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› LAUNCH Creader HD V2 Heavy Duty Truck Diagnostic Scanner User Manual

LAUNCH Creader HD V2

LAUNCH Creader HD V2 Heavy Duty Truck Diagnostic Scanner User Manual

Model: Creader HD V2

1. INTRODUCTION

The LAUNCH Creader HD V2 is a versatile diagnostic tool designed for both heavy-duty (HD OBD) and standard passenger vehicle (OBD-II/EOBD) systems. It provides essential functions for vehicle maintenance and fault detection, including reading and clearing fault codes, displaying real-time data streams, graphical data representation, voltage detection, and I/M readiness status checks. This device is engineered to meet the needs of various diagnostic scenarios, from routine maintenance to complex fault identification.

2. WHAT'S IN THE BOX

Upon opening your LAUNCH Creader HD V2 package, please verify that all the following components are included:

- 1 x Creader HD V2 Main Unit
- 4 x Connectors (OBD-6Pin, OBD-9Pin, CT-9Pin, OBD2-16Pin)
- 1 x USB-C Cable
- 1 x Quick Start Guide
- 1 x Canvas Bag

LAUNCH CR HD V2 PACKING LIST



1 x Main Unit



1 x Canvas Bag



1 x Quick Start Guide



1 x USB-C Cable



1 x OBD1 6-Pin



1 x OBD1 9-Pin



1 x CT 9-Pin



1 x OBD2 16-Pin

NAME	PARAMETER
Screen Size	2.8 inches
Storage	16 MB
Interfaces	OBD-II (direct output) and USB-C
Voltage	24 V
Operating Current	0.25 A
Operating Temperature	0°C~50°C
Storage Temperature	-20°C~70°C
Buttons	Up, Down, Left, Right, Confirm, Back, I/M
Certifications	CE, FCC, IC, RoHS
Languages	English, French, Spanish
Software Upgrade	Upgrade package obtained via PC client connection, permanently valid

This image displays all items included in the LAUNCH Creader HD V2 product package, ensuring users can verify their contents upon receipt.

3. DEVICE OVERVIEW

Familiarize yourself with the physical components and controls of your LAUNCH Creader HD V2 diagnostic scanner.

LAUNCH CR HD V2 DEVICE STRUCTURE

Select Button: Used for menu navigation and item selection

Back Button: Quickly return to the previous screen

I/M Button: One-click access to emission readiness status function

LCD Screen: 2.8-inch display of diagnostic information interface

Diagnostic Cable: Connects to the vehicle's DLC for data communication

Confirm Button (OK): Confirm menu option or execute operation

USB Interface: Supports computer connection for firmware upgrades



This image provides a detailed view of the LAUNCH Creader HD V2's physical components and controls, including its 2.8-inch LCD screen and various navigation buttons.

