

LAUNCH CRP919E Lite

LAUNCH X431 CRP919E Lite Bidirectional Scan Tool User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. INTRODUCTION

The LAUNCH X431 CRP919E Lite is a professional-grade bidirectional scan tool designed for comprehensive vehicle diagnostics. This device provides extensive capabilities for reading and clearing diagnostic trouble codes, viewing live data, performing active tests, and executing various maintenance and reset services across a wide range of vehicle makes and models. This manual provides essential information for setting up, operating, and maintaining your CRP919E Lite scan tool.

2. PRODUCT OVERVIEW AND PACKAGE CONTENTS

The CRP919E Lite features a robust design with a 7-inch touchscreen and an intuitive Android 8.1 operating system, ensuring efficient and user-friendly operation.



Image: The LAUNCH X431 CRP919E Lite scan tool displayed with its protective carrying case.

2.1. What's in the Box

Verify that all the following items are included in your package:

- LAUNCH CRP919E Lite Main Unit
- US/UK/EU Power Plug
- Main Diagnostic Cable
- DC Charge Cable
- User Manual
- Quick Guide
- Protective Carrying Case

PACKING LIST



**100% Brand
Original**



**5-Year
Maintenance**



**2-Year
Free Update**



**60-Day
Refund/Return**



**7/24/365
Tech Support**



**CPR919E
Elite**



**Carrying
Case**



**Charging
plug**



UK Plug



EU Plug



**OBD
Extension**



**power
Line**



**User
Manual**

Image: A visual representation of the LAUNCH CRP919E Lite package contents, including the main unit, cables, plugs, and documentation.

3. SETUP AND INITIAL CONFIGURATION

3.1. Powering On the Device

1. Ensure the device is sufficiently charged. Connect the DC Charge Cable to the device and a power source using the provided power plug if necessary.
2. Press and hold the power button located on the side of the device until the screen illuminates.

3.2. Language Selection

Upon first startup, you will be prompted to select your preferred language. The device supports 11 languages, including English, Spanish, French, German, Russian, Portuguese, Italian, Chinese, Korean, and Japanese.

3.3. Wi-Fi Connection

To access software updates and online features, connect the device to a Wi-Fi network:

1. Navigate to the "Settings" menu on the main screen.

2. Select "Wi-Fi" and choose your desired network.
3. Enter the password if prompted and connect.

3.4. Software Updates

It is recommended to update the software upon initial setup to ensure you have the latest features and vehicle coverage.

1. Ensure the device is connected to Wi-Fi.
2. From the main menu, tap on the "Upgrade" icon.
3. Follow the on-screen prompts to download and install available updates. The device includes 2 years of free software updates.

4. OPERATING THE DEVICE

4.1. Connecting to the Vehicle

1. Locate the vehicle's OBD2 diagnostic port, typically under the dashboard on the driver's side.
2. Connect the Main Diagnostic Cable to the CRP919E Lite and then to the vehicle's OBD2 port.
3. Turn the vehicle's ignition to the "ON" position (engine off).

4.2. AutoVIN and AutoScan

The AutoVIN and AutoScan functions streamline the diagnostic process:

1. From the main menu, tap the "Diagnose" icon.
2. Select "AutoVIN" or "AutoScan". The device will automatically identify the vehicle's VIN and initiate a comprehensive scan of all diagnosable Electronic Control Units (ECUs).
3. This function is primarily effective on vehicles manufactured from 2006 onwards.

