

LAUNCH X431 PRO3S+ V5.0

LAUNCH X431 PRO3S+ V5.0 Automotive Diagnostic Scan Tool User Manual

Model: X431 PRO3S+ V5.0

1. INTRODUCTION

The LAUNCH X431 PRO3S+ V5.0 is an advanced automotive diagnostic scan tool designed for comprehensive vehicle analysis and maintenance. This device offers a wide range of functions including full system diagnostics, ECU coding, bidirectional control, and specialized service functions, supporting a broad spectrum of vehicle models and protocols.



Image 1.1: LAUNCH X431 PRO3S+ V5.0 main unit, VCI connector, and protective case.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x LAUNCH X431 Pro3S+ V5.0 Main Unit (Tablet)
- 1x DBSCAR VII Connector (VCI)
- 1x HD15M to OBDII 16 Adaptor
- 1x Type A to Type C USB Data Cable
- 1x Power Adapter (with US/UK/EU Plugs)
- 1x Quick Start Guide
- 1x User Manual
- 1x PIN Envelope
- 1x Inventory List



Image 2.1: Back view of the LAUNCH X431 PRO3S+ V5.0 tablet and DBSCAR VII VCI.

3. SETUP AND INITIAL USE

3.1 Powering On and Initial Configuration

1. **Charge the Device:** Connect the power adapter to the tablet and a power outlet. Ensure the device is fully charged before first use.
2. **Power On:** Press and hold the power button until the screen illuminates.
3. **Language Selection:** Follow the on-screen prompts to select your preferred language.
4. **Wi-Fi Connection:** Connect the device to a stable Wi-Fi network for software updates and online functions.
5. **Software Update:** Navigate to the 'Software Update' section and download any available updates to ensure optimal performance and the latest vehicle coverage.

3.2 Connecting to a Vehicle

1. **Locate OBD-II Port:** Identify the vehicle's OBD-II diagnostic port, typically located under the dashboard on the driver's side.
2. **Connect VCI:** Plug the DBSCAR VII connector into the vehicle's OBD-II port. The VCI indicator lights should illuminate.
3. **Pair VCI:** On the X431 PRO3S+ V5.0 tablet, ensure Bluetooth is enabled. The tablet will automatically attempt to pair with the DBSCAR VII connector. Confirm the connection when prompted.
4. **Turn Ignition On:** Switch the vehicle's ignition to the 'ON' position (engine off).

4. BASIC OPERATIONS

4.1 Vehicle Identification

The X431 PRO3S+ V5.0 offers multiple methods for vehicle identification:

- **Auto-VIN Scan:** Automatically identifies vehicle information (Brand, Year, Make, Model) for most 2006+ vehicles.
- **Camera VIN Scan:** Use the integrated camera to scan the vehicle's VIN.
- **Manual Input:** Enter the VIN manually.
- **Manual Selection:** Select vehicle details from a comprehensive menu.

4.2 Full System Diagnostics

After vehicle identification, select 'Diagnose' to perform a full system scan. The tool will automatically scan all available electronic control units (ECUs) for diagnostic trouble codes (DTCs) and display live data.

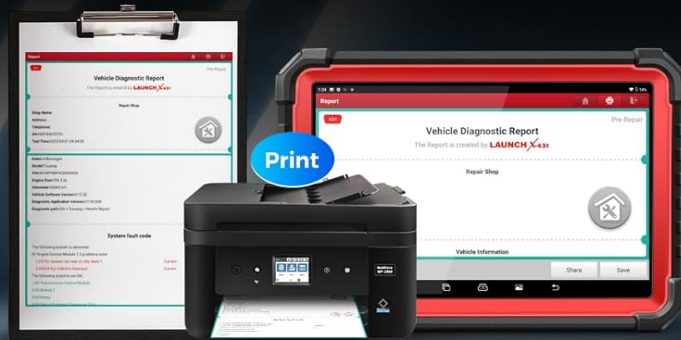
- **Read/Clear DTCs:** View and clear diagnostic trouble codes from all systems.
- **ECU Information:** Retrieve detailed information about each ECU.
- **Live Data Stream:** Display real-time data parameters in text or graph format. The tool supports 12-in-1 PID graphing for simultaneous monitoring.

