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ANCEL HD110

ANCEL HD110 Heavy Duty Truck Scanner and BST100 Car Battery Tester User Manual

Comprehensive instructions for operation and maintenance.

1. INTRODUCTION

The ANCEL HD110 Heavy Duty Truck Scanner is a diagnostic tool designed for heavy-duty vehicles, offering DPF regeneration and fault code reset capabilities for Detroit and Paccar engines. This package also includes the ANCEL BST100 Car Battery Tester, providing accurate battery health assessment for various 12V batteries. This manual provides essential information for setting up, operating, and maintaining your devices.



Image: The ANCEL HD110 Heavy Duty Truck Scanner (left) and the ANCEL BST100 Car Battery Tester (right).

2. PRODUCT FEATURES

2.1 ANCEL HD110 Heavy Duty Truck Scanner

- **DPF Regeneration & Reset:** Clears clogged filters, performs on-demand DPF regen, and resets for Detroit and Paccar engines (PX-7, PX-9, MX-11, MX-13, DD13, DD15, DD16).
- **Comprehensive HDOBD/OBD2 Diagnostics:** Monitors performance, identifies engine issues, and clears fault codes for a wide range of diesel engines. Provides real-time data for preventative maintenance.
- **Engine Compatibility:** Specifically designed for Detroit and PACCAR engines, supporting various diesel trucks with 16-pin and 9-pin adapters.
- **Bluetooth Connectivity:** Connects to your smartphone via Bluetooth for easy operation through the ANCEL Trucker app.

2.2 ANCEL BST100 Car Battery Tester

- **High Accuracy:** Provides 99.8% accurate readings for battery health assessment.
- **Wide Compatibility:** Tests all 12V 100-2000CCA batteries, including ordinary lead-acid, AGM flat plate, AGM spiral, and Gel batteries.
- **Multiple Tests:** Capable of performing Battery Test, Cranking Test, and Charging Test.
- **Safety Features:** Equipped with reverse polarity protection for safe operation.

Say goodbye to downtime

Complete a regeneration in just **20 minutes** and from your mobile device to get you back on the road fast.



Image: A smartphone displaying "DPF Regen Occurring" while connected to the ANCEL HD110 scanner, illustrating the DPF regeneration process.

3. SETUP

3.1 ANCEL HD110 Truck Scanner Setup

1. **Locate Diagnostic Port:** Identify the diagnostic port in your heavy-duty truck, typically located on the driver's side dashboard.
2. **Connect Scanner:** Select the appropriate adapter (9-pin or 16-pin) and securely connect the ANCEL HD110 scanner to the vehicle's diagnostic port. Ensure a snug fit, and use the twist lock if available.
3. **Download App:** Download and install the "ANCEL Trucker" app on your smartphone (available for Android and iOS).
4. **Pair Device:** Open the app and add the device via Bluetooth. The app will scan for nearby Bluetooth devices; select "OBD_ANCEL" to connect.
5. **Ignition On:** Turn the vehicle's ignition to the ON position (or start the engine for live data monitoring).

When to use HD110 ?



Image: The ANCEL HD110 scanner plugged into a truck's diagnostic port, ready for use.

3.2 ANCEL BST100 Car Battery Tester Setup

1. **Connect Clamps:** Attach the red clamp to the positive (+) terminal of the 12V battery and the black clamp to the negative (-) terminal.
2. **Power On:** The device will power on automatically once connected.
3. **Select Test:** Navigate the menu using the buttons to select the desired test (Battery Test, Cranking Test, or Charging Test).

SAFE ALTERNATOR TESTER

Reverse Polarity Protection

ULTRA
SAFE

Latest Upgrade Secure & Stable Connection

Image: The ANCEL BST100 Car Battery Tester connected to a car battery with its red and black clamps.

