

FOXWELL NT201

FOXWELL NT201 OBD2 Scanner User Manual

Model: NT201

Brand: FOXWELL

1. INTRODUCTION

Thank you for choosing the FOXWELL NT201 OBD2 Scanner. This comprehensive user manual provides detailed instructions on how to set up, operate, and maintain your diagnostic tool and the included extension cable. The NT201 is designed to help car owners quickly identify and resolve issues related to their vehicle's engine and emissions system.



Image 1.1: The FOXWELL NT201 OBD2 Scanner and the included 16-pin extension cable.

2. PRODUCT FEATURES

The FOXWELL NT201 OBD2 Scanner offers a range of powerful features to assist with vehicle diagnostics:

- **Effortless Diagnostics:** Quickly detects issues triggering the check engine light, reads and clears engine fault codes, and turns off the Malfunction Indicator Lamp (MIL).
- **Accurate Engine Diagnostics:** View live data streams such as Engine Coolant Temperature (ETC), Manifold Absolute Pressure (MAP), and Revolutions Per Minute (RPM) to identify factors affecting engine performance.
- **Built-in Trouble Code Library:** Provides instant code definitions and clues for effective troubleshooting.
- **One-Key Emissions Test:** Easily check your vehicle's emission readiness status with a single button press. Visual (red/yellow/green lights) and audible indicators guide the process for pre-inspection checks.
- **Extensive OBDII Modes:** Supports enhanced OBDII modes, including O2 Sensor Test Mode 5 on CAN protocol vehicles, to analyze oxygen content in exhaust gases for engine efficiency assessment.
- **16-pin Male to Female Extension Cable:** A 60cm flat ribbon cable allows for flexible connection, enabling

simultaneous use of two OBD diagnostic tools if needed.

WHY NT201 OBD2 SCANNER?



The image shows the FOXWELL NT201 OBD2 Scanner, an orange handheld device with a black cable and a 16-pin OBD2 connector. The screen displays the 'Diagnostic Menu' with various options. To the left of the scanner, a list of key benefits and capabilities is presented in a dark blue box with orange icons.

FOXWELL

I/M Readiness

MIL DTC P4 DTC Spark

Diagnostic Menu 1/10

- Read Codes
- Erase Codes
- Live Data
- View Freeze Frame
- I/M Readiness
- On-Board Monitor Test
- Component Test

UP

DOWN

ESC

ENTER

I/M

-  **Identify engine issues**
-  **Read and clear fault codes**
-  **DTC definitions for repair**
-  **Self-test before SMOG check**
-  **Enhance safe driving**
-  **Save time & repair costs**

Image 2.1: Key benefits and capabilities of the NT201 OBD2 Scanner.

OBD DUAL INTERFACE

Double protection, not easy to heat, strong anti-interference, more durable. To prevent the burning of the material Precision shaping



Bluetooth
(Diagnostic apparatus)



Wi-Fi
(Diagnostic apparatus)



Wired and wireless
(Diagnostic apparatus)



Image 2.2: The OBD dual interface cable, providing enhanced connectivity options.

3. SETUP GUIDE

Follow these steps to set up your FOXWELL NT201 OBD2 Scanner:

1. **Locate the OBD-II Port:** The OBD-II (On-Board Diagnostics 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 cannot find it.
2. **Connect the Scanner:** Plug the 16-pin connector of the NT201 scanner directly into your vehicle's OBD-II port. Ensure a secure connection.
3. **Use the Extension Cable (Optional):** If the OBD-II port is in an inconvenient location or if you need more flexibility, connect the included 16-pin male to female extension cable to the vehicle's OBD-II port first, then connect the NT201 scanner to the female end of the extension cable.
4. **Power On:** The scanner will automatically power on once connected to the vehicle's OBD-II port, drawing power directly from the vehicle's battery. The screen will illuminate, indicating it is ready for use.
5. **Vehicle Ignition:** Turn the vehicle's ignition to the 'ON' position (engine off) or start the engine, depending on

the diagnostic test you wish to perform. For most diagnostic functions, the 'ON' position is sufficient.



Image 3.1: The official OBD2 Flat Ribbon 16Pin Male to Female Diagnostic Extension Convert Cable.

4. OPERATING INSTRUCTIONS

The NT201 is designed for user-friendly operation. Navigate through the menus using the UP/DOWN arrows and confirm selections with the ENTER button. Use the ESC button to go back.

4.1. Reading and Clearing Diagnostic Trouble Codes (DTCs)

This function allows you to identify why your Check Engine Light is on and clear it after repairs.

1. From the main menu, select "Read Codes" to view current, pending, and permanent DTCs.
2. The scanner will display the codes and their definitions.
3. To clear codes, select "Erase Codes" from the diagnostic menu. Confirm your choice when prompted. This will turn off the Check Engine Light (MIL).

