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LAUNCH X431 PRO3S+ ELITE

LAUNCH X431 PRO3S+ Elite Diagnostic Scan Tool User Manual

MODEL: X431 PRO3S+ ELITE

1. Introduction

The LAUNCH X431 PRO3S+ Elite is a professional, all-in-one diagnostic scan tool designed for comprehensive vehicle diagnostics. This device integrates advanced features such as J2534 PassThru protocol support, an intuitive topology map, over 60 special service functions, and advanced ECU coding capabilities. It is engineered to provide efficient and accurate diagnostic solutions for a wide range of vehicles.



Figure 1.1: LAUNCH X431 PRO3S+ Elite Diagnostic Scan Tool with SmartLinkC V2.0 connector.

2. Setup and Initial Use

This section guides you through the initial setup of your LAUNCH X431 PRO3S+ Elite diagnostic tool.

2.1 Unpacking and Inspection

- Carefully unpack all components from the packaging.
- Verify that all items listed in the packing list are present and undamaged.



Figure 2.1: LAUNCH X431 PRO3S+ Elite tablet and SmartLinkC V2.0 module in their protective case.

2.2 Powering On and Initial Configuration

1. Press and hold the power button on the tablet until the screen illuminates.
2. Follow the on-screen prompts to select your language, time zone, and connect to a Wi-Fi network.
3. Register your device and download necessary software updates to ensure optimal performance and access to the

latest vehicle data.

2.3 Connecting to a Vehicle

1. Locate the vehicle's OBD-II port (typically under the dashboard).
2. Connect the SmartLinkC V2.0 diagnostic connector to the vehicle's OBD-II port.
3. Ensure the SmartLinkC V2.0 is paired with the X431 PRO3S+ Elite tablet via Bluetooth or USB.
4. Turn the vehicle's ignition to the ON position (engine off).

3. Operating the Diagnostic Tool

The X431 PRO3S+ Elite offers a wide array of diagnostic functions. This section details the primary operational aspects.

3.1 J2534 PassThru Protocol with SmartLinkC V2.0

The SmartLinkC V2.0 module supports the J2534 PassThru protocol, enabling the tool to function as a J2534 device. This allows for advanced OEM diagnostic software integration on a PC, facilitating:

- ECU reprogramming and coding.
- Module coding and adaptation.
- Addressing drivability issues and fuel economy concerns.



Figure 3.1: Overview of J2534 Protocol and ECU Coding capabilities.

3.2 Smart Topology Map

The intelligent topology map provides a visual representation of the vehicle's network communication. This feature helps technicians quickly identify the status of all systems and modules with color-coded indicators, streamlining fault location and diagnosis.