MORE ADVANCED SPECIAL FUNCTIONS

Reset, Relearn, Calibration, Initialization, Adaptation



Fuel Trim Reset



ABS Initialization



Idle Learn Reset



SWS Calibration



Fuel Injector Balance



Alcohol Content Reset



Crankshaft Sensors Relearn



ATF Oil Fluid Reset

- | | | |
|--|-------------------------------|-------------------------------------|
| ◦ Yaw Rate Sensor Calibration | ◦ Cam Crank Relearn | ◦ Hydraulic Control Test |
| ◦ Fuel Pump Duty Learning | ◦ Rain Sensor Calibrate | ◦ Clear Transmission Adaptive Table |
| ◦ Clear AT learning Value | ◦ Service Bay Test | ◦ Gear Position Sensor Learn |
| ◦ VGT Turbo Actuator Activation | ◦ AC Clutch Relay | ◦ Fuel Density Learning Value Reset |
| ◦ Injector Injection Quantity Adjustment | ◦ HVAC Actuators Learn | ◦ Linear Solenoid Valve Calibration |
| ◦ Transmission Adaptive Value Reset | ◦ HO2S Heater Learn | ◦ Brake Wear Sensor Register |
| ◦ Power Steering Sensor Learn | ◦ Battery Sensor Module Learn | More... |

Image: The LAUNCH CRP919E Lite screen displaying an AutoVIN scan in progress, identifying vehicle information.

4.3. Full System Diagnostics

The CRP919E Lite performs comprehensive diagnostics across all available vehicle systems, including but not limited to:

- Engine Control Module (ECM)
- Anti-lock Braking System (ABS)
- Supplemental Restraint System (SRS)
- Transmission Control Module (TCM)
- Electronic Parking Brake (EPB)
- Tire Pressure Monitoring System (TPMS)
- Steering Angle Sensor (SAS)
- Air Conditioning (A/C)
- Battery Management System (BMS)
- Electronic Stability Program (ESP)
- Body Control Module (BCM)
- Powertrain Control Module (PCM)

Within these systems, you can:

- **Read Codes:** Retrieve Diagnostic Trouble Codes (DTCs) to identify specific issues.
- **Clear Codes:** Erase DTCs after repairs have been completed.
- **View Live Data:** Monitor real-time sensor data in text, graph, or combined formats.
- **Freeze Frame Data:** View a snapshot of sensor data at the moment a DTC was set.
- **ECU Information:** Access control unit details such as part numbers and software versions.



Image: A graphic illustrating the CRP919E Lite connected to a vehicle, performing diagnostics across various systems like ABS, BMS, EPB, and TPMS.

4.4. Live Data Stream Analysis

The device offers advanced live data stream capabilities:

- **Multiple Display Modes:** View data in text, graph, or a combined 4-in-1 graph format for easy comparison.
- **Record and Playback:** Capture live data streams for later review and analysis, aiding in the diagnosis of intermittent issues.

4.5. Bi-directional Control (Active Tests)

Bi-directional control allows the scan tool to send commands to vehicle ECUs to test specific components or subsystems. This helps in quickly pinpointing faulty components without extensive disassembly.

ACTIVE TESTS (Bi-Directional Control)

Faster, Smarter, Determine The Integrity of A System or Component



 <p>Fuel Pump on & off</p>	 <p>Cycle A/C clutch</p>	 <p>Exhaust Flap</p>	 <p>Window/Mirror/Door Tests</p>
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• Injector Buz	• Open/Close Windows	• Door Actualors
• Clutch On/Off	• Radiator Fan	• Open Brakes
• Test Injector	• Brake Vacuum	• Interior light
• Modulate Throttle	• Exterior Lighis	• ACC Lkas
• Sound Horn	• Parking Brake	• Acceleration Device
• Acceleration Device	• OH Pressure Control	• Wheel Speed Sensor
• Left Clutch Elec.Coil	• Inlet & Outlet Valve	• Camera/Throttle
• Radiator Shutter	• ACM Solenoid	More...

Image: The CRP919E Lite screen showing active test options, with a car graphic illustrating the command and receive process for component testing.

Examples of active tests include:

- Fuel Pump On/Off
- Cycle A/C Clutch
- Open/Close Windows
- Radiator Fan Activation
- Injector Buzz Test
- Headlamp Adjustment
- Window Wipers Settings
- Horn Assessment
- ABS Pump Motor Test
- EVAP Purge/Seal Test

Note: Available active tests vary by vehicle make, model, and year.

4.6. Special Functions and Reset Services

The CRP919E Lite provides over 32 common maintenance and reset services. These functions help in performing routine vehicle maintenance and adaptations.

