset Functions

The NT614 Elite provides five essential maintenance reset functions:

- ABS Bleeding: Safely removes air from the brake system after component replacement, restoring firm brake pedal feel.
- **EPB Reset:** Allows service and maintenance of electronic parking brake systems, including deactivation, activation, bleeding brake fluid, and setting brakes after pad replacement.
- Oil Reset: Resets the oil life reminder and switches off the oil light after an oil change, ensuring accurate engine oil life calculation.
- **SAS Calibration:** Resets the steering angle sensor to its relative zero position, helping to clear incorrect memory and calibrate the sensor.
- **Throttle Reset:** Performs throttle body relearn (Idle Relearn) to achieve smooth idle speed after replacing electronic throttle body, disconnecting battery, or clearing a check engine light.



Figure 4.2: Visual representation of the 5 Hot Reset functions.

### 4.3 Full OBD2 Functions

The NT614 Elite supports all standard OBD2 functions, enabling comprehensive emissions-related diagnostics:

- Read Codes (DTCs)
- Clear Codes (DTCs)

- I/M Readiness Status
- · Live Data Stream
- Freeze Frame Data
- O2 Sensor Test
- · On-Board Monitor Test
- Component Test
- Retrieve Vehicle Information (VIN, CIN, CVN)
- EVAP Test (Evaporative Emission System Test)



Figure 4.3: Overview of Full OBD2 Functions.

# 4.4 Live Data Graphing

The scanner can display multiple live data streams simultaneously in graphical format, allowing for visual analysis of vehicle performance parameters such as RPM, speed, transmission temperature, and fuel system status.



Figure 4.4: Live Data Graphing interface.

# 4.5 DTC Library

Access fault code meanings quickly through the exclusive built-in DTC library menu for faster identification of issues.



# ALL SYSTEM OEM LIVE DATA

Display specific component sensor data in both text and graph formats to check the vehicle's status, including transmission temperature, speed, engine RPM, and more.



Figure 4.5: DTC Library feature.

# **4.6 Battery Health Check**

The NT614 Elite can display real-time battery voltage, allowing you to monitor the vehicle's battery health.

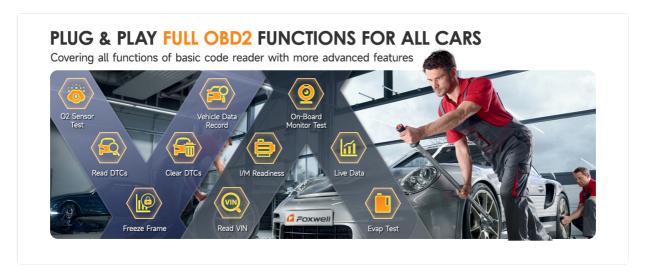


Figure 4.6: Battery Health Check display.

# 5. MAINTENANCE

# **5.1 Software Updates**

The NT614 Elite supports lifetime free software updates via WiFi. Regular updates ensure expanded vehicle coverage, bug fixes, and new features. To update the software:

- 1. Navigate to the 'Settings' menu on the scanner.
- 2. Select 'WiFi' and connect to an available wireless network.
- 3. Once connected, select 'Update' from the main menu or settings.
- 4. Choose the software packages you wish to update and follow the on-screen instructions.

# \*The compatibility of NT614 Elite vary on different car conditions. If the car is too classic (before 1996) or it was manufactured without service functions, NT614 will not perform special functions on these cars.

Figure 5.1: Steps for performing a WiFi software update.

# 6. TROUBLESHOOTING

If you encounter issues with your NT614 Elite scanner, consider the following:

- **No Power:** Ensure the diagnostic cable is securely connected to both the scanner and the vehicle's OBDII port. Verify the vehicle's ignition is in the 'ON' position.
- **Communication Error:** Check that the vehicle's ignition is on. Ensure the diagnostic cable is not damaged. Try connecting to a different vehicle to rule out a vehicle-specific issue.
- **Software Update Issues:** Verify a stable WiFi connection. Ensure sufficient battery charge on the scanner. If issues persist, contact technical support.
- Function Not Supported: Vehicle compatibility for specific functions (e.g., ABS Bleeding) varies by make, model, and year. Refer to the compatibility list on the FOXWELL website or contact support for verification.

For further assistance, refer to the support section of the FOXWELL website or contact customer service.

# 7. SPECIFICATIONS

Feature	Specification
Brand	FOXWELL
Model Number	NT614Elite-b
Item Weight	2.65 pounds
Product Dimensions	12.99 x 2.95 x 9.44 inches
Operating System	Windows (internal system, not for user interaction)
Display	4.3-inch Color Screen
Connectivity	OBDII, USB, WiFi

Feature	Specification
Update Method	WiFi (Lifetime Free Updates)



Figure 7.1: Product label with detailed specifications.

# 8. Compatibility Information

The NT614 Elite is compatible with over 10,000 vehicle models from more than 90 brands, including cars, SUVs, minivans, and light trucks. Compatibility for specific functions may vary by vehicle make, model, and year.

