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FOXWELL NT630 Pro, NT301

FOXWELL NT630 Pro and NT301 Diagnostic Tools User Manual

Brand: FOXWELL | Models: NT630 Pro, NT301

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your FOXWELL NT630 Pro ABS SRS OBD2 Scanner with 12V Battery Tester and the FOXWELL NT301 OBD2 Scanner. These tools are designed to assist in diagnosing vehicle issues, performing battery tests, and clearing diagnostic trouble codes (DTCs).

2. SETUP

2.1 Initial Connection

To begin, ensure your vehicle's ignition is in the OFF position. Locate the vehicle's 16-pin Data Link Connector (DLC), typically found under the dashboard on the driver's side. Connect the diagnostic tool's OBDII cable to the vehicle's DLC. Once connected, turn the vehicle's ignition to the ON position (engine off).

2.2 Powering On

The diagnostic tool will power on automatically once connected to the vehicle's DLC. Follow the on-screen prompts to select your desired function.

2.3 Software Updates

It is recommended to regularly update the software for both the NT630 Pro and NT301 to ensure access to the latest vehicle coverage and features, such as the Battery Registration (BRT) reset function for the NT630 Pro. Refer to the FOXWELL official website for update instructions and software downloads.

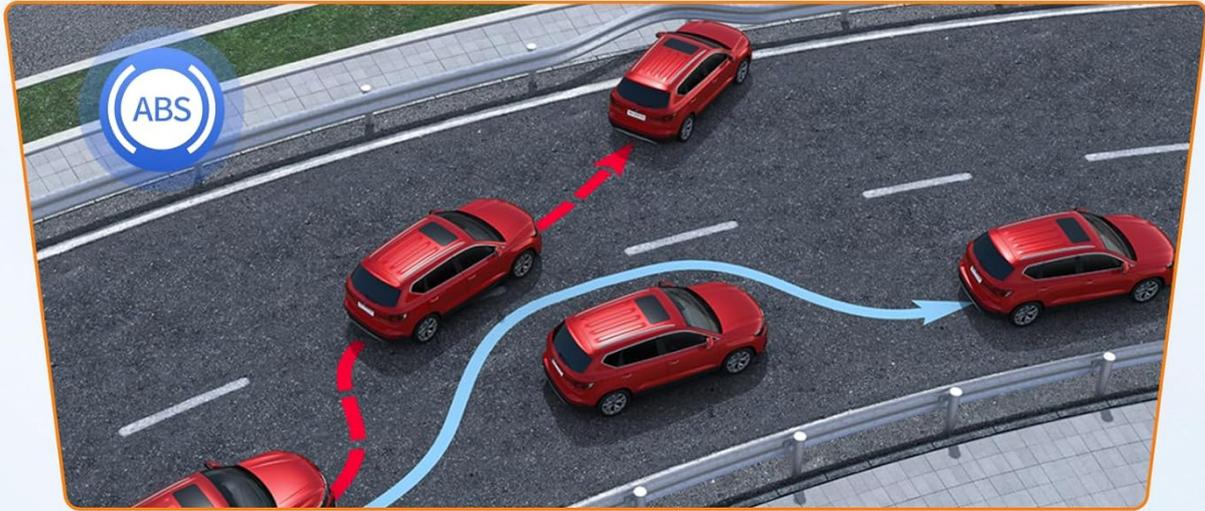
3. OPERATING INSTRUCTIONS

3.1 FOXWELL NT630 Pro

The NT630 Pro is an advanced diagnostic tool offering comprehensive ABS and SRS system diagnostics, along with a 12V battery testing function.

3.1.1 ABS/SRS Diagnostics

This function allows you to read ECU information, diagnose trouble codes, and view live data related to the Anti-lock Braking System (ABS) and Supplemental Restraint System (SRS). Live data includes wheel speed sensors, brake switch and pedal signals, hydraulic unit status, and airbag system insights. After necessary repairs, the tool can clear ABS error codes and turn off the ABS warning light. Note: Airbag codes may not be cleared by this tool.



