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LAUNCH HD 129

LAUNCH X431 PRO3 ACE Diagnostic Tool User Manual

Model: HD 129

1. Introduction

This manual provides detailed instructions for the safe and effective operation of your LAUNCH X431 PRO3 ACE diagnostic tool. Please read this manual thoroughly before using the device and keep it for future reference.



Figure 1: LAUNCH X431 PRO3 ACE diagnostic tool and accessories in its robust carrying case.

2. What's in the Box

Upon unpacking, verify that all items listed below are present and in good condition. If any item is missing or damaged, contact your vendor.

- LAUNCH X431 PRO3 ACE Tablet
- DBSCarVII VCI Connector
- OBD-II Extension Cable
- Various OBD-I Adapters (e.g., BMW-20, TOYOTA-22, KIA-20, HONDA-3, GM/VAZ-12, CHRYSLER-6, TOYOTA-17, BENZ-38, NISSAN-14+16, MITSUBISHI/HYUNDAI-12+16, BENZ-14)
- Power Adapter (Type-A to Type-C USB cable, US Plug, EU Plug, UK Plug)
- Battery Clamp Cable
- Cigarette Lighter Cable
- Fuses

- User Manual
- Quick Start Guide
- Password Envelope
- Protective Carrying Case



Figure 2: Overview of the LAUNCH X431 PRO3 ACE package contents, including the main unit, VCI, and a comprehensive set of connectors.

3. Setup

3.1 Charging the Device

Before first use, fully charge the LAUNCH X431 PRO3 ACE tablet. Connect the power adapter to the tablet's USB-C port and plug it into a power outlet. The charging indicator will show the charging status.

3.2 Initial Power-On

Press and hold the Power button until the screen lights up. Follow the on-screen prompts to complete the initial setup, including language selection and time zone settings.

3.3 Wi-Fi Connection

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

1. Go to *Settings* on the tablet.
2. Select *Wi-Fi* and turn it on.
3. Choose your desired network from the list and enter the password if prompted.

3.4 Software Updates

It is recommended to update the software regularly to ensure optimal performance and vehicle compatibility. Connect to Wi-Fi and navigate to the *Software Update* section within the application to download and install the latest versions.

3.5 Connecting to a Vehicle

1. Locate the vehicle's OBD-II port (usually under the dashboard).
2. Plug the DBSCarVII VCI connector into the vehicle's OBD-II port. For older vehicles, use the appropriate OBD-I adapter and cable.
3. Ensure the vehicle's ignition is in the "ON" position (engine can be off).
4. The VCI will establish a Bluetooth connection with the tablet automatically.

4. Operating Instructions

4.1 Vehicle Identification and Diagnostics

The LAUNCH X431 PRO3 ACE supports automatic VIN identification for quick vehicle recognition. Alternatively, you can manually select the vehicle make, model, and year.
Once connected, you can perform comprehensive diagnostics:

- **Read/Clear DTCs:** Retrieve and erase diagnostic trouble codes from all available systems (Engine, ABS, SRS, Transmission, etc.).
- **Live Data Stream:** View real-time data parameters from various sensors and components. Data can be displayed in text, graph, or gauge format. The device supports 12-in-1 live data graphing for detailed analysis.
- **Freeze Frame:** View a snapshot of sensor values at the moment a DTC was set.
- **ECU Information:** Read control unit information such as part numbers and software versions.



Figure 3: Illustration of comprehensive system diagnostics and various bi-directional (active) tests available.

4.2 Topology Map

The topology map feature provides a visual representation of the vehicle's communication network, showing the status and DTCs of each ECU in color. This helps in quickly identifying faulty modules and understanding the system's architecture.



Figure 4: The user-friendly interface displaying topology mapping for quick fault location and 12-in-1 live data stream for detailed analysis.

4.3 ECU Coding

ECU Coding allows you to re-flash control modules, customize vehicle settings, and replace new modules. This includes:

- Online/Offline Coding
- Activating hidden features
- Disabling annoying features (e.g., auto start-stop)
- Reprogramming adaptive data
- Module replacement and initialization

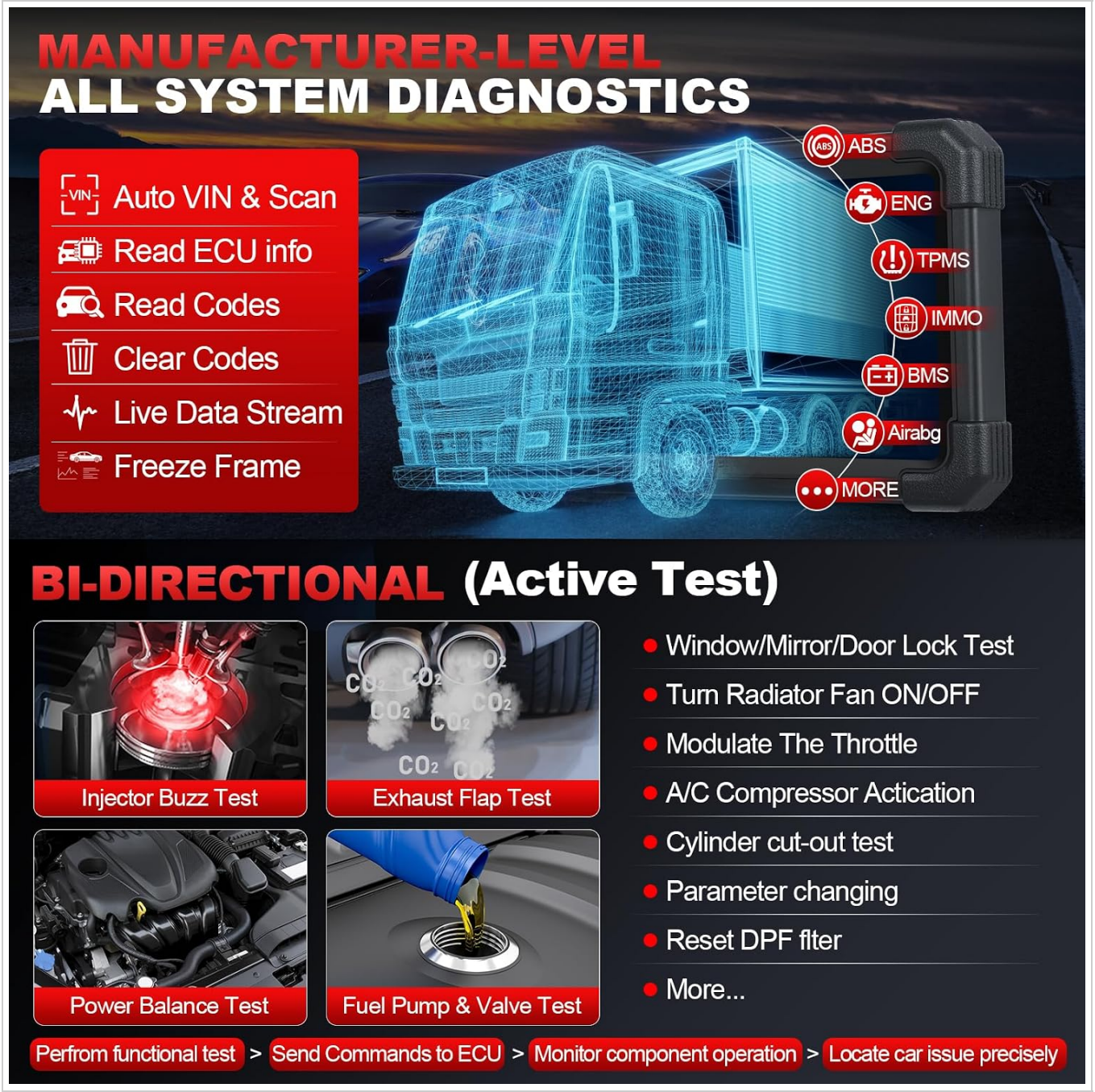


Figure 5: Examples of advanced ECU coding capabilities, such as activating mirror folding, disabling auto start-stop, and adjusting dashboard brightness.

