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› LAUNCH Creader 300 OBD2 Scanner User Manual

LAUNCH Creader 300

LAUNCH Creader 300 OBD2 Scanner User Manual

Model: Creader 300

1. INTRODUCTION

The LAUNCH Creader 300 is a versatile and user-friendly On-Board Diagnostics II (OBD2) scanner designed to assist in diagnosing vehicle engine system issues. This device supports all OBDII protocols and is compatible with most vehicles manufactured since 1996. It provides essential functions such as reading and clearing fault codes, I/M readiness testing, viewing live data streams, and more, making it an indispensable tool for vehicle maintenance and troubleshooting.

2. PACKAGE CONTENTS

Please check the package contents carefully. If any items are missing or damaged, contact your vendor immediately.

- LAUNCH Creader 300 Main Unit
- User Manual

3. PRODUCT OVERVIEW

The LAUNCH Creader 300 features a compact design with an integrated OBDII connector cable and a clear display screen. The device is operated via a set of navigation buttons.



Figure 3.1: LAUNCH Creader 300 OBD2 Scanner main unit. The image displays the handheld scanner with its integrated OBDII cable and connector. The screen shows a diagnostic menu, and buttons for navigation (ESC, I/M, OK, up/down arrows) are visible below the screen. A graphic on the right highlights "2025 New Version", "OBD2 Functions", "Turn Off MIL", and "Smog Check".

3.1. Device Layout

- **Display Screen:** Shows diagnostic menus, data, and results.
- **ESC Button:** Exits current screen or cancels an operation.
- **I/M Button:** Performs I/M Readiness Test directly.
- **OK Button:** Confirms a selection or enters a menu.
- **Up/Down Arrow Buttons:** Navigates through menu options.

- **OBDII Connector:** Connects the scanner to the vehicle's Data Link Connector (DLC).

4. SETUP AND CONNECTION

Follow these steps to connect the Creader 300 to your vehicle and begin diagnostics.

1. Locate the vehicle's 16-pin Data Link Connector (DLC). This is typically located under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the OFF position.
3. Plug the Creader 300's OBDII connector into the vehicle's DLC. Ensure a secure connection.
4. Turn the vehicle's ignition to the ON position (engine off). The Creader 300 will power on automatically.



Figure 4.1: Illustration of the plug-and-play connection process. The image shows four steps: 1. Starting the car, 2. Plugging the OBDII connector into the vehicle's port, 3. The scanner displaying information, and 4. The check engine light on the dashboard.

5. OPERATING INSTRUCTIONS

This section details the various diagnostic functions available on the LAUNCH Creader 300.

5.1. Read Codes

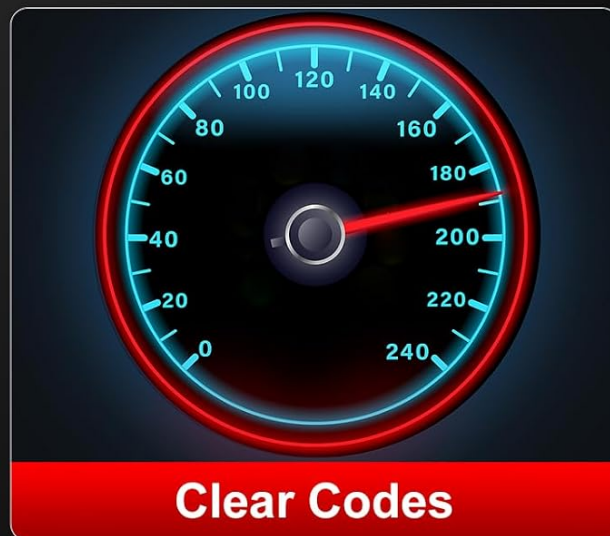
This function retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's engine control unit (ECU). These codes indicate specific issues detected by the vehicle's self-diagnostic system.

1. From the main menu, select "Read Codes" and press the **OK** button.
2. The scanner will display any stored DTCs, along with their descriptions.

