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ANCEL HD3600

ANCEL HD3600 Heavy Equipment Diagnostic Tool User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. Introduction

The ANCEL HD3600 is a heavy equipment diagnostic tool designed for the North American construction machinery market. It supports a wide range of diesel OBD protocols and offers comprehensive diagnostic functions, including DPF regeneration, full system checks, and live data streaming. This manual provides detailed instructions to help users effectively operate and maintain the device.



Figure 1: ANCEL HD3600 Heavy Equipment Diagnostic Tool Overview

2. What's in the Box

Upon unboxing your ANCEL HD3600, please verify that all the following items are included:

- 1* HD3600 Heavy Equipment Diagnostic Tool
- 1* 1.5m OBDII Diagnostic Cable
- 1* 6/9-pin Diesel OBD Cable
- 1* CAT-9 Connector
- 1* User's Manual
- 1* Box



Figure 2: Package Contents

3. SETUP

3.1 Initial Activation

The HD3600 requires initial activation to ensure full functionality. Follow these steps:

- 1. Click the Wi-Fi button on the device.
- 2. Connect to an available Wi-Fi network.
- 3. Click the User button.
- 4. Click the Activate button.
- 5. Confirm activation by clicking OK on the notice.



Figure 3: One-Click Activation Process

3.2 Software Updates

Regular software updates are recommended to ensure the device remains compatible with the latest vehicle models and diagnostic protocols. Updates are free for life.

- 1. Click the Wi-Fi button and connect to an available Wi-Fi network.
- 2. Click the Update button.
- 3. Update the Diagnostic System.
- 4. Update the Vehicle Database.



Figure 4: One-Click Free Update Process

4. COMPATIBILITY

The ANCEL HD3600 is designed for ultra-wide compatibility with various heavy equipment and trucks, primarily focusing on the North American market.

4.1 Supported Machinery

- Construction Machinery: Caterpillar, Komatsu, John Deere, Volvo, Hitachi, Bobcat, Yanmar, Case.
- Heavy Duty Trucks: Supports various heavy-duty truck systems.
- Agricultural Machinery: Supports various agricultural machinery systems.



Figure 5: Ultra-Wide Compatibility Overview

4.2 Supported Protocols

- Diesel OBD Protocols: SAE J1939, SAE J1708, ISO 27145-4 (for construction & agricultural machinery).
- Standard OBDII Protocols: SAE J1850 PWM, SAE J1850 VPW, ISO 14230-4, ISO 9141-2, ISO 15765-4 (for passenger vehicles).

5. OPERATING INSTRUCTIONS

5.1 General Diagnostics

The HD3600 provides comprehensive diagnostic capabilities for various vehicle systems.

- Read Vehicle Information: Access details about the connected vehicle.
- Read & Clear DTCs: Retrieve and erase Diagnostic Trouble Codes (DTCs) for standard and manufacturerspecific issues.
- Live Data Streams: View real-time sensor data and operating parameters.



Figure 6: Advanced Engine System Diagnostics

5.2 DPF Regeneration Function

The tool supports exclusive OEM-level DPF functions for compatible machinery, helping to optimize performance and reduce downtime.

- DPF Reset: Reset the Diesel Particulate Filter system.
- Forced Regeneration: Initiate a forced regeneration cycle for the DPF.
- Soot Ratio Reset: Reset the soot accumulation ratio.
- Ash Ratio Reset: Reset the ash accumulation ratio.



Figure 7: Enhanced DPF Regeneration Functions

5.3 One-Click Quick Diagnostics

The HD3600 features several one-click functions for efficient operation:

- One-Click Activation: Streamlines the device setup process.
- One-Click Voltage Checking: Quickly check battery voltage.
- One-Click Feedback: Easily send feedback to technical support.
- One-Click Screenshots: Capture screen images for record-keeping.
- Report Creation with Print Capability: Generate and print diagnostic reports.



Figure 8: One-Click Quick Diagnostics Features

5.4 Video Demonstration: Diagnostics on Data Stream

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Video 1: Demonstrating live data stream diagnostics on the ANCEL HD3600.

6. MAINTENANCE

To ensure optimal performance and access to the latest features and vehicle compatibility, it is recommended to regularly update your ANCEL HD3600 software. Updates are provided at no cost for the lifetime of the product.

- **Software Updates:** Update the software every 1-2 months to keep the product at the forefront of industry technology. Refer to Section 3.2 for detailed update instructions.
- Cleaning: Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Storage: Store the device in its protective box in a cool, dry place when not in use.

7. TROUBLESHOOTING

If you encounter issues with your ANCