

LAUNCH X431 PRO3 APEX

LAUNCH X431 PRO3 APEX OBD2 Scanner Instruction Manual

Model: X431 PRO3 APEX | Brand: LAUNCH

1. INTRODUCTION

The LAUNCH X431 PRO3 APEX is a professional-grade OBD2 diagnostic scanner designed for comprehensive vehicle analysis and maintenance. This advanced tool, an upgraded version of the X431 V+, incorporates cutting-edge features such as OEM Topology Mapping, Online Coding, CANFD, and DoIP support, ensuring compatibility with modern vehicles and efficient diagnostic workflows. It runs on Android 10.0, powered by a 2.0GHz 4-core CPU, offering robust performance for various diagnostic tasks.



Figure 1: The LAUNCH X431 PRO3 APEX diagnostic tool, showcasing its 10.1-inch screen and robust design.

2. SETUP

Before using your LAUNCH X431 PRO3 APEX, ensure all components are present and the device is properly prepared for operation.

2.1 Unboxing and Initial Inspection

Upon receiving your X431 PRO3 APEX, carefully open the packaging. The main unit, the DBScar VII VCI (Vehicle Communication Interface), various adapters, and cables are securely housed in a durable case. Inspect all items for any signs of damage during transit. A customer-provided video review (not embedded due to creator type) demonstrates the unboxing process, highlighting the secure packaging and included accessories.

2.2 Powering On and Charging

The device comes with a 6300mAh battery, providing extended operation. Connect the included power adapter to charge the unit fully before first use. The device operates on Android 10.0, and a fully charged battery ensures stable performance during diagnostic sessions.

2.3 Connecting to Vehicle

The X431 PRO3 APEX utilizes the DBScar VII VCI for wireless communication with the vehicle. Plug the DBScar VII into the vehicle's OBD2 port. The VCI communicates with the tablet via 2.4GHz & 5GHz dual WiFi, allowing for flexible movement around the vehicle. For vehicles not equipped with a standard 16-pin OBD2 port, various non-standard adapters are provided in a separate case.

BLUETOOTH SCANNER
BREAK FREE FROM LIMITATIONS
Intelligent BT Diagnostics with Unmatched Flexibility

- Power Indicator Light**
- Flashing Green Light**
VCI communicates with vehicle.
- Blue Light on-**
VCI connects to tablet wirelessly
- Red Light on -**
VCI connects to the tablet via cable

LAUNCH
Model: DBScar VII
Automotive Diagnosis Terminal
Working Environment: -10% ~ 50%
Working Voltage: 9-18V
Working Current: ≤150mA
Dimension: 118.3mm*69.5mm*32mm
FCC ID: XUJDBSCARVII

POWER
VEHICLE
I/O

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<http://www.cnlaunch.com>
<http://www.x431.com>
MADE IN CHINA

RoHS UK
CE FCC CA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

10m 33feet
Bluetooth connectivity

OBDII/EOBD

Figure 2: Illustration of the wireless Bluetooth connectivity between the DBScar VII VCI and the X431 PRO3 APEX tablet, enabling remote diagnostics up to 33 feet.

3. OPERATING THE LAUNCH X431 PRO3 APEX

The X431 PRO3 APEX offers a comprehensive suite of diagnostic and service functions. Below are key operational

aspects:

3.1 All System Diagnostics

The tool provides dealer-level diagnostics for all available vehicle systems. This includes reading and clearing Diagnostic Trouble Codes (DTCs), viewing live data streams, and performing active tests. The Auto VIN feature automatically identifies the vehicle, streamlining the diagnostic process.



Figure 3: Overview of the OE-level all system diagnostics and bi-directional control capabilities, including functions like Auto VIN, Read/Clear Codes, Live Data, and Active Tests for various vehicle components.

3.2 Topology Mapping

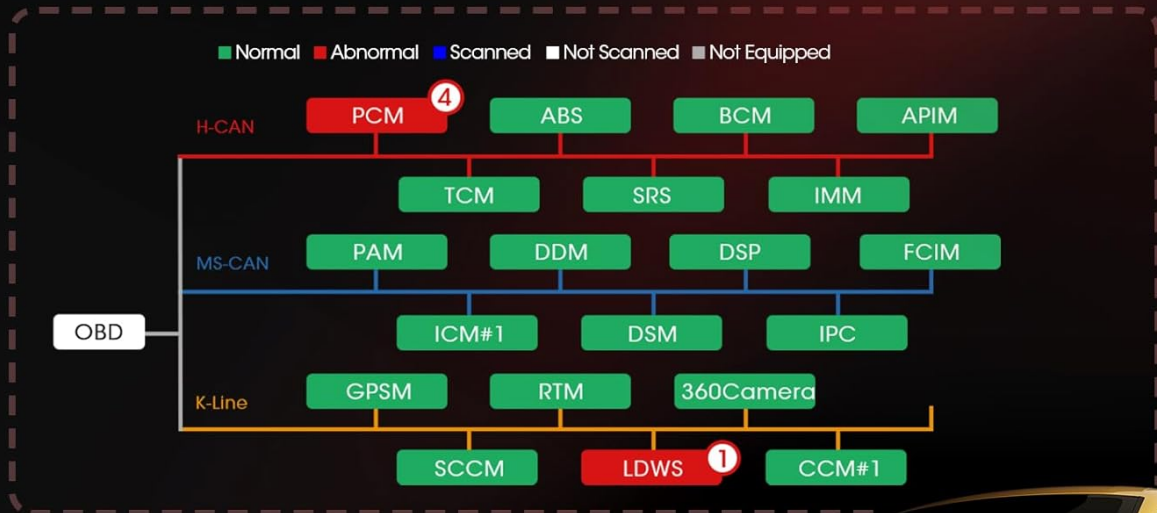
The intuitive Topology Map visually displays the communication structure of vehicle modules and their status. This feature allows for quick identification of faults and their locations within the vehicle's network, significantly improving diagnostic efficiency. Note that Topology Mapping availability may vary by vehicle model.

PRO3 APEX TOPOLOGY MAP

Intuitively Display Module Status for Quick Problems Identification

100% Efficiency Increased

50% Diagnostic Time Cut



Serve specific models

BMW	Benz	VW
Honda	Lexus	Nissan
Toyota	GM	Ford
Hyundai	etc.	

✉ launch-aftersales@outlook.com



Figure 4: A visual representation of the PRO3 APEX Topology Map, showing the status of various ECU modules (Normal, Abnormal, Scanned, Not Scanned, Not Equipped) for intuitive problem identification.

3.3 ECU Coding & Bidirectional Control

The X431 PRO3 APEX supports both online and offline ECU coding, enabling users to flash hidden functions, reset adaptive data, replace new modules, and customize OE-settings. Bidirectional control allows for active testing of components like windows, doors, wipers, lights, and mirrors, aiding in rapid problem isolation.

ONLINE & OFFLINE CODING

Customization & Personalization & Modification

When do we need ECU coding?

- 1 Match/learn/code the newly replaced ECUs
- 2 Program adaptive data into replaced PCM
- 3 Write code data to new ECU
- 4 Reflash hidden functions
- 5 Retrofit new module



Interior lights



Auto door lock/unlock



Rear mirror folding



Light brightness changing



A/C setting memory



Seat belt warning

Figure 5: Explanation of online and offline ECU coding, detailing scenarios where it's needed, such as matching newly replaced ECUs, programming adaptive data, and customizing vehicle settings.

3.4 Service Functions

Over 55 service functions are available, including but not limited to SAS Calibration, Injector Coding, Oil Reset, TPMS Reset, BMS Reset, Headlamp adjustment, and Win Dr.Roof functions. These functions assist in routine maintenance and specialized repairs.

55+ SERVICE FUNCTIONS

Keep Updating New Functions, Do More Than Your Expectation



SAS Calibration	Injector coding	Oil Reset	TPMS Reset
Throttle	BMS Reset	Headlamp	Win Dr.Roof

- High Voltage Battery Diagnostics
- Electronic Coding
- Battery Register/Maintenance
- Steering Angle Calibration
- Crank Position Sensor
- EPB Reset
- ABS Bleeding
- Idle relearn
- Stop/Start Reset
- More...



Figure 6: A selection of over 55 service functions offered by the X431 PRO3 APEX, including common resets and calibrations for various vehicle systems.

3.5 Remote Diagnostics and Data Stream

The tool supports exclusive LAUNCH Remote Diagnostics, enabling professional repair help from experienced technicians. It also provides a 12-in-1 data stream display, allowing for detailed analysis of multiple parameters simultaneously.

2025 NEW RELEASE - LAUNCH X431 PRO3 APEX

Remote Diagnostics & 12-in-1 Data Stream

- **LAUNCH Tool -**
Directly Work with LAUNCH Tools/PC
- **Experienced Technicians -**
Provide professional repair help
- **Remote Diagnosis -**
Resolve distance vehicle problems

