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LAUNCH X431 PROS V+ 5.0

LAUNCH X431 PROS V+ 5.0 OBD2 Diagnostic Tool User Manual

Model: X431 PROS V+ 5.0

1. Introduction

This manual provides detailed instructions for the operation and maintenance of your LAUNCH X431 PROS V+ 5.0 OBD2 Diagnostic Tool. This device is designed for professional automotive diagnostics, offering comprehensive system analysis, advanced reset functions, and ECU programming capabilities. Please read this manual thoroughly before using the device to ensure proper operation and to prevent damage.



Figure 1: LAUNCH X431 PROS V+ 5.0 Diagnostic Tool

The LAUNCH X431 PROS V+ 5.0 is a powerful diagnostic tablet featuring an 8-inch touchscreen, designed for comprehensive vehicle system analysis.

2. Product Overview and Key Features

The LAUNCH X431 PROS V+ 5.0 is an advanced diagnostic scanner equipped with a wide array of functions to address modern vehicle maintenance and repair needs.

2.1. OE-Level Full System Diagnostics

Access and diagnose all available vehicle systems, including Engine, Transmission, ABS, SRS, Fuel System, Chassis, and more. Functions include:

- **Read and Clear DTCs:** Retrieve and erase diagnostic trouble codes.
- **View Live Data Stream:** Display real-time data in text or graph format.
- **Read Vehicle Information:** Access ECU information such as VIN, calibration IDs, etc.



Figure 2: All System Diagnostic Capabilities

This image illustrates the comprehensive diagnostic coverage across various vehicle systems and the core functions available.

2.2. 38+ Reset Functions

Perform essential maintenance and service functions, including but not limited to:

- Oil Reset
- TPMS Reset
- EPB (Electronic Parking Brake) Reset
- BMS (Battery Management System) Reset
- ABS Bleeding
- SAS (Steering Angle Sensor) Calibration
- DPF (Diesel Particulate Filter) Regeneration
- Throttle Adaptation
- Injector Coding
- Suspension Calibration
- Gear Learning

2.3. ECU Coding and IMMO Service

Advanced functions for vehicle customization and security:

- **ECU Coding:** Reprogram specific components, customize OE settings, and flash hidden functions.
- **ECU Replacement:** Assist in matching, learning, coding, or programming newly replaced ECUs.
- **IMMO Programming (Key Programming):** Delete lost key information, learn new keys, and perform key fob programming to enhance vehicle security.



Figure 3: ECU Coding Capabilities

This image highlights the extensive ECU coding features, including online coding guidance and personalization options.

2.4. Bi-Directional Control (Active Test)

Perform active tests to pinpoint vehicle problems by sending commands to ECUs, reading data, and monitoring vehicle subsystems and components. Examples include:

- Injector Buzz Test
- Modulate the Throttle
- Turn ON/OFF Lights
- A/C Compressor Activation
- Operate Mirrors
- Test Door Lock Actuators



Figure 4: Bi-Directional Control and ECU Functions

This image details both ECU coding capabilities and the range of bi-directional active tests available.

2.5. Vehicle Coverage and Updates

Supports over 99% of vehicle models, including the latest models. Features include:

- Smart Auto VIN technology for quick vehicle identification.
- One-click software updates.
- Multi-language support (25+ languages).

3. What's in the Box

Upon unpacking your LAUNCH X431 PROS V+ 5.0, please verify that all items listed below are present:

- LAUNCH X431 PROS V+ 5.0 Tablet
- Diagnostic VCI Connector
- Diagnostic Cable (OBD-II)
- Type-A to Type-C USB Cable
- Power Adapter (EU, UK, US plugs may be included depending on region)
- Battery Clamps Cable
- Cigarette Lighter Cable
- Various OBD-I Adapters (e.g., B-20, BZ-38, CR-6, FD-6+1, GV-12, HA-3, K-20, TA-17, TA-22, NN-14+16, MH-12+16, BZ-14)
- Fuses
- Quick Start Guide
- User Manual (this document)
- Packing List
- PIN Envelope



Figure 5: Package Contents

This image displays the comprehensive set of tools and accessories included with the LAUNCH X431 PROS V+ 5.0.

4. Setup

4.1. Charging the Device

1. Connect the provided power adapter to the Type-C port on the tablet.
2. Plug the power adapter into a suitable electrical outlet.
3. Allow the device to charge fully before first use. The charging indicator will show the battery status.

4.2. Initial Power-On and Setup

1. Press and hold the Power button until the LAUNCH logo appears on the screen.
2. Follow the on-screen prompts to select your language, time zone, and other initial settings.