4. OPERATING INSTRUCTIONS

4.1 ANCEL HD110 Truck Scanner Operation

1. **Select Vehicle Type:** In the ANCEL Trucker app, select the appropriate vehicle type (e.g., Detroit Engine, Paccar Engine, HD OBD, OBDII).
2. **Perform Scan:** Choose between "Standard protocol (Fast Scan)" or "Standard protocol (Complete Scan)" to initiate a diagnostic scan.
3. **Read Fault Codes:** Select "Read Fault Code" to view current or historical diagnostic trouble codes (DTCs).
4. **Erase Fault Codes:** After addressing the issue, select "Erase Fault Code" to clear the DTCs from the vehicle's system.
5. **Live Data Monitoring:** Access "Live Data" to view real-time sensor data, consumable fluids, and emission-related components.
6. **DPF Regeneration:** For DPF-equipped vehicles, select "DPF Regeneration" and follow the on-screen prompts to perform a forced regeneration. Ensure the engine is at idle and the vehicle is stopped.

Unlock Real-time Insights into Your Truck's Health

Prevent small problems from turning into big headaches

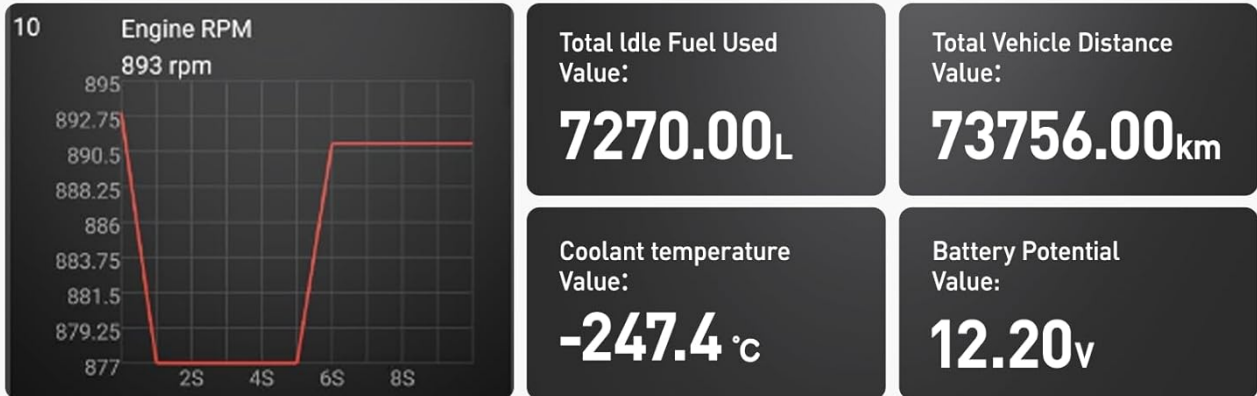


Image: A smartphone screen showing diagnostic options like "Read Stored Codes," "Read Pending Codes," and "Clear Trouble Code" from the ANCEL Trucker app.

4.2 ANCEL BST100 Car Battery Tester Operation

1. **Battery Test:** Select "Battery Test" to assess the overall health of the battery, including its voltage and capacity.
2. **Cranking Test:** Choose "Cranking Test" to evaluate the battery's ability to start the engine.
3. **Charging Test:** Select "Charging Test" to check the vehicle's charging system performance.
4. **Review Data:** Use the "Review Data" option to view previous test results.