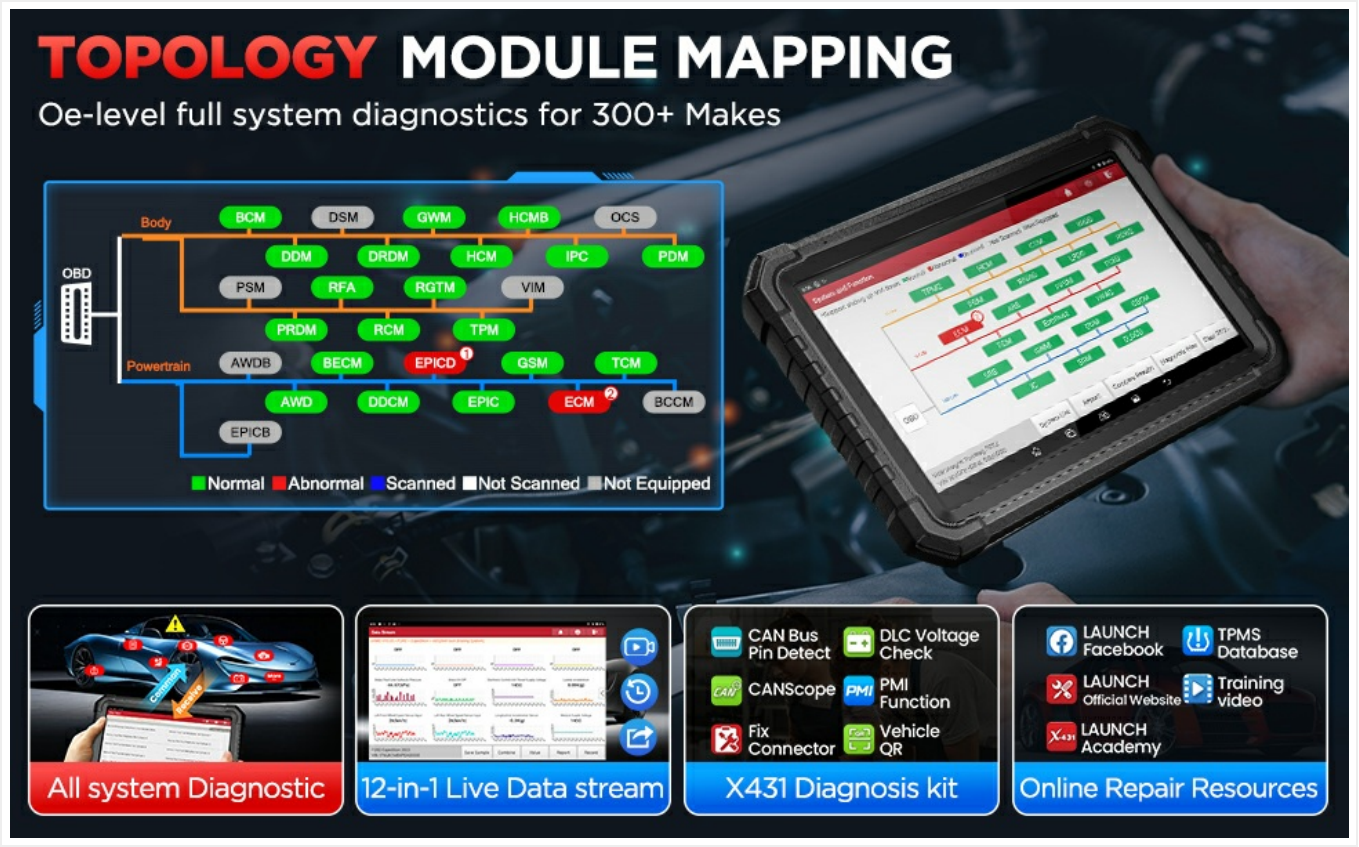


Figure 3.2: The Smart Topology Map provides a clear, color-coded view of the vehicle's electronic control units (ECUs) and their communication status.

3.3 Bidirectional Tests and Active Functions

The tool supports over 4000 bidirectional tests, allowing you to send commands to vehicle components to test their functionality. This includes activating fuel pumps, operating windows, testing injectors, and more. Active tests help verify repairs instantly and diagnose issues efficiently.



Figure 3.3: The 'Full Active Test' interface demonstrating various component activations for diagnostic purposes.

3.4 Special Functions and Advanced ECU Coding

The X431 PRO3S+ Elite provides over 100 special functions, including reset, relearn, and calibration services. Advanced ECU coding allows for component matching, re-flashing hidden functions, and optimizing vehicle performance.

- **Common Services:** Oil Reset, ABS Bleeding, EPB, SAS, BMS, Injector Coding, Turbo Calibration, VGT, Power Balance, Transmission Adaptation, Throttle Matching.
- **Advanced Coding:** Component Matching, ECU Replacement Matching, Alter Configuration, Disabling Annoying Features.