ABS & SRS DIAGNOSTICS

Read Code | Clear Code | Live Data | ECU Information | Active Test

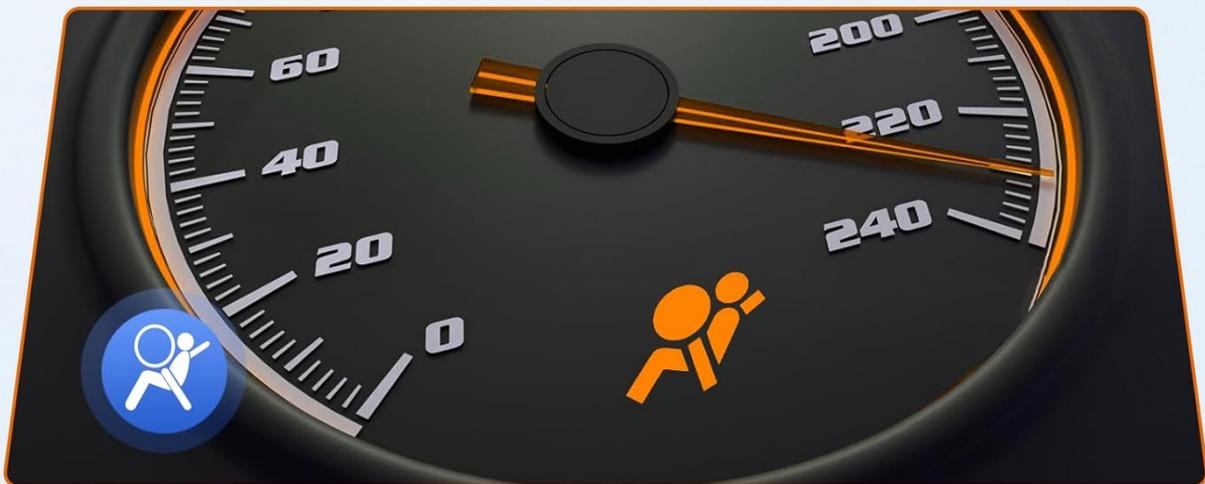


Image: NT630 Pro displaying options for ABS & SRS Diagnostics, including Read Code, Clear Code, Live Data, ECU Information, and Active Test.

IN-DEPTH DIAGNOSIS OF ABS SYSTEMS



ABS

ABS Bleeding

ABS Active

ABS Diagnostic Data

- ▶ FR/FL Wheel Speed
- ▶ ABS Static Test
- ▶ **ABS System Calibration**
- ▶ ABS Initialization
- ▶ Total Distance Traveled-Unit
- ▶ IG1/BS1 Voltage Value
- ▶ Motor Power Supply Voltage

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Image: A visual representation of in-depth ABS system diagnosis, highlighting data points like FR/FL Wheel Speed, ABS Static Test, ABS System Calibration, and Motor Power Supply Voltage.

3.1.2 12V Battery Test

The NT630 Pro supports testing 100–1100 CCA batteries, including Regular, EFB, AGM (spiral/flat plate), and GEL types. It provides critical battery health information such as voltage, internal resistance, State of Charge (SOC), State of Health (SOH), starting voltage, cranking time, alternator load, and no-load voltage. This helps determine if a battery requires replacement. Ensure the tool is updated to access the Battery Registration (BRT) reset function.

NT630 PLUS UPGRADE VERSION

Add 12V Battery Test



Image: A visual comparison showing the NT630 Plus and the upgraded NT630 Pro, emphasizing the addition of 12V Battery Test, Cranking Test, and Charging Test features.

3.1.3 Service Resets (ABS Bleeding)

The NT630 Pro includes specific service functions such as ABS Bleeding, which is crucial for maintaining brake system integrity after certain repairs.

HOT SERVICE RESET



Image: The NT630 Pro screen showing 'Hot Service Reset' options, with icons for ABS Bleeding, SRS, Oil Reset, and EPB (Electronic Parking Brake).

3.2 FOXWELL NT301

The NT301 is a professional OBDII diagnostic code reader designed for quick and accurate diagnosis of Check Engine Light issues.