VERSATILE 12V BATTERY TESTER

Quickly Diagnoses Batteries in
Various Vehicles

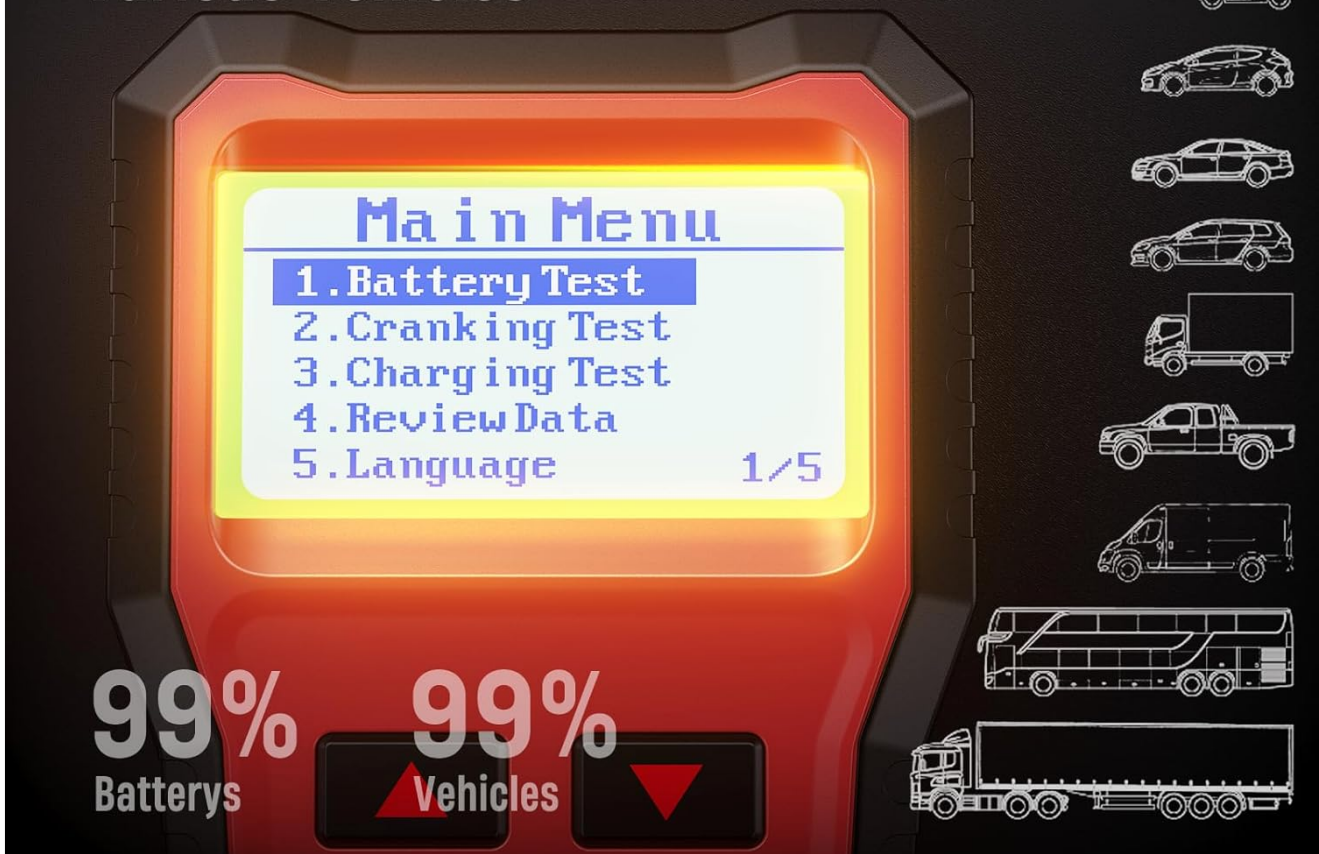


Image: The ANCEL BST100 Car Battery Tester displaying its main menu with options for Battery Test, Cranking Test, Charging Test, and Review Data.

5. MAINTENANCE

- **Cleaning:** Wipe the devices with a soft, dry cloth after each use to remove dust and debris. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Software Updates:** Regularly check for software updates for the ANCEL HD110 scanner via the ANCEL Trucker app to ensure optimal performance and compatibility with new vehicle models.

6. TROUBLESHOOTING

- **No Power (HD110):** Ensure the scanner is securely connected to the vehicle's diagnostic port and the vehicle's ignition is on.
- **Connection Issues (HD110):** Verify Bluetooth is enabled on your smartphone and the ANCEL Trucker app is open. Try restarting both the app and the scanner.

- **Inaccurate Readings (BST100):** Ensure the battery clamps are securely attached to the correct battery terminals (positive to positive, negative to negative). Clean battery terminals if corroded.
- **DPF Regeneration Failure:** Check that all required conditions (engine at idle, vehicle stopped, sufficient engine temperature) are met before initiating DPF regeneration.



Image: A smartphone screen showing real-time data such as Engine RPM, Total Idle Fuel Used Value, and Battery Potential Value, which can aid in troubleshooting.

