

LAUNCH X431 PRO3 APEX



LAUNCH X431 PRO3 APEX Diagnostic Scanner

User Instruction Manual

1. INTRODUCTION

The LAUNCH X431 PRO3 APEX is a professional-grade diagnostic scanner designed for comprehensive vehicle analysis and maintenance. This advanced tool features a 2025 Topology Map, Online Coding capabilities, support for HD Trucks, CAN FD & DoIP protocols, and Guided Functions. It is equipped to handle a wide range of diagnostic tasks, including all-system diagnostics, and offers over 50 service functions for various vehicle brands and models.

This manual provides detailed instructions on setting up, operating, maintaining, and troubleshooting your LAUNCH X431 PRO3 APEX diagnostic scanner to ensure optimal performance and longevity.

2. KEY FEATURES

- **One-Stop Intelligent Diagnosis:** Features a newly developed topology map for direct access to all systems, communication status checks, and DTC identification, streamlining the diagnostic process.
- **Powerful ECU Coding:** Supports ECU replacement, matching, relearning, recoding, online coding, personalization, and OE-setting customization. Includes VAG Guided Functions and PMI for Mazda/Ford.
- **Extensive Vehicle Coverage:** Compatible with over 200 brands and models from 1996-2024, supporting CAN FD & DoIP for faster data transfer. Includes FCA & Renault SGW access.
- **50+ Service Functions:** Comprehensive range of maintenance services including Oil Reset, EPB Reset, ABS Bleeding, TPMS Reset, Throttle Matching, and more.
- **All System Diagnostics & Bidirectional Control:** Performs dealership-level diagnostics across all accessible systems, reads/clears DTCs, views live data, and conducts active tests on various modules.
- **Expandable Modules:** Supports additional modules like X431 HDIII for heavy-duty trucks, BST360 battery tester, Videoscope, X431-PROG3, ADAS, Printer, Scopebox, and Multimeter.

X431 PRO3 APEX

LAUNCH

All-in-One Tool, All-Aspect Diagnostics

- ▶ Topology Map
- ▶ CAN FD & DoIP
- ▶ Guided Functions
- ▶ FCA SGW Vehicle

👍 OE-Level System Diagnostics

- 55+ Service Functions
- Bi-directional Control
- Online Coding
- Component Matching
- Personalization
- Customization
- ECU Replacement
- 10000+ Vehicle Coverage

🔴 24V Heavy Duty Truck Support

Note: You can buy extra DoIP adapters & HD3 diagnostic module if needed.



Figure 2.1: Overview of LAUNCH X431 PRO3 APEX key features including Topology Map, CAN FD & DoIP, Guided Functions, and OE-Level System Diagnostics.

3. SETUP GUIDE

3.1 Unboxing and Initial Inspection

Upon receiving your LAUNCH X431 PRO3 APEX, carefully open the packaging and inspect all components for any signs of damage. Ensure all items listed in the packing list are present.



Figure 3.1: The LAUNCH X431 PRO3 APEX scanner and its robust carrying case, ready for use.

3.2 Charging the Device

Before first use, fully charge the device. Connect the provided power adapter to the charging port on the scanner and plug it into a power outlet. The charging indicator will show the charging status. A full charge ensures stable operation during diagnostic procedures.

3.3 Powering On and Initial Configuration

Press and hold the power button to turn on the device. Follow the on-screen prompts to complete the initial setup, including language selection, Wi-Fi connection, and time zone settings. It is recommended to connect to a stable Wi-Fi network for software updates and online functions.



Figure 3.2: Rear view of the LAUNCH X431 PRO3 APEX, highlighting the power input and connectivity options.

4. OPERATING INSTRUCTIONS

4.1 Connecting to a Vehicle

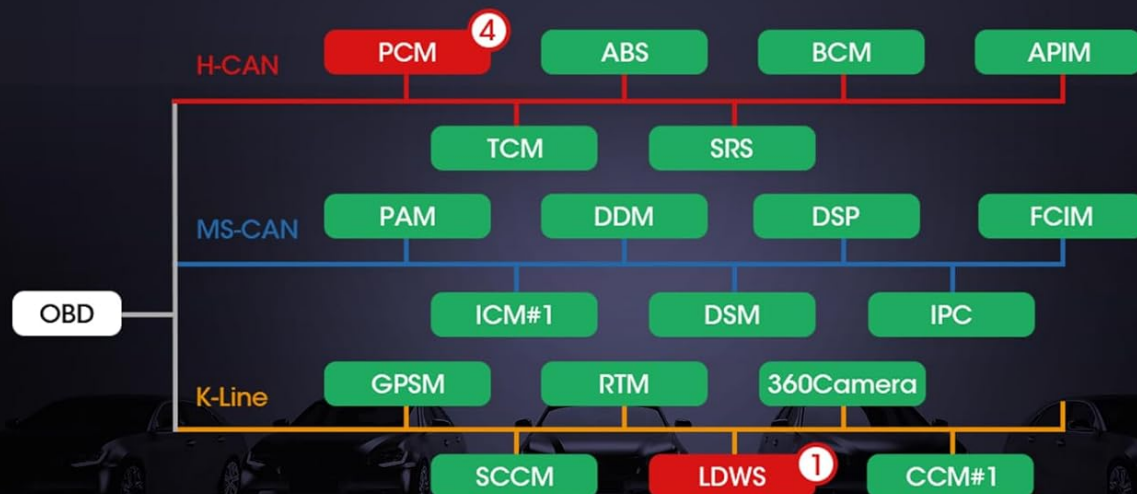
Locate the vehicle's OBD-II port (usually under the dashboard). Connect the diagnostic cable from the X431 PRO3 APEX to the vehicle's OBD-II port. Ensure the vehicle's ignition is in the ON position (engine off).