3.2.1 Check Engine Light (CEL) Diagnosis

The NT301 allows you to read Diagnostic Trouble Codes (DTCs), access I/M readiness status, and identify the root cause of an illuminated Check Engine Light (MIL). It can monitor sensor tests, read live data, and retrieve the Vehicle Identification Number (VIN). Fault codes can be cleared with the NT301 only after the underlying repair has been completed.

WHY YOU NEED NT301?

Enhance vehicle performance, drive with worry-free



Image: A visual guide demonstrating how the NT301 helps diagnose and clear a Check Engine Light, showing steps like reading and erasing codes to figure out the root cause.

3.2.2 Live Data and Emissions

The NT301 can view freeze frame data, monitor various sensor tests, and perform EVAP system tests. It provides a precise live data display, showing parameters in both text and graph formats, which helps in identifying suspicious or symptom-specific data. The one-click I/M Readiness Test is suitable for emission checks during annual inspections and roadside spot tests.

WHAT CAN YOU DO WITH NT301 SCANNER?



Image: An infographic showcasing the functions of the NT301 scanner, including Read DTCs, Erase DTCs, Emissions Check, View Freeze Frame, Monitor Sensors Test, Retrieve VIN, EVAP Test, and Live Data.

PRECISE **LIVE DATA** DISPLAY

Text and graph live data reading can help focus on any suspicious or symptom-specific data parameters



Image: The NT301 screen showing a precise live data display with engine RPM represented graphically, aiding in the analysis of symptom-specific data parameters.

ONE-CLICK I/M READINESS TEST

Suitable for emission check on annual inspections and spot tests on the road

I/M Readiness			
MIL	🔴	IGN	Compression Spark
DTC	🟢	Pd DTC	99
MIS	🟢	EVAP	🔴
FUE	🟢	AIR	🔴
CCM	🟢	O2S	🔴
CAT	🔴	HRT	🔴
HCOAT	🔴	EGR	🔴



-  No DTCs
Good Engine Status
-  Pending DTCs
Needs Diagnosis
-  Permanent DTCs
Urgent Repair

Image: The NT301 performing a one-click I/M Readiness Test, indicating the status of various emission monitors (MIL, DTC, MIS, FUE, CCM, O2S, CAT, HRT, EGR, EVAP, AIR) and providing a summary of engine status.

4. MAINTENANCE

4.1 Cleaning

Clean the diagnostic tools with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the screen free from dust and debris.

4.2 Storage

Store the tools in a dry, cool environment, away from direct sunlight and extreme temperatures. Keep the cables neatly coiled to prevent damage.

4.3 Software Updates

Regularly check the FOXWELL official website for software updates. Keeping your tools updated ensures optimal performance, expanded vehicle coverage, and access to new features.

5. TROUBLESHOOTING

5.1 Device Not Powering On

Ensure the OBDII cable is securely connected to both the diagnostic tool and the vehicle's DLC. Verify the vehicle's ignition is in the ON position. Check the vehicle's fuse for the OBDII port if the issue persists.

5.2 Communication Errors

If the tool fails to communicate with the vehicle, ensure the ignition is ON and the connection is secure. Try the tool on a different compatible vehicle to rule out a vehicle-specific issue. Consult your vehicle's service manual for DLC location and functionality.

5.3 Codes Not Clearing

Diagnostic Trouble Codes (DTCs) can only be cleared after the underlying fault has been repaired. If the fault persists, the code will reappear. Ensure all necessary repairs are completed before attempting to clear codes.

6. SPECIFICATIONS

- **Brand:** FOXWELL
- **Models:** NT630 Pro, NT301
- **ASIN:** B0DGLHJ2R
- **NT630 Pro Functions:** ABS/SRS Diagnostics, 12V Battery Test (Health, Cranking, Charging), ABS Bleeding, BRT Reset (requires update)
- **NT301 Functions:** Read/Clear DTCs, I/M Readiness, Live Data, Freeze Frame, EVAP Test, O2 Sensor Test, VIN Retrieval
- **NT630 Pro Battery Support:** 100–1100 CCA (Regular, EFB, AGM, GEL)
- **Date First Available:** April 17, 2025

7. WARRANTY AND SUPPORT

FOXWELL products typically come with a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your product or visit the official FOXWELL website. For technical support, software updates, or service inquiries, please contact FOXWELL customer service through their official channels.