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FOXWELL NT530

FOXWELL NT530 Diagnostic Scan Tool User Manual

Model: NT530 | Brand: FOXWELL

1. INTRODUCTION

The FOXWELL NT530 is a professional diagnostic scan tool designed for Honda and Acura vehicles, offering comprehensive system diagnostics and advanced maintenance services. This device provides OE-level diagnostic capabilities for various electronic systems, enabling users to read and clear codes, view live data, and perform special functions.

It is suitable for automotive enthusiasts, small garages, independent repair shops, and technicians seeking an efficient and cost-effective diagnostic solution.

2. SETUP



Image 2.1: FOXWELL NT530 Diagnostic Scan Tool. This image shows the compact design of the NT530, featuring a color screen and navigation buttons.

2.1 Initial Power-Up and Connection

1. **Power Source:** The NT530 is a plug-and-play device. It is primarily powered by the vehicle's OBDII port. Ensure the vehicle's ignition is in the 'ON' position (engine off or running, depending on the diagnostic task).
2. **Connect to Vehicle:** Locate the 16-pin OBDII diagnostic port in your vehicle (typically under the dashboard on the driver's side). Connect the NT530's diagnostic cable to this port.
3. **Device Activation:** Once connected, the device should power on automatically. The main menu will appear on the 2.8-inch TFT color screen.

2.2 Software Updates

The NT530 offers lifetime free updates to ensure compatibility with new vehicle models and features. To update the software:

1. **PC Connection:** Connect the NT530 to a Windows-based personal computer using a USB cable.
2. **Download Software:** Visit the official FOXWELL website to download the update client software.
3. **Install Updates:** Follow the on-screen instructions provided by the update client to download and install the

latest software for your device.

3. OPERATING INSTRUCTIONS

The NT530 features a 2.8-inch TFT color screen and button-navigation design for ease of use. Navigate through menus using the directional buttons and confirm selections with the 'Enter' button.

3.1 All System Diagnostics

This function allows for comprehensive scanning of all available electronic systems in your Honda or Acura vehicle. It can diagnose issues in systems such as:

- Anti-lock Braking System (ABS)
- Supplemental Restraint System (SRS) / Airbag
- Steering Angle Sensor (SAS)
- Transmission
- Electronic Power Steering (EPS)
- Tire Pressure Monitoring System (TPMS)
- Diesel Particulate Filter (D-P-F)
- Electronic Parking Brake (EPB)
- Heating, Ventilation, and Air Conditioning (HVAC)
- Keyless Entry and Honda Smart Package systems
- Lane Keeping Assist System (LKAS) Control

To perform a full system scan, select 'Diagnostics' from the main menu, choose your vehicle make and model, and then select 'Auto Scan' or 'Control Unit' to select specific systems.

3.2 Advanced Maintenance Service Features

The NT530 supports various advanced service functions for Honda and Acura vehicles, including:

- **Oil Reset:** Reset the oil reminder and service lights after an oil change.
- **EPB Service:** Deactivate the electronic parking brake for brake pad replacement.
- **TPMS Reset:** Reset the tire pressure monitoring system.
- **SAS Calibration:** Calibrate the steering angle sensor.
- **ABS Bleeding:** Perform ABS brake bleeding procedures.
- **Throttle Position Sensor Reset:** Reset the throttle body position.
- **DPF Regeneration:** Initiate diesel particulate filter regeneration.
- **Battery Replacement:** Register a new battery.
- **Key Coding/Programming:** Add or delete keys and perform key fob programming.
- **Crankshaft Sensor Relearn:** Perform crankshaft position sensor relearn procedures.

Access these functions through the 'Service' or 'Special Functions' menu after selecting your vehicle.

3.3 OBD Full 10 Modes

Beyond specific Honda/Acura diagnostics, the NT530 functions as a universal OBDII scanner, supporting all 10 OBDII test modes. This allows it to work on other vehicle brands (e.g., BMW, Mercedes-Benz, GM, Porsche, Toyota) for basic engine diagnostics.