MORE USER-FRIENDLY FUNCTIONS

Make Your Diagnostic Easier & Faster



PRE & POST SCAN REPORT



Pre-Scan Report

Prepare and send diagnostic reports before repairs

Post-Scan Report

Verify that all pre-repair issues have been fixed

Image 4.1: User interface showing various diagnostic and reporting features.

5. ADVANCED DIAGNOSTIC FUNCTIONS

5.1 Topology Mapping

The Topology Mapping feature provides a visual representation of the vehicle's module structure and communication network. Modules are color-coded to indicate their status (Normal, Abnormal, Scanned, Not Scanned, Not Equipped), allowing for quick identification of problematic areas.

ALL SYSTEMS DIAGNOSTICS

Customize OE-Settings, More In-Depth ECU Care

- ✓ Auto-VIN in Sec
- ✓ Auto All System Scan
- ✓ 12-IN-1 PIDS Graphic
- ✓ Detailed Report in Min
- ✓ Fast & Accurate

INTUITIVE TOPOLOGY MAPPING

█ Normal
 █ Abnormal
 █ Scanned
 █ Not Scanned
 █ Not Equipped

- Color-Coded**
for Easy Analysis
- One Click**
to Check All System
- Visually Check**
DTCs/Structure
- In Secs**
Accurately Located
Faults

Serve Specific Models: For BMW, Benz, VW, Honda, Lexus, Nissan, Toyota, GM, Ford, Hyundai, etc.

Image 5.1: Example of a topology map on the X431 PRO3S+ V5.0 screen.

5.2 ECU Coding

ECU Coding allows for modification of pre-programmed options within the vehicle's software. This includes:

- **Online Coding:** Connects to OEM servers for data when code data is lost (compatible with VW/Audi/Skoda/Ford/Lincoln/Mazda).
- **Variant/Offline Coding:** Adapts ECUs for different vehicle configurations (e.g., left-hand/right-hand drive, activating/deactivating software functions).
- **Component Matching:** Establishes communication between new ECU modules and existing systems after replacement.
- **Flash Hidden Functions:** Activates advanced features or disables certain functions (e.g., mirror automatic folding, disabling auto start-stop).
- **Customize OE-Settings:** Modifies original vehicle behavior (e.g., upgrading fog lamps, battery capacity changes).
- **PMI Function:** Allows copying data from an original module to a new unit for module replacement (for Ford/Lincoln/Mazda).

SUPERIOR ECU CODING

Customize OE-Settings, More In-Depth ECU Care



Component Matching



Flash Hidden Functions



Open/Close Comfort Functions



Modification & Retrofit



- Coding Backup/ Restore **(EX-Clusive!)**
- ECU Replacement
- Write a VIN to new ECU
- Transmission Quick Relearn
- Recode replacement parts to the Car
- Match/Relearn/Code the repalced ECUs

ECU Online Coding

ONLY For VW/Audi/Skoda/Ford/Lincoin/Mazda

- ▶ PMI Function (forFord/Lincoin..)
- ▶ Online Parameterization
- ▶ Online Matching & Calibration
- ▶ Online Account Login Service

...



Image 5.2: Overview of ECU Coding capabilities.

5.3 Service Functions (55+)

The tool provides over 55 specialized service functions for routine maintenance and repairs. These include, but are not limited to:

- Oil Reset
- Brake Reset (EPB)
- ABS Bleeding
- SAS Calibration (Steering Angle Sensor)
- Battery Matching (BMS)
- TPMS Reset
- DPF Regeneration
- Injector Coding
- Throttle Adaptation
- Crank Position Sensor Adaptive Learn
- Cylinder Power Balance Test

- Suspension Calibration

55+

SERVICE FUNCTIONS

Handle 99% Daily Repairs for 200+ Brands



Brake Reset



Oil Reset



Battery Matching



Power Balance



Seat Initialization



Suspension Reset

- Adaptive Front Lighting
- Nox Sensor Reset
- Crankshaft Relearn
- DPF Regeneration
- Gearbox Relearn
- Transport Mode
- ABS Bleeding
- Injector Coding
-

How to Get More:

Diagnostic → Brand → System → 100+ Special Function



Receive

Command

FULL BI-DIRECTIONAL

(ACTIVE TESTS)

- 👍 4000+ Active Tests
- 👍 Cover Most Car Modules
- 👍 Support 1996-2025 Models
- 👍 Instant Test Results



Parking Brake



Windows & Doors



Wiper Settings



Sunroof Setting

Image 5.3: Examples of service functions and bidirectional control.

5.4 Bidirectional Control (Active Tests)

Bidirectional control allows the tool to send commands to vehicle ECUs to perform specific tests on actuators. This helps in quickly pinpointing faulty components without disassembly. Examples include:

- EVAP Tests
- Fuel Injector Test
- Cooling Fan Test
- Operating Windows/Doors
- A/C Compressor Activation
- Wipers Test

5.5 Vehicle Coverage and Protocols

The X431 PRO3S+ V5.0 supports over 200 global brands and 200,000+ models from 1984-2025. Key protocol support includes:

- **CAN FD:** Compatible with 2019+ GM & Chrysler new models, offering faster data transfer.
- **DOIP:** Supports Volvo (2018+), Land Rover & Jaguar (2017+), BMW F&G chassis (requires adapter).
- **FCA AutoAuth:** Provides secure access to 2017+ FCA vehicles (Chrysler, Jeep, Dodge, Fiat) for diagnostics and maintenance (AutoAuth account purchased separately).
- **HD Trucks & NEVs:** Optional support for 24V heavy-duty trucks and New Energy Vehicles with additional modules.

ONE PRO3S+ V5.0

99% VEHICLE COVERAGE

200+ Brands
(1984-2025)

Support
HD Truck

200000+
Models

Use
Worldwide



200+ Brands(US/EU/Asia/AU...)
 For Toyota, Honda, Chevrolet, Ford, Benz,BMW,
 Audi, Renault, Land Rover, Volvo...



CAN FD
 For 2019+ GM & Chrysler New Models
 (eg. Grand Cherokee, CT4, CT5...)



DOIP(need adapter)
 For Volvo(2018+), Land Rover/Jaguar(2017+),
 BMW F/G Chassis



FCA AutoAuth
 For 2017+ FCA Cars(fit for Fiat, Alfa Romeo,
 Dodge, Jeep, etc.)



HD Truck
(Optional)



NEV
(Optional)



Some Motorcycle
Models(Mall)



Weekly
Upgrades



New Models
Supported

Image 5.4: Extensive vehicle coverage and protocol support.

6. DATA MANAGEMENT AND REPORTING

6.1 Live Data Stream

Monitor up to 12 data parameters simultaneously in graph format. Data can be recorded, played back, and exported as CSV or PDF files for detailed analysis.

6.2 Pre & Post Scan Reports

Generate detailed reports documenting vehicle conditions before and after repairs. These reports help verify that all issues have been resolved and can be shared or printed.

6.3 Diagnostic History

The tool automatically records all diagnostic processes, allowing quick access to previously tested vehicles and resuming operations without starting from scratch.

7. CONNECTIVITY AND EXPANSION

7.1 Remote Diagnostics

Connect with remote experts for assistance with complex vehicle issues. This feature allows for diagnostics of vehicles located remotely.

7.2 Extension Modules

The X431 PRO3S+ V5.0 supports integration with various optional add-on modules (sold separately) to expand its functionality:

- **X431 Smartlink C:** For heavy-duty truck diagnostics.
- **NEV Detection Expansion Package:** For New Energy Vehicle diagnostics.
- **i-TPMS:** For TPMS sensor programming and activation.
- **BST360 Battery Tester:** For battery health, starting, and charging system tests.
- **Videoscope (VSP600):** For inspecting inaccessible areas.
- **ADAS Calibration:** For calibrating Advanced Driver Assistance Systems.
- **O2-2 Oscilloscope:** For circuit signal acquisition and waveform display.
- **X-PROG3:** For engine and gearbox programming.

11+

EXTENSION X431 MODULES
Boom Your Business, To Be Your Powerful Helper(Sold Separately)

 Smartlink C HD Diagnose 24V heavy-duty trucks & commercial vehicles	 Smartlink C HD Diagnose 24V heavy-duty trucks & commercial vehicles	 NEV Detection Applies to detect new energy vehicles.	 i-TPMS TPMS programming, activation and relearn.
 O2-2 Oscilloscope Troubleshooting sensor, solenoids, actuators, etc.	 S2-2 Sensorbox Diagnose and simulator vehicle sensor faults.	 BST360 Perform battery & charging health tests.	 VSP600 Videoscope Inspect unreachable areas, able areas, king system, etc
ADAS Calibration	Multimeter(S2-2)	Wi-Fi Printer	X-PROG3
 100% Brand Original	 7/24/365 Tech Support	 60-DAY Refund / Return	 2-YEAR Free Update
			 24-MONTH Maintain

Image 7.1: Available extension modules for the X431 PRO3S+ V5.0.

