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› [HUMZOR](#) /

› HUMZOR NC601 OBD2 Diagnostic Tool User Manual

HUMZOR NC601

HUMZOR NC601 OBD2 Diagnostic Tool User Manual

Model: NC601

1. INTRODUCTION

The HUMZOR NC601 is a versatile OBD2 diagnostic tool designed for both light and heavy-duty vehicles. It provides comprehensive engine diagnostics, allowing users to read and clear diagnostic trouble codes (DTCs), view live data, perform I/M readiness tests, and more. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your NC601 device.



Figure 1.1: The HUMZOR NC601 diagnostic tool displaying its main menu with options for OBDII, HD OBD, Smog, Fuel, Battery, Lookup, Review, and Settings. The image also highlights key diagnostic functions like reading and erasing codes, and viewing data streams.

2. PRODUCT FEATURES

- **Comprehensive Diagnostic Functions:** Easily determine the cause of the Check Engine Light (MIL), read and clear Diagnostic Trouble Codes (DTCs), display Freeze Frame data, I/M Monitor Status, Battery Test, Smog Test, Fuel Test, and access a comprehensive error code library (over 50,000 codes).
- **Heavy-Duty Truck Diagnostics:** Supports 9-pin diesel interface diagnostics for heavy trucks, including reading/clearing fault codes and viewing data streams. Compatible with engines from Cummins, Caterpillar, Detroit, Paccard, and others.
- **Wide Vehicle Coverage:** Compatible with most OBDII-compliant vehicles manufactured after 1996 (J1850 PWM, VPW, ISO_9141-2, ISO_14230-4 KWP, KWP-5BPS, ISO_15765-4 CAN, CAN-B, CAN-C, CAN-D protocols). Also supports light and heavy trucks compliant with J1939 standards.
- **User-Friendly Design:** Ergonomic design with a large display screen. Features one-click I/M status access and a one-click help page for detailed function descriptions.

- **Direct Power Supply:** The device is powered directly from the vehicle's OBD port. Three fault indicators provide intuitive vehicle status feedback.

