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LAUNCH X-431 PRO STAR

LAUNCH X431 PRO Star Diagnostic Scanner User Manual

Model: X-431 PRO STAR

1. Introduction

The LAUNCH X431 PRO Star is an advanced automotive intelligent diagnostic tool designed for comprehensive vehicle analysis. This device features an 8-inch touch screen, runs on Android 10.0, and is powered by a 2.0GHz 4-Core processor with 4GB RAM and 64GB ROM. It includes a 6000mAh battery for extended operation. The PRO Star supports fault diagnosis for a wide range of vehicle models and systems, offering functions such as code reading, code clearing, data stream analysis, reset functions, action testing, coding, and matching.

Figure 1.1: LAUNCH X431 PRO Star Diagnostic Scanner with key features highlighted.

2. Setup and First Use

2.1 Unboxing and Package Contents

Carefully unpack all items from the carrying box. Verify that all components listed below are present.

Figure 2.1: Contents of the LAUNCH X431 PRO Star package.

- LAUNCH X-431 PRO STAR Tablet
- Carrying Box
- Diagnostic Cable (OBDII)
- Type-C USB Cable
- AC Adapter
- US Plug, UK Plug, EU Plug
- User Manual
- Quick Guide

- Packing List
- PIN Envelope

2.2 Initial Device Configuration

1. **Charge the Device:** Fully charge the LAUNCH X431 PRO Star tablet using the provided AC adapter and Type-C USB cable before first use.
2. **Power On:** Press and hold the power button to turn on the device.
3. **Language and Time Zone:** Follow the on-screen prompts to select your preferred language and time zone.
4. **Connect to Wi-Fi:** Connect the device to a stable Wi-Fi network (supports 2.4GHz and 5.0GHz). Internet access is required for registration and software updates.
5. **Register Account:** Register an account on the manufacturer's website using the serial number provided with your device.
6. **Software Update:** After registration, you will be prompted to update the software. Perform all available updates to ensure optimal functionality and access to the latest vehicle data. This process may take some time.

3. Operating Instructions

3.1 Connecting to a Vehicle

1. Locate the vehicle's OBDII port, typically under the dashboard on the driver's side.
2. Connect the diagnostic cable to the LAUNCH X431 PRO Star tablet.
3. Connect the other end of the diagnostic cable to the vehicle's OBDII port.
4. Turn the vehicle's ignition to the 'ON' position (do not start the engine).

3.2 Basic Diagnostic Functions

Once connected, the device will attempt to auto-detect the vehicle's VIN. If auto-detection fails, you can manually enter the vehicle information.

- **Health Report:** After identifying the vehicle, the system can generate a comprehensive health report.
- **Full System Scan:** Perform a complete scan of all available vehicle systems.
- **Read/Clear Codes:** View diagnostic trouble codes (DTCs) and clear them after repairs.
- **Live Data:** Monitor real-time data streams from various sensors and components.

Figure 3.1: Overview of OE-level all system diagnostic capabilities.

3.3 Advanced Maintenance Services (37+)

The LAUNCH X431 PRO Star offers over 37 advanced maintenance and reset functions, with the potential to expand to over 130 types depending on the vehicle's make, model, and year. These services include:

- Oil Reset
- ABS Bleeding
- Battery Registration
- EPB Reset (Electronic Parking Brake)
- DPF Regeneration (Diesel Particulate Filter)
- Injector Coding
- SAS Reset (Steering Angle Sensor)
- Throttle Matching
- TPMS Reset (Tire Pressure Monitoring System)
- Gearbox Reset
- Suspension Reset
- AFS Headlamp Reset

Figure 3.2: Examples of the 37+ maintenance service functions.

3.4 Bi-Directional Control (Active Test)

This feature allows the technician to send commands to vehicle systems and components to test their functionality. This helps in quickly identifying faulty components without manual disassembly. Examples include:

- Turning the radiator fan on/off
- Testing door lock actuators
- Energizing injectors
- Operating mirrors
- Opening/closing windows

Figure 3.3: Illustration of bi-directional control capabilities.

3.5 ECU Coding

ECU Coding enables the matching, relearning, and coding of newly installed ECU modules after repairs or replacements. It also allows for the activation of higher-level vehicle functions. This includes:

- Flash/Match/Calibration
- Recode and Relearn
- Alter Configuration
- Reprogram Adaptive Data
- Recognize New CPU
- Match Current Settings
- Customize Car Features (e.g., automatic lock, reverse rearview mirror down, windows close when rain)

Figure 3.4: Examples of ECU coding applications.

3.6 FCA SGW Vehicle Access & Quick Guided Functions

- **FCA SGW:** The X431 PRO Star is AutoAuth certified, allowing secure diagnosis of SGW (Security Gateway) vehicles without limitations.
- **Quick Guided:** Provides step-by-step guidance for Volkswagen group vehicles, simplifying complex diagnostic procedures.

