LAUNCH LAUNCH X431 919E

LAUNCH X431 CRP919E OBD2 Diagnostic Scanner User Manual

Model: LAUNCH X431 919E | Brand: LAUNCH

1. Introduction

This manual provides detailed instructions for the operation and maintenance of your LAUNCH X431 CRP919E OBD2 Diagnostic Scanner. Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its functionality. Keep this manual for future reference.

Figure 1.1: LAUNCH X431 CRP919E Diagnostic Scanner in its protective carrying case.

2. Product Overview

The LAUNCH X431 CRP919E is an advanced OBD2 diagnostic scanner designed for comprehensive vehicle analysis. It features a 7-inch sensitive touchscreen, a fast Android 10.0 operating system, and a robust 6100mAh built-in battery. The device combines keypad and touchscreen input for versatile operation.

Figure 2.1: Key features and hardware specifications of the LAUNCH X431 CRP919E Elite.

Key features include:

- Powerful ECU Coding and Full Bi-directional Control.
- Over 35+ Hot Resets (with access to 100+ functions in the system).
- Support for new CAN FD & DoIP Protocols.
- OE-level Full System Diagnostics for 200+ global car brands (1996-2025).
- FCA Autoauth for 2018 and newer FCA vehicles.
- Newly added PMI function, i-TPMS & BST360 Expansion Modules support.
- Battery Voltage Monitor and 8MP Camera.

The device is equipped with 3GB RAM and 32GB ROM for efficient performance and storage.

Video 2.1: A detailed look at the hardware components and design of the LAUNCH X431 CRP919E.

3. What's in the Box

Your LAUNCH X431 CRP919E package includes the following items:

- LAUNCH X431 919E Diagnostic Tool
- OBD II Diagnostic Cable
- DC 5V Charging Cable
- US Plug Adapter
- EU Plug Adapter
- UK Plug Adapter
- Multilingual Quick Start Guide
- User Manual
- Carrying Case

4. Setup

Before first use, ensure the device is fully charged using the provided DC 5V charging cable and appropriate plug adapter. Connect the scanner to a Wi-Fi network to download necessary software updates and vehicle data.

1. **Power On:** Press and hold the power button to turn on the device.
2. **Initial Setup:** Follow the on-screen prompts to select your preferred language, time zone, and connect to a Wi-Fi network.
3. **Software Update:** Navigate to the 'Upgrade' section on the main menu and download all available software updates for optimal performance and vehicle compatibility.
4. **Vehicle Connection:** Locate your vehicle's OBD2 port (usually under the dashboard) and connect the OBD II Diagnostic Cable to both the vehicle and the scanner.

Video 4.1: Demonstrates connecting the scanner to a vehicle and initiating the auto-detect process for diagnostics.

5. Operating Instructions

5.1 Basic Diagnostics

The CRP919E offers comprehensive OE-level all-system scanning. From the main menu, select 'Diagnose' to begin.

- **Auto VIN:** The scanner can automatically identify vehicle information (Year, Make, Model) for most vehicles (2006 and newer).
- **System Scan:** Perform a quick scan on all available vehicle systems (ABS, Engine, SRS, AT, TPMS, BMS, etc.) to read and clear DTCs.
- **Live Data:** View real-time sensor data in text or graphic formats (e.g., engine speed, temperature, mass air flow). The device supports 8-in-1 live data display.
- **Freeze Frame:** Capture a snapshot of sensor data when a DTC is set, providing context for the fault.
- **ECU Information:** Retrieve detailed information about the vehicle's Electronic Control Units.

Figure 5.1: Overview of OE-level all-system scan capabilities, including Auto VIN and live data display.

5.2 Bi-directional Control (Active Test)

This function allows you to send commands to the ECU to activate specific components and test their functionality, greatly assisting in troubleshooting. The CRP919E supports over 4000 active tests.

- **Component Activation:** Directly activate components such as injectors, coils, wipers, valves, fuel pumps, A/C clutch, and more.
- **System Tests:** Perform tests like fuel pump test, individual actuator tests, horn test, and throttle modulation.

Figure 5.2: Illustration of bi-directional control, showing the ability to send commands and receive responses from vehicle components.