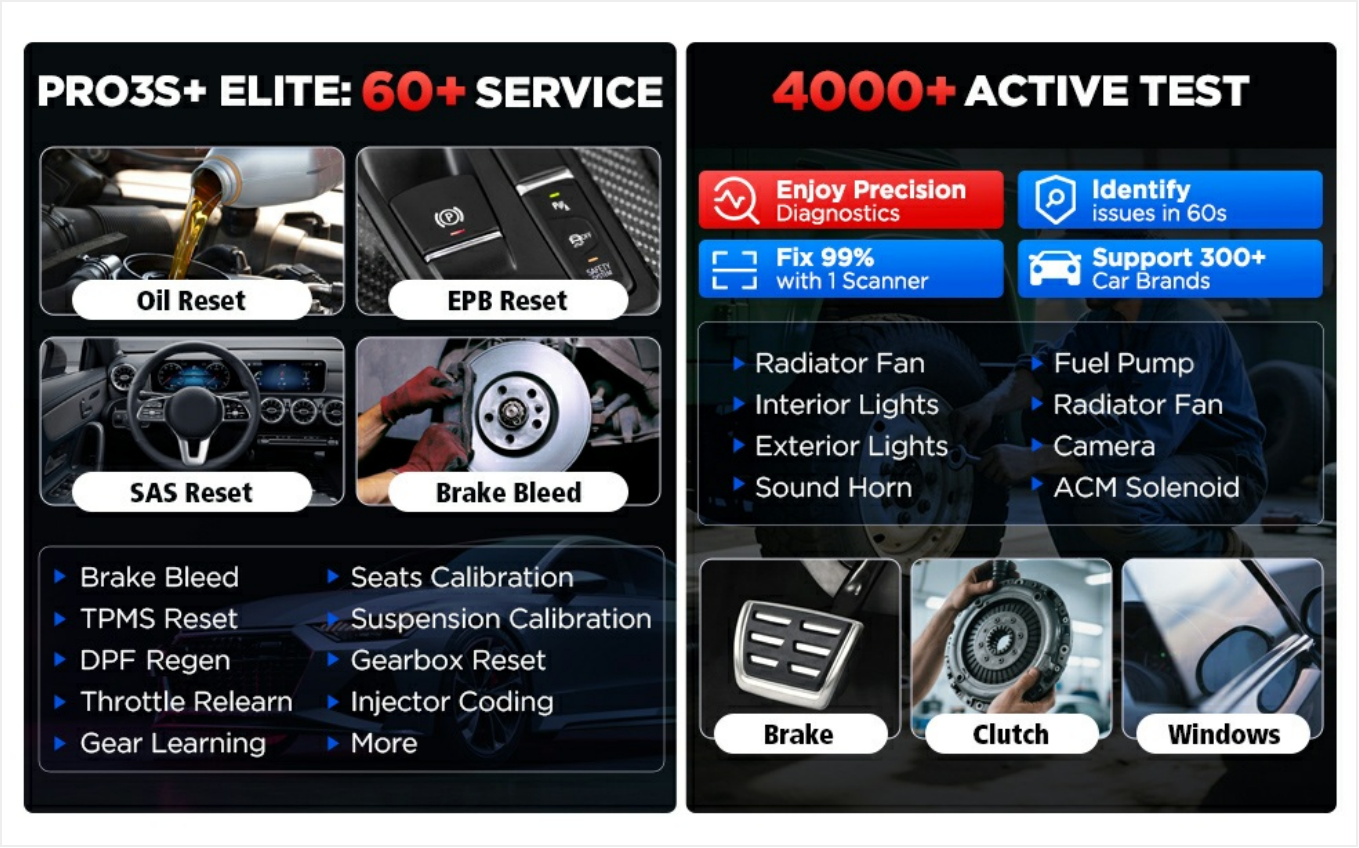


Figure 3.4: A visual representation of the 60+ hot services available, including Oil Reset, EPB Reset, and Injector Reset.



Figure 3.5: Illustration of ultimate OE-level functions including ECU Code, J2534 Code, and ADAS calibration.

4. Maintenance

4.1 Software Updates

Regular software updates are crucial for maintaining the tool's performance and ensuring compatibility with the latest vehicle models and diagnostic protocols. Connect the device to a stable internet connection and navigate to the 'Software Update' section in the main menu to check for and install available updates.

4.2 General Care

- Keep the device clean by wiping it with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Store the tool in its protective case when not in use to prevent damage from drops or impacts.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.

5. Troubleshooting

This section provides general guidance for common issues encountered during operation.

5.1 Device Not Powering On

- Ensure the battery is sufficiently charged. Connect the device to its charger and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the power button is being pressed correctly and held for the required duration.

5.2 Communication Errors with Vehicle

- Check that the SmartLinkC V2.0 connector is securely plugged into the vehicle's OBD-II port.
- Confirm the vehicle's ignition is in the ON position (engine off).
- Ensure the SmartLinkC V2.0 is properly paired with the tablet via Bluetooth or connected via USB.

- Verify that the vehicle's battery has sufficient voltage.

5.3 Software Freezing or Slow Performance

- Close any unnecessary applications running in the background.
- Perform a software update to ensure you have the latest version.
- Restart the device. If the issue persists, consider performing a factory reset (note: this will erase all user data).

6. Specifications

The LAUNCH X431 PRO3S+ Elite features robust hardware for efficient operation:



Figure 6.1: Key hardware specifications of the X431 PRO3S+ Elite.

Feature	Detail
Operating System	Android 10.0
Processor	2.0GHz Quad-Core
Memory (RAM+ROM)	4GB + 64GB
Display	10.1-inch HD Touchscreen (1280x800 resolution)
Battery	6300mAh/7.6V (or 12600mAh/3.8V)
Camera	16MP Rear Camera
Connectivity	Dual-band 2.4G/5G WiFi, Bluetooth, Type-C USB
Dimensions	7 x 14 x 17.3 inches

Feature	Detail
Item Weight	21.5 pounds
Model Number	YZA31-A
Manufacturer Part Number	YZA24

7. Warranty and Support

7.1 Software Updates

The LAUNCH X431 PRO3S+ Elite includes a 24-month period of free software updates from the date of purchase. Regular updates ensure access to the latest vehicle coverage, diagnostic functions, and performance enhancements.

7.2 Technical Support

LAUNCH provides 24/7/365 technical support for the X431 PRO3S+ Elite. For assistance with operation, troubleshooting, or any technical inquiries, please refer to the contact information provided with your product or visit the official LAUNCH website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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