

LAUNCH X431 IM** PLUS

LAUNCH X431 IMMO Plus Diagnostic Tool User Manual

Model: X431 IM** PLUS

1. INTRODUCTION

The LAUNCH X431 IMMO Plus is a professional-grade automotive diagnostic and key programming tool designed for comprehensive vehicle maintenance and repair. This all-in-one device integrates advanced functions such as key matching, ECU coding, all-system diagnostics, and bidirectional control, providing extensive coverage for a wide range of vehicle models.

It is equipped with the X-PROG3 programmer for advanced immobilizer functions and supports various protocols including CANFD and DOIP. This manual provides essential information for setting up, operating, and maintaining your LAUNCH X431 IMMO Plus.

2. PRODUCT COMPONENTS AND SETUP

2.1. What's in the Box

The LAUNCH X431 IMMO Plus package includes the following main components:

- Display tablet (main unit)
- VCI Connector
- Diagnostic Cable
- X-PROG3 Kit (includes X-PROG3 unit, MCU1 & MCU2 adapters, EEPROM adapter, XTA001 adapter)
- Power Adaptor
- Cigarette Lighter Cable
- OBD I Adaptor Box
- Non-16pin Adaptor Cable Kit
- Password Envelope (for initial setup/registration)



Figure 2.1: Overview of the LAUNCH X431 IMMO Plus main unit, X-PROG3, DBSCAR VII VCI, and various cables and adapters, all neatly organized within their respective carry cases.

X431 PROG3 Programmer

Easily Backup/Restores ECU Data After Replacing New or Used ECU



Figure 2.2: The X-PROG3 programmer, a key component for immobilizer and key programming, shown with its associated MCU1, MCU2, and EEPROM adapters for reading and writing chip data.

2.2. Initial Setup and Power On

1. **Charge the Device:** Before first use, ensure the main display tablet is fully charged using the provided power adapter.
2. **Power On:** Press and hold the power button on the tablet to turn it on. The device runs on Android 10.0.
3. **Network Connection:** Connect the tablet to a stable Wi-Fi network to enable software updates and online functions.
4. **Registration:** Follow the on-screen prompts to register your device. This typically involves creating a LAUNCH account.
5. **NASTF Authorization (Important for IMMO functions in US/Canada):** For users in the United States and Canada, specific 1-M-M-0 related functions require logging into a NASTF VSPID account. After December 4, 2024, you may need to purchase NASTF functions authorization on the device (approx. \$49.99) and log in to your registered NASTF VSPID account to continue using these features. More information can be found at wp.nastf.org and aviondemand.wistia.com/folders/3x561d5r6f.

3. OPERATING THE DEVICE

3.1. General Diagnostic Functions

The LAUNCH X431 IMMO Plus offers OE-level diagnostic capabilities for nearly all vehicle systems across 200+ car brands and 20,000+ models. Key diagnostic features include:

- **Read/Clear DTCs:** Retrieve and erase Diagnostic Trouble Codes from all Electronic Control Units (ECUs).
- **Live Data Streaming:** View real-time data streams from various sensors and components, often with graphical display for trend analysis.
- **Auto VIN:** Automatically identify vehicle information (make, model, year, engine type).
- **Auto Scan:** Perform a comprehensive scan of all control modules for fault codes.
- **Freeze Frame Data:** Review vehicle conditions at the moment a fault occurred.
- **Diagnostic Report:** Automatically generate detailed diagnostic reports for analysis and record-keeping.

OE-LEVEL SUPER FAST ACCURATE DIAGNOSTIC

3000+ Active Tests/ Full Bidirectional Control

1 Click All Scan

1 Click Clear DTC

4in1 Live Data

- 7000+ Generic & OE DTCs
- ECU Information

Radiator fan on/off

Injector Test

Win Door Roof Test

Throttle Test

Turn on/off the lights

Fuel Heater on/off

Figure 3.1: The diagnostic tool's ability to perform a full-system scan, read/clear codes, view live data, and conduct active tests for comprehensive vehicle assessment.

3.2. Key Programming and Immobilizer Functions

The X431 IMMO Plus, combined with the X-PROG3 programmer, provides extensive immobilizer and key programming capabilities:

- **Key Matching/Adding/Copying/Deleting:** Perform various key-related operations for brands like BMW, Benz, VW, and Porsche.
- **PIN Reading:** Retrieve PIN codes for all-key-lost scenarios for Toyota, Volvo, Citroen, Peugeot, and VW.
- **ECU Cloning (Engine & Gearbox):** Backup and restore data, and clone Engine/Gearbox ECUs for over 5000 models, including Bosch, Continental, Siemens, and Delco brands.
- **Module Replacement:** Facilitate the replacement of various control modules.
- **EEPROM/MCU Chip Data Read/Write:** Directly read and write data from EEPROM and MCU/ECU chips.

