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LAUNCH X431 PRO3 V+ ELITE

LAUNCH X431 PRO3 V+ Elite Diagnostic Scan Tool User Manual

Model: X431 PRO3 V+ ELITE

Brand: LAUNCH

1. Introduction

The LAUNCH X431 PRO3 V+ Elite is a professional-grade automotive diagnostic scan tool designed for comprehensive vehicle system analysis, programming, and maintenance. This device features a 10.1-inch Gorilla screen, a powerful 4-core 2.0 GHz processor, and supports a wide range of diagnostic functions including J2534 programming, topology mapping, bi-directional control, and over 60 service functions. It is compatible with over 200 vehicle brands, including commercial and new energy vehicles, and supports advanced protocols like CANFD and DoIP.
Key features include:

- J2534 Programming and PassThru Device capabilities.
- Intuitive Topology Mapping for system visualization.
- Full Bi-Directional Control for component testing.
- Over 60 Reset and Special Service Functions.
- Extensive Vehicle Coverage (200+ brands) with CANFD/DoIP/D-PDU support.
- Advanced Hardware: Android 10.0 OS, 4GB RAM + 64GB storage, 6300mAh battery.
- 12-in-1 Live Data Stream for detailed analysis.
- FCA AutoAuth access for secure gateway vehicles.



Figure 1.1: LAUNCH X431 PRO3 V+ Elite Diagnostic Scan Tool and Smartlink C 2.0.

2. What's in the Box

Upon opening the product packaging, verify that all the following items are present and in good condition:

- X431 PRO3 V+ ELITE Display Tablet
- SmartLink C V2.0 Communication Interface
- HD15F to OBDII 16 Connector
- DB15F to HD15F Cable
- UK/EU/US Power Plugs
- Network Cable
- Type A - Type B USB Cable
- Type A - Type C USB Cable
- User Manual

- PIN envelope
- Quick Start Guide



Figure 2.1: Contents of the LAUNCH X431 PRO3 V+ Elite package.

3. Setup Guide

3.1 Initial Setup

1. **Charge the Device:** Before first use, fully charge the X431 PRO3 V+ Elite tablet using the provided power adapter and USB-C cable.
2. **Power On:** Press and hold the power button on the tablet until the screen illuminates.
3. **Initial Configuration:** Follow the on-screen prompts to select your language, connect to a Wi-Fi network, and set up your LAUNCH ID.
4. **Connect SmartLink C V2.0:** Ensure the SmartLink C V2.0 communication interface is charged or connected to a power source. It will automatically pair with the tablet via Bluetooth.

3.2 Software Updates

Regular software updates are crucial for optimal performance and expanded vehicle coverage. Connect the tablet to a stable Wi-Fi network and navigate to the 'Software Update' section within the main menu. Download and install all available updates. The device includes 2 years of free software updates.



Figure 3.1: The SmartLink C V2.0 communication interface.

4. Operating Instructions

4.1 Connecting to a Vehicle

1. Locate the vehicle's OBD-II port (usually under the dashboard).
2. Connect the HD15F to OBDII 16 Connector cable to the SmartLink C V2.0.
3. Plug the OBD-II connector into the vehicle's OBD-II port.
4. Turn the vehicle's ignition to the ON position (engine off).
5. On the X431 PRO3 V+ Elite tablet, select 'Intelligent Diagnose' or 'Local Diagnose' to begin communication with the vehicle. The system will automatically identify the vehicle via Auto VIN.

4.2 Key Diagnostic Functions

The X431 PRO3 V+ Elite offers a wide array of diagnostic and service functions:

4.2.1 J2534 Programming

The SmartLink C V2.0 functions as a J2534 PassThru device, allowing you to perform ECU programming and flashing using OEM diagnostic software. This enables reprogramming of blank ECUs, renewing ECU data, upgrading software versions, and repairing parameter loss. It supports a wide range of vehicle models including Toyota, Honda, VW, BMW, Ford, GM, Chrysler, and Mercedes-Benz.