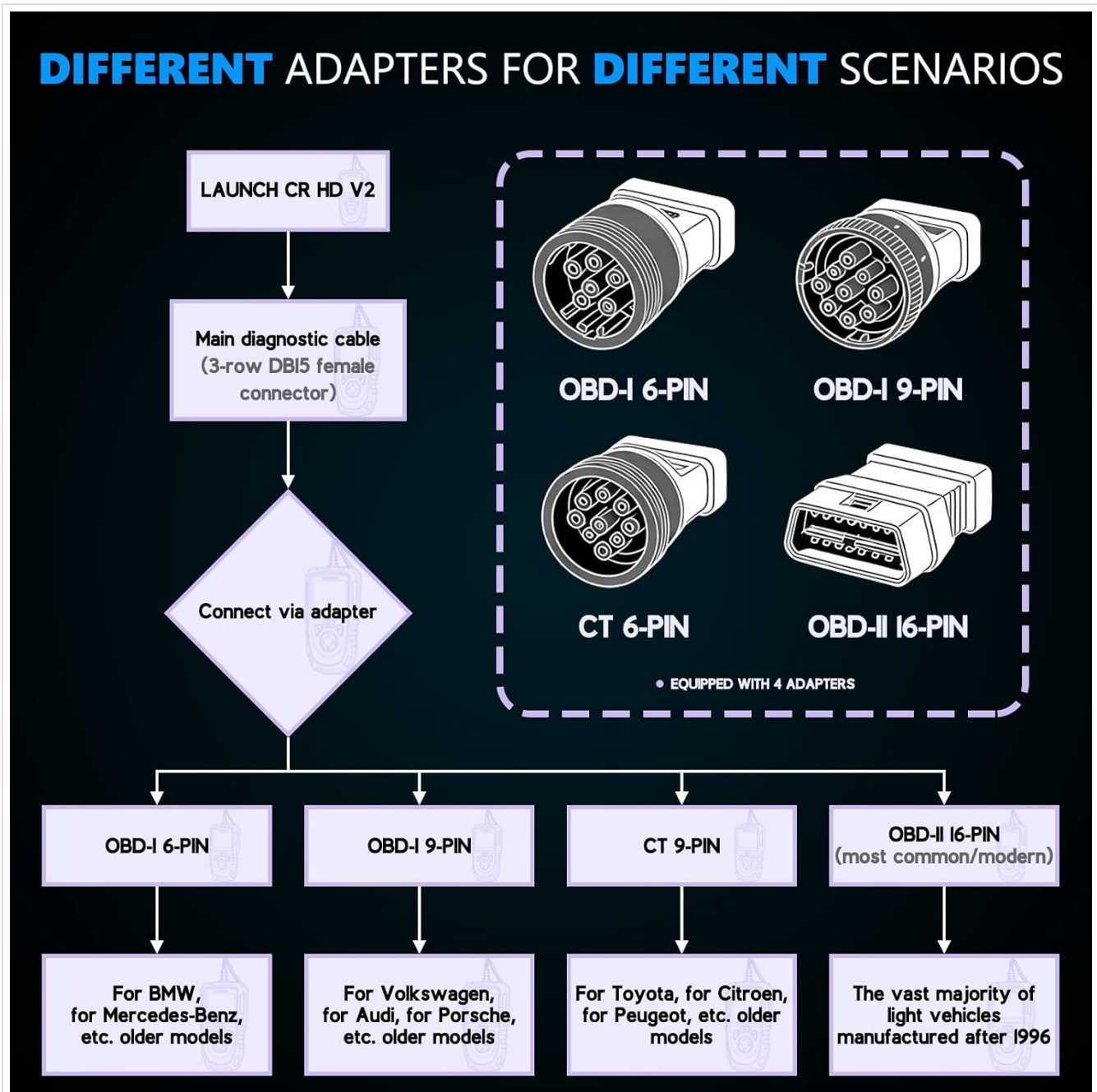
- **Select Button:** Used for menu navigation and item selection.
- **Back Button:** Quickly returns to the previous screen.
- **I/M Button:** One-click access to the emission readiness status function.
- **LCD Screen:** 2.8-inch display for diagnostic information interface.
- **Diagnostic Cable:** Connects to the vehicle's DLC (Data Link Connector) for data communication.
- **Confirm Button (OK):** Confirms menu options or executes operations.
- **USB Interface:** Supports computer connection for firmware upgrades.

4. SETUP AND CONNECTIVITY

The LAUNCH Creader HD V2 is designed for plug-and-play operation. Follow these steps to connect the device to your vehicle:

1. Locate your vehicle's Data Link Connector (DLC). This is typically found under the dashboard on the driver's side.

2. Identify the correct adapter for your vehicle. The Creader HD V2 includes OBD1 6-Pin, OBD1 9-Pin, CT 9-Pin, and OBD2 16-Pin connectors.
3. Connect the appropriate adapter to the vehicle's DLC.
4. Connect the main diagnostic cable from the Creader HD V2 to the adapter.
5. Turn the vehicle's ignition to the 'ON' position (engine off or running, depending on the diagnostic task). The device will power on automatically.



This diagram illustrates the different diagnostic adapters included with the LAUNCH Creader HD V2, enabling connection to a wide range of vehicles, including older models and modern light vehicles.

5. OPERATING INSTRUCTIONS

5.1 Dual Mode Diagnosis

The Creader HD V2 offers two intelligent diagnostic modes:

- **Automatic Search Mode:** This mode allows for one-click automatic recognition of the vehicle's communication protocol, establishing fast and efficient connections.

- **Manual Selection Mode:** For professional users, this mode allows manual specification of the diagnostic system, providing more targeted and flexible diagnosis.

