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## LAUNCH X431 PRO Star

# LAUNCH X431 PRO Star Bidirectional Scan Tool User Manual

Model: X431 PRO Star | Brand: LAUNCH

## 1. INTRODUCTION

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The LAUNCH X431 PRO Star is an advanced automotive diagnostic scan tool designed for comprehensive vehicle system analysis, maintenance, and programming. This manual provides detailed instructions for setting up, operating, and maintaining your device to ensure optimal performance and accurate diagnostics.

## 2. WHAT'S IN THE BOX

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Verify that all items listed below are present in your package:

- 1 x LAUNCH X431 Pro Star Bidirectional Scan Tool
- 1 x AC Adapter
- 1 x Main Cable
- 1 x USB Cable
- 1 x UK Adapter
- 1 x EU Adapter
- 1 x US Adapter
- 1 x User Manual
- 1 x Quick Guide
- 1 x Rubber Suitcase
- 1 x PIN Envelope

# SUPPORT FOR CAN-FD & DoIP

Supports multiple automotive protocols for efficient and safe interaction between diagnostic tools and vehicle systems.

## CAN-FD **NEW**

- For GM (2019-Present)

## DoIP **NEW**

- For BMW,
- Volvo (2018-Present)
- Land Rover (2017-Present)

Figure 2.1: LAUNCH X431 PRO Star package contents.

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Video 2.1: Unboxing the LAUNCH X431 PRO Star scanner, showing the protective case and included accessories.

## 3. SETUP

### 3.1 Initial Device Preparation

1. **Charge the Device:** Connect the AC adapter to the scanner and a power outlet. Ensure the device is fully charged before first use.
2. **Power On:** Press and hold the power button located on the side of the device until the screen illuminates.
3. **Language Selection:** Follow the on-screen prompts to select your preferred language. The device supports 25+ languages.
4. **Wi-Fi Connection:** Connect the device to a stable Wi-Fi network to enable software updates and online features.
5. **Registration and Activation:** Create an account and register your device as prompted. This is necessary for updates and full functionality.
6. **Software Updates:** After registration, navigate to the "Software Update" section and download all available updates to ensure your device has the latest vehicle coverage and features.

### 3.2 Connecting to a Vehicle

1. **Locate the OBD-II Port:** The OBD-II port is typically located under the dashboard on the driver's side.
2. **Connect the Diagnostic Cable:** Plug one end of the diagnostic cable into the scanner's D-shell port and the other end into the vehicle's OBD-II port.
3. **Turn On Vehicle Ignition:** Turn the vehicle's ignition to the "ON" position (engine off).

# LAUNCH X431 PRO STAR DIAGNOSTIC TOOL

2024 Full Bidirectional & ECU Coding for All Cars

**3500+** Bi-directional Controls

**VAG** Guided Functions

**ALL** model ECU Coding

**IMMO** Anti-theft Programming

**37+** Hot Service Resets

**PMI** Programmable Module

## ALL-IN-ONE DIAGNOSTICS

- All Systems Diagnosis
- Support DOIP & CAN FD
- Support FCA Auto Auth
- 90+ Car Brands Coverage
- Support 15+ Languages
- Refresh Hidden Functions
- 8+ Extended Functions

**2025 NEWEST**



  
Android  
10.0

  
4 Quad  
Core 2GHz

  
8"  
1280x800

  
4GB  
RAM

  
64GB  
ROM

  
800W  
Rear Camera

  
6100  
mAh

  
2.4 \*5G  
WIFI

Figure 3.1: LAUNCH X431 PRO Star connected to a vehicle.

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Video 3.1: Hands-on demonstration of connecting the LAUNCH X431 PRO Star to a vehicle and navigating the main interface.

## 4. OPERATING THE DEVICE

### 4.1 Intelligent Vehicle Identification (Auto VIN)

The Auto VIN feature automatically identifies vehicle information, streamlining the diagnostic process.

1. From the main menu, select "Intelligent Diagnose".
2. The device will attempt to connect to the VCI (Vehicle Communication Interface) and read the VIN.
3. Confirm the decoded VIN and vehicle information displayed on the screen.

## BIDIRECTIONAL CONTROL/ACTIVE TEST

Perform Vehicle-Specific Active Tests to Quickly Pinpoint Car Fault Components



Figure 4.1: Auto VIN and Auto Scan feature.

### 4.2 Full System Diagnostics

Perform a comprehensive scan across all available vehicle systems to read and clear diagnostic trouble codes (DTCs), view live data, and generate health reports.

