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FOXWELL NT624 Elite

FOXWELL NT624 Elite OBD2 Scanner User Manual

Model: NT624 Elite

1. INTRODUCTION

The FOXWELL NT624 Elite OBD2 Scanner is a professional diagnostic tool designed to assist in identifying and resolving vehicle issues. This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your device.



Image 1.1: The FOXWELL NT624 Elite OBD2 Scanner main unit, showing its display and control buttons.

2. WHAT'S IN THE Box

Upon opening the package, verify that all components are present:

- 1x NT624 Elite Tool
- 1x Diagnostic Cable
- 1x Carrying Case
- 1x Quick Start Guide
- 1x User Manual
- 1x 16G Memory Card (pre-installed or separate)
- 1x USB Mini Cable



Image 2.1: All items included in the FOXWELL NT624 Elite package, laid out for inspection.

3. SETUP

3.1 Initial Power-Up

1. Connect the diagnostic cable to the NT624 Elite tool.
2. Locate your vehicle's OBD2 port, typically under the dashboard on the driver's side.
3. Plug the diagnostic cable into the vehicle's OBD2 port.
4. Turn the vehicle's ignition to the 'ON' position (engine off). The scanner should power on automatically.

3.2 Software Update

The NT624 Elite supports lifetime free software updates via Wi-Fi. Regular updates ensure compatibility with new vehicle models and improved functionality.

1. From the main menu, navigate to the 'Update' option.
2. Select 'WiFi' and connect to an available wireless network.

3. The system will check for available updates. Select the software packages you wish to update.
4. Follow the on-screen prompts to download and install the updates. Ensure a stable internet connection throughout the process.

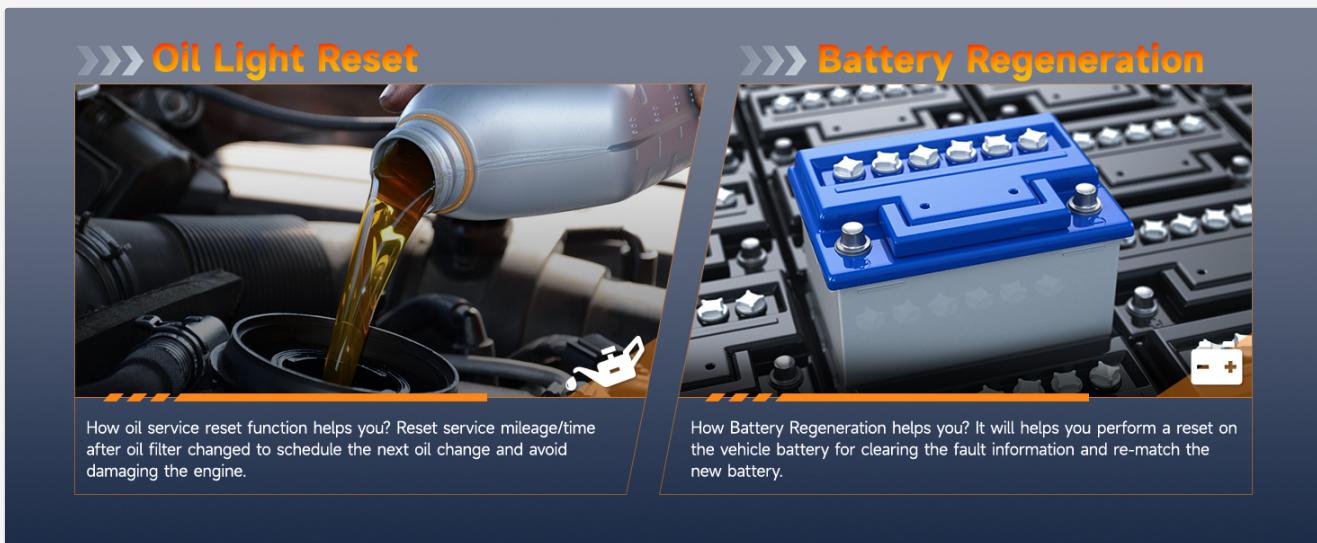


Image 3.1: Visual guide illustrating the Wi-Fi update process for the NT624 Elite scanner.