To check specific vehicle compatibility:

- 1. Visit the official FOXWELL website (foxwelltech.us).
- 2. Navigate to the 'Support' section and select 'Coverage List'.
- 3. Enter 'NT614 Elite' as the product model.
- 4. Select your vehicle's brand, model, and year to view compatible functions.



Figure 8.1: Broad vehicle compatibility of the NT614 Elite.

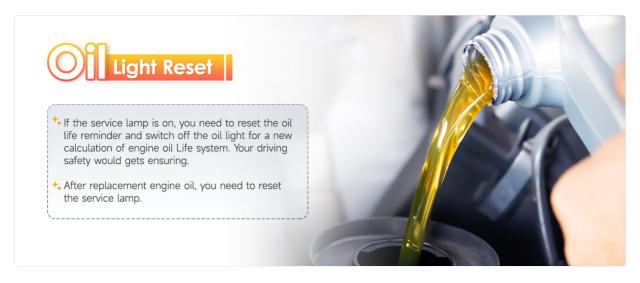


Figure 8.2: Guide to checking vehicle compatibility online.

# 9. WARRANTY AND SUPPORT

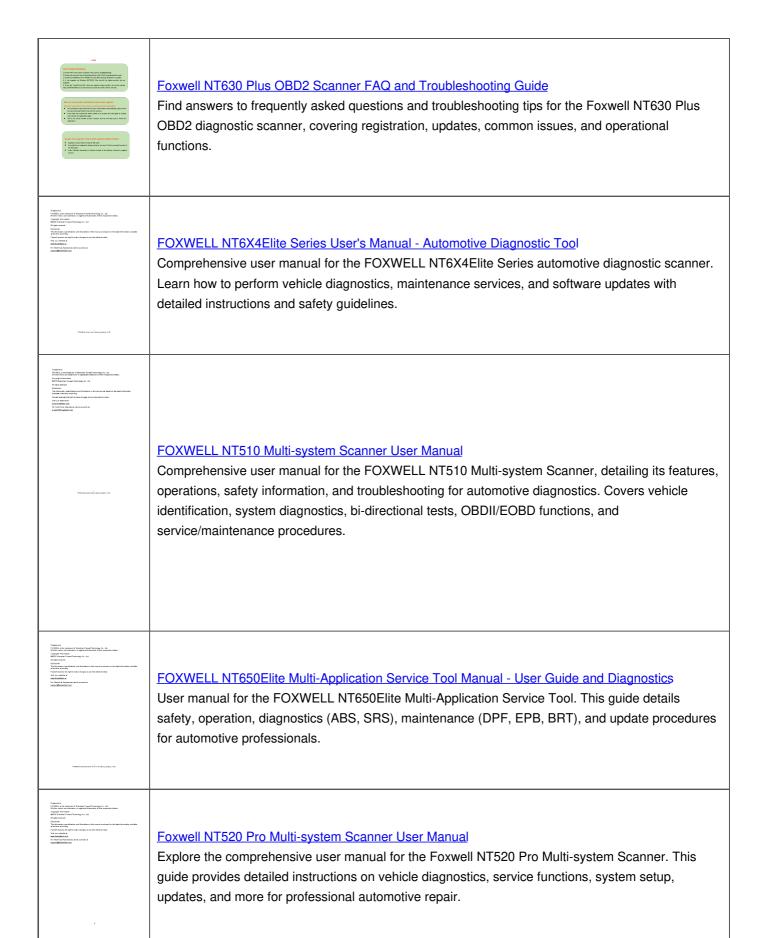
The FOXWELL NT614 Elite comes with a 2-year reliable warranty. FOXWELL provides lifetime free software updates and 24-hour technical support to assist with any product-related inquiries or issues. For technical support, please visit the official FOXWELL website or contact their customer service team.



Figure 9.1: Warranty and support information.

**Legal Disclaimer:** Any car brand and logo mentioned in this manual are for compatibility description purposes only. FOXWELL is not affiliated with any car brand. Vehicle compatibility may vary by year, model, and VIN. Please contact FOXWELL support for specific vehicle compatibility inquiries.

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### FOXWELL AutoMaster Pro Diagnostic Scanner User Manual

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### Documents - FOXWELL - NT614 Elite



### FOXWELL NT6X4Elite Series User Manual: Diagnostics & Maintenance Guide

Comprehensive user manual for the FOXWELL NT6X4Elite Series diagnostic scanner. Covers safety instructions, setup, vehicle identification, diagnostic operations, maintenance procedures, system setup, and software updates for automotive technicians and enthusiasts.

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Automotive Diagnostic Tool Comparison: FOXWELL, LAUNCH, Autel Models

Compare key features, models, pricing, and supported systems of automotive diagnostic tools from FOXWELL, LAUNCH, and Autel, including NT614 Elite, CRP129X, NT634, NT624 Elite, CRP429, and MK808.

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### FOXWELL NT6X4Elite Series User's Manual - Automotive Diagnostic Tool

Comprehensive user manual for the FOXWELL NT6X4Elite Series automotive diagnostic scanner. Learn how to perform vehicle diagnostics, maintenance services, and software updates with detailed instructions and safety guidelines.

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FOXWELL NT6X4Elite Series User Manual: Automotive Diagnostic Scan Tool Guide

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