4.2 All System Diagnostics

From the main menu, select "Intelligent Diagnose" or "Local Diagnose". The scanner will automatically identify the vehicle's VIN and establish communication with all accessible electronic control units (ECUs). This process allows for reading and clearing Diagnostic Trouble Codes (DTCs), viewing live data streams, and retrieving ECU information.

TOPOLOGY MAPPING

Less Trouble-shooting Time, Streamline Diagnostic Process



One-Click Scanning of All ECUs



Visually Display System Structure



Fast to Access Relevant DTCs



Colors Show Different Modules

Figure 4.1: The Topology Mapping feature visually displays the system structure and communication status, aiding in quick problem identification.

4.3 ECU Coding

ECU Coding allows for advanced vehicle customization and module replacement. Navigate to the "ECU Coding" function. This feature can be used to match, relearn, or recode new modules, perform online coding, personalize vehicle settings, and restore failed coding operations. Always ensure you have a stable power supply and internet connection for online coding procedures.

ECU CODING

Hold More ECU Control, Make More Profits

Exclusive LAUNCH Features

- More Compatible Vehicles
- No-fee Coding Functionality
- Higher Diagnostic Accuracy
- Complete Data Supports
- Access OEM Code Data

Comprehensive ECU Solutions

- Refresh Hidden Functions
- Personalize Vehicle Functions
- Replace New/Used Modules
- Retrofit New ECU Module







Figure 4.2: Illustration of the ECU Coding function, detailing its ability to refresh hidden functions, personalize vehicle functions, and replace/retrofit modules.

4.4 Service Functions

The X431 PRO3 APEX offers over 50 common service and reset functions. Select "Service Function" from the main menu. Examples include:

- Oil Reset: Resets the engine oil life system.
- EPB Reset: Resets the electronic parking brake after brake pad replacement.
- ABS Bleeding: Performs bleeding of the brake system.
- TPMS Reset: Resets tire pressure monitoring system.
- Throttle Matching: Relearns the throttle body position.
- Gearbox Reset: Adapts the transmission control unit.

55+ HOT RESET FUNCTIONS

Later Free Updating Brings More New Services

Brake Reset



Oil Reset



EPB Reset



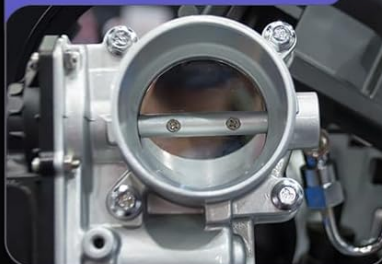
Gearbox Reset



Airbag



Throttle



- ABS Bleeding
- Gear Learning
- Suspension Reset
- Clutch Learning
- A/F Reset
- ADBLUE
- Coolant Bleed
- Headlamp
- Language Set
- NOX Reset
- Seat Calibration
- Transport Mode
- Tire Setting
- More...

Figure 4.3: Visual representation of various hot reset functions, including Brake Reset, Oil Reset, EPB Reset, Gearbox Reset, Airbag, and Throttle.

4.5 Bidirectional Control (Active Tests)

This function allows the diagnostic tool to send commands to vehicle systems to perform specific tests and functions, verifying component integrity. Examples include turning on/off the radiator fan, cycling ABS pump, opening/closing windows, and performing compression tests.

BI-DIRECTIONAL CONTROL

All-System Precision Scanning



Figure 4.4: Illustration of bidirectional control, demonstrating the scanner's ability to send commands and receive feedback from vehicle components like the radiator fan, lights, and windows.

4.6 Vehicle Coverage

The LAUNCH X431 PRO3 APEX supports over 200 vehicle brands and models from 1996 to 2024, including compatibility with newer CAN FD & DoIP protocols. It also provides access to secure gateways for FCA and Renault vehicles, ensuring broad diagnostic capabilities across a diverse range of automobiles.