1. After vehicle identification, select "Diagnostic" or "System Scan".
2. The device will scan all electronic control units (ECUs) such as Engine, Transmission, ABS, SRS, SAS, Chassis, HVAC, Fuel, Radio, and more.
3. Review the health report, which provides an overview of system status and any detected DTCs.
4. Select specific systems to view detailed information, freeze frame data, or live data streams.

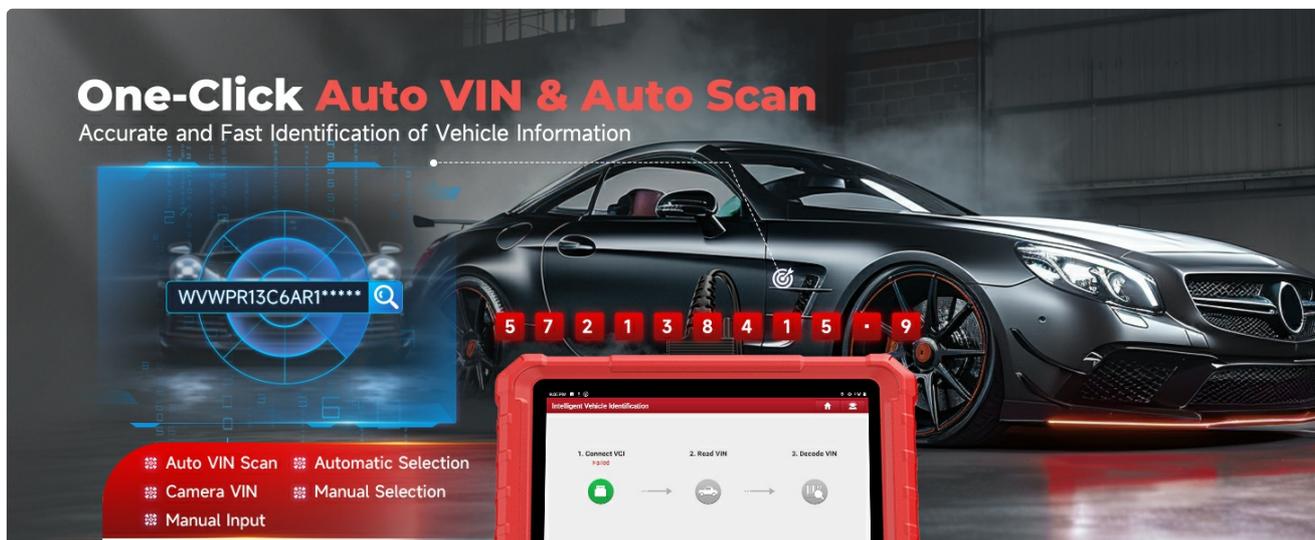


Figure 4.2: OE-Level All System Diagnostic overview.

### 4.3 Bi-Directional Control / Active Test

This function allows you to send commands to vehicle components to test their functionality directly, aiding in precise fault identification.

1. From the diagnostic menu for a specific system, select "Actuation Test" or "Active Test".
2. Choose the component you wish to test (e.g., ABS pump, fuel pump, windows, mirrors, lights, cooling fan).
3. Follow the on-screen instructions to activate or deactivate the component and observe its response.