4. OPERATING INSTRUCTIONS

4.1 Vehicle Connection and Identification

1. Ensure the scanner is properly connected to the vehicle's OBD2 port and powered on.
2. From the main menu, select 'Diagnostic' or 'Auto Vin'.
3. The 'Auto Vin' function automatically identifies the vehicle's VIN (Vehicle Identification Number) for quick setup. If Auto Vin fails, you may need to manually select the vehicle make, model, and year.

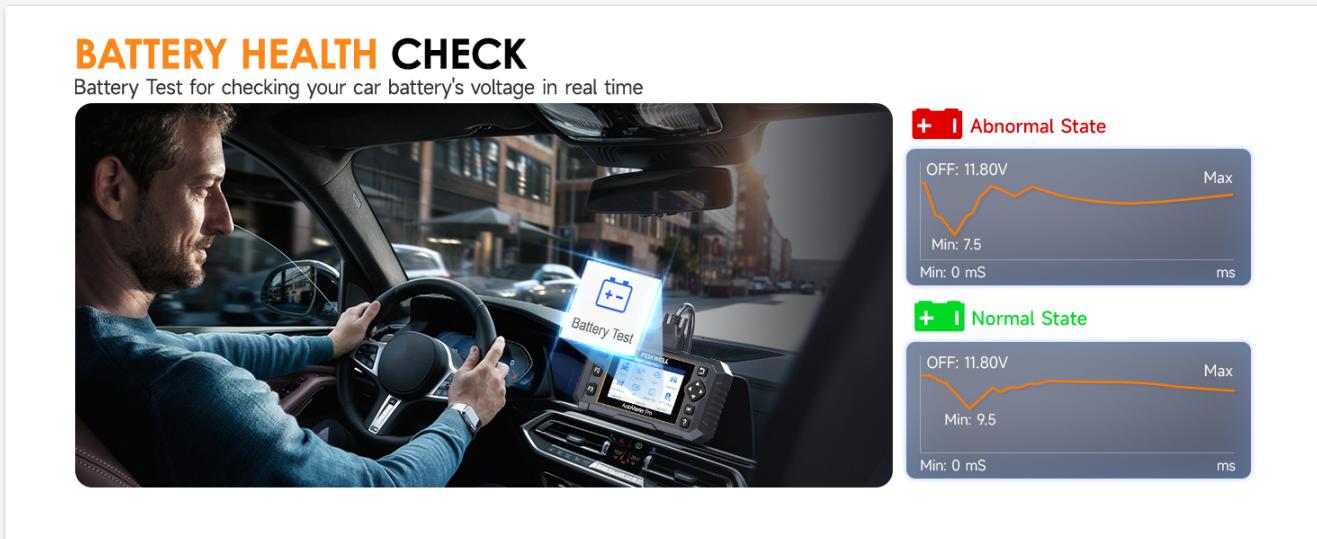


Image 4.1: The Auto VIN feature streamlines vehicle identification by automatically reading the VIN.

4.2 All System Diagnosis

The NT624 Elite can perform comprehensive diagnostics on all available electronic systems in your vehicle, including:

- Engine
- Transmission

- ABS (Anti-lock Braking System)
- SRS (Supplemental Restraint System/Airbag)
- EPB (Electronic Parking Brake)
- SAS (Steering Angle Sensor)
- ESP (Electronic Stability Program)
- Suspension
- Headlamp
- Car Radio
- Center Lock
- And more, depending on the vehicle model.

To perform an all-system scan, select 'Diagnostic' from the main menu and choose 'Auto Scan' or manually select the desired system.



Image 4.2: The NT624 Elite performing an all-system diagnostic scan on a vehicle.

4.3 Basic OBD2 Functions

The scanner supports all 10 OBD2 test modes for vehicles manufactured after 1996:

- **Read DTCs:** Retrieves generic (P0, P2, P3, and U0) and manufacturer specific (P1, P3, and U1) codes.
- **Clear DTCs:** Clears diagnostic trouble codes and resets monitors.
- **Live Data:** Displays real-time data stream from the vehicle's sensors.
- **Freeze Frame:** Stores a snapshot of operating conditions at the time of an emission-related fault.
- **I/M Readiness:** Checks the readiness of the emission monitoring system.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **EVAP Test:** Initiates a test of the Evaporative Emission System.
- **Read VIN:** Retrieves vehicle identification information.
- **DTC Lookup:** Provides definitions for diagnostic trouble codes.