8. MAINTENANCE

8.1 Software Updates

Regularly update the software to ensure the latest vehicle coverage, bug fixes, and new functions. The device provides 2 years of free updates. After this period, the device remains functional, but new updates will require a subscription.

8.2 General Care

- Keep the device clean and free from dust and moisture.
- Avoid dropping the device or exposing it to extreme temperatures.
- Store the device in its protective case when not in use.

9. TROUBLESHOOTING

For common issues, refer to the following:

- **Device not powering on:** Ensure the battery is charged. Connect the power adapter and try again.
- **VCI not connecting:** Verify the VCI is securely plugged into the OBD-II port and the vehicle's ignition is on. Check Bluetooth settings on the tablet.
- **Software freezing/crashing:** Restart the device. Ensure the software is up to date.
- **Incompatible models or abnormal functions:** Use the 'Online Diagnostic Feedback' feature to submit detailed descriptions to the LAUNCH team for analysis.

10. SPECIFICATIONS

Feature	Specification
Operating System	Android 10.0
Processor	2.0 GHz 4-Core CPU
Display	10.1-inch LCD Touchscreen (1280 x 800 resolution)
Memory (RAM)	4GB
Storage (ROM)	64GB
Battery	6300mAh Lithium Ion (up to 12+ hours operation)
Connectivity	2.4GHz & 5GHz Dual-band WiFi, Bluetooth
Camera	8MP Rear Camera
VCI Connector	DBSCAR VII (supports CAN FD)
Dimensions	15"L x 12.5"W x 17"H

Feature	Specification
Weight	15.97 pounds

TOP-NOTCH HARDWARE

10X Faster, Max Your Diagnostic Power

Android 10.0 OS

4GB ROM+64GB RAM

6300mAh Battery

10" Touchscreen

2.0 GHz 4-Core CPU

2.4&5 GHz Dual WiFi

8MP Camera

Wireless BT

DBScar VII: Wireless BT VCI

Wireless Connection, 10X Faster than Others

Support CAN-FD/DOIP

10X Faster Communication

33-66ft Wireless Range

More Stable & Wireless

Faster communication

Image 10.1: Hardware specifications of the X431 PRO3S+ V5.0.

11. WARRANTY AND SUPPORT

11.1 Warranty Information

The product comes with a 5-year warranty. For accessory replacements (e.g., USB charging cable, BT connector) within this period, contact customer support.

11.2 Software Updates

Enjoy 2 years of free software updates. After this period, the device will continue to function with the last updated version, but further updates will require a renewal subscription.

11.3 Customer Support

For any questions, technical assistance, or warranty claims, please contact customer support via email: obdbox21@163.com.

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Related Documents - X431 PRO3S+ V5.0