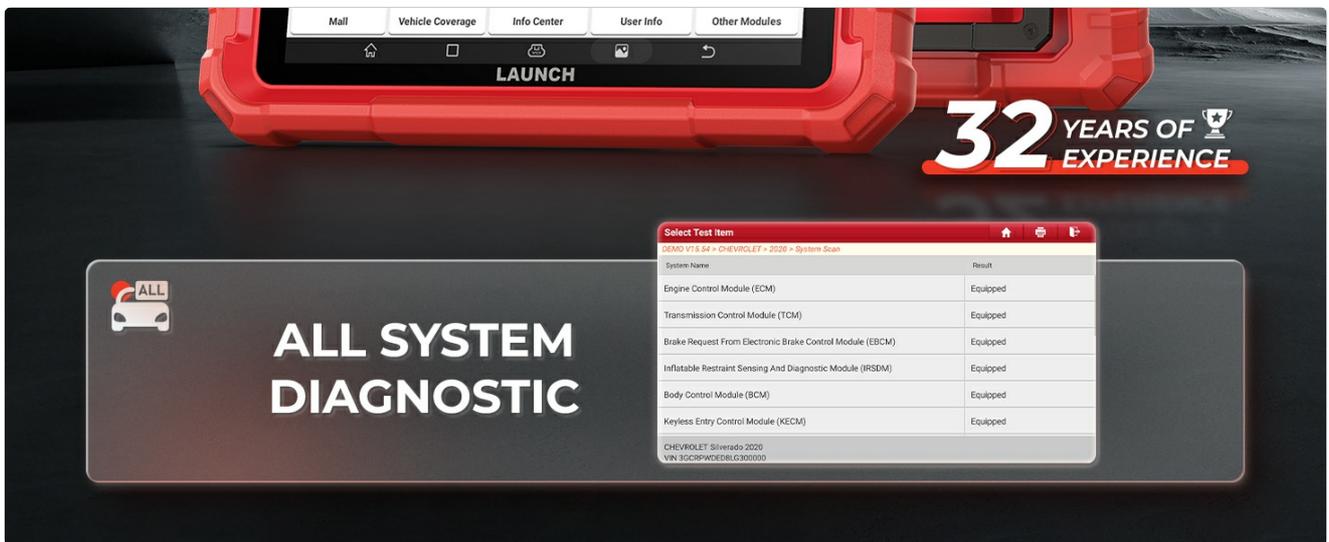


Figure 4.3: Bi-directional control and active test capabilities.

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Video 4.1: Demonstration of active tests, including operating a vehicle window using the scanner.

## 4.4 ECU Coding

The ECU Coding function allows for matching, relearning, and coding new ECUs after repair or replacement. It also enables activation of high-end functions, disabling unwanted features, and personalizing vehicle settings.

- **Component Matching:** Write VIN to new ECU, record replacement parts, gearbox matching, transmission relearn.
- **Customization:** Customize OE-settings, flash hidden functions, disable annoying functions.
- Supports 95% online ECU coding.
- New-added PMI for Ford/Lincoln/Mazda to transfer data into new modules.

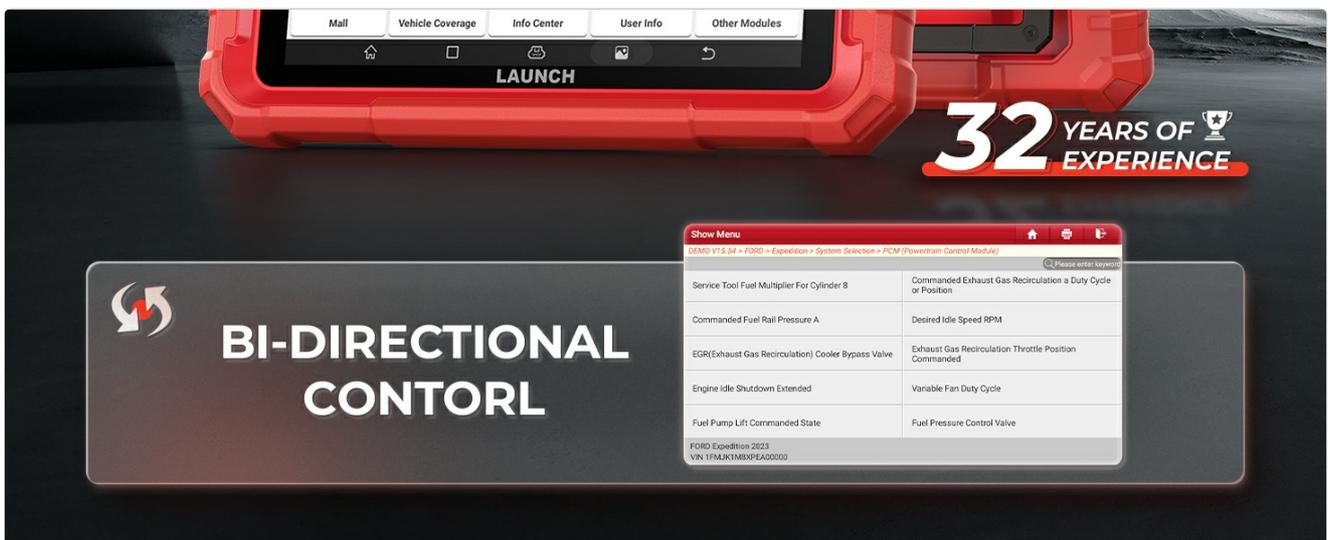


Figure 4.4: Advanced ECU Coding features.

## 4.5 Service Functions (Resets)

The device offers over 38 maintenance reset functions, covering a wide range of vehicle services:

- Oil Reset
- TPMS Reset
- EPB (Electronic Parking Brake) Reset

- SAS (Steering Angle Sensor) Reset
- BMS (Battery Management System) Reset
- ABS Bleeding
- Throttle Reset
- DPF/GPF Regeneration
- AdBlue Reset
- Injector Coding
- Power Balance
- NOx Sensor Reset
- A/F Reset
- Stop/Start Reset
- Gearbox Relearn
- Crankshaft Relearn
- Language Change
- And many more.