POWERFUL FUNCTIONS



Read Codes



Clear Codes



TURN OFF ENGINE LAMP

Figure 5.1: The LAUNCH Creader 300 displaying the "Read Codes" function. The image shows the scanner screen with "Read Codes" highlighted, alongside a visual representation of a car's dashboard with a speedometer and tachometer, indicating the function's role in vehicle diagnostics.

5.2. Erase Codes

After performing repairs, use this function to clear the DTCs from the vehicle's memory and turn off the Malfunction Indicator Lamp (MIL), also known as the Check Engine Light.

1. From the main menu, select "Erase Codes" and press the **OK** button.
2. Confirm the action when prompted. This will clear all DTCs and reset monitor status information.
3. Ensure the ignition is ON and the engine is OFF when performing this function.



Figure 5.2: A comprehensive display of full OBD2 functions. This image shows nine distinct functions, including "Read Codes", "Clear Codes", "Live Data", "I/M Readiness", "Freeze Frame", "O2 Sensor Test", "Onboard Monitoring", "Vehicle Information", and "EVAP SYSTEM". The "Clear Codes" section is represented by a trash can icon and a check engine light turning off.

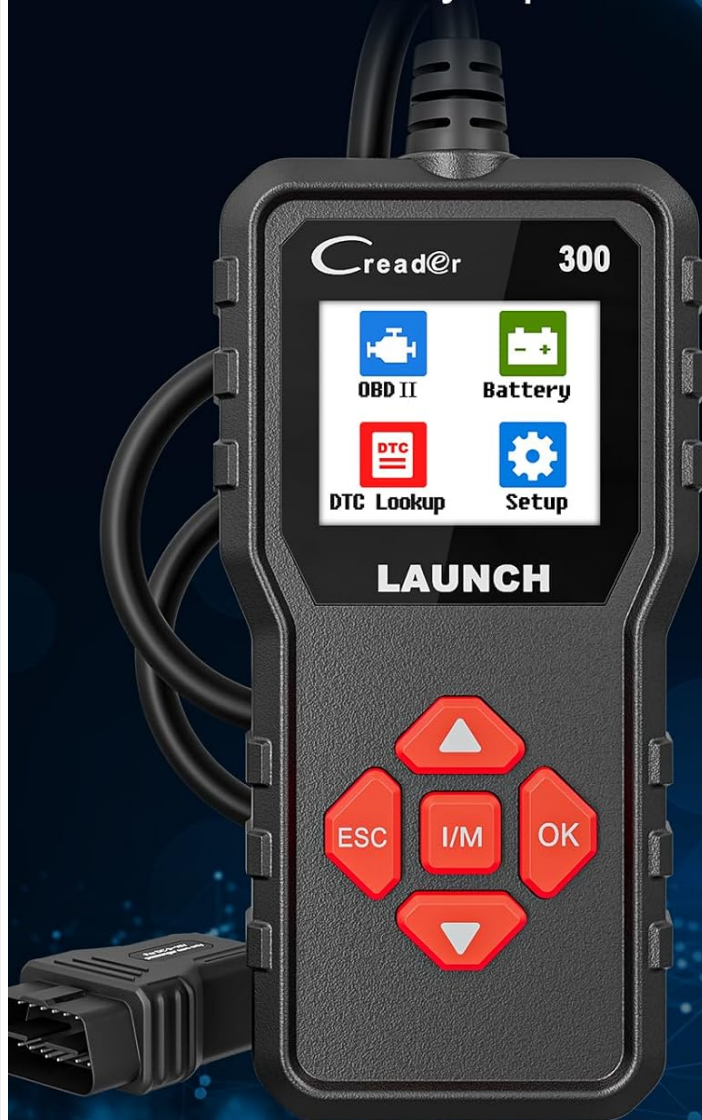
5.3. I/M Readiness Test

The I/M Readiness function checks the operation of the emission system on OBDII compliant vehicles. It indicates whether the various emissions-related systems are operating correctly and are ready for inspection and maintenance testing.

1. From the main menu, select "I/M Readiness" or press the dedicated **I/M** button.
2. The scanner will display the status of various monitors (e.g., MIL, MIS, FUE, OCM, CAT, HCAT). A green checkmark indicates the monitor is complete, while a red 'X' indicates it is not complete.