5.3 Special Functions (Resets/Relearns/Calibrations)

The scanner provides access to over 35 commonly used maintenance and service functions, with more than 100 available by navigating through specific car brands and system modules.

- **Common Resets:** EPB Reset, Oil Reset, SAS Reset, BAT Reset, ABS Bleeding, Throttle, TPMS, DPF, GPF.
- **Advanced Functions:** Crankshaft/Camshaft Relearn, Injector Coding, Suspension, EGR, AC System Relearn/Initialization, Gear Learning, Language Change, NOx Sensor Reset, Seats Calibration, Stop/Start Reset, Sunroof, Transport Mode, Tyre Reset, Windows Calibration.

Figure 5.3: A visual representation of various special functions and resets supported by the scanner.

5.4 ECU Coding

The CRP919E supports advanced ECU coding functions to customize vehicle settings and optimize performance.

- **Online ECU Coding:** Access online coding for various vehicle modules.
- **ECU Replacement:** Perform adaptive data for replacement ECUs and restore functions if data is lost.
- **Component Matching:** Match new components to the vehicle's ECU.
- **Personalization & Retrofit:** Customize vehicle features and integrate aftermarket installations.
- **PMI (Programmable Module Installation):** Support for programmable module installations.

Figure 5.4: Examples of ECU coding capabilities, such as mirror folding, seatbelt warnings, and headlight adjustments.

5.5 Vehicle Coverage & Protocols

The CRP919E offers extensive vehicle coverage, supporting over 200 car brands and 100,000+ car models from 1996-2025, including OBD1/OBD2/EOBD/JOBD vehicles. It supports 12V passenger cars, pickups, hybrid cars, and SUVs.

- **New Protocols:** Compatible with new CAN FD (for GM models 2020+) and DoIP (for BMW F&G chassis, Volvo 2018+, Land Rover & Jaguar 2017+) protocols without extra adapters.
- **FCA Autoauth:** Supports FCA AutoAuth for 2018 and newer FCA vehicles (Chrysler, JEEP, Dodge, Fiat) without special adapters (requires FCA account login).

