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› VXDIAG VCX Nano Diagnostic Programming System User Manual

VXDIAG GM / OPEL

VXDIAG VCX Nano Diagnostic Programming System User Manual

Model: GM / OPEL

1. INTRODUCTION

The VXDIAG VCX Nano is a vehicle communication interface designed for diagnostic and programming tasks on GM and Opel vehicles. This device supports various applications for diagnosing engines, transmissions, ABS, instrument panels, and more. It offers broad protocol support for mixed fleet capabilities and provides quick access to vehicle data for maintenance or management reports. The VCX Nano connects to the vehicle's diagnostic connector and can be used with a desktop PC or laptop.



Figure 1: VXDIAG VCX Nano connected to a vehicle's diagnostic port, illustrating its function in accessing vehicle systems.

2. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- VXDIAG VCX Nano Device
- USB Cable
- Software USB Drive (or download link)



Figure 2: Included components: the VXDIAG VCX Nano device, its USB connection cable, and the software media.

3. SETUP AND INSTALLATION

Follow these steps to set up your VXDIAG VCX Nano device and install the necessary software:

1. **System Requirements:** Ensure your computer meets the minimum requirements. A Windows operating system is required. For security, consider installing the software on a dedicated laptop or virtual machine.
2. **Software Installation:**
 - Insert the provided USB drive into your computer.
 - Locate and run the installer for VX Manager. This software manages the device drivers and licenses.
 - During installation, select the appropriate vehicle components (e.g., GM/Opel GDS2/Tech2Win) to install.
 - Follow the on-screen prompts to complete the installation. It may be necessary to temporarily disable antivirus software during installation, but re-enable it immediately afterward.
3. **Connect the Device:** Connect the VXDIAG VCX Nano to your computer using the provided USB cable. The device should light up, indicating power.
4. **Driver and Firmware Update:** Open the VX Manager software. Check for and install any available driver or firmware updates for your VCX Nano device to ensure optimal performance and compatibility.



Figure 3: Detailed view of the VXDIAG VCX Nano's connection points and indicator lights.

4. OPERATING INSTRUCTIONS

This section outlines the general procedure for using the VXDIAG VCX Nano for vehicle diagnostics.

1. **Connect to Vehicle:** Locate the OBD-II port in your vehicle (usually under the dashboard on the driver's side) and plug in the VXDIAG VCX Nano device.
2. **Power On Vehicle:** Turn the vehicle's ignition to the "ON" position (engine off).
3. **Launch Diagnostic Software:** Open the appropriate diagnostic software (e.g., GDS2 or Tech2Win) on your computer.
4. **Select Vehicle:** Within the software, select the correct vehicle manufacturer, model year, and engine type.

5. **Perform Diagnostics:** Navigate through the software menus to perform desired functions such as:

- Reading and clearing Diagnostic Trouble Codes (DTCs).
- Viewing live data streams from various sensors (e.g., engine speed, sensor voltages, fuel trim).
- Performing special functions like crankshaft position variation learn, key programming, or ECU programming.