12V/6V Voltage Test

Greatly improve efficiency and speed



Uo1 tage

12.3V

1. One-touch voltage reading for easier operation.
2. Quickly locate power/ground faults.
3. Directly verify sensor/actuator performance.

Figure 5.3: The LAUNCH Creader 300 displaying the "I/M Readiness" test results. The screen shows "I/M Readiness 1/2" and "Since DTCs Cleared This Drive Cycle". To the right, a car's exhaust emits smoke with a "SMOG CHECK" logo, and a table illustrates monitor statuses (MIL, DTC, MIS, FUE, OCM, CAT, HCAT) with checkmarks or 'X's.

5.4. View Freeze Frame Data

When an emission-related fault occurs, the vehicle's computer stores certain vehicle operating conditions at the time of the fault. This data is called Freeze Frame Data and can be viewed to help diagnose the issue.

1. From the main menu, select "Freeze Frame" and press the **OK** button.
2. The scanner will display various parameters such as engine RPM, vehicle speed, coolant temperature, etc., recorded at the moment the fault code was set.

5.5. Live Data Stream

This function allows you to view real-time data from the vehicle's sensors and components in numerical or graphical format. This is useful for monitoring engine performance and identifying intermittent problems.

1. From the main menu, select "Live Data Stream" and press the **OK** button.

2. You can scroll through various data parameters. Some models may offer a graphical display option.



Figure 5.4: Close-up view of the LAUNCH Creader 300 screen displaying live data stream. The screen shows parameters like "FUELSYS2", "LOAD_PCT(%)", "ECT(°C)", "SHRTFT1(%)", and "LONGFT1(%) with their corresponding real-time values.

5.6. O2 Sensor Test

This function retrieves O2 sensor monitor test results for the most recently completed tests from the vehicle's on-board computer. This data can be used to determine if the oxygen sensor is functioning correctly.

5.7. EVAP System Test

The EVAP (Evaporative Emission Control System) Test function initiates a leak test for the vehicle's EVAP system. This helps identify issues with fuel vapor leaks.

5.8. On-Board Monitor Test (Mode \$6)

This function retrieves test results for emission-related powertrain components and systems that are not continuously monitored. It provides detailed information on specific component performance.

Enhanced On-board monitor test(mode \$6)

- On-Board Monitor Test can be utilized to read and results of on-board diagnostic monitoring,, testing for specific components/syestems.
- Resolves uncoded drivability and emissions faults.
- Reads actual misfire counts instead of just locating misfiring cylinders.



Figure 5.5: The LAUNCH Creader 300 displaying the "Enhanced On-board monitor test (mode \$6)". The image highlights that this test can be used to read and results of on-board diagnostic monitoring, testing for specific components/systems, resolving uncoded drivability and emissions faults, and reading actual misfire counts.

5.9. Vehicle Information (VIN)

This function retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN) of the vehicle.

1. From the main menu, select "Vehicle Info." and press the **OK** button.
2. The scanner will display the vehicle's identification information.

5.10. DTC Lookup

The Creader 300 includes a built-in DTC library. You can input a DTC to view its detailed description without needing an external reference.

1. From the main menu, select "DTC Lookup" and press the **OK** button.
2. Use the arrow buttons to input the DTC characters and press **OK** to confirm.

3. The scanner will display the definition of the code.

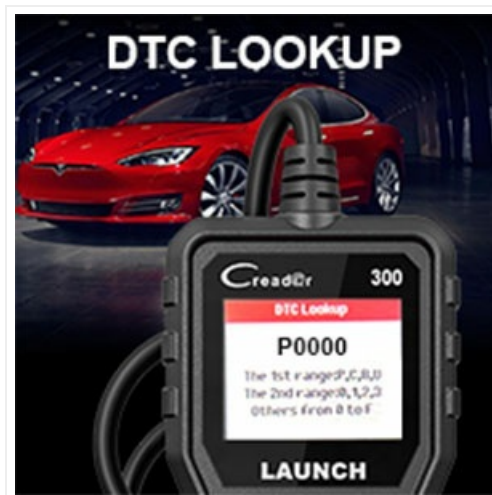


Figure 5.6: The LAUNCH Creader 300 screen showing the "DTC Lookup" function. The screen displays "P0000" and a text description explaining the structure of DTCs (1st range, 2nd range, others from 0 to F), with a car in the background.