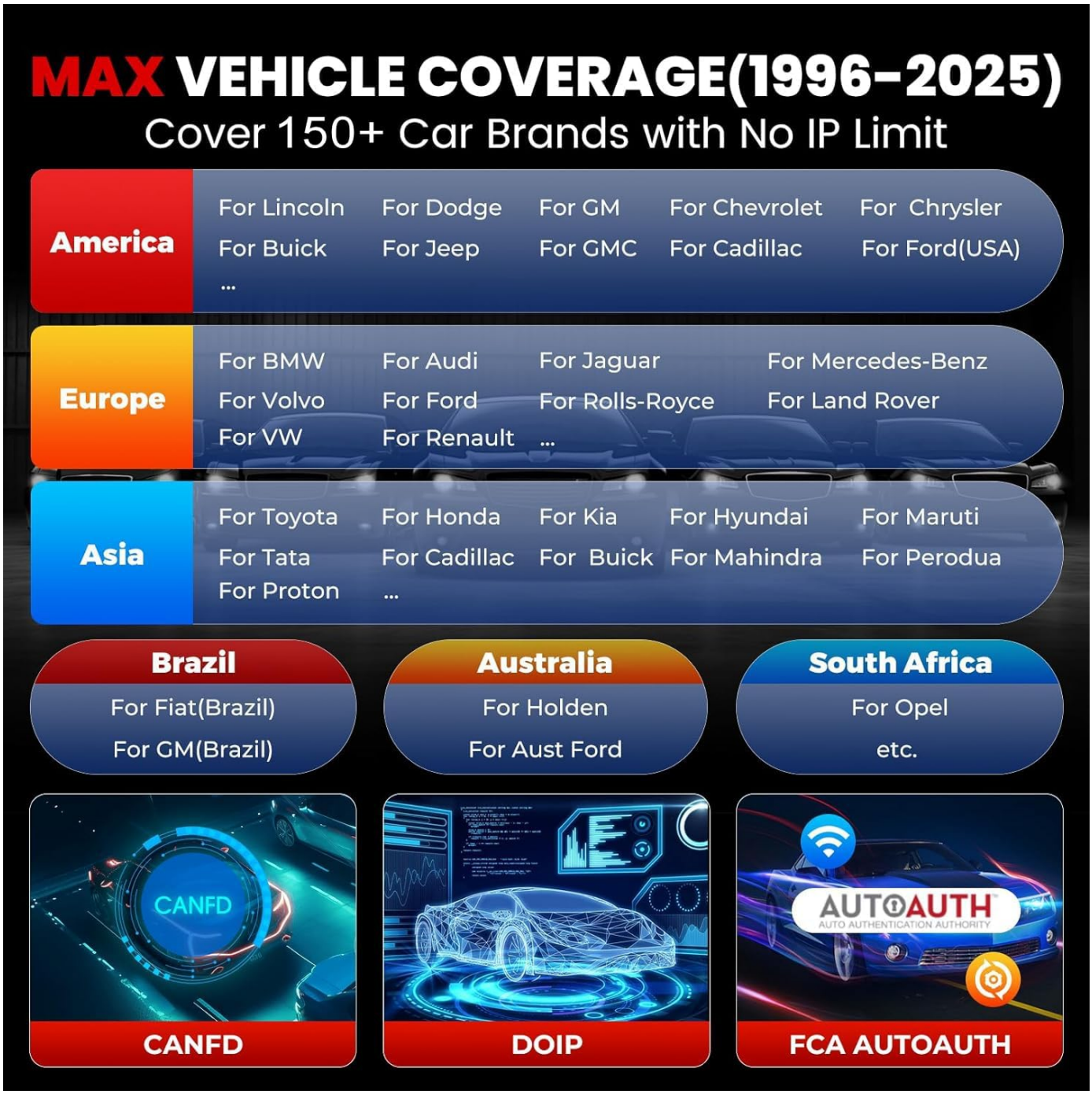

Figure 5.5: A map illustrating the wide vehicle coverage and supported diagnostic protocols.

5.6 Add-on Modules

The CRP919E can be expanded with optional modules for additional functionalities.

- **BST360:** For testing 12V batteries.
- **i-TPMS:** For complete TPMS functions.

Figure 5.6: Displaying add-on modules like i-TPMS and BST360, alongside other user-friendly features.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your scanner.

- **Software Updates:** The device offers 2-year free updates. Connect to Wi-Fi and use the 'Upgrade' function for one-click online updates to fix bugs and expand vehicle coverage/functions.
- **Battery Monitoring:** The CRP919E can display real-time battery voltage in graphics, helping you monitor the vehicle's battery condition.
- **Data Management:** Diagnostic reports and data streams can be saved, recorded, screenshot, played back, shared, and printed for review.

7. Troubleshooting

For any issues encountered during operation, refer to the following resources:

- **Online Feedback:** If you have questions or encounter problems, you can contact LAUNCH technicians directly through the 'Feedback' function on the device.
- **DTC Library:** Use the built-in DTC Library to understand the meaning of fault codes.
- **Repair Resources:** Access massive repair resources including operation skills, technology handbooks, how-to videos, and TPMS databases.

Figure 7.1: Overview of available repair resources and support options.

8. Specifications

Feature	Specification
Brand	LAUNCH

Model	LAUNCH X431 919E
Operating System	Android 10.0
Screen Size	7 Inches
RAM/ROM	3GB/32GB
Battery	6100mAh
Camera	8MP
Connectivity	2.4 & 5GHz WiFi
Product Dimensions	17.1"L x 11.1"W x 14.6"H
Item Weight	6.18 pounds
Power Source	Battery Powered
UPC	884508003462

9. Warranty and Support

Your LAUNCH X431 CRP919E comes with comprehensive support to ensure your satisfaction.

- **Updates:** Enjoy 2 years of free software updates to keep your device current with the latest vehicle models and functions.
- **Backup Support:** We offer 5 years of backup support.
- **Returns:** A 90-day no-questions-asked return and refund policy is provided.
- **Technical Support:** 24/7/365 technical support is available to assist you with any queries or issues.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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.

Submit question