<p>FAQs for LAUNCH CRP919X BT</p> <p>Q: I connected LAUNCH TECH USA but didn't receive support.</p> <p>A: You can contact us directly via Amazon or our Customer Service Team at support@obdbox21.com. Please note that our products are original from LAUNCH TECH CO., LTD. The headquarters of LAUNCH TECH is in LAUNCH TECH USA is a branch in the USA, we are competitors and they do not provide after-sales service for products purchased and we feel free to reach out to us for any assistance.</p> <p>Q: My CRP919EBT won't charge or turn on.</p> <p>A: You can try troubleshooting the scanner and use the original USB cable for charging.</p> <p>Press the power and indicator "ON" button continuously until the battery vibrates, entering "Fast Mode".</p> <p>Select the Recovery mode (Fast) on using the volume buttons, confirm with the power button.</p> <p>Click the "Keep charging" button and then "Keep charge" button.</p> <p>Confirm each step with "Yes".</p> <p>Afterward, power off and then normally power on the device.</p> <p>Q: How do I register my CRP919EBT?</p> <p>A: To register, select "New Registration", follow the steps to create an account, and activate the VCI. Use the password email you received in the package.</p>	<p>LAUNCH CRP919X BT: FAQs, Troubleshooting, and Support</p> <p>Comprehensive FAQs for the LAUNCH CRP919X BT automotive diagnostic tool. Find answers on setup, software updates, language settings, troubleshooting charging issues, and more.</p>
<p>FAQs for LAUNCH CRP919EBT</p> <p>Q: Connected LAUNCH TECH USA but didn't get any support.</p> <p>A: Please contact us via Amazon or our Customer Service Team. Email address: support@obdbox21.com</p> <p>Our products are all original from LAUNCH TECH CO., LTD., which is the headquarters of LAUNCH TECH USA is only an internet branch of LAUNCH TECH in USA. Hence, we are competitors with LAUNCH TECH USA. Therefore, they will not give after-sales service to customers who bought the product from Amazon. Please feel free to contact us online or by mail.</p> <p>LAUNCH TECH USA</p> <p>Q: CRP919EBT can't charge when on.</p> <p>A: Follow the following steps to troubleshoot and use the original USB cable to charge the device.</p> <p>Step 1: Press the power button and indicator "ON" button at the same time, after the battery vibrates, select the power button and then select "Keep charging" button to enter the recovery mode.</p> <p>Step 2: Press the volume "Up" button "Keep charge" button, select the recovery mode selection and press the power button to confirm.</p> <p>Step 3: Select the power button, select "Yes" and then select the power button "Keep charging" button.</p>	<p>LAUNCH CRP919EBT FAQs and Troubleshooting Guide</p> <p>Frequently Asked Questions and troubleshooting steps for the LAUNCH CRP919EBT diagnostic scan tool, covering software updates, registration, password reset, and common issues.</p>
<p>Version: V5.0 (2025) First published: 2025-03-20</p>	<p>LAUNCH X431 PRO DYNO User Manual</p> <p>Comprehensive user manual for the LAUNCH X431 PRO DYNO OBD2 diagnostic scan tool, covering features like intelligent diagnosis, local diagnosis, remote diagnosis, service functions, software updates, and toolbox modules. Includes safety precautions and FCC statements.</p>
<p>FAQs for LAUNCH X431 PRO ELITE</p> <p>Before to register, you need to read the following instructions:</p> <p>1. Check the steps before to register and update.</p> <p>2. Tap the update icon in the bottom corner of the screen, and then tap the update icon in the bottom corner of the screen.</p> <p>3. If you are a new user, tap the Register icon in the bottom corner of the screen.</p> <p>4. Tap the Register icon in the bottom corner of the screen.</p> <p>5. Tap the Register icon in the bottom corner of the screen.</p> <p>6. Tap the Register icon in the bottom corner of the screen.</p> <p>7. Tap the Register icon in the bottom corner of the screen.</p> <p>8. Tap the Register icon in the bottom corner of the screen.</p> <p>9. Tap the Register icon in the bottom corner of the screen.</p> <p>10. Tap the Register icon in the bottom corner of the screen.</p>	<p>LAUNCH X431 PRO ELITE FAQs and User Guide</p> <p>Frequently asked questions and guidance for the LAUNCH X431 PRO ELITE automotive diagnostic tool, covering registration, updates, subscriptions, troubleshooting, and features.</p>
<p>LAUNCH</p> <p>AUTO Smart Diagnostic Tool</p> <p>Version: V5.0 (2025) First published: 2025-03-20</p>	<p>LAUNCH AUTO Smart Diagnostic Tool Quick Start Guide</p> <p>This guide provides instructions for setting up and using the LAUNCH AUTO Smart Diagnostic Tool, including charging, language settings, Wi-Fi setup, registration, and vehicle connection for diagnostics.</p>

FAQS for LAUNCH CRP919E

Q: How to install the OBD2 cable?
A: The OBD2 cable should be connected to the OBD2 port of the vehicle and the other end to the computer.

Q: How to update the software?
A: The software can be updated by connecting the OBD2 cable to the computer and using the software to update the software.

Q: How to use the software?
A: The software can be used to read the OBD2 data and to perform the diagnostic tests. The software can also be used to update the software and to perform the diagnostic tests.

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A: The software can be used to read the OBD2 data and to perform the diagnostic tests. The software can also be used to update the software and to perform the diagnostic tests.

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[LAUNCH CRP919E FAQs: Your Guide to Advanced Automotive Diagnostics](#)

Frequently Asked Questions about the LAUNCH CRP919E OBD2 scanner, covering usage, updates, features like bidirectional control, ECU coding, special services, and troubleshooting.