Vehicle Coverage

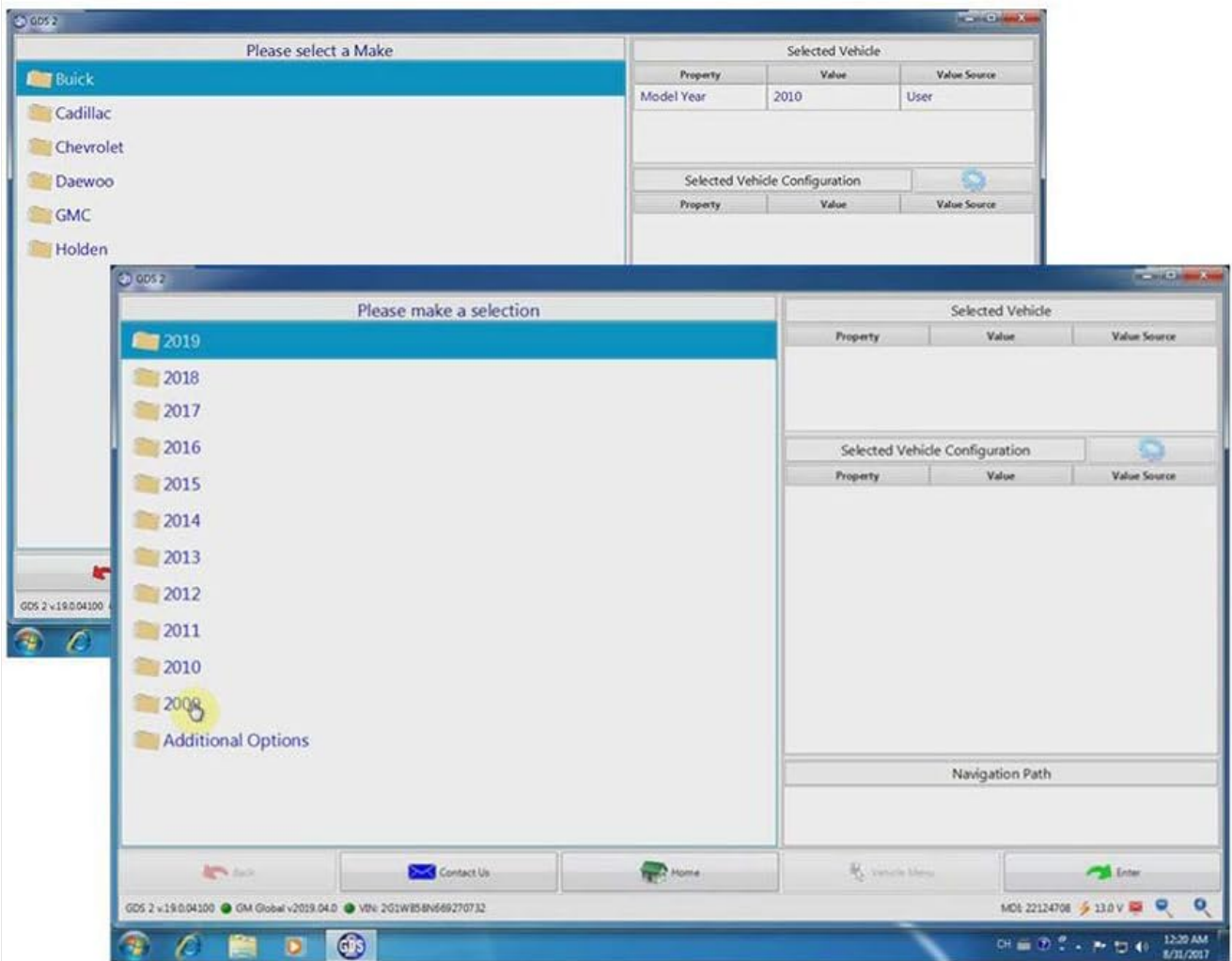


Figure 4: Software interface displaying vehicle model year selection for diagnostics.

VCX Nano GM Kit support both GDS & GDS2

GDS 2 works similar to the original GDS. easier and faster

- * Read codes,code status,Freeze Frame data and Clear Codes.
- * Programming and installation of new ECU (PCM,ABS,Instrument cluster, air bag, fuel pumps etc.,)
- * Programming new keys
- * Read VIN,ECU part numbers and software numbers.
- * Record, store and replay Stored data.
- * Control and monitor Output Control functions.
- * Configure and Reset functions.
- * Record or display history of the previous vehicle diagnostic sessions.



Figure 5: Overview of diagnostic capabilities, including ECU programming and code management.

Connecting Vehicles And Products



Figure 6: Visual representation of the device connecting a laptop to a vehicle for diagnostics.

Global Diagnostic System (tech2win & GDS2)

New Diagnostic Application Software required for all GM Global Architecture (Global A) Vehicles.



Figure 7: The device's compatibility with Global Diagnostic System (GDS2) and Tech2Win for comprehensive vehicle analysis.

5. MAINTENANCE

To ensure the longevity and proper functioning of your VXDIAG VCX Nano, adhere to the following maintenance guidelines:

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Software Updates:** Regularly check for and install software and firmware updates via the VX Manager to maintain compatibility with new vehicle models and diagnostic protocols.
- **Cable Care:** Avoid bending or crimping the USB cable excessively to prevent internal wire damage.

6. TROUBLESHOOTING

This section provides solutions to common issues encountered during the use of the VXDIAG VCX Nano.

Problem	Possible Cause	Solution
Device not recognized by computer.	Incorrect or missing drivers; faulty USB connection.	Ensure VX Manager is installed and drivers are updated. Try a different USB port or cable. Restart computer.
Software displays "License Error".	License not activated or expired.	Use VX Manager to update or renew the device license. Ensure internet connection is stable during license update.
Cannot connect to vehicle.	Vehicle ignition off; incorrect vehicle selection in software; device not properly plugged into OBD-II port.	Turn vehicle ignition to "ON". Verify vehicle details in software. Re-seat the device in the OBD-II port. Check vehicle battery voltage.
Software flagged as virus by antivirus.	False positive detection by antivirus software.	Add the software installation directory to your antivirus exclusion list. It is recommended to use a dedicated system for diagnostic work.

Your browser does not support the video tag.

Video 1: Demonstrates the setup process and basic diagnostic functions of the VXDIAG VCX Nano, including software installation and vehicle connection. This video provides a visual guide to common operational steps.

7. SPECIFICATIONS

Feature	Detail
Brand	VXDIAG
Model Number	GM / OPEL
Item Weight	9.1 ounces
Package Dimensions	6.93 x 5.24 x 1.85 inches
Operating System Compatibility	Windows
UPC	889327020133, 889327045303
Supported Protocols	SAE J2534, ISO 22900

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

Official Website: www.allscanner.com

Additional support resources may be available through the VX Manager software or online forums dedicated to VXDIAG products.