5.11. Battery Voltage Test

This function allows you to quickly check the vehicle's battery voltage, which can help identify potential power issues.

1. From the main menu, select "Battery" or "Voltage Test" (if available) and press the **OK** button.
2. The scanner will display the current battery voltage.

One-Click I/M Readiness Test



Figure 5.7: The LAUNCH Creader 300 displaying a "12V/6V Voltage Test" result of 12.3V. The image highlights features such as one-touch voltage reading, quick location of power/ground faults, and direct verification of sensor/actuator performance.

6. MAINTENANCE

To ensure the longevity and proper functioning of your LAUNCH Creader 300, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Cable Care:** Do not bend or crimp the OBDII cable excessively. Always grasp the connector when plugging or unplugging, not the cable.
- **Software Updates:** The device supports lifetime free updates. Refer to the manufacturer's website for instructions on how to update the software to ensure compatibility with newer vehicles and improved functionality.

7. TROUBLESHOOTING

If you encounter issues while using the Creader 300, refer to the following common problems and solutions:

- **Device Fails to Power On:**
 - Check if the OBDII connector is securely plugged into the vehicle's DLC.
 - Ensure the vehicle's ignition is in the ON position.
 - Verify the vehicle's battery has sufficient charge (above 8.0 volts).
- **Communication Error with Vehicle:**
 - Confirm the vehicle is OBDII compliant (most vehicles since 1996).
 - Check for a loose connection at the DLC.
 - Turn the ignition off, wait 10 seconds, then turn it back on and retry.
 - Ensure the vehicle's ECU is not damaged or in a fault state preventing communication.
- **Screen Freezes or Responds Slowly:**
 - Disconnect the device from the vehicle, then reconnect.
 - If the issue persists, perform a software update if available.

8. SPECIFICATIONS

Parameter	Value
Model	Creader 300
Display	Color Screen
Operating Voltage	9-18V DC (via OBDII)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	2.68 x 0.88 x 4.65 inches (approx.)
Weight	7.4 ounces (approx.)
Supported Protocols	ISO9141-2, ISO14230-4, SAEJ1850, ISO15765-4
Languages Supported	English, French, German, Spanish, Russian, Italian, Polish, Portuguese, Dutch

9. SUPPORTED VEHICLES AND LANGUAGES

The LAUNCH Creader 300 is compatible with a wide range of vehicles and supports multiple languages for user convenience.

9.1. Vehicle Coverage

- Works with most OBDII protocol vehicles sold in the United States since 1996.
- Compatible with EU-based cars since 2000.
- Compatible with Asia-based cars since 2008.
- Supports all OBD2 protocols: ISO9141-2, ISO14230-4, SAEJ1850, ISO15765-4.

9.2. Supported Languages

The device supports 9 languages:

- English
- French
- German
- Spanish
- Russian
- Italian
- Polish
- Portuguese
- Dutch



Figure 9.1: Visual representation of the LAUNCH Creader 300's wide vehicle coverage and support for 9 languages. The image displays timelines for US, EU, and Asia-based car compatibility, along with flags representing the supported languages.

10. WARRANTY INFORMATION

Please refer to the warranty card included with your product or visit the official LAUNCH website for detailed warranty terms and conditions. Typically, LAUNCH products come with a limited warranty covering manufacturing defects from the date of purchase.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or any inquiries regarding your LAUNCH Creader 300, please contact LAUNCH customer support through their official website or the contact information provided in your product packaging.

- **Official Website:** www.launchtech.com
- Refer to product packaging for specific regional support contacts.

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

Answered questions about this manual

Is the LAUNCH Creader 300 supported by a 2005 Nissan Sunny N16?

Based on the product specifications, the LAUNCH Creader 300 is likely compatible with a 2005 Nissan Sunny N16, but there is some regional nuance to consider: General Compatibility: The device supports all standard OBDII protocols...

[Read full answer](#)