COMPLETE **OBD2** SCANNING FUNCTION

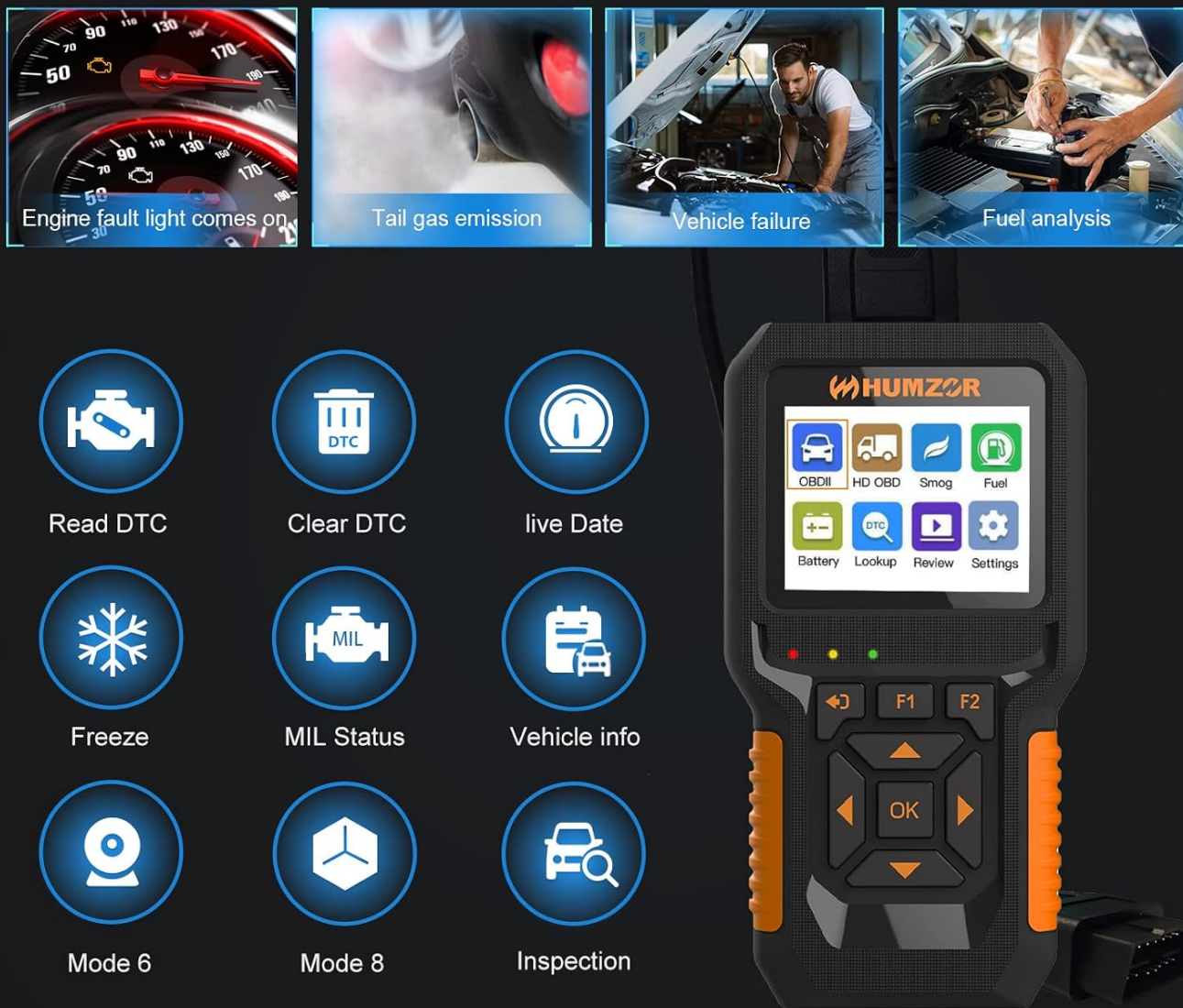


Figure 2.1: Overview of the complete OBD2 scanning functions available on the NC601, including reading and clearing DTCs, live data, and I/M readiness.

3. SETUP

3.1 Unpacking the Device

Carefully unpack the contents of the box. Ensure all components are present:

- 1 x NC601 Host Unit
- 1 x 9-pin Adapter for J1939 Protocol (for heavy trucks)
- 1 x USB Connector Cable
- 1 x Host Cable (16-pin OBDII connector)

- 1 x Tool Box

3.2 Connecting to the Vehicle

1. Locate the vehicle's Diagnostic Link Connector (DLC). For most cars, this is a 16-pin OBDII port, usually located under the dashboard on the driver's side. For heavy trucks, a 9-pin J1939 connector may be present.
2. Connect the appropriate diagnostic cable (16-pin host cable for OBDII or 9-pin adapter for J1939) to the NC601 host unit.
3. Plug the other end of the cable into the vehicle's DLC.
4. Once connected, the NC601 will power on automatically, drawing power directly from the vehicle's battery.

3.3 Initial Language Selection

Upon first use or after a factory reset, you may need to select your preferred language. Navigate through the settings menu to choose from available languages such as English, French, Spanish, German, Italian, Russian, and Chinese.



Figure 3.1: The NC601 supports multiple languages and is compatible with various vehicle types, including cars and trucks.

4. OPERATING INSTRUCTIONS

4.1 Navigating the Menu

Use the directional buttons (up, down, left, right) to navigate through the menu options on the screen. Press the 'OK' button to confirm a selection or enter a submenu. Use the 'Back' button to return to the previous screen.