CHECK ENGINE LIGHT

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



Image 4.1: The NT201 scanner in use, showing the process of checking the engine light.

4.2. One-Key I/M Readiness Test

This feature quickly checks if your vehicle's emission systems are ready for an inspection.

1. Press the dedicated "I/M" hotkey on the scanner.
2. The scanner will display the readiness status of various emission monitors (e.g., MIL, Misfire, Fuel System, O2 Sensor).
3. Green indicates ready, yellow indicates incomplete, and red indicates not ready or a fault. An audible beep will also provide feedback.

ONE-KEY I/M READINESS

Press the hotkey to check your engine's status directly



Image 4.2: Using the one-key I/M readiness function on the NT201 scanner.

4.3. Viewing Live Data Stream

Monitor real-time sensor data from your vehicle to diagnose intermittent issues or verify repairs.

1. From the diagnostic menu, select "Live Data".
2. You can view data in text format or, for some parameters, in a graphical format.
3. Scroll through the list to see various parameters like engine RPM, vehicle speed, O2 sensor readings, etc.

LIVE DATA STREAM

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



Image 4.3: The NT201 showing real-time vehicle sensor data in both text and graph formats.

4.4. DTC Lookup

The built-in DTC library provides immediate definitions for diagnostic trouble codes.

1. From the main menu, select "DTC Lookup".
2. Enter the DTC code using the UP/DOWN arrows to change digits and the ENTER button to move to the next digit.
3. Press ENTER after inputting the full code to view its definition and potential causes.

ACCURATE DTC DEFINITIONS

Get instant fault code definition for right fixes



Image 4.4: The NT201 providing instant fault code definitions for accurate fixes.

5. MAINTENANCE

To ensure the longevity and optimal performance of your FOXWELL NT201 scanner:

- **Cleaning:** Use a soft, dry cloth to clean the scanner's casing and screen. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Cable Care:** Avoid bending or kinking the diagnostic cable excessively. Store it neatly coiled to prevent damage to the wires or connectors.
- **Software Updates:** Periodically check the FOXWELL official website for any available software updates for your NT201 scanner to ensure compatibility with newer vehicles and improved functionality.

6. TROUBLESHOOTING

If you encounter issues with your NT201 scanner, refer to the following common problems and solutions:

- **Scanner Does Not Power On:**
 - Ensure the scanner is securely connected to the vehicle's OBD-II port.
 - Verify the vehicle's ignition is in the 'ON' position or the engine is running.
 - Check the vehicle's fuse for the OBD-II port (consult your vehicle's manual).
- **Communication Error with Vehicle:**
 - Confirm the vehicle supports the OBD-II protocol (most vehicles manufactured after 1996 do).
 - Ensure all connections are secure.
 - Try connecting the scanner to a different OBD-II compliant vehicle to rule out scanner malfunction.
- **Screen Freezes or Responds Slowly:**
 - Disconnect and reconnect the scanner.
 - Ensure the vehicle's battery voltage is stable.

7. SPECIFICATIONS

Key technical specifications for the FOXWELL NT201 OBD2 Scanner and included cable:

Feature	Description
Model	NT201
Brand	FOXWELL
Connectivity	Wired, 16-pin OBD-II connector
Supported Protocols	OBDII/EOBD (CAN, ISO9141, KWP2000, J1850 VPW, J1850 PWM)
Display	Backlit LCD
Operating Voltage	8-18V (from vehicle battery)
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Extension Cable Length	60 cm (approx. 23.6 inches)
Date First Available	March 29, 2023