Image 4.3: Overview of enhanced full OBD2 functions, including reading and clearing DTCs, live data, and I/M readiness.

4.4 Special Functions (8 Reset Services)

The NT624 Elite offers 8 commonly used maintenance reset functions:

- **ABS Bleeding:** Bleeds air from the brake system after component replacement.
- **Oil Reset:** Resets the oil service light and calculates optimal oil life change interval.
- **Injector Coding:** Rewrites injector codes to the ECU after replacement for accurate fuel delivery.
- **Battery Registration (BRT):** Registers a new battery to the vehicle's ECU.
- **DPF Regeneration:** Performs the DPF cleaning process to clear blockages.
- **SAS Calibration:** Calibrates the steering angle sensor after steering component replacement.
- **Throttle Matching (TPS):** Initializes the throttle actuators to the default state.
- **EPB Reset:** Deactivates and reactivates the brake control system, bleeds brake fluid, opens and closes brake pads, and sets brakes after disc or pad replacement.

8 HOT SERVICES



D-P-F
Regeneration



Injector Coding



Battery
Registration



ABS Bleeding



SAS Calibration



Throttle Matching



EPB Reset



Oil Reset

Image 4.4: Visual representation of the 8 hot services available on the NT624 Elite.

4.5 Battery Health Check

The NT624 Elite includes a battery test function to check your car's battery voltage in real-time, helping to identify abnormal states.



Built-in DTC Library

Search fault codes and the definitions of them will be shown for you

Trouble Codes		
ID	Status	Description
B1651	Active	Crash recorded in driver side airbag (Replace SRSCM)
B1490	History	OCS (Occupant classification system) defet
B1388	Active	STPS (Seat track position sensor)-Driver open or short to battery
Save(F1)		Freeze Frame(F2)

29A6(L1) 14659-L9W6(L5)

Vehicle: 2018-01-01 12:30:00 (Initial vehicle account in project)

Image 4.5: The battery health check feature displays real-time voltage readings to assess battery condition.

4.6 Data Display and Report Printing

The scanner provides an intuitive view of data streams in single, multi-graph, or merged two-graph formats. After diagnosis, a vehicle health report can be recorded, played back for analysis, and printed via a PC.

OE-EMINENT-LEVEL ALL SYSTEM DIAGNOSIS



Image 4.6: The scanner's display showing comprehensive live data for vehicle conditions.

5. MAINTENANCE

5.1 Software Updates

As detailed in Section 3.2, regularly update your NT624 Elite software via Wi-Fi to ensure optimal performance and access to the latest vehicle data and functions. This process is free for the lifetime of the device.

5.2 Device Care

- Keep the device clean and free from dust and moisture.
- Store the scanner in its protective carrying case when not in use.
- Avoid extreme temperatures.
- Do not attempt to disassemble the device, as this will void the warranty.

6. TROUBLESHOOTING

If you encounter issues with your NT624 Elite, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Loose OBD2 connection, vehicle ignition off, faulty cable.	Ensure cable is securely connected. Turn ignition to 'ON'. Test with another vehicle if possible. Check cable for damage.
Cannot connect to vehicle ECU.	Incorrect vehicle protocol, damaged OBD2 port, software issue.	Verify vehicle compatibility. Ensure software is updated. Try manual vehicle selection.
Software update fails or device freezes during update.	Unstable Wi-Fi connection, insufficient storage, server issues.	Ensure strong, stable Wi-Fi. Check available memory. Try updating at a different time. Contact support if persistent.
Slow operation or delayed responses.	Large data processing, older software version.	Ensure software is up to date. Some complex operations may naturally take longer.

If the problem persists, please contact FOXWELL technical support.