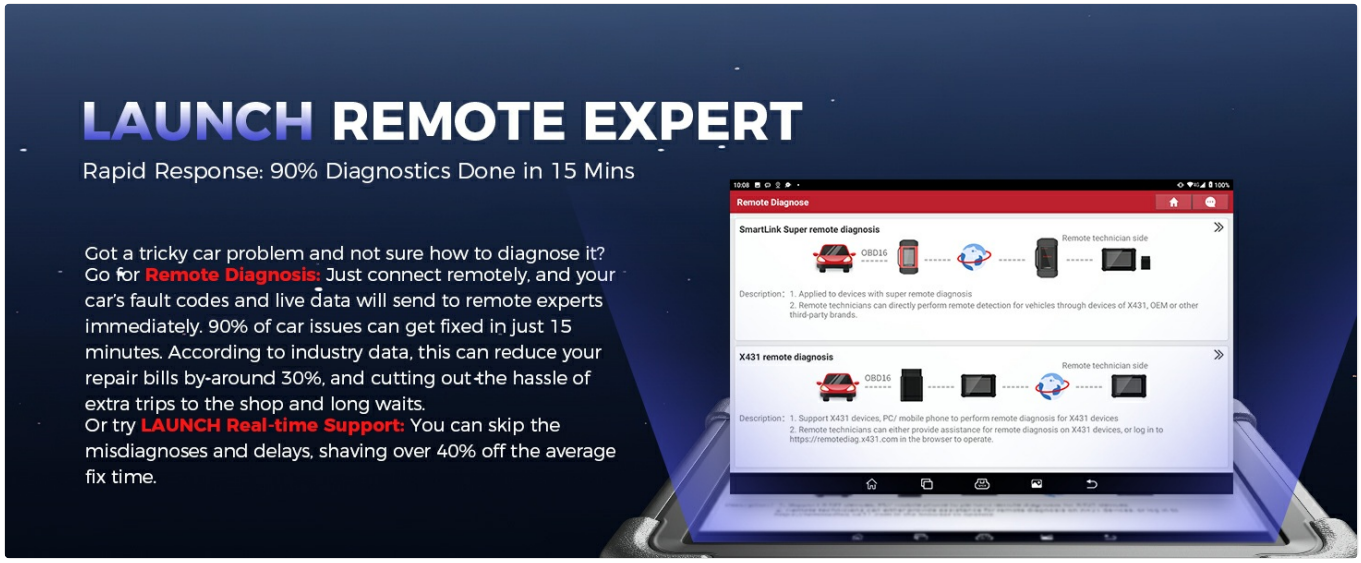

Figure 4.1: J2534 Protocol and Online Coding capabilities.

4.2.2 Topology Mapping

The intuitive topology mapping feature provides a comprehensive visual representation of all vehicle systems and their communication status. It displays control units, system numbers, and scan results in different colors, simplifying the diagnostic process and helping to quickly identify DTCs and their relationships within the vehicle's network.