5.2 Core Diagnostic Functions

Navigate through the main menu using the Select and OK buttons to access the following functions:

- **Read & Clear Fault Codes:** Retrieve Diagnostic Trouble Codes (DTCs) and clear them after repairs.
- **Real-time Data Stream Display:** View live sensor data in text or graphical format.
- **I/M Readiness Status Check:** Verify if the vehicle's emission systems are ready for inspection.
- **Freeze Frame Data:** Capture a snapshot of vehicle operating conditions at the time a fault code was set.
- **O2 Sensor Test:** Monitor and test the functionality of oxygen sensors.
- **EVAP System Test:** Initiate a test of the Evaporative Emission Control System.
- **Vehicle Information Retrieval:** Access vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).



This image illustrates the primary diagnostic functions available on the LAUNCH Creader HD V2, accessible through its intuitive menu.

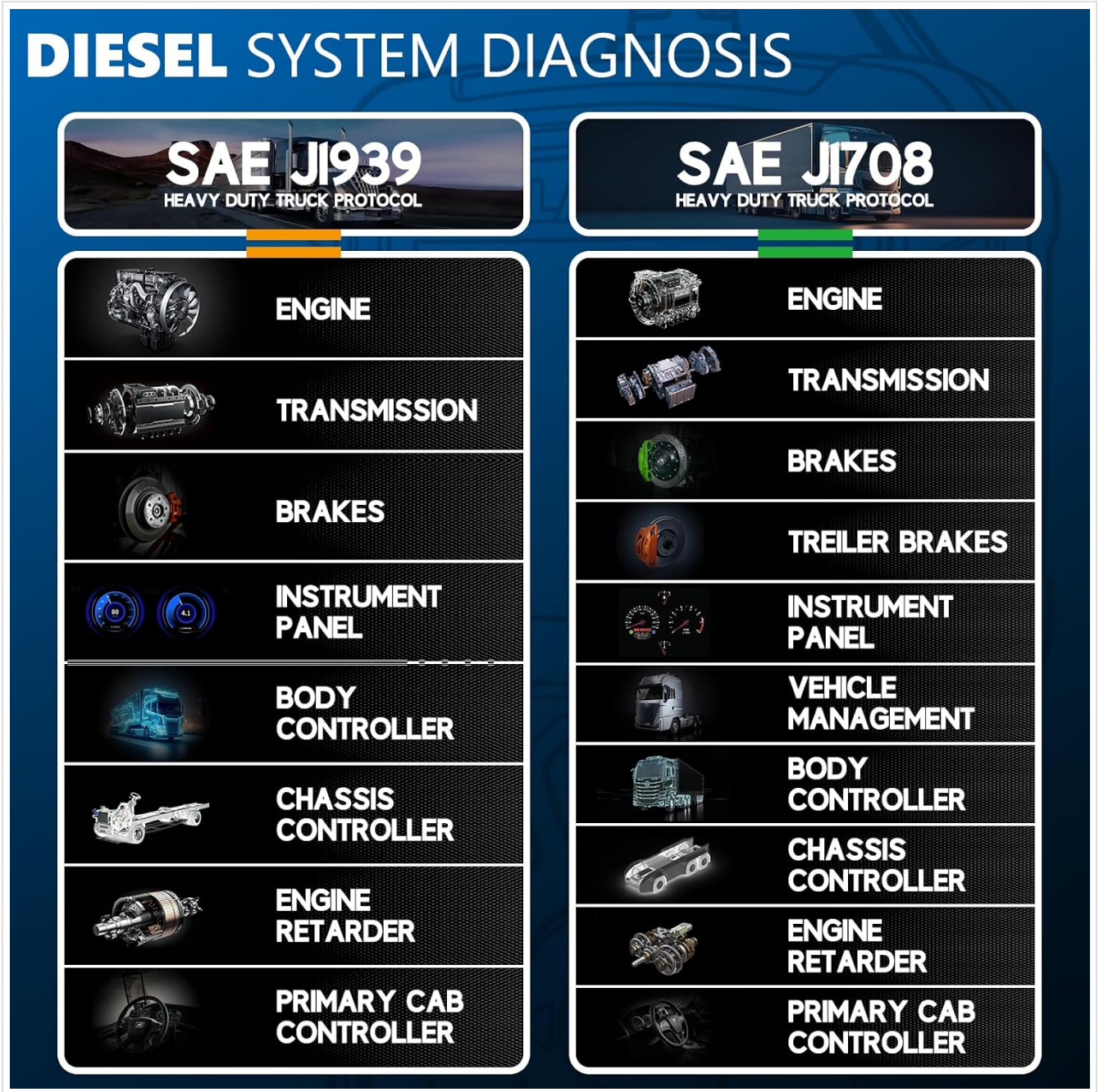
5.3 Battery Monitoring

The Creader HD V2 includes a battery monitoring function. By connecting the device to the OBD port, you can read the vehicle's battery voltage to assess its health status quickly and efficiently.

5.4 Protocol and Vehicle Compatibility

The device supports a wide range of protocols and is compatible with numerous vehicle types and engine manufacturers:

- **Supported Protocols:** J1708, J1939, J1979, J1850 PWM, J1850 VPW, and other standard OBD-II/EOBD protocols.
- **Compatible Vehicle Types:** Heavy Trucks, Light Trucks, Agricultural Vehicles, Buses, Construction Equipment, Pickups, RVs, SUVs, and Sedans.
- **Compatible Engine Brands:** Caterpillar, Cummins, Detroit, Freightliner, International, Paccar, Volvo, and more.



This diagram details the systems covered by the SAE J1939 and SAE J1708 protocols, highlighting the comprehensive diagnostic capabilities for diesel heavy-duty vehicles.

WIDE COMPATIBILITY FOR VEHICLE & ENGINE

PROTOCOL COVERAGE:

● J1708

● J1939

● J1979

● J1850

● PWM

● VPW



HEAVY TRUCK



LIGHT TRUCK



AGRICULTURAL



BUS



CONSTRUCTION



PICKUP



RV



SUV



SEDAN



FIT FOR
CATERPILLAR



FIT FOR
CUMMINS



FIT FOR
DETROIT



FIT FOR
INTERNATIONAL



FIT FOR
PACCAR

This image demonstrates the broad compatibility of the LAUNCH Creader HD V2 with various vehicle types and engine manufacturers, supporting multiple diagnostic protocols.