Figure 4.5: The extensive vehicle coverage of the LAUNCH X431 PRO3 APEX, supporting over 200 brands and 99% of vehicles, including CAN FD & DoIP, FCA, and Renault SGW.

4.7 Guided Functions (VAG)

For Volkswagen Audi Group (VAG) vehicles, the X431 PRO3 APEX provides guided functions that simplify complex diagnostic and service procedures by providing step-by-step instructions.

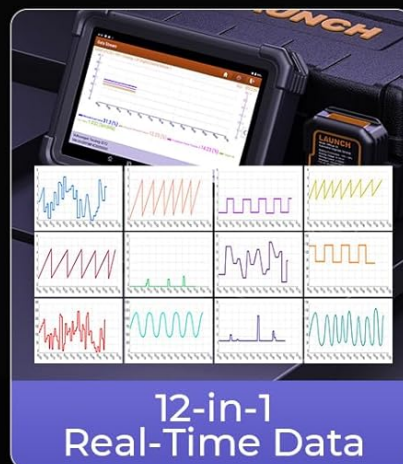
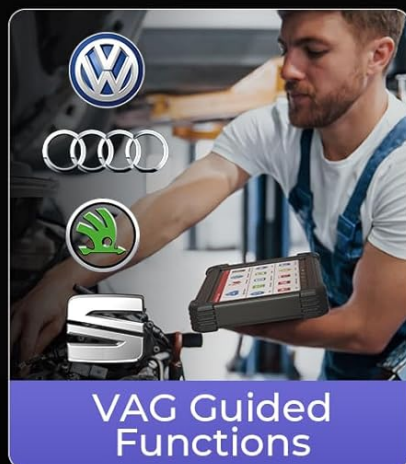
5. MAINTENANCE

5.1 Software Updates

Regular software updates are crucial for maintaining optimal performance, expanding vehicle coverage, and adding new features. Connect the device to a stable Wi-Fi network and navigate to the "Software Update" section. Follow the on-screen instructions to download and install available updates. It is recommended to perform updates regularly to ensure compatibility with the latest vehicle models and diagnostic protocols.

2025 NEW FEATURES

Intelligent Services Help Easier Repair



● ONE-CLICK UPDATING

One-click quick upgrade all software & adapter firmware.



Figure 5.1: The one-click updating interface, simplifying the process of keeping the scanner's software and firmware current.

5.2 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use. If storing for an extended period, ensure the battery is charged to approximately 50-70%.

5.3 Cleaning and Storage

Clean the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents. Store the scanner in its protective case in a clean, dry environment away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not pressed long enough; Device malfunction.	Charge the device fully. Press and hold the power button for 3-5 seconds. If problem persists, contact support.
Unable to connect to vehicle.	Loose OBD-II connection; Vehicle ignition off; Damaged cable; Vehicle communication protocol not supported.	Ensure cable is securely connected. Turn ignition to ON. Check cable for damage. Verify vehicle compatibility.
Software update fails.	Unstable Wi-Fi connection; Insufficient storage space; Server issues.	Ensure strong Wi-Fi. Clear some storage. Try updating later.
Slow operation or freezing.	Too many applications running; Low memory; Software glitch.	Close unnecessary applications. Restart the device. Perform a software update.

7. SPECIFICATIONS

Feature	Detail
Model Number	X431 PRO3 APEX
Operating System	Android 10.0
CPU	2.0GHz 4-Core
Memory	4GB RAM + 64GB Storage
Battery	6300mAh Lithium Ion (included)
Display	10.1-inch Touchscreen
Connectivity	2.4 & 5GHz Dual Wi-Fi
Dimensions	1.57 x 10.63 x 7.48 inches
Item Weight	18.13 pounds
Country of Origin	China

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The LAUNCH X431 PRO3 APEX comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

8.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact LAUNCH customer support. You can typically find contact information on the official LAUNCH website or through the "Info Center" application on your device. Regular software updates also provide access to repair tips, DTC help, and a technology handbook. You may also visit the official LAUNCH Store on Amazon for additional resources and support[LAUNCH Store](#)



Documents - LAUNCH – X431 PRO3 APEX



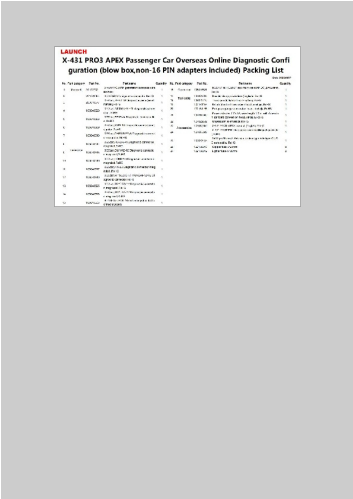
[\[pdf\]](#) User Manual Specifications Guide

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