- **Read and Clear Codes:** Retrieve and erase Diagnostic Trouble Codes (DTCs).
- **Turn Off MILs:** Extinguish the Malfunction Indicator Light (Check Engine Light).
- **Live Sensor Data:** View real-time sensor data, supporting 2 PIDs graphing and numerous live PIDs in text format.
- **Freeze Frame Data:** View a snapshot of vehicle operating conditions at the time an emission-related fault occurred.
- **I/M Readiness:** Check the readiness status of emission-related monitors.
- **O2 Sensor Test:** Retrieve O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieve results for emission-related diagnostic monitoring tests of specific components/systems.
- **Component Test:** Initiate a leak test for the EVAP system.
- **Vehicle Information:** Retrieve vehicle identification number (VIN), calibration ID, and calibration verification number (CVN).

3.4 Additional Functions

- **Live Data Graphing:** Merge live sensor data in graph format for easier analysis.
- **Smog Test:** Assist in passing annual vehicle inspections.
- **Health Report:** Generate, save, share, and print overall inspection reports for diagnostic analysis.
- **History Feature:** Save historical diagnostic data and VIN numbers, eliminating the need for manual input on subsequent uses.

4. MAINTENANCE

To ensure the longevity and optimal performance of your FOXWELL NT530 diagnostic tool, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight, extreme temperatures, and excessive humidity. Keep it in its protective case when not in use.
- **Cable Care:** Inspect the diagnostic cable regularly for any signs of wear, cuts, or damage. Replace damaged cables immediately to prevent electrical issues or improper connections.
- **Software Updates:** Regularly update the device software as described in Section 2.2 to ensure access to the latest vehicle data and functions.

5. TROUBLESHOOTING

If you encounter issues while using your FOXWELL NT530, refer to the following common troubleshooting steps:

- **Device Not Powering On:**
 - Ensure the diagnostic cable is securely connected to the vehicle's OBDII port.
 - Verify the vehicle's ignition is in the 'ON' position.
 - Check the vehicle's battery voltage; a low battery might prevent the OBDII port from supplying sufficient power.
- **Connection Errors:**
 - Confirm the diagnostic cable is fully inserted into both the NT530 and the vehicle's OBDII port.

- Try connecting to a different vehicle (if available) to rule out a vehicle-specific issue.
- Inspect the diagnostic cable for any damage.
- **Unable to Read Codes or Access Systems:**
 - Ensure the correct vehicle make, model, and year are selected in the device menu.
 - Verify that the vehicle's ignition is on.
 - Some advanced functions may require the engine to be running or specific conditions to be met (e.g., engine temperature). Refer to the vehicle's service manual for specific requirements.
 - Ensure the device software is up to date.
- **Screen Freezes or Device Unresponsive:**
 - Disconnect the device from the vehicle and reconnect it.
 - If the issue persists, perform a software update via PC.
- **Error Messages:**
 - Note down the exact error message. Consult the FOXWELL support website or contact technical support with the error details.

6. SPECIFICATIONS

Manufacturer	FoxWell Tech
Brand	Generic (Product is FOXWELL)
Model	FoxWell NT530
Item Weight	1.64 pounds
Package Dimensions	9 x 7 x 4 inches
Item Model Number	FoxWell NT530
Manufacturer Part Number	NT530 Foxwell
Power Source	PLUG and PLAY, Powered by vehicle OBDII Port / USB Connection to PC for Windows only updating
Operating System	Bidirectional dealer-level all systems diagnostics and service functions
Screen Size	2.8 Inches
UPC	644637033408

7. WARRANTY INFORMATION

Specific warranty details for the FOXWELL NT530 are typically provided at the point of purchase or on the manufacturer's official website. Please refer to the documentation included with your product or visit the FOXWELL website for the most accurate and up-to-date warranty terms and conditions.

8. SUPPORT

For technical assistance, product inquiries, or further support regarding your FOXWELL NT530 diagnostic scan tool, please visit the official FOXWELL website. The website typically provides FAQs, software downloads, and contact information for customer service.