12-in-1 Data Stream

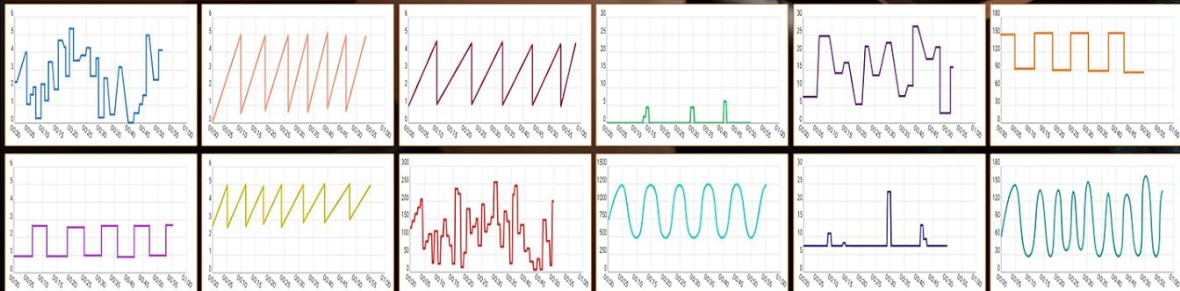


Figure 7: Depiction of the remote diagnostics capability and the 12-in-1 data stream feature, which allows for simultaneous monitoring of multiple vehicle parameters.

3.6 Add-on Tools

The X431 PRO3 APEX is expandable with various add-on tools (sold separately) such as BST360, Videoscope, X-PROG3, Scopebox, Sensorbox, Multimeter, ADAS calibration tools, and a WiFi Printer, further maximizing its functionality.

ADD-ON TOOLS + PRO3 APEX

Maximize Functionality & Value



Note: Add-on tools are sold separately.

Guiding Functions

- ✓ Step1
- ✓ Step2
- ✓ Step3
- ... OK

AutoAuth for FCA SGW

- [Online Account Login](#)
- [Online Coding](#)
- [Power Balance](#)
- [Online Parameterization](#)
- [Component Matching](#)
- [Online Calibration](#)
- [Personalization](#)
- [More...](#)

Figure 8: An illustration showing the various add-on tools compatible with the PRO3 APEX, which can be purchased separately to expand the diagnostic capabilities.

4. MAINTENANCE

To ensure the longevity and optimal performance of your LAUNCH X431 PRO3 APEX, regular maintenance is recommended:

- **Software Updates:** Regularly check for and install software updates to ensure compatibility with the latest vehicle models and access new features. The device includes 2 years of free updates.
- **Cleaning:** Keep the tablet screen and VCI clean using a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device and its accessories in the provided durable case when not in use to protect them from dust, moisture, and physical damage.
- **Battery Care:** Avoid completely draining the battery frequently. For long-term storage, ensure the battery is charged to about 50-70%.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your LAUNCH X431 PRO3 APEX:

5.1 Registration Failure

If registration fails, verify the following:

1. Ensure the serial number and registration code are correctly entered.
2. Confirm that your network connection is stable and working.
3. If all checks are normal, contact customer support with your device's serial number (found on the back of the unit) for assistance.

5.2 Communication Error with Vehicle ECU

If you experience communication errors with the vehicle's ECU, consider these points:

1. Check if the diagnostic connector (DBScar VII) is correctly and securely connected to the vehicle's OBD2 port.
2. Verify that the vehicle's ignition switch is in the ON position.
3. If all checks are normal, use the Feedback feature on the device to send your vehicle's year, make, model, and VIN number to customer support for further diagnosis.

6. SPECIFICATIONS

Feature	Specification
Brand	LAUNCH
Product Dimensions	10.78"L x 7.5"W x 1.55"H
Operating System	Android 10.0
Display Resolution	1280x800
Automotive Fit Type	Universal Fit
UPC	850052860189
Item Weight	18.66 pounds
Model Number	X431 PRO3 APEX
Date First Available	May 8, 2024

7. WARRANTY AND SUPPORT

LAUNCH is committed to providing reliable products and support. For any inquiries or issues, please refer to the following:

7.1 Protection Plans

Extended protection plans are available for purchase to safeguard your investment:

- 3-Year Protection Plan: \$99.99 (one-time)
- 4-Year Protection Plan: \$129.99 (one-time)
- Complete Protect: \$16.99/month (covers all eligible past and future purchases)

Additional 3-Year and 4-Year Protection Plans are also available at \$119.99 and \$149.99 respectively.

7.2 Manufacturer Support

For technical assistance, product information, or warranty claims, please contact LAUNCH customer support. Refer to the contact information provided in your product packaging or visit the official LAUNCH website.

Documents - LAUNCH – X431 PRO3 APEX



Version: V1.00.000
Revised date: 04-24-2023

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

User Guide Launch X431 PRO3 APEX OBD2 Scanner 2023 Wireless Diagnostic Tool with DBScar VII
OEM Topology Mapping Online Coding CANFD DoIP 37 Services AutoAuth FCA SGW HD Trucks Scan
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lang:en score:25 filesize: 8.82 M page_count: 75 document date: 2023-04-25

LAUNCH
X-431 PRO3 APEX Passenger Car Owners Online Diagnostic Configuration (Below You, scan 16 PIN adapters included) Packing List

No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.
1	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX
2	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX	LAUNCH X-431 PRO3 APEX
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[pdf] Documentation

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