4.2 Reading and Clearing Codes (DTCs)

1. From the main menu, select 'OBDII' for cars or 'HD OBD' for heavy trucks.
2. Choose 'Read Codes' to display current, pending, and permanent Diagnostic Trouble Codes.
3. To clear codes, select 'Erase Codes'. Confirm the action when prompted. **Note:** Clearing codes will turn off the Check Engine Light but will not fix the underlying issue. Address the fault before clearing codes.

4.3 Live Data Stream

Select 'Data Stream' to view real-time sensor data from the vehicle's engine control unit (ECU). This can include engine RPM, vehicle speed, oxygen sensor readings, coolant temperature, and more. This function is useful for diagnosing intermittent problems.

4.4 I/M Readiness Status

The 'I/M Readiness' function checks the status of the vehicle's emission-related monitoring systems. This is crucial for emissions testing. A 'one-click' button is available for quick access to this feature.

ONE CLICK QUICK ACCESS I/M STATUS

I/M Readiness			
MIL		MIL	ComPr
DTC	16	DTC	24
MIS		MIS	
FUE		FUE	
CCM		CCM	
CAT		CAT	
HCAT		HCAT	

Quick check smoke readiness

Help	
Tool Information	
About OBD	
About Datastream	

Detailed interpretation of data functions

Battery	
Battery Volt	
12.3V	
Normal battery voltage, good battery status	

Timely understand the battery voltage status



Figure 4.1: The NC601's one-click I/M Readiness feature, showing the status of various emission monitors and a real-time battery voltage display.

4.5 Battery Test

Access the 'Battery' function to check the vehicle's battery voltage. This provides an indication of the battery's health and charging system performance.

4.6 Vehicle Information

The 'Vehicle Info' option allows you to retrieve information such as the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

OBD TRUCK SCAN **DIAGNOSTIC** TOOL



Figure 4.2: The NC601 performing diagnostics on a heavy truck, showing options for reading/erasing codes, data stream, and vehicle information.

5. MAINTENANCE

To ensure the longevity and optimal performance of your HUMZOR NC601 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 its protective case in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Inspect cables regularly for any signs of wear, cuts, or damage. Replace damaged cables immediately to prevent electrical hazards or diagnostic inaccuracies.
- **Software Updates:** Periodically check the HUMZOR official website for software updates to ensure your device has the latest vehicle coverage and diagnostic capabilities.

6. TROUBLESHOOTING

If you encounter issues while using your NC601 diagnostic tool, consider the following troubleshooting steps:

- **Device Does Not Power On:**
 - Ensure the diagnostic cable is securely connected to both the NC601 and the vehicle's DLC.
 - Verify that the vehicle's ignition is turned to the 'ON' position (engine can be off).
 - Check the vehicle's battery voltage. If the battery is too low, the device may not receive sufficient power.
- **Communication Error:**
 - Confirm the vehicle is OBDII compliant (for cars) or J1939 compliant (for heavy trucks).
 - Ensure the correct adapter (16-pin or 9-pin) is being used for the vehicle type.
 - Try connecting the device to a different compatible vehicle to rule out an issue with the original vehicle's OBD system.
 - Inspect the diagnostic cable for any damage.
- **Incorrect Readings or Frozen Screen:**
 - Restart the device by disconnecting and reconnecting it from the vehicle.
 - Ensure the device's software is up to date.

If these steps do not resolve the issue, please contact HUMZOR technical support for assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	NC601
Brand	HUMZOR
Power Source	Vehicle (12V/24V)
Operating System	Embedded Operating System
Screen Size	2.8 Inches
Native Resolution	320x240
Included Components	1 NC601 Host, 1 9-pin Adapter (J1939), 1 USB Connector, 1 Host Cable (16-pin), 1 Tool Box

8. WARRANTY AND SUPPORT

HUMZOR provides technical support and a worry-free return service for the NC601 diagnostic tool. If you encounter any problems during use or are not satisfied with the product, please contact the manufacturer or seller directly for assistance. For technical support, please refer to the contact information provided with your purchase or visit the official HUMZOR website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question