4.3. Connecting to Wi-Fi

1. From the main menu, navigate to**Settings**.
2. Select **Wi-Fi** and turn it on.
3. Choose your desired Wi-Fi network from the list and enter the password if prompted.
4. Ensure the device is connected to the internet for software updates and online functions.

4.4. Registering and Updating Software

1. Launch the **Update** application from the main screen.
2. If prompted, register your device by creating a LAUNCH account or logging in with an existing one.
3. Download and install all available software updates for the system and vehicle brands. This ensures you have the latest features and vehicle coverage.

5. Operating Instructions

5.1. Connecting to the Vehicle

1. Locate the vehicle's OBD-II port (usually under the dashboard on the driver's side).
2. Connect the diagnostic VCI connector to the vehicle's OBD-II port.
3. Connect the diagnostic cable from the VCI connector to the LAUNCH X431 PROS V+ 5.0 tablet.
4. Turn the vehicle's ignition to the ON position (engine off).

5.2. Vehicle Identification (Auto VIN)

1. From the main menu, select **Intelligent Diagnose** or **Local Diagnose**.
2. The system will attempt to automatically identify the vehicle's VIN. Confirm the vehicle information displayed.
3. If Auto VIN fails, you may need to manually select the vehicle make, model, and year.

5.3. Performing Full System Diagnostics

1. After vehicle identification, select **Health Report** or **System Scan** to perform a comprehensive scan of all available systems.
2. Review the scan results, which will list any detected DTCs.
3. Select a specific system to view detailed information, read live data, or clear codes.

5.4. Using Reset Functions

1. From the main menu, select **Service Function**.
2. Choose the desired reset function (e.g., Oil Reset, EPB Reset).
3. Follow the on-screen instructions carefully to perform the service function. Ensure all prerequisites are met (e.g., engine off, ignition on).

5.5. Performing ECU Coding and IMMO Programming

1. Navigate to the specific vehicle system or function requiring coding or IMMO service.
2. Select **ECU Coding** or **IMMO Service**.
3. Follow the detailed on-screen prompts. These functions often require specific vehicle conditions and may involve entering security codes. Exercise caution and ensure you understand the procedure before proceeding.

5.6. Utilizing Bi-Directional Control (Active Tests)

1. After selecting a vehicle system, look for the **Active Test** or **Bi-Directional Control** option.
2. Choose the component you wish to test (e.g., radiator fan, fuel pump).
3. Activate the test and observe the component's response and any live data feedback to diagnose issues.

6. Maintenance

6.1. Device Cleaning

- Use a soft, damp cloth to clean the tablet screen and body.
- Avoid using abrasive cleaners or solvents that could damage the device.
- Keep the diagnostic connectors free from dust and debris.

6.2. Software Updates

- Regularly check for and install software updates via the **Update** application. This ensures optimal performance,

the latest vehicle coverage, and bug fixes.
- Ensure a stable Wi-Fi connection during updates.

6.3. Battery Care

- Charge the device fully before long periods of storage.
- Avoid completely draining the battery frequently, as this can reduce its lifespan.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

7. Troubleshooting

7.1. Device Not Powering On

- Ensure the device is sufficiently charged. Connect it to the power adapter and allow it to charge for at least 30 minutes before attempting to power on again.
- Try holding the Power button for an extended period (10-15 seconds) to force a restart.

7.2. No Communication with Vehicle

- Verify that the VCI connector is securely plugged into the vehicle's OBD-II port and the diagnostic cable is firmly connected to the tablet.
- Ensure the vehicle's ignition is in the ON position (engine off).
- Check the vehicle's battery voltage; low voltage can prevent communication.
- Try connecting to a different vehicle to rule out a vehicle-specific issue.
- Inspect the diagnostic cable and VCI connector for any visible damage.

7.3. Software Update Failure

- Ensure a stable and strong Wi-Fi connection.
- Check if there is sufficient storage space on the device. Clear unnecessary files if needed.
- Restart the device and try the update again.

For persistent issues, please contact LAUNCH technical support.

8. Specifications

Feature	Specification
Model Number	AMZLC-LC52110151FBAGMndiK
Operating System	Android 9.0
Screen Size	8 Inches
Power Source	Battery Powered (1 Lithium-polymer battery included)
Connectivity	Wi-Fi, Bluetooth
Dimensions (Package)	44.29 x 38.7 x 30.9 cm
Weight (Package)	8.4 kilograms
UPC/GTIN	632111339627

9. Warranty and Support

The LAUNCH X431 PROS V+ 5.0 comes with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official LAUNCH website for detailed warranty terms and conditions.

For technical support, service inquiries, or to report issues, please contact LAUNCH customer service through their official website or the contact information provided with your product. Ensure you have your product model and serial number ready when contacting support.

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