FOXWELL NT614 Elite

FOXWELL NT614 Elite OBD2 Scanner User Manual

Model: NT614 Elite

1. INTRODUCTION

The FOXWELL NT614 Elite OBD2 Scanner is a professional diagnostic scan tool designed to help you identify and resolve issues with your vehicle's engine, ABS, SRS (Airbag), and Transmission systems. It also offers advanced functions such as Oil Light Reset, EPB (Electronic Parking Brake) Reset, ABS Bleeding, SAS (Steering Angle Sensor) Calibration, and Throttle Reset. This manual provides detailed instructions for the proper use and maintenance of your NT614 Elite scanner.

Image: The FOXWELL NT614 Elite OBD2 Scanner, showcasing its main menu screen and compact design.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before operating this device to prevent injury or damage to the tool or vehicle.

- Always perform automotive testing in a safe environment.

- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.

- Keep the scanner dry, clean, and free from oil, water, or grease.

- Do not attempt to disassemble the scanner. There are no user-serviceable parts inside.

- Ensure the vehicle's battery is fully charged before performing any diagnostic tests.

- Be aware of moving parts, hot engine components, and exhaust fumes when working on a vehicle.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x FOXWELL NT614 Elite Scan Tool

- 1x Diagnostic Cable (OBDII connection)

- 1x USB Cable (for updates)

- 1x User Manual

- 1x Protective Carrying Case

- 1x Quick Guide

4. PRODUCT OVERVIEW

The NT614 Elite features a 4.3-inch TFT color screen, runs on a Linux operating system for faster performance, and supports Wi-Fi updates. Its handheld design ensures ease of use and portability, complemented by a solid protective case for durability.

Image: Visual representation of the NT614 Elite's key features, including its 4.3" color screen, Linux system, Wi-Fi update capability, handheld design, protective case, live data stream, and Auto VIN function.

5. SETUP

Follow these steps for initial setup and connection:

1. **Locate the OBD-II Port:** The OBD-II port is usually located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you cannot find it.

2. **Connect the Scanner:** Plug the diagnostic cable into the OBD-II port of your vehicle and then connect the other end to the NT614 Elite scanner. The scanner will power on automatically.

3. **Turn on Ignition:** Turn the vehicle's ignition to the 'ON' position (engine off).

4. **Select Language:** On the scanner's main menu, navigate to 'Setup' and then 'Language' to select your preferred language (English, French, Spanish, German, Italian, Portuguese, etc.).

5. **Establish Wi-Fi Connection (Optional):** For software updates, connect the device to a Wi-Fi network via the 'Setup' menu.

6. OPERATING THE DEVICE

6.1. Basic OBD2 Functions

The NT614 Elite supports all 10 OBD2 test modes, allowing you to perform comprehensive engine diagnostics.

- **Read/Clear DTCs:** Read diagnostic trouble codes (DTCs) to identify issues and clear them after repairs.
- **Live Data:** View real-time data parameters from the vehicle's sensors.
- **Freeze Frame:** Capture a snapshot of vehicle conditions when a fault code is set.
- **I/M Readiness:** Check the status of emission-related monitors.
- **O2 Sensor Test:** Retrieve O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieve results for emission-related powertrain components.
- **EVAP System Test:** Initiate a test of the evaporative emission system.
- **Vehicle Information:** Retrieve VIN, Cal ID, and CVN.

Image: Overview of the 10 OBD II diagnostic modes available on the FOXWELL NT614E, including Read DTCs, Live Data, Freeze Frame, and I/M Readiness.

6.2. Enhanced System Diagnosis

Beyond basic OBD2, the NT614 Elite provides in-depth diagnostics for four core vehicle systems:

- **Engine System:** Read and clear engine fault codes, view live data related to engine performance.
- **ABS (Anti-lock Braking System):** Diagnose ABS issues, read/clear ABS codes, and perform ABS bleeding.
- **SRS (Supplemental Restraint System/Airbag):** Check airbag system status, read/clear SRS codes.
- **Transmission System:** Diagnose transmission problems, read/clear transmission codes, and view live transmission data.

Image: Illustrates the four main systems the NT614 Elite can diagnose: Airbag, ABS, Engine, and Transmission, along with actions like Read Codes, Clear Codes, Check Engine Light, and Show Live Data.

6.3. Special Reset Functions

The NT614 Elite offers 5 powerful reset functions for common maintenance tasks:

- **Oil Reset:** Resets the oil service light and calculates the optimal oil life change interval.
- **EPB (Electronic Parking Brake) Reset:** Deactivates and activates the brake control system, assists with brake fluid control, opens and closes brake pads, and sets brakes after disc or pad replacement.
- **ABS Bleeding:** Bleeds air from the brake system after component replacement or repair.
- **SAS (Steering Angle Sensor) Calibration:** Calibrates the steering angle sensor after replacement or alignment.
- **Throttle Reset:** Initializes the throttle actuators to the default state.

