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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

- Charge the Device:** Before first use, ensure the main display tablet is fully charged using the provided power adapter.
- Power On:** Press and hold the power button on the tablet to turn it on. The device runs on Android 10.0.
- Network Connection:** Connect the tablet to a stable Wi-Fi network to enable software updates and online functions.
- Registration:** Follow the on-screen prompts to register your device. This typically involves creating a LAUNCH account.
- 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.



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.



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.



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



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 at aftersale-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.

<p>FAQs for LAUNCH CRP919EBT</p> <p>Q: I connected LAUNCH TECH USA, but I didn't get any support. A: Please contact us directly via Amazon or our Customer Service at customer@launchtechusa.com. Our products are all original from LAUNCH TECH CO., LTD., which is the manufacturer of LAUNCH TECH USA. If any, any inferior brand of launch products is sold on the market, it is not our products. We do not provide any support for these products. Please contact the seller for support.</p> <p>Launch CRP919 EBT Troubleshooting</p> <p>Q: My product can't charge when I use it. A: Please contact us directly via Amazon or our Customer Service at customer@launchtechusa.com. Step 1: Press the power button and then the "Battery" at the same time. After Step 2: Press the power button again. If the battery is still not charged, then the product has a problem. Please contact the seller for support.</p> <p>Q: How to charge the device? A: Please charge the device in "Normal" mode. Select the Recovery mode and press the power button to charge.</p> <p>Q: How to Select wiping data? For more, select "yes" > select wiping cache, and then "yes".</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>FAQs for LAUNCH X431 PRO ELITE</p> <p>Q: How to register and update for LAUNCH X431 PRO ELITE? A: Please follow the steps below to complete registration and update: 1. Go to the official website of LAUNCH X431 PRO ELITE, and then log in. 2. Log in to the high-definition diagnostic software. Q: After you are a user, how to register to the sign up page? A: After logging in, click "My Account" > "My Profile" > "My Profile". Q: What is the X431 PRO ELITE Product Serial Number and its Activation Code? A: You can find the X431 PRO ELITE Product Serial Number and its Activation Code on the bottom of the product packaging, and then log in.</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>FAQs for LAUNCH CRP919X BT</p> <p>Q: I connected LaunchTech USA but I didn't receive support. A: You can contact us directly via Amazon or our Customer Service at customer@launchtechusa.com. Since our products are all original from LAUNCH TECH CO., LTD., the headquarters of LAUNCH. While LAUNCH TECH USA is a branch of LAUNCH, we do not provide any support for products after sales service for products purchased online. If you have any needs, please contact us for any assistance.</p> <p>Q: My CRP919X BT won't charge when on. A: Please charge the device in "Normal" mode and use the original USB cable for charging. Please note: "Normal" mode is the factory default mode and the setting choices: entering "Fast Mode". Select the Recovery mode and press the volume buttons, continue to hold until the device is turned on. Once "Fast mode" factory reset" is done, the "Vehicle configuration" will be restored to the factory default. Afterward, power off and then normally power on the device.</p> <p>Q: How do I register the CRP919X BT? A: To register, select "New Registration," follow the steps to create a new account and log in. Use the password envelope included 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>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>	
<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>	
<p>LAUNCH X431 PRO DYN0 User Manual</p> <p>Comprehensive user manual for the LAUNCH X431 PRO DYN0 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>	