Powerful IMM* Solutions

Outperform Competitors with 98% Coverage

✓ Read PIN	✓ Module Data Wiping
✓ All Lost/Add	✓ Multiple Module
✓ k** matching	✓ Replacement

Message us to know more:
Tech_Launchoriginal@outlook.com

Figure 3.2: The powerful IMMO solutions offered by the device, including PIN reading, all-key-lost/add functions, key matching, module data wiping, and replacement capabilities.

3.3. ECU Coding and Advanced Functions

The device supports advanced ECU coding and customization features:

- **ECU Coding:** Reprogram adaptive data for ECUs after repairs or replacements.
- **Customization:** Modify pre-programmed options to activate hidden functions or deactivate unneeded features (e.g., auto start-stop, chimes).
- **VAG Guided Functions:** Step-by-step instructions for common repairs and adaptations for Volkswagen Group vehicles, including component coding and security access.
- **AutoAuth for FCA SGW:** Seamlessly perform diagnostics for Fiat Chrysler Automobiles (FCA) vehicles with Secure Gateway Module by logging into your AUTOAUTH account on the device.
- **CANFD & DOIP Protocol Support:** Compatible with newer vehicle communication protocols for faster and more efficient data transmission.



Advanced ECU Coding

Configuring or Reprogramming the ECU in A Vehicle

- ✓ **ECU Coding**
 - ✓ Match the component control modules
 - ✓ Customize the OE-settings
 - ✓ Disable some functions
 - ✓ Activate advanced functions
 - ✓ Enhance the vehicle comfortability



Repair OE-specific Issues



Update ECU software



Fix ECU Software Bug



Program New Blank EcUs

Figure 3.3: Visual representation of the advanced ECU coding capabilities, including matching component control modules, customizing OE-settings, disabling functions, activating advanced features, and enhancing vehicle comfort.

3.4. Bidirectional Control (Active Tests)

The bidirectional control feature allows the tool to send commands to ECUs and control actuators to perform specific actions, aiding in accurate fault location. Examples include:

- EVAP test

- Injector test
- Idle relearn
- Controlling windows, doors, sunroofs, coolant fans, valves, and headlamps.

3.5. Maintenance Services (39+ Functions)

The X431 IMMO Plus includes over 39 maintenance and reset functions to address common vehicle issues:

- Oil Reset
- EPB Reset (Electronic Parking Brake)
- BMS Reset (Battery Management System)
- SAS Reset (Steering Angle Sensor)
- TPMS Reset (Tire Pressure Monitoring System)
- ABS Bleeding
- Throttle Matching
- Injector Coding
- Gear Learning
- And many more.

Note: The availability of specific IMMO and reset functions may vary by vehicle model. Please consult the device's vehicle coverage list or contact support for compatibility checks.

39+ Maintenance Services

Fixing 99% of vehicle-related issues in market

Oil Reset

EPB Reset

SAS Reset

ABS Bleeding

TPMS Reset

Gear Learning

Injector Coding

BMS Reset

Maintenance Functions			
THROTTLE RESET	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP
THROTTLE RESET	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP
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THROTTLE RESET	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP	ADAPTIVE HEADLAMP

- Throttle Matching
- EGR Adaption
- Gearbox Matching
- Transport Mode
- Windows Calibration
- Headlamp
- AdBlue Reset
- A/F Reset
- Engine Power Balance

Figure 3.4: A selection of the 39+ maintenance services available, designed to fix a wide range of vehicle-related issues.

4. MAINTENANCE

4.1. Software Updates

The LAUNCH X431 IMMO Plus comes with 2 years of free software updates. Regular updates ensure the device has the latest vehicle coverage, bug fixes, and new features. Connect the device to Wi-Fi and navigate to the "Software Update" section on the main menu to check for and install available updates.

4.2. General Care

- Keep the device clean and free from dust and moisture.
- Store the device and its accessories in the provided carry cases when not in use to prevent damage.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

5. TROUBLESHOOTING

5.1. Common Issues and Solutions

- **Device not powering on:** Ensure the battery is charged. Connect the power adapter and try again.
- **Connection issues with vehicle:** Verify that the VCI connector is securely plugged into the vehicle's OBD-II port and properly paired with the tablet. Check all cable connections.
- **IMMO functions not working (US/Canada):** Confirm that you have logged into your NASTF VSPID account and purchased the necessary authorization if required after December 4, 2024.
- **Software errors/freezing:** Try restarting the device. If the issue persists, check for software updates or perform a factory reset (note: this will erase user data).

5.2. Seeking Further Assistance

If you encounter issues that cannot be resolved using this manual, please contact LAUNCH customer support. You can reach them at **1-888-756-2936** (Mon-Fri 9:00 AM–6:00 PM EST) or via email **ataftersale-launchdirect@outlook.com**.

6. SPECIFICATIONS

Feature	Detail
Brand	LAUNCH
Model	X431 IM** PLUS
Product Dimensions	17.32"L x 12.6"W x 14.96"H
Operating System	Android 10.0
Display Resolution	1280x800
Item Weight	21.1 pounds
Batteries	1 Lithium Ion battery (included)
First Available Date	March 26, 2025

7. WARRANTY AND SUPPORT

The LAUNCH X431 IMMO Plus comes with a **2-year free software update period**. For any product-related issues or technical assistance, please utilize the contact information provided in the Troubleshooting section. LAUNCH is committed to providing reliable support for its products. Additionally, a **60-day return and refund policy** is available for this product.

