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FOXWELL NT201

FOXWELL NT201 OBD2 Scanner User Manual

Model: NT201

1. INTRODUCTION

The FOXWELL NT201 OBD2 Scanner is a diagnostic tool designed to assist vehicle owners in identifying and resolving issues related to their vehicle's On-Board Diagnostics (OBD-II) system. This device allows for reading and clearing diagnostic trouble codes (DTCs), viewing live data, performing I/M readiness tests, and accessing other essential diagnostic functions. The included protective carrying case ensures the scanner and its accessories are stored securely and are easily transportable.

This manual provides comprehensive instructions for the proper use and maintenance of your NT201 scanner, ensuring optimal performance and longevity.

2. PRODUCT OVERVIEW

2.1 FOXWELL NT201 OBD2 Scanner

The NT201 scanner features a compact design with a clear display and intuitive button layout for easy navigation. It connects to your vehicle's OBD-II port to retrieve diagnostic information.



Figure 2.1: The FOXWELL NT201 OBD2 Scanner shown alongside its protective carrying case. The scanner is orange and black with a display screen and control buttons. The case is black with a zipper closure and the FOXWELL logo.

WHY NT201 OBD2 SCANNER?



Figure 2.2: Close-up view of the FOXWELL NT201 scanner, highlighting its integrated OBDII diagnostic cable and connector. The device features a color display and clearly labeled navigation buttons.

2.2 Protective Carrying Case

The included carrying case is designed to protect the NT201 scanner from damage and keep all components organized. It features a durable exterior, a sturdy zipper, and internal compartments.

Solid Zipper

Easy opening and closing



Sturdy Handle

Friendly for carry



Waterproof & Protected

High quality PU leather



Figure 2.3: The protective carrying case shown open, revealing internal mesh pockets and elastic straps designed to secure the NT201 scanner and its accessories. The case is black with a soft interior lining.

3. SETUP

Before using the FOXWELL NT201 scanner, ensure your vehicle's ignition is in the **ON** position (engine off or running, depending on the test). The scanner draws power directly from the vehicle's OBD-II port.

- 1. Locate the OBD-II Port:** The OBD-II port is typically located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you have difficulty finding it.
- 2. Connect the Scanner:** Plug the NT201's OBD-II connector firmly into the vehicle's OBD-II port. Ensure a secure connection.
- 3. Power On:** The scanner will automatically power on once connected to the vehicle's OBD-II port. The main menu will appear on the screen.

ONE-KEY I/M READINESS

Press the hotkey to check your engine's status directly



Figure 3.1: A hand connecting the OBD-II cable of the FOXWELL NT201 scanner to a vehicle's diagnostic port, typically located under the dashboard.

4. OPERATING INSTRUCTIONS

The NT201 scanner provides various diagnostic functions accessible through its main menu. Use the **UP/DOWN** buttons to navigate and the **ENTER** button to select options.

4.1 Reading and Clearing Diagnostic Trouble Codes (DTCs)

This function allows you to retrieve and erase fault codes stored in the vehicle's Engine Control Unit (ECU).

1. From the main menu, select "**Read Codes**" to view current, pending, and permanent DTCs.
2. To clear codes, select "**Erase Codes**". Confirm the action when prompted. *Note: Clearing codes will turn off the Check Engine Light (MIL) but will not fix the underlying issue. The MIL may illuminate again if the fault persists.*

CHECK ENGINE LIGHT

Read the codes to pinpoint faults
Erase codes and reset check engine light after repairs



Figure 4.1: The FOXWELL NT201 scanner displaying its diagnostic menu, including options like "Read Codes," "Erase Codes," and "Live Data," while connected inside a vehicle.

4.2 I/M Readiness Test

The I/M Readiness function checks the status of the vehicle's emission-related monitoring systems. This is useful for preparing for emissions inspections.

1. From the main menu, select "**I/M Readiness**".
2. Alternatively, press the dedicated **I/M** hotkey on the scanner for a quick check. The scanner will display the status of various monitors (e.g., O2 Sensor, EVAP System).