7. SPECIFICATIONS

Feature	Detail
Brand	ANCEL
Model	HD110 (Truck Scanner), BST100 (Battery Tester)
ASIN	B0D7ZWS67C
First Available	April 18, 2025

Battery Tester Compatibility	12V 100-2000CCA batteries (Lead-acid, AGM flat plate, AGM spiral, Gel)
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8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official ANCEL website or contact ANCEL customer service directly. Keep your purchase receipt for warranty claims.

9. PRODUCT VIDEOS

ANCEL HD110 Heavy Duty Truck Scanner Overview

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Video: A comprehensive overview of the ANCEL HD110 Heavy Duty Truck Scanner, demonstrating its features and connectivity options. This video highlights the ease of use and the various diagnostic capabilities of the device.

DPF Regen with HD120 (Preview)

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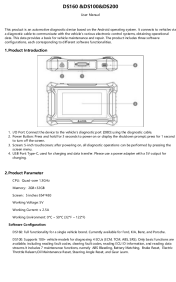
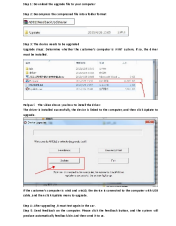
Video: A short preview demonstrating the DPF regeneration process using an ANCEL HD120 scanner. This clip shows the device in action, initiating a DPF regen cycle on a truck.

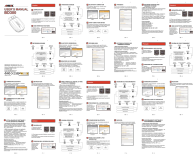
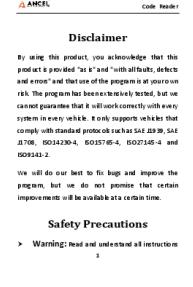
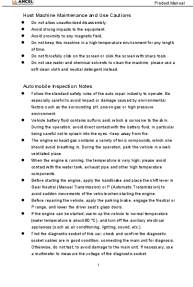

ANCEL HD3300 PLUS+ Truck Scanner (Preview)

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Video: A brief preview showcasing the ANCEL HD3300 PLUS+ Truck Scanner. This video provides a quick look at the device's interface and its application in truck diagnostics.

Related Documents - HD110

	<p>ANCEL DS160, DS100, DS200 User Manual - Automotive Diagnostic Tools</p> <p>User manual for ANCEL DS160, DS100, and DS200 automotive diagnostic tools. Covers features, parameters, usage, functions, FAQ, and warranty for these OBD2 scanners.</p>
	<p>ANCEL AD310 Firmware Update Guide: Step-by-Step Instructions</p> <p>This guide provides clear, step-by-step instructions for updating the firmware of your ANCEL AD310 OBD II scanner. Learn how to download, decompress, install drivers, and perform the update process for your vehicle diagnostic tool.</p>

	<p>ANCEL BD300 OBD2 Scanner User Manual</p> <p>Comprehensive user manual for the ANCEL BD300 OBD2 scanner. Learn how to download the ANCEL APP, connect via Bluetooth, perform vehicle diagnostics, update software, and utilize special functions like EPB, CBS, ABS, and Airbag resets. Supports full system diagnostics for BMW and other vehicles.</p>
	<p>ANCEL HD601 Heavy Duty Truck Code Reader User Manual</p> <p>Comprehensive user manual for the ANCEL HD601 Heavy Duty Truck Code Reader, covering product overview, operation, software upgrading, and FAQs. Learn how to diagnose commercial vehicles with this advanced diagnostic tool.</p>
	<p>Ancel AD8000: Comprehensive Automotive Diagnostic System User Manual</p> <p>This manual provides detailed instructions for the Ancel AD8000 automotive diagnostic system, covering setup, operation, and advanced functions for heavy-duty and passenger vehicles. Learn about VCI box connection, diagnosis procedures, data management, and system settings.</p>
	<p>ANCEL VD700 User's Manual: Multi-System OBD2 Scanner for VW Group Vehicles</p> <p>Comprehensive user's manual for the ANCEL VD700 multi-system scanner. Learn how to use this diagnostic tool for VW, Audi, Skoda, Seat, and Bentley vehicles, covering features like system scanning, fault code reading, special functions, and maintenance resets.</p>