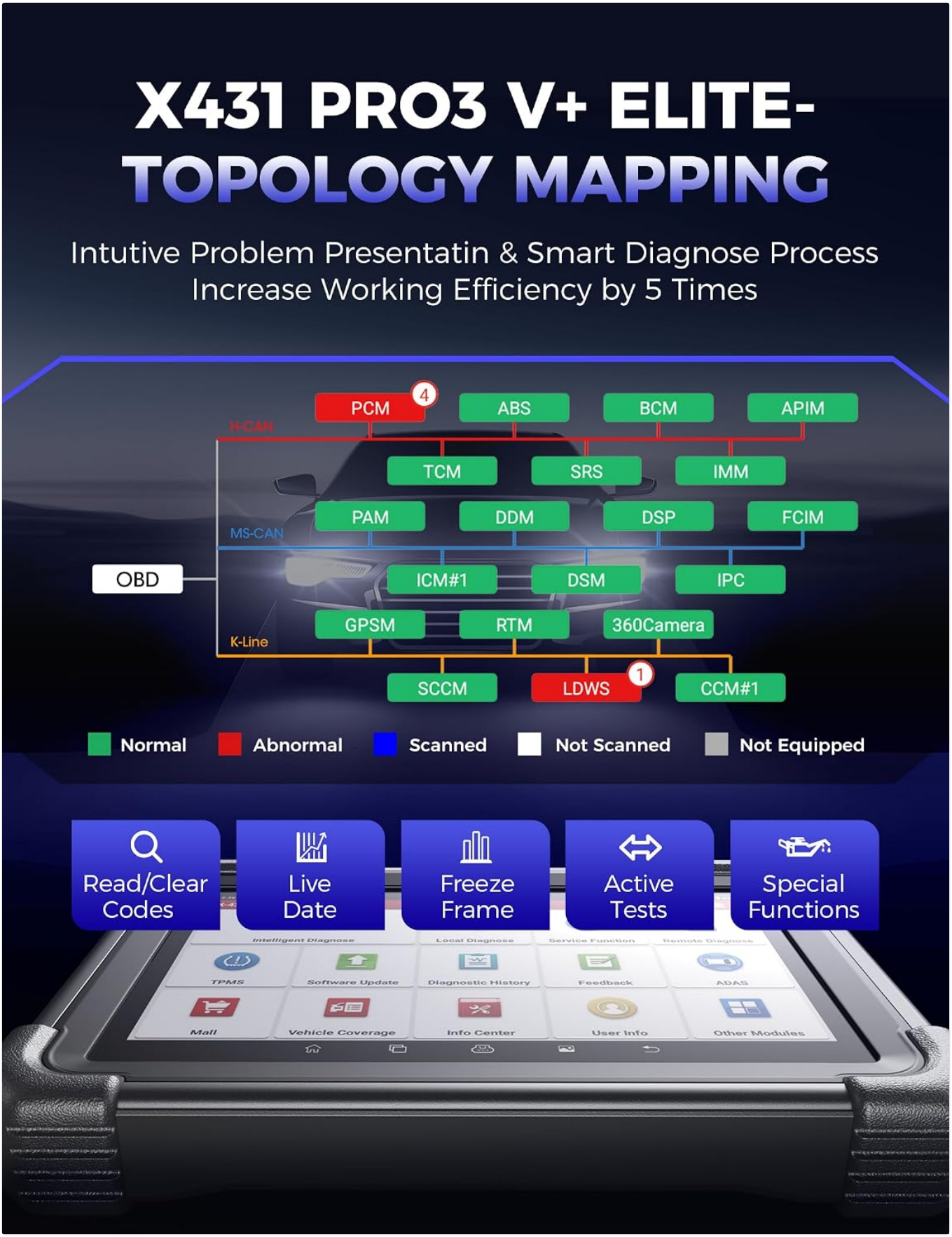

Figure 4.2: Topology mapping interface showing vehicle system connections.

4.2.3 Bi-Directional Control / Active Tests

Perform active tests to send commands from the scanner to vehicle actuators (e.g., air conditioning clutches, windows, doors, mirrors, fuel pump, ABS pump, injectors). This allows for quick testing of component integrity and functionality, aiding in rapid problem identification.



Figure 4.3: Examples of bi-directional control functions.

4.2.4 60+ Service Functions

The tool provides access to over 60 common maintenance and reset functions, including:

- Oil Reset
- ABS Bleeding
- Throttle Adaptation
- EPB (Electronic Parking Brake) Reset
- SAS (Steering Angle Sensor) Calibration
- BMS (Battery Management System) Reset
- TPMS (Tire Pressure Monitoring System) Reset
- Injector Coding
- DPF Regeneration
- Suspension Reset
- Gearbox Matching
- And many more.



Figure 4.4: A selection of the 60+ service functions available.