LIVE DATA STREAM

Show real-time vehicle sensors data in text and graph to enhance driving safety



Figure 4.2: The FOXWELL NT201 scanner highlighting the "I/M" hotkey, used for quickly checking emission readiness status. The image also shows exhaust pipes in the background, symbolizing emissions.

4.3 Live Data Stream

View real-time sensor data from the vehicle's engine. This can help in diagnosing intermittent problems or verifying repairs.

1. From the main menu, select "Live Data".
2. You can view data in text format or graphical format (if supported by the scanner and vehicle). Use the **UP/DOWN** buttons to scroll through parameters.

ACCURATE DTC DEFINITIONS

Get instant fault code definition for right fixes



Figure 4.3: The FOXWELL NT201 scanner displaying real-time vehicle sensor data in both text and graphical formats, such as Engine RPM and Vehicle Speed Sensor readings.

4.4 DTC Lookup

The built-in DTC Lookup function provides detailed descriptions of diagnostic trouble codes, helping you understand the nature of a fault.

1. From the main menu, select "DTC Lookup".
2. Enter the DTC code (e.g., P0171) using the scanner's buttons.
3. The scanner will display a definition of the code, providing insight into the potential issue.

User-Friendly Design

Keep your obd2 scanner and accessories securely holding



Figure 4.4: The FOXWELL NT201 scanner displaying the DTC Lookup function, showing a detailed description for a specific trouble code (P2110: Throttle Actuator Control System Forced Limited RPM).

5. MAINTENANCE

5.1 Cleaning the Scanner

- Use a soft, damp cloth to clean the exterior of the scanner.
- Do not use abrasive cleaners or solvents, as these can damage the display or casing.
- Ensure the device is disconnected from any power source before cleaning.

5.2 Storing the Scanner

- Always store the NT201 scanner in its protective carrying case when not in use.
- Store the device in a dry environment, away from extreme temperatures and direct sunlight.
- Keep the OBD-II cable neatly coiled to prevent damage.



Figure 5.1: Features of the protective carrying case, including a solid zipper for easy opening and closing, a sturdy handle for portability, and waterproof PU leather material for protection.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Scanner does not power on.	<ul style="list-style-type: none"> Loose connection to OBD-II port. Vehicle ignition not in ON position. Vehicle's OBD-II port fuse blown. 	<ul style="list-style-type: none"> Ensure the OBD-II connector is securely plugged in. Turn the vehicle ignition to the ON position. Check and replace the vehicle's OBD-II port fuse if necessary.

Problem	Possible Cause	Solution
"Link Error" or "Communication Error" message.	<ul style="list-style-type: none">Incorrect protocol detected.Vehicle not OBD-II compliant.Faulty connection or cable.	<ul style="list-style-type: none">Verify the vehicle is OBD-II compliant (most vehicles 1996 and newer).Check the connection to the OBD-II port.Try the scanner on another OBD-II compliant vehicle to rule out scanner fault.
Codes cleared, but Check Engine Light returns.	<ul style="list-style-type: none">Underlying vehicle fault not repaired.	<ul style="list-style-type: none">Clearing codes only resets the light; it does not fix the problem. Diagnose and repair the root cause of the DTCs.

7. SPECIFICATIONS

Feature	Detail
Brand	FOXWELL
Model	NT201
Screen Size	2.4 Inches
Operating System	Windows XP (for software updates, not device operation)
Connectivity	OBD-II Cable
Supported Protocols	All OBD-II protocols (CAN, J1850 PWM, J1850 VPW, ISO9141, KWP2000)
Functions	Read/Clear DTCs, I/M Readiness, Live Data, Freeze Frame, O2 Sensor Test, On-Board Monitor Test, EVAP Test, Vehicle Info, DTC Lookup

8. WARRANTY AND SUPPORT

8.1 Warranty Information

FOXWELL products typically come with a limited warranty covering manufacturing defects. Please refer to the warranty card included with your product or visit the official FOXWELL website for specific warranty terms and conditions applicable to the NT201 scanner.

8.2 Customer Support

For technical assistance, product inquiries, or support regarding your FOXWELL NT201 scanner, please contact FOXWELL customer support. Contact information can usually be found on the official FOXWELL website or in the product packaging.

When contacting support, please have your product model (NT201) and any relevant purchase information ready.