7. SPECIFICATIONS

- Model:** NT624 Elite
- Manufacturer:** FOXWELL
- Item Weight:** 1 pound
- Product Dimensions:** 7.87 x 4.33 x 1.18 inches (L x W x H)
- Operating System:** Windows 10 (internal software environment)
- Display:** 4.3-inch Color Screen
- Connectivity:** OBD2, USB, Wi-Fi (2.4G)
- Supported Protocols:** All OBD2 protocols
- Vehicle Coverage:** Supports 10,000+ cars worldwide, all OBD2 testing for cars after 1996. Compatible with major American, European, and Asian brands.

FANTASTIC AUTO VIN

Fantastic Auto VIN

No need to manually input the VIN; retrieve car information in seconds



Image 7.1: Geographic representation of the FOXWELL NT624 Elite's wide vehicle compatibility.

8. WARRANTY AND SUPPORT

FOXWELL provides comprehensive support for the NT624 Elite OBD2 Scanner:

- **Warranty:** 2-Year Exchange policy.
- **Technical Support:** Lifetime technical support is available.
- **Software Updates:** Lifetime free Wi-Fi software updates.

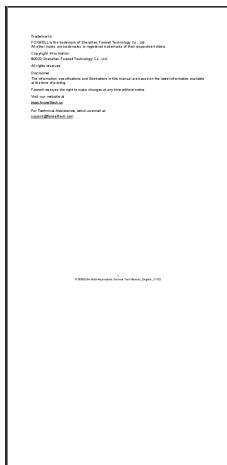
For technical assistance or warranty claims, please refer to the contact information provided in your Quick Start Guide or visit the official FOXWELL website.

Image 8.1: Overview of FOXWELL's customer support and warranty commitments.

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FOXWELL is committed to innovation and technology in automotive diagnostics.

Related Documents - NT624 Elite



[FOXWELL NT650Elite Multi-Application Service Tool Manual - User Guide and Diagnostics](#)

User manual for the FOXWELL NT650Elite Multi-Application Service Tool. This guide details safety, operation, diagnostics (ABS, SRS), maintenance (DPF, EPB, BRT), and update procedures for automotive professionals.

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<p><small>Foxwell NT630 Plus OBD2 Scanner FAQ and Troubleshooting Guide</small></p>	<p>Foxwell NT630 Plus OBD2 Scanner FAQ and Troubleshooting Guide</p> <p>Find answers to frequently asked questions and troubleshooting tips for the Foxwell NT630 Plus OBD2 diagnostic scanner, covering registration, updates, common issues, and operational functions.</p>
<p><small>Trademarks FOXWELL is a trademark of Shenzhen Foxwell Technology Co., Ltd. All rights reserved. All trademarks are registered trademarks of their respective holders. Copyright © 2023 Shenzhen Foxwell Technology Co., Ltd. All rights reserved. The software, specifications and documents in this manual are the intellectual property available from Foxwell. You are not allowed to change or copy the content of this manual. For technical assistance, send an email to: support@foxwell.net</small></p>	<p>FOXWELL NT630 Elite ABS & Airbag Reset Tool User Manual Diagnostics & Guide</p> <p>Explore the comprehensive user manual for the FOXWELL NT630 Elite ABS & Airbag Reset Tool. This guide details features, setup, diagnostic operations, OBDII/EOBD functions, system configuration, software updates, and result printing for effective vehicle diagnostics.</p>
<p><small>Frequently Asked Questions for the LAUNCH CRP123E Q1: What is the official update for the LAUNCH CRP123E? A1: Visit the official website of LAUNCH CRP123E or the official vehicle manufacturer website, as most cars have a central computer, to download the latest software update. Q2: How do I register the device? A2: You don't need to go to the official website to register the device, which can be registered on the device itself. Q3: What languages does the LAUNCH CRP123E support? A3: The LAUNCH CRP123E supports 11 languages including English, French, German, Spanish, Italian, Portuguese, Dutch, Polish, Russian, Chinese, and English. You can choose different languages as you need for your work. Q4: What are the 3 special features of the CRP123E? A4: The CRP123E has three special features: 1. OBDII, 2. ABS, 3. Brake. These features are designed to help you quickly identify and resolve vehicle issues. Q5: What are the free updates for the CRP123E? A5: LAUNCH CRP123E supports free updates. You can download the latest software updates from the official website or the device itself.</small></p>	<p>LAUNCH CRP123E FAQs: Troubleshooting and Support</p> <p>Frequently Asked Questions for the LAUNCH CRP123E automotive diagnostic tool, covering updates, registration, language support, features, package contents, troubleshooting, and more.</p>
<p><small>Trademarks FOXWELL is a trademark of Shenzhen Foxwell Technology Co., Ltd. All rights reserved. All trademarks are registered trademarks of their respective holders. Copyright © 2023 Shenzhen Foxwell Technology Co., Ltd. All rights reserved. The software, specifications and documents in this manual are the intellectual property available from Foxwell. You are not allowed to change or copy the content of this manual. For technical assistance, send an email to: support@foxwell.net</small></p>	<p>Foxwell NT520 Pro Multi-system Scanner User Manual</p> <p>Explore the comprehensive user manual for the Foxwell NT520 Pro Multi-system Scanner. This guide provides detailed instructions on vehicle diagnostics, service functions, system setup, updates, and more for professional automotive repair.</p>