*Note: Availability of specific functions may vary by vehicle model and year.*

# 37+ Hot Services

Access to specific systems allows you to unlock 1500+ sub-functions



Oil Reset



ABS Bleeding



SAS Reset



Battery Matching



Brake Reset



DPF Regen



Electric Throttle Relearn



Injector Coding



Tire Reset



AdBlue Reset



Air/Fuel Reset



Coolant Bleed



EGR Adaption



Gearbox Relearn



Immobilizer Reset



NOx Sensor Reset



Seat Calibration



Sunroof Reset



Windows Calibration



More...



**Note:**

Menu vary by vehicles, please confirm with us before purchase

Figure 4.5: Overview of 38+ hot service functions.

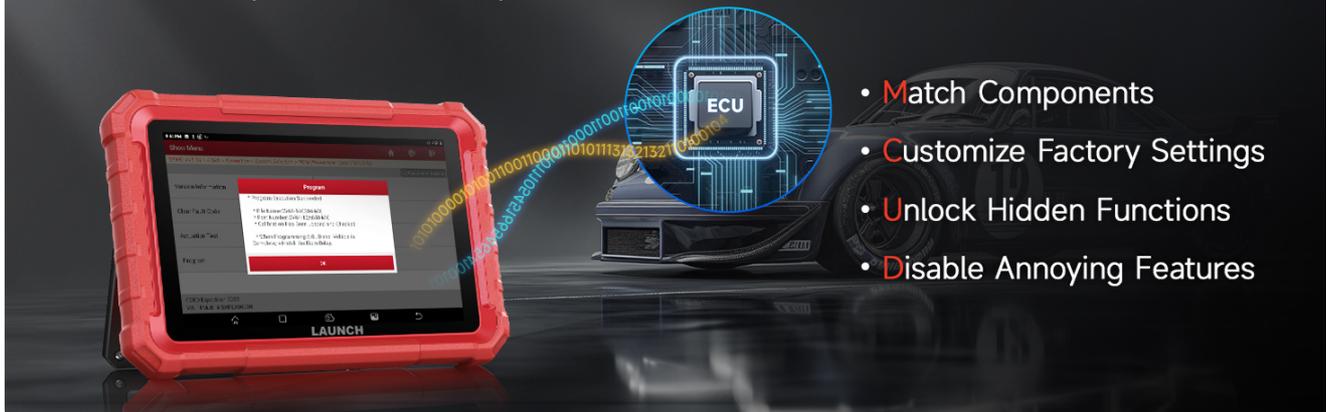
## 4.6 IMMO / Anti-theft Programming

This feature allows for key programming and anti-theft system management, including reading PIN codes, adding new keys/fobs, anti-theft matching, remote learning, and disabling lost keys.

*Note: This function is primarily for vehicles with easy IMMO systems and its availability varies by vehicle.*

## ALWAYS-ON ECU CODING POWER

Execute ECU coding online, offline, or through cloud programming with one tool.  
Ideal for workshop workflows and field repairs



- Match Components
- Customize Factory Settings
- Unlock Hidden Functions
- Disable Annoying Features

Figure 4.6: IMMO/Anti-theft Programming features.

### 4.7 VAG Guided Functions

For Volkswagen Group vehicles (Volkswagen and Audi), the device provides professional guided functions with detailed operating instructions for automatic login, matching, settings, coding, and more.



**Note:** Only for cars with easy IMMO systems and varies across vehicles.

Figure 4.7: VAG Guided Function for Volkswagen and Audi vehicles.

### 4.8 Vehicle Compatibility and Protocols

The LAUNCH X431 PRO Star supports over 200,000 vehicles worldwide, including 12V sedans, SUVs, hybrids, and light-duty trucks. It is compatible with all standard OBDII, EOBD, and JOBD protocol vehicles.

- **CAN FD:** Supports 2020+ GM vehicles.
- **DOIP:** Supports BMW (F & G chassis), Volvo (2018+), Land Rover & Jaguar (2017+).
- **FCA AutoAuth:** For 2017+ Chrysler, Jeep, Dodge, Fiat & Renault vehicles with Secure Gateway Module (SGW), allowing diagnostics and bi-directional features without a bypass cable.