Image: Depicts the five reset functions: ABS Bleeding, Oil Reset, Throttle Reset, SAS Calibration, and EPB Reset, with a car graphic in the background.

6.4. Real-time Live Data Monitoring

The scanner can display real-time sensor data in both text and graph formats, allowing for detailed analysis of vehicle performance. You can merge up to four PIDs (Parameter IDs) into one graph for comparative analysis, helping to pinpoint abnormal car parts quickly.

- **View Data Stream:** Select specific data parameters to monitor.
- **Graph Data:** Display selected data parameters as real-time graphs.
- **Record/Playback Data:** Record live data sessions for later review and analysis.

WHY CHOOSE UPGRADED FOXWELL NT614 ELITE?

Bring You a New Experience

	NT614	Other
⭐ Special Function	5	Only 2 Resets
⭐ WiFi Update	✓	✕
⭐ ABS Bleeding	✓	✕
⭐ Operation System	Linux (Faster than before)	Slow
Auto VIN	✓	✓
Battery Test	✓	✕
Live Data Stream	Merge text and graph	only text
Free Update	Lifetime Free Update	Need extra fee
Screen Type	4.3" Color Screen	4.0"
Car Coverage	10000+	Limited brands

Image: Shows the scanner's screen displaying real-time live data graphs for Accelerator Pedal Position, Short Term Fuel Trim, Wheel Speed Sensor, and Battery Voltage.

7. MAINTENANCE

7.1. Software Updates

The NT614 Elite offers lifetime free software updates via Wi-Fi. Regular updates ensure your scanner has the latest vehicle coverage and diagnostic capabilities.

1. Connect the scanner to a stable Wi-Fi network.
2. From the main menu, select 'Update' or 'System Update'.
3. Follow the on-screen prompts to download and install the latest software.
4. Ensure the device remains powered during the update process.

7.2. General Care

- Clean the scanner's screen and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- Store the device in its protective carrying case when not in use to prevent damage.
- Avoid exposing the scanner to extreme temperatures, humidity, or direct sunlight.

8. TROUBLESHOOTING

If you encounter issues with your NT614 Elite scanner, refer to the table below for common problems and solutions.

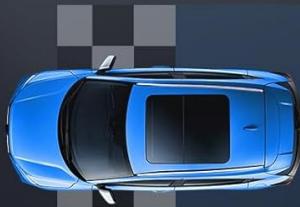| Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection; Vehicle's OBD-II port not supplying power.	Ensure the diagnostic cable is securely connected. Check vehicle's fuse for the OBD-II port.
Unable to communicate with vehicle.	Incorrect protocol; Vehicle not OBD-II compliant; Faulty connection.	Verify vehicle compatibility. Check cable connection. Ensure ignition is ON. Try manual VIN entry if auto VIN fails.
Cannot clear fault codes.	Underlying issue not resolved; Compatibility issue.	Fault codes can only be cleared after the underlying problem has been repaired. Verify function compatibility for your specific vehicle model.
Slow operation or freezing.	Outdated software; Temporary software glitch.	Perform a software update. Restart the device.

If you encounter quality issues, missing parts, broken units, or other problems, please contact FOXWELL customer support for immediate assistance and resolution.

9. SPECIFICATIONS

- **Model:** NT614 Elite
- **Display:** 4.3-inch TFT Color Screen
- **Operating System:** Linux
- **Power Source:** Vehicle OBD-II port (12V)
- **Dimensions:** Approximately 32.99 x 7.49 x 23.98 cm
- **Weight:** Approximately 921 g
- **Supported Protocols:** KWP2000, J1850 VPW, ISO9141, J1850 PWM, CAN
- **Vehicle Coverage:** Supports over 10,000 models and 90 brands. Compatible with US-based cars since 1996, EU-based cars since 2000, and Asia-based cars since 2005.
- **Special Functions:** Oil Reset, EPB Reset, ABS Bleeding, SAS Calibration, Throttle Reset.

Image: Illustrates the extensive vehicle coverage of the NT614 Elite, including USA-based cars since 1996, Europe-based cars since 2000, and Asia-based cars since 2005.

10. WARRANTY AND SUPPORT

FOXWELL products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official FOXWELL website.

For technical support, compatibility inquiries, or any other assistance, please contact FOXWELL customer support directly. You can typically find contact information on the manufacturer's website or through the Amazon messaging system if purchased there.

Note: Vehicle compatibility for diagnostic and special functions varies by car model and year. It is recommended to verify compatibility before purchase or contact support if you have specific vehicle concerns.