Foxwell NT624Elite All-System Scanner Quick Start Guide

A concise guide to setting up, registering, and using the Foxwell NT624Elite all-system car diagnostic scanner, including troubleshooting tips and support information.
lang:en score:47 filesize: 1.25 M page_count: 2 document date: 2022-06-22

Product Category	PORTABLE	PORTABLE	PORTABLE	LAUNCH	LAUNCH	IPDTS
Design						
Model	MINI-ELITE	ELITE	PRO	MINI	MINI	IPDTS
Supported Protocols	All major OBD protocols	All major OBD protocols	All major OBD protocols	U.S. & European	U.S. & European	U.S. & European
Supported Systems	All major vehicle brands	All major vehicle brands	All major vehicle brands	U.S. & European	U.S. & European	U.S. & European
Supported Functions	All diagnostic functions	All diagnostic functions	All diagnostic functions	24 hour light service	24 hour light service	24 hour light service
Software & Services	1 year basic service	1 year basic service	1 year basic service	24/7 Light Service	24/7 Light Service	24/7 Light Service
Hardware & Accessories	1 year basic service	1 year basic service	1 year basic service	24/7 Light Service	24/7 Light Service	24/7 Light Service
Post-OES Payment	Y	Y	Y	Y	Y	Y
Post-OES Support	Y	Y	Y	Y	Y	Y
Vehicle Information	Y	Y	Y	Y	Y	Y
Vehicle History	Y	Y	Y	Y	Y	Y
Vehicle Updates	Y	Y	Y	24 months	18 months	24 months
Vehicle Log	Y	Y	Y	Y	Y	Y

Car Diagnostic Scan Tool Comparison: FOXWELL, LAUNCH, AUTEL

Compare key features, supported systems, and maintenance functions of automotive diagnostic scan tools from FOXWELL (NT624 Elite, NT726, NT809), LAUNCH (CRP129X/I/E, CRP909/E/X), and AUTEL (MK808).

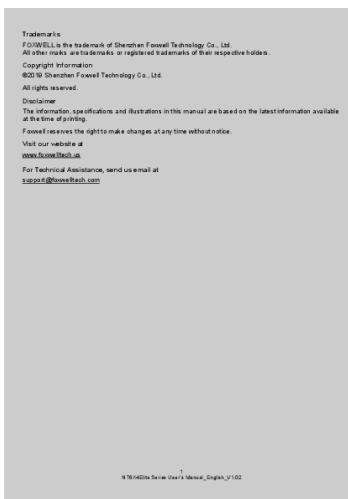
lang:it score:43 filesize: 265.37 K page_count: 1 document date: 2021-09-17



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.

lang:en score:34 filesize: 4.81 M page_count: 49 document date: 2022-09-07



[pdf] User Manual Specifications Warranty

Trademarks Joe Young User Manual Amazon FOXWELL Car Scanner NT604 Elite OBD2 ABS SRS Transmission Check Engine Code Reader Diagnostic Scan Tool with Airbag for All Cars Automotive C1hVAPjZtjL m media amazon images I |||

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Manual_English_V1.02 Maintenance NOTE NT614 Elite and NT624 Elite support Oil
Light Reset and EPB Service; NT644 Elite supports all of the following services.
lang:en score:33 filesize: 5.27 M page_count: 50 document date: 2019-10-09



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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.

lang:en **score:32** filesize: 4.76 M page_count: 48 document date: 2022-12-12



[Foxwell 4.3" Series User's Manual](#)

This user manual provides comprehensive instructions for the Foxwell 4.3" Series diagnostic tool, covering setup, operation, maintenance, and troubleshooting. Learn how to identify vehicles, perform diagnostic operations, and utilize various maintenance functions.