<div><p>FAQS for LAUNCH CRP919EBT</p><p>Q: Downloaded LAUNCH TECH USA, but didn't get any support?</p><p>A: Please contact us via Wechat, or via Facebook, Twitter, Email, Youtube.</p><p>Important note of the product:</p><p>Our products are all shipped from LAUNCH TECH CO., LTD, which is the headquarter of LAUNCH TECH USA is only an overseas branch of Launch Tech in USA. Although, we are completely with LAUNCH TECH USA. Therefore, they will not offer any after-sale services to customers who bought the product from here as LAUNCH TECH CO., LTD is located in China, but the product is made in China.</p><p>LAUNCH CRP919EBT charge errors</p><p>LAUNCH CRP919EBT has three charging errors as follows:</p><p>Step 1: Press the power button and select "1" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 2: Press the power button and select "2" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 3: Press the power button and select "3" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 4: Press the power button and select "4" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 5: Press the power button and select "5" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 6: Press the power button and select "6" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 7: Press the power button and select "7" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 8: Press the power button and select "8" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 9: Press the power button and select "9" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p><p>Step 10: Press the power button and select "10" before the screen shows "The cable connection failed, please try again" to make sure the connection is correct.</p></div>	<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>
<div><p>FAQS for LAUNCH X431 PRO ELITE</p><p>Q: How to register and activate the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Registration" button. Follow the steps to register and activate the software.</p><p>Q: How to update the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Update" button. Follow the steps to update the software.</p><p>Q: How to use the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "User Guide" button. Follow the steps to use the software.</p><p>Q: How to troubleshoot common issues?</p><p>A: Go to the website www.launchtechusa.com and click on the "Troubleshooting" button. Follow the steps to troubleshoot common issues.</p></div>	<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>
<div><p>FAQS for LAUNCH CRP919X BT</p><p>Q: I connected LAUNCH TECH USA but didn't receive support.</p><p>A: Please contact us via Wechat, or via Facebook, Twitter, Email, Youtube.</p><p>Q: How to register and activate the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Registration" button. Follow the steps to register and activate the software.</p><p>Q: How to update the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Update" button. Follow the steps to update the software.</p><p>Q: How to use the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "User Guide" button. Follow the steps to use the software.</p><p>Q: How to troubleshoot common issues?</p><p>A: Go to the website www.launchtechusa.com and click on the "Troubleshooting" button. Follow the steps to troubleshoot common issues.</p></div>	<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>
<div><p>LAUNCH GIII X-PROG 3 Advanced Immobilizer & Key Programmer Guide</p><p>Q: How to use the GIII X-PROG 3?</p><p>A: Go to the website www.launchtechusa.com and click on the "User Guide" button. Follow the steps to use the GIII X-PROG 3.</p><p>Q: How to update the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Update" button. Follow the steps to update the software.</p><p>Q: How to troubleshoot common issues?</p><p>A: Go to the website www.launchtechusa.com and click on the "Troubleshooting" button. Follow the steps to troubleshoot common issues.</p></div>	<p>Launch GIII X-Prog 3 Advanced Immobilizer & Key Programmer Guide</p> <p>Comprehensive guide to the Launch GIII X-Prog 3, an advanced immobilizer and key programmer for automotive diagnostics and key programming. Covers features, supported brands, systems, chip brands, connection methods, update procedures, specifications, and package contents.</p>
<div><p>LAUNCH X431 Creader Elite 2.0 BBA User Manual</p><p>Q: How to use the X431 Creader Elite 2.0 BBA?</p><p>A: Go to the website www.launchtechusa.com and click on the "User Guide" button. Follow the steps to use the X431 Creader Elite 2.0 BBA.</p><p>Q: How to update the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Update" button. Follow the steps to update the software.</p><p>Q: How to troubleshoot common issues?</p><p>A: Go to the website www.launchtechusa.com and click on the "Troubleshooting" button. Follow the steps to troubleshoot common issues.</p></div>	<p>LAUNCH X431 Creader Elite 2.0 BBA User Manual</p> <p>Comprehensive user manual for the LAUNCH X431 Creader Elite 2.0 BBA OBD2 car scanner, detailing its features, operation, diagnostics, upgrades, and troubleshooting.</p>
<div><p>LAUNCH X431 PRO DYNO User Manual</p><p>Q: How to use the X431 PRO DYNO?</p><p>A: Go to the website www.launchtechusa.com and click on the "User Guide" button. Follow the steps to use the X431 PRO DYNO.</p><p>Q: How to update the software?</p><p>A: Go to the website www.launchtechusa.com and click on the "Update" button. Follow the steps to update the software.</p><p>Q: How to troubleshoot common issues?</p><p>A: Go to the website www.launchtechusa.com and click on the "Troubleshooting" button. Follow the steps to troubleshoot common issues.</p></div>	<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>