4.4 Bi-directional Control (Active Tests)

This function allows you to send commands to vehicle ECUs to perform specific tests and verify component functionality. Examples include:

- Injector Buzz Test
- Exhaust Flap Test
- Window/Mirror/Door Lock Test
- Radiator Fan ON/OFF
- A/C Compressor Activation
- Fuel Pump & Valve Test

4.5 Reset and Special Functions

The LAUNCH X431 PRO3 ACE offers over 55 reset and special service functions, including but not limited to:

- Oil Reset
- EPB (Electronic Parking Brake) Reset
- SAS (Steering Angle Sensor) Calibration
- IMMO (Immobilizer) Matching
- BMS (Battery Management System) Reset
- TPMS (Tire Pressure Monitoring System) Reset
- ABS Bleeding
- DPF Regeneration
- Throttle Adaptation
- Injector Coding
- Gear Learning
- Suspension Calibration
- Sunroof Initialization



Figure 6: A selection of the 55+ special reset functions available, including common maintenance tasks like oil reset and ABS bleeding.

4.6 Advanced Vehicle Protocols

The device supports modern vehicle communication protocols:

- **CAN FD & DoIP:** Compatible with newer GM (2024), BMW F & G, 2018-Volvo, Land Rover 2017 models, offering faster data transfer.
- **FCA SGW:** Provides automatic access to diagnose FCA vehicles (Chrysler, Dodge, Jeep, Alfa Romeo, Fiat from 2019 onwards).

4.7 Multi-Module Expansion

The LAUNCH X431 PRO3 ACE can be expanded with optional modules for enhanced functionality:

- **LAUNCH X-PROG3:** For advanced key programming and module cloning.
- **LAUNCH ADAS Mobile/Pro:** For calibration of Advanced Driver-Assistance Systems.
- **LAUNCH X431 WiFi Printer:** To print diagnostic reports.
- **LAUNCH BST360:** For battery health monitoring.
- **Videoscope:** To inspect hard-to-reach areas of the vehicle.

5. Maintenance

5.1 Cleaning

Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the screen free of dust and smudges for optimal visibility.

5.2 Software Updates

Regularly check for and install software updates to ensure the device has the latest vehicle coverage and features. Updates are typically available via Wi-Fi.

5.3 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods, with the battery partially charged (around 50%).

5.4 Storage

Store the device and its accessories in the provided protective case to prevent damage from impacts, dust, and moisture.

6. Troubleshooting

6.1 Device Does Not Power On

- Ensure the battery is sufficiently charged. Connect the device to the power adapter and try again.
- If the device still does not power on, contact technical support.

6.2 VCI Not Connecting to Tablet

- Ensure the VCI is properly plugged into the vehicle's OBD-II port and the vehicle's ignition is ON.
- Check if Bluetooth is enabled on the tablet.

- Restart both the tablet and the vehicle's ignition.

6.3 No Communication with Vehicle

- Verify the VCI is securely connected to the vehicle's OBD-II port.
- Ensure the vehicle's ignition is ON.
- Check if the vehicle's battery is sufficiently charged.
- Confirm that the correct vehicle make, model, and year have been selected in the software.
- Try connecting to a different vehicle to rule out a vehicle-specific issue.

6.4 Software Freezes or Crashes

- Restart the application or the tablet.
- Ensure the software is up to date.
- Clear the application cache (via Android settings).

7. Specifications

Feature	Detail
Model Number	HD 129
Operating System	Android 10.0
Processor	2.0 GHz Quad-core
RAM / ROM	4GB / 64GB
Display	10.1-inch Touchscreen
Resolution	1280x800
Battery	6300 mAh
Connectivity	Dual-band Wi-Fi (2.4GHz & 5GHz), Bluetooth
Dimensions (L x W x H)	43.5 x 37.2 x 30.5 cm
Weight	4.5 Kilograms
Supported Languages	German, English, Spanish, French, Italian (and more)
Power Source	Battery Powered



Figure 7: Feature comparison highlighting the superior specifications of the LAUNCH X431 PRO3 ACE.

8. Warranty and Support

8.1 Software Updates

The LAUNCH X431 PRO3 ACE includes 2 years of free software updates from the date of activation. Regular updates ensure continued compatibility with new vehicle models and access to the latest diagnostic features.

8.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact LAUNCH authorized support. Technical support can be reached via email at launchauthorized@163.com.

9. Safety Information

- Always operate the device in a well-ventilated area.

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping the device or subjecting it to severe impacts.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.
- Keep the device away from water and other liquids.
- Use only the provided power adapter and cables.
- When connecting to a vehicle, ensure the vehicle is in a safe, stable position with the parking brake engaged.

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