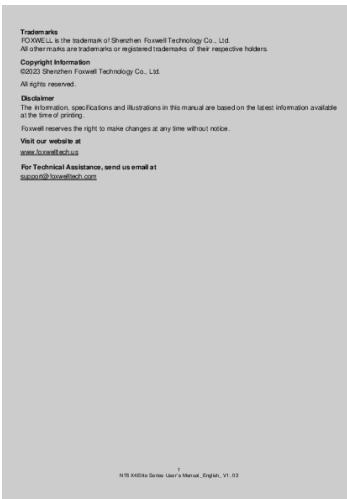
lang:en **score:30** filesize: 2.7 M page_count: 40 document date: 2025-06-18



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[Foxwell NT6X4Elite Series User's Manual: Operation and Maintenance Guide](#)

Comprehensive user manual for the Foxwell NT6X4Elite Series diagnostic scanner, covering setup, vehicle identification, diagnostic operations, maintenance procedures, system setup, updates, and uninstallation.

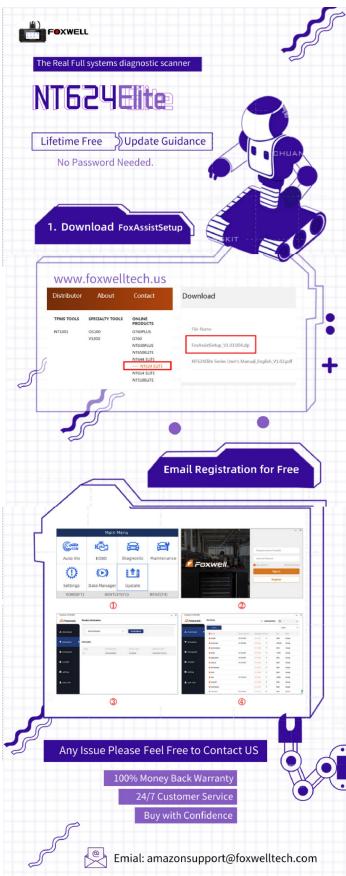
lang:en score:28 filesize: 3.03 M page_count: 38 document date: 2024-11-11



[FOXWELL NT6X4Elite Series User Manual: Automotive Diagnostic Scan Tool Guide](#)

Comprehensive user manual for the FOXWELL NT6X4Elite Series automotive diagnostic scan tool. Learn about vehicle identification, DTC reading, live data, maintenance functions, and software updates. Get expert diagnostic capabilities.

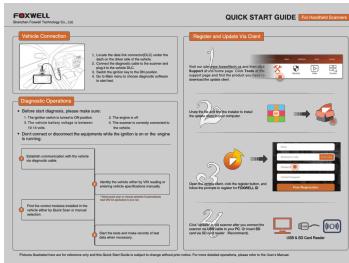
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2022 Newest FOXWELL OBD2 Scanner NT624 Elite Car Diagnostic All Systems with ABS Bleeding SAS Calibration Throttle Reset Oil EPB Add New Features Via Software Update NT624 elite Installation Manual FOXWELL 91N2dVQI7QL m media amazon images I |||

lang:en score:26 filesize: 792.8 K page_count: 1 document date: 2019-10-17



[\[pdf\]](#) Guide

NT624 elite 2022 Newest FOXWELL OBD2 Scanner Elite Car Diagnostic All Systems with ABS Bleeding SAS Calibration Throttle Reset Oil EPB Add New Features Via Software Update NT624 User Guide FOXWELL C1ELUf mydS m media amazon images I |||

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lang:en score:25 filesize: 4.87 M page_count: 2 document date: 2021-08-24



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lang:en score:24 filesize: 4 M page count: 48 document date: 2023-08-02

[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.

lang:en score:24 filesize: 289.96 K page_count: 1 document date: 2020-03-20