6. MAINTENANCE

6.1 Software Updates

The LAUNCH Creader HD V2 offers lifetime free software upgrades. To ensure your diagnostic tool is compatible with the latest vehicle systems and features, regularly update the software by connecting the device to a computer via the USB-C cable and following the instructions provided on the LAUNCH official website.

6.2 General Care

- Keep the device clean and free from dust and moisture.
- Store the device in its canvas bag when not in use to protect it from physical damage.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

7. TROUBLESHOOTING

If you encounter issues with your LAUNCH Creader HD V2, refer to the following common troubleshooting steps:

- **Device not powering on:** Ensure the diagnostic cable is securely connected to the vehicle's DLC and the vehicle's ignition is in the 'ON' position. Check the vehicle's battery voltage.
- **Unable to connect to vehicle:** Verify that the correct adapter is being used for your vehicle type. Ensure the vehicle's ignition is on. Try the 'Automatic Search Mode' or 'Manual Selection Mode' if one fails.
- **Error reading codes:** Confirm that the vehicle supports the OBD-II or HD OBD protocol. Ensure all connections are secure.
- **Screen freezing or unresponsive:** Disconnect the device from the vehicle, wait a few seconds, and reconnect. If the issue persists, perform a software update.

8. SPECIFICATIONS

Feature	Specification
Screen Size	2.8 Inches
Operating System	ARM
Power Source	Corded Electric (via OBD port)
Interfaces	OBD-II (direct output) and USB-C
Voltage	24 V
Operating Current	0.25 A
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Buttons	Up, Down, Left, Right, Confirm, Back, I/M
Certifications	CE, FCC, IC, RoHS
Languages	English, French, Spanish
Software Upgrade	Upgrade package obtained via PC client connection, permanently valid

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The LAUNCH Creader HD V2 comes with a Limited One (1) Year Warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. Please retain your proof of purchase for warranty claims.

9.2 Technical Support

For technical assistance, troubleshooting, or any questions regarding the operation of your LAUNCH Creader HD V2, please contact LAUNCH customer support. Refer to the contact information provided in the Quick Start Guide or visit the official LAUNCH website for support resources.