4.2.5 CANFD/DoIP Support

The X431 PRO3 V+ Elite supports advanced communication protocols like CANFD and DoIP, ensuring compatibility with newer vehicle models from brands such as Land Rover, Jaguar, BMW (F/G chassis), and GM, providing faster and more stable data communication.



Figure 4.5: CAN-FD and DoIP protocol support for wider vehicle coverage.

4.2.6 FCA SGW Access (AutoAuth)

The tool provides full access to FCA (Fiat Chrysler Automobiles) Secure Gateway (SGW) modules for 2018+ Chrysler, Dodge, Fiat, and Jeep vehicles. This requires registering an AutoAuth account and linking your device to perform diagnostics on these vehicles.



Figure 4.6: Steps for gaining FCA SGW access via AutoAuth.

4.2.7 Live Data Stream

View real-time vehicle data parameters in text, graph, or gauge format. The 12-in-1 data graphing feature allows simultaneous display of multiple PIDs (Parameter IDs) for comprehensive analysis, such as engine RPM, vehicle speed, air flow, engine load, fuel pressure, and battery voltage.



Figure 4.7: Example of 12-in-1 live data stream display.

4.2.8 Heavy Duty Truck Diagnostics

The X431 PRO3 V+ Elite supports J2534/D-PDU protocols for heavy-duty trucks. Note that additional HD software and non-16pin HD adapters may be required for full heavy-duty vehicle diagnostic capabilities.

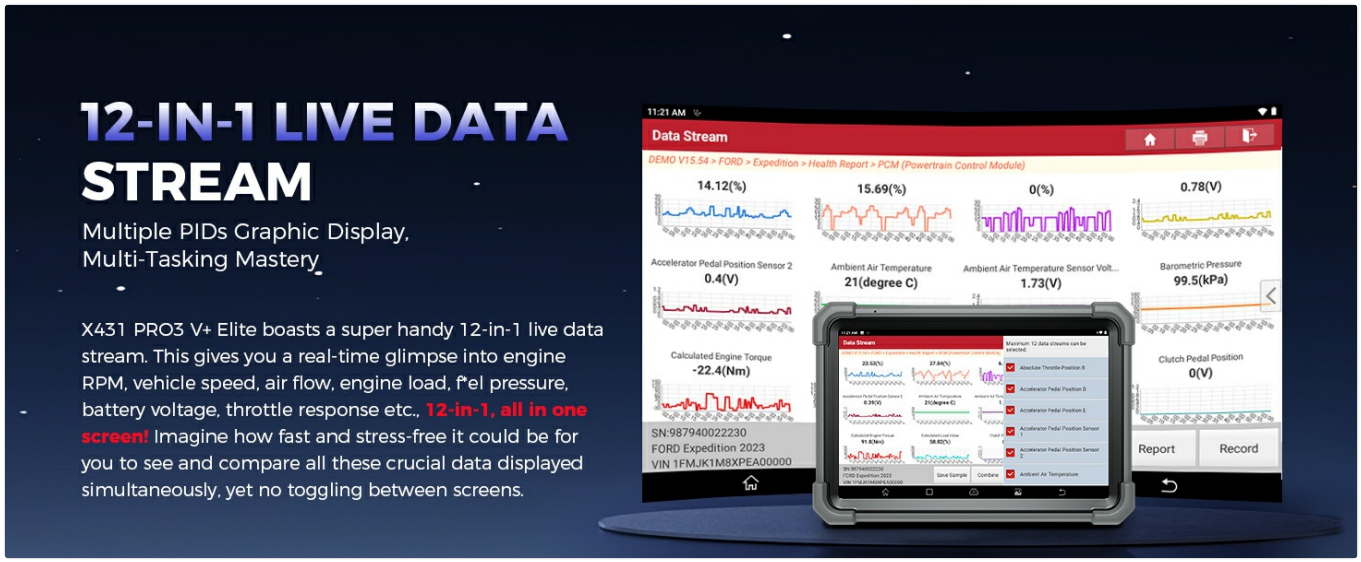

Figure 4.8: The SmartLink C V2.0 supporting HD protocol for heavy-duty trucks.