## OE-Level All System Diagnostic

Easy Access to All Available Systems, Subsystems and Modules on the Vehicle



Figure 4.8: Wide vehicle coverage and protocol support.

### 4.9 Data Stream and Health Report

The device provides 8-in-1 live data graphing, allowing you to monitor multiple parameters simultaneously. The one-click health report scans all systems, reads and clears codes, and generates a detailed report that can be saved or shared.

# COMPLETE BI-DIRECTIONAL CONTROL/ACTIVE TEST

Run active test, Send commands to ECU, Monitor component Operation, Locate car issue precisely

○ Evap System Test	○ Activate Radiator Shutter	○ Parking Lock Hook Test
○ Fuel Injector Test	○ Power Balance Test	○ LGM Open/Close Test
○ Cycling A/C Clutch Relay	○ A/C Compressor Activation	○ Gear Clutch Test
○ Cooling Fan Test	○ Acceleration Device Test	○ Anti-Theft Override Test
○ Turn On The Radiator Fan	○ Solenoid Control Test	○ Audio System Test
○ Modulate The Throttle	○ Driver Seat Test	○ Cylinder Balance Test
○ Compression Test	○ Open Brakes Test	○ Hydraulic Value Test
○ Oil Pressure Control Test	○ Fuel Pressure Test	○ Injector Circuit Test
○ Injector Buzz Test		

Figure 4.9: Real-time live data stream display.

## 5. MAINTENANCE

- **Software Updates:** Regularly connect your device to Wi-Fi and check for software updates to ensure optimal performance and access to the latest vehicle data and functions.
- **Battery Care:** Charge the device regularly. Avoid completely draining the battery or leaving it uncharged for extended periods.
- **Cleaning:** Use a soft, damp cloth to clean the screen and exterior of the device. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device in its protective case in a cool, dry place when not in use.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your LAUNCH X431 PRO Star.

- **Device Not Powering On:**

- Ensure the device is fully charged. Connect it to the AC adapter and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the power button is pressed and held for the required duration (typically 1-2 seconds).

- **No Communication with Vehicle:**

- Check that the diagnostic cable is securely connected to both the scanner and the vehicle's OBD-II port.
- Ensure the vehicle's ignition is in the "ON" position (engine off).
- Verify the vehicle's battery has sufficient charge.
- Confirm that the vehicle model and year are correctly selected in the diagnostic software.

- **Software Freezes or Crashes:**

- Restart the device.
- Ensure the software is up-to-date. Perform a software update if available.
- Clear the cache of the diagnostic application if the issue persists.

- **Slow Operation:**

- Close any unnecessary background applications.
- Ensure sufficient storage space is available on the device.
- Perform regular software updates.

## 6.1 Remote Diagnostic Support

The LAUNCH X431 PRO Star features remote diagnostic capabilities, allowing you to connect with technicians for assistance using LAUNCH X431 software. This enables real-time guidance for repairs.



Figure 6.1: Remote Diagnostic feature.

## 7. SPECIFICATIONS

Feature	Detail
Brand	LAUNCH

Feature	Detail
Model	X431 PRO Star
Power Source	Battery Powered & Corded Electric
Operating System	Android 10.0
Screen Size	8 Inches (1280x800 LCD)
CPU	2.0GHz Quad-core
RAM	4GB
Storage	64GB
Camera	8MP Rear
Battery	6000mAh
Wi-Fi	5G/2.4GHz Dual-band
Vehicle Coverage	200,000+ vehicles (1996-2024)
Supported Protocols	CAN FD, DOIP, FCA AutoAuth, OBDII, EOBD, JOBD
Languages	25+

## 8. WARRANTY AND SUPPORT

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- **Warranty:** The product comes with a 2-year warranty. LAUNCH stands behind its quality and will resolve manufacturer defects within 5 years.
- **Software Upgrades:** Enjoy 2 years of unlimited software upgrades to keep your device current with new models and optimizations.
- **Technical Assistance:** 24/7 technical assistance is available. For any issues, please contact the customer service team with your car VIN, serial number, and specific problem details.
- **Returns:** Amazon's 30-day return policy handles immediate concerns.

## Excellent LAUNCH Team

Warm Notes: If You Meet Any Issues, Please Come to Us via  
and Provide US with the Car VIN, S/N, Specific Issues

**24/7**

Tech Assistance

**30DAYS**

F-ree Return

**2Year**

W-arranty

**2Year**

Unlimited Upgrades

- ✓ Regular Update with New Models
- ✓ Regular Optimization
- ✓ Increased Performance



Figure 8.1: Warranty and support information.