3.7 Extension Modules

The device supports various optional add-on tools to expand its capabilities, including:

- Battery Tester (e.g., BST360)
- Videoscope (e.g., VSP-600)
- Oscilloscope (e.g., O2-2)
- TPMS Detector (e.g., TSGUN, i-TPMS)
- WiFi Thermal Printer (e.g., X-431)
- ADAS Calibration Tool
- XPROG 3 (Immobilizer Programmer)

Figure 3.5: Various optional extension modules for the X431 PRO Star.

4. Maintenance

4.1 Software Updates

The LAUNCH X431 PRO Star includes 2 years of free software updates. After this period, the device will continue to function, but new software releases and vehicle data updates will require a subscription. Regular updates ensure compatibility with new vehicle models and access to the latest diagnostic features.

4.2 General Care

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

5. Troubleshooting

If you encounter issues with your LAUNCH X431 PRO Star, consider the following:

- **Connection Issues:** Ensure the diagnostic cable is securely connected to both the scanner and the vehicle's OBDII port. Verify the vehicle's ignition is in the 'ON' position.
- **Software Malfunctions:** Ensure the device's software is up to date. A factory reset may resolve persistent software issues (note: this will erase user data).
- **Vehicle Compatibility:** While the device covers over 99% of vehicles, specific advanced functions may vary by make, model, and year. Consult the vehicle coverage list or contact support for details.
- **Device Performance:** If the device is slow or unresponsive, try restarting it. Ensure sufficient battery charge.

6. Specifications

Feature	Specification
Model	LAUNCH X-431 PRO STAR
Operating System	Android 10.0
Processor	2.0GHz 4-Core
RAM	4GB
ROM (Storage)	64GB
Display	8-inch Touch Screen (1280x800 resolution)
Battery	6000mAh
Connectivity	Wi-Fi (2.4/5.0 GHz), CANFD, DoIP
Camera	8.0 MP Rear-facing
Item Weight	8.4 pounds
Package Dimensions	13.6 x 13.2 x 6.1 inches
Automotive Fit Type	Universal Fit

7. Warranty and Support

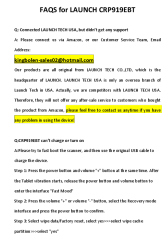
7.1 Warranty Information

The LAUNCH X431 PRO Star comes with a**2-year warranty** covering manufacturing defects and hardware malfunctions.

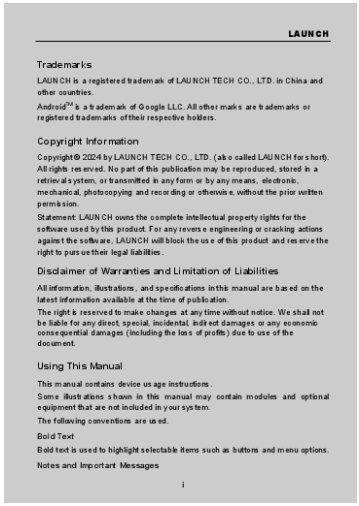
7.2 Technical Support

LAUNCH provides **7*24 technical support** for any post-sales issues or technical assistance. For support, please refer to the contact information provided in your product packaging or visit the official LAUNCH website.

Related Documents - X-431 PRO STAR

	[LAUNCH X431 PRO DYNO User Manual] 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.
	[LAUNCH X431 PRO ELITE FAQs and User Guide] Frequently asked questions and guidance for the LAUNCH X431 PRO ELITE automotive diagnostic tool, covering registration, updates, subscriptions, troubleshooting, and features.
	[LAUNCH CRP919X BT: FAQs, Troubleshooting, and Support] Comprehensive FAQs for the LAUNCH CRP919X BT automotive diagnostic tool. Find answers on setup, software updates, language settings, troubleshooting charging issues, and more.
	[LAUNCH CRP919EBT FAQs and Troubleshooting Guide] Frequently Asked Questions and troubleshooting steps for the LAUNCH CRP919EBT diagnostic scan tool, covering software updates, registration, password reset, and common issues.
	[LAUNCH CRP919E FAQs: Your Guide to Advanced Automotive Diagnostics] Frequently Asked Questions about the LAUNCH CRP919E OBD2 scanner, covering usage, updates, features like bidirectional control, ECU coding, special services, and troubleshooting.
	[LAUNCH AUTO Smart Diagnostic Tool Quick Start Guide] This guide provides instructions for setting up and using the LAUNCH AUTO Smart Diagnostic Tool, including charging, language settings, Wi-Fi setup, registration, and vehicle connection for diagnostics.

Documents - LAUNCH – X-431 PRO STAR



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Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system.

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Notes and Important Messages

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[pdf] User Manual Specifications

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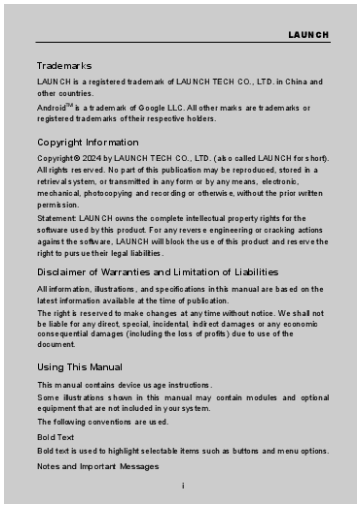

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