4.2.9 Online Coding & Flash Hidden Services

Perform online coding to personalize settings, backup/restore data, match/code newly replaced ECUs, and alter configurations. Flash hidden services allow customization of vehicle features such as rear-view mirror folding, daytime running lights, remote window closing, and one-press door locking.



Figure 4.9: Examples of customizable hidden services.

4.2.10 All System Diagnosis

Conduct a full system scan to read/clear diagnostic trouble codes (DTCs), view live data streams, freeze frame data, and retrieve ECU information for all available vehicle modules (e.g., Engine, ABS, SRS, Transmission, TPMS, BMS, etc.).



Figure 4.10: Overview of all system diagnosis capabilities.

4.2.11 VAG Guided Functions

For Volkswagen Audi Group (VAG) vehicles, the tool provides guided functions that simplify complex diagnostic and service procedures by offering step-by-step instructions.



Figure 4.11: Workflow for VAG guided functions.

4.2.12 Remote Diagnosis

The LAUNCH Remote Expert feature allows for remote assistance. Connect the device to the internet, and vehicle fault codes and live data can be sent to remote experts for diagnosis, potentially resolving issues quickly and reducing repair time.



Figure 4.12: Explanation of the LAUNCH Remote Expert feature.

5. Maintenance

5.1 Software Updates

Regularly check for and install software updates to ensure the diagnostic tool has the latest vehicle coverage, bug fixes, and feature enhancements. Connect the tablet to a reliable internet connection and access the 'Software Update' application.

5.2 Cleaning the Device

Use a soft, damp cloth to clean the tablet screen and body. Avoid using abrasive cleaners or solvents that could damage the device. Ensure the device is powered off before cleaning.

5.3 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use for extended periods. Charge the battery periodically if stored for a long time to prevent deep discharge.

6. Troubleshooting

This section addresses common issues you might encounter with your LAUNCH X431 PRO3 V+ Elite.

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not pressed long enough; Hardware malfunction.	Charge the device for at least 30 minutes. Press and hold the power button for 5-10 seconds. If issue persists, contact support.
Unable to connect to vehicle.	Loose OBD-II connection; Vehicle ignition off; SmartLink C not paired; Software outdated.	Ensure secure connection. Turn ignition to ON. Check SmartLink C status and pair if necessary. Update software.
Slow operation or freezing.	Too many applications running; Low storage; Software glitch.	Close unnecessary applications. Clear cache/data. Restart the device. Ensure sufficient storage.
FCA SGW access denied.	AutoAuth account not registered/linked; Incorrect credentials.	Verify AutoAuth account registration and device linking. Ensure correct login details.

For issues not covered here, please refer to the official LAUNCH support channels.

7. Specifications

Feature	Specification
Model	X431 PRO3 V+ ELITE
Operating System	Android 10.0
CPU	4-core processor, 2.0 GHz
Display	10.1-inch Gorilla screen, 1280*800 resolution
RAM	4GB
Storage	64GB
Battery Capacity	6300mAh / 7.6V
Camera	8MP

Feature	Specification
Wi-Fi	2.4GHz/5GHz
Connectivity	Bluetooth, USB Type-A, USB Type-C
Supported Protocols	J2534, CANFD, DoIP, D-PDU
Item Weight	13.77 pounds
Package Dimensions	16.75 x 14.65 x 6.93 inches

8. Warranty and Support

The LAUNCH X431 PRO3 V+ ELITE Smartlink C 2.0 is officially provided with after-sales service by LAUNCH. It includes:

- **2 Years Free Software Upgrade:** Enjoy complimentary software updates for two years from the date of purchase, ensuring your tool remains current with the latest vehicle models and diagnostic functions.
- **5 Years Free Return Service:** A five-year free return service is provided for eligible issues.

For technical assistance or any questions regarding your device, please contact LAUNCH support:
Email: Tech_Launchoriginal@outlook.com

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