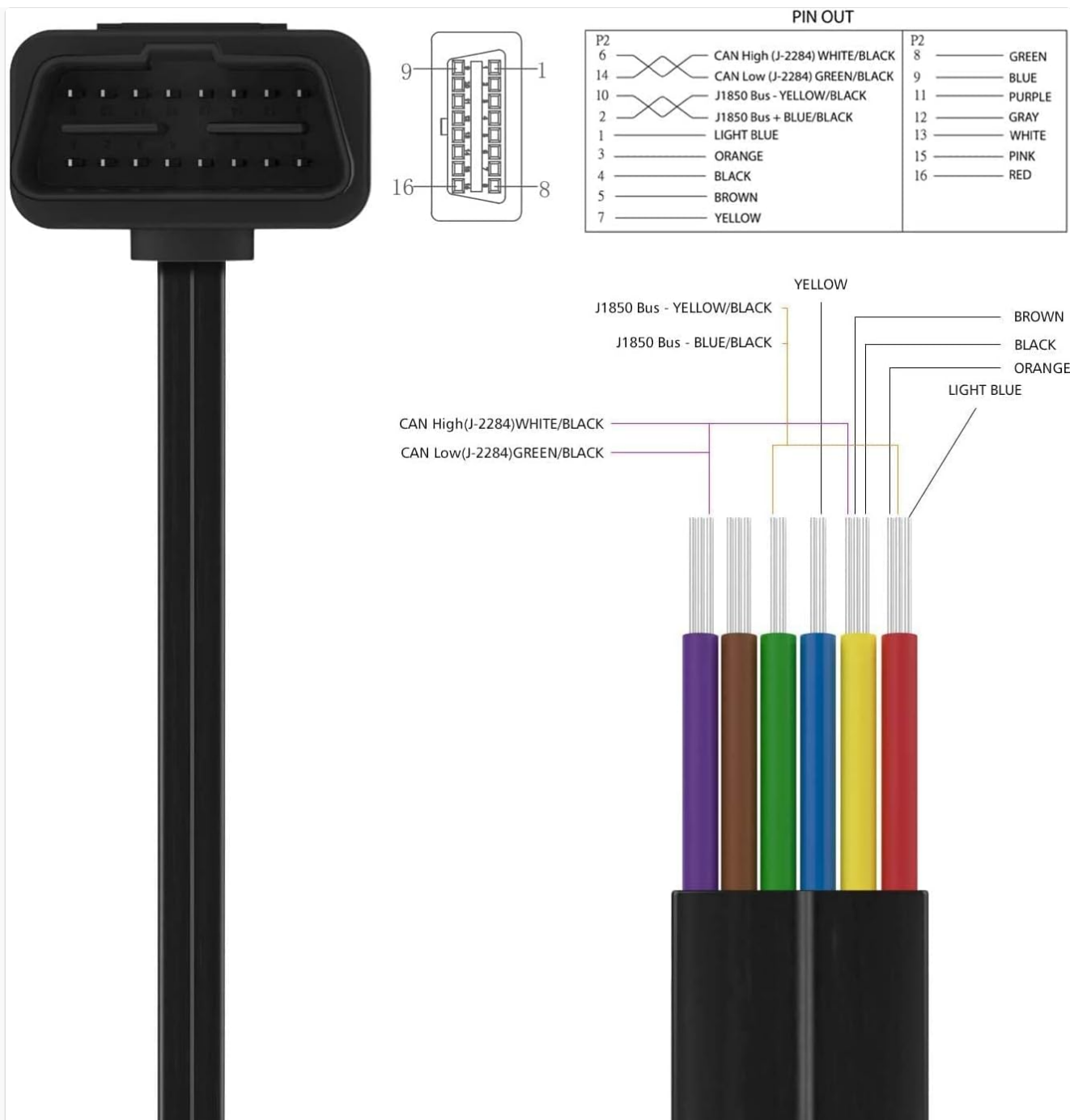




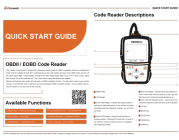



Image 7.1: Detailed pinout diagram for the OBD2 16-pin connector.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your FOXWELL NT201 OBD2 Scanner, please refer to the official FOXWELL website or contact their customer service directly. You can often find detailed support resources, FAQs, and contact information on the manufacturer's official channels. Visit the [FOXWELL Store on Amazon](#) for more product information and support resources.

Related Documents - NT201

	<p>Foxwell NT301 Code Reader Quick Start Guide</p> <p>A quick start guide for the Foxwell NT301 Code Reader, detailing its features, applicable functions, and how to use it for diagnosing check engine issues.</p>
	<p>FOXWELL NT201 OBDII/EOBD Code Reader User Guide</p> <p>User guide for the FOXWELL NT201 OBDII/EOBD Code Reader, detailing its features for reading/clearing codes, live data, I/M readiness, and vehicle information for efficient automotive diagnostics.</p>
	<p>FOXWELL NT201 OBDII/EOBD Code Reader User Manual</p> <p>Comprehensive user manual for the FOXWELL NT201 OBDII/EOBD Code Reader, covering warranty, safety, setup, operations, system configuration, and software updates. Learn how to diagnose vehicle issues effectively.</p>
	<p>FOXWELL NT200E OBDII/EOBD Code Reader User's Guide</p> <p>Explore the capabilities of the FOXWELL NT200E OBDII/EOBD Code Reader with this comprehensive user guide. Learn about safety precautions, diagnostic procedures for reading codes, live data, freeze data, vehicle information, software updates, and troubleshooting. Essential for automotive diagnostics.</p>
	<p>Foxwell NT204 OBDII/EOBD Code Reader Quick Start Guide</p> <p>A quick start guide for the Foxwell NT204 OBDII/EOBD Code Reader, detailing its functions, how to use it, and how to update the software. Suitable for DIY and professional use on petrol and diesel vehicles.</p>
	<p>Manual del Lector de Códigos FOXWELL NT201/NT204 OBDII/EOBD</p> <p>Guía completa del usuario para el lector de códigos automotriz FOXWELL NT201/NT204 OBDII/EOBD. Aprenda sobre instalación, operación, diagnóstico, especificaciones técnicas y actualizaciones.</p>