32+ HOT MAINTENANCE SERVICES
Meets The Daily Needs Of Every Professional Mechanic

Oil Reset **ABS Bleeding**

EPB Reset **Throttle Relearn**

TPMS Reset **D.P.F Reset**

Airbag **SUS** **Gear Learning** **Head Light**

SAS **Wiper** **Seats** **Sunroof**

Injector **EEPROM Adapter** **Power Balance** **Tire Upgrade**

A/F **Language Change** **Gear Box** **Engine**

FUEL Reset **BMS Reset** **DPF Reset** **More...**

Get More: **Diagnose** **Car Model** **Select Special System** **Special Functions**

Image: A collage of icons representing various maintenance services available on the CRP919E Lite, such as Oil Reset, ABS Bleeding, and EPB Reset.

Key services include:

- **Oil Reset Service:** Resets the engine oil life system after an oil change.
- **EPB Electronic Park Brake Reset:** Resets the electronic parking brake system after brake pad replacement.
- **Injector Coding:** Codes new injector numbers into the ECU when replacing injectors.
- **Throttle Adaptation:** Initializes throttle actuators to return learned values to default.
- **SAS Steering Angle Sensor Reset:** Performs calibration and clears records for the steering angle sensor.
- **ABS Bleeding:** Bleeds the brake system to restore ABS brake sensitivity when air is present.

- **Windows Calibration:** Performs window matching to recover ECU initial memory.
- **Battery Matching (BAT):** Registers new battery replacement.
- **Diesel Particulate Filter (DPF) Reset:** Initiates DPF regeneration.
- **TPMS Reset:** Resets tire pressure monitoring system sensors.
- **Gear Learning:** Performs crankshaft position sensor adaptive learning.
- **EGR Adaptation:** Adapts the Exhaust Gas Recirculation valve.
- **Suspension Matching:** Adjusts vehicle height sensor calibration.
- **NOx Sensor Reset:** Resets the NOx sensor after replacement.
- **AC Initialization:** Initializes the air conditioning system.
- **AdBlue Reset:** Resets the urea system.
- **AFS Headlamp Reset:** Resets the Adaptive Front-lighting System.
- **A/F Reset:** Adjusts air/fuel ratio parameters.
- **Coolant Bleeding:** Removes air from the cooling system.
- **Seat Calibration:** Calibrates seat memory functions.
- **Sunroof Initialization:** Initializes sunroof memory.
- **Language Change:** Changes the display language of the vehicle's instrument cluster.

Note: The availability of specific functions depends on the vehicle's make, model, and year.

4.7. FCA AutoAuth Access

The CRP919E Lite supports secure access to FCA (Fiat Chrysler Automobiles) vehicles from 2017 and newer, allowing diagnostics and special functions on models like Chrysler, Dodge, Jeep, and Fiat. To use this feature:

1. Ensure the scan tool has the latest software updates and is connected to the internet.
2. When prompted on the tool for SGW (Security Gateway) vehicles, enter your AutoAuth credentials.

4.8. OBD2 Test Modes

The device supports all 10 test modes of OBDII/EOBD/CAN standards for vehicles manufactured from 1996 to 2025:

- Read Codes
- Clear Codes
- Live Data Stream
- Freeze Frame
- On-Board Monitor Test
- O2 Sensor Test
- Read Vehicle Information
- Component Test
- I/M Readiness
- EVAP System Test

5. MAINTENANCE

5.1. Software Updates

Regular software updates are crucial for maintaining optimal performance and expanding vehicle coverage.

The CRP919E Lite offers 2 years of free updates via one-click Wi-Fi. After this period, the device will continue to function, but new updates will require a subscription.

5.2. Battery Care

The device is equipped with a 6000 mAh lithium-ion battery. To prolong battery life:

- Avoid extreme temperatures.
- Charge the device regularly, but avoid overcharging for extended periods.
- If storing the device for a long time, ensure it has a partial charge (around 50%).

The device also features a real-time battery voltage monitor to help you keep track of your vehicle's electrical system.

5.3. Cleaning the Device

Use a soft, damp cloth to clean the screen and exterior of the device. Avoid using abrasive cleaners or solvents.

6. TROUBLESHOOTING

6.1. DTC Help and Code Search

When the CRP919E Lite displays an error code, the "DTC Help" feature can provide definitions and potential repair guidance. You can also use the "Code Search" function to find more online resources and tips.

6.2. Diagnostic History and Reports

The device automatically records diagnostic processes, allowing for later review and analysis. Diagnostic reports can be generated, shared via Wi-Fi or email, and printed for documentation or customer records.

6.3. Online Feedback

If you encounter unresolved issues or have suggestions, the "Online Feedback" feature allows you to submit detailed reports directly through the device, including interactive data logging sessions.


6.4. Expansion Modules

The CRP919E Lite is compatible with optional expansion modules, sold separately, to enhance its capabilities:

- **BST360 Battery Tester:** For comprehensive battery health, starting system, and charging system tests.
- **X431 i-TPMS TSGUN:** For professional TPMS diagnostics, sensor activation, relearn, and programming.

7. SPECIFICATIONS

Feature	Specification
Operating System	Android 8.1
Display	7-inch Touchscreen (1024*600 pixels)
Memory	3GB RAM + 32GB ROM

<p>FAQs for LAUNCH X431 PRO ELITE</p> <p>Before to register and update the software, please read the following instructions:</p> <p>1. Please read the user manual carefully and understand the functions of the software.</p> <p>2. Please read the user manual carefully and understand the functions of the software.</p> <p>3. Please read the user manual carefully and understand the functions of the software.</p> <p>4. Please read the user manual carefully and understand the functions of the software.</p> <p>5. Please read the user manual carefully and understand the functions of the software.</p> <p>6. Please read the user manual carefully and understand the functions of the software.</p> <p>7. Please read the user manual carefully and understand the functions of the software.</p> <p>8. Please read the user manual carefully and understand the functions of the software.</p> <p>9. Please read the user manual carefully and understand the functions of the software.</p> <p>10. Please read the user manual carefully and understand the functions of the software.</p>	<p>LAUNCH X431 PRO ELITE FAQs and User Guide</p> <p>Frequently asked questions and guidance for the LAUNCH X431 PRO ELITE automotive diagnostic tool, covering registration, updates, subscriptions, troubleshooting, and features.</p>
<p>FAQs for LAUNCH CRP919X BT</p> <p>Q: I connected LAUNCH TECH USA but didn't receive support.</p> <p>A: You can contact us directly via email or our Customer Service Team at support@launchusa.com. Please note that our products are designed for LAUNCH TECH (USA), LLC. The headquarters of LAUNCH TECH USA is a branch in the USA, we are responsible and they do not provide after sales service for products purchased online. Feel free to email us to get any assistance.</p> <p>Q: My CRP919X BT won't charge or turn on.</p> <p>A: You can try restarting the scanner and use the original USB cable for charging.</p> <p>Press the power and volume "+" buttons simultaneously until the screen displays "Please Charge".</p> <p>Select the Recovery mode by using the volume buttons, confirm with the power button.</p> <p>Choose "Factory Data Erase" and if there "Nope" (no the password), confirm each step with "Yes".</p> <p>Afterward, power off and then normally power on the device.</p> <p>Q: How do I register the CRP919X BT?</p> <p>A: To register select "New Registration". Follow the steps to create an account, and activate the VCI. Use the password envelope included in the package.</p>	<p>LAUNCH CRP919X BT: FAQs, Troubleshooting, and Support</p> <p>Comprehensive FAQs for the LAUNCH CRP919X BT automotive diagnostic tool. Find answers on setup, software updates, language settings, troubleshooting charging issues, and more.</p>
<p>Version: V1.00.000 File size: 10.24 MB</p>	<p>LAUNCH X431 PRO DYNO User Manual</p> <p>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.</p>
	<p>LAUNCH X431 CRP919X Quick Start Guide</p> <p>A concise guide to getting started with the LAUNCH X431 CRP919X diagnostic tool, covering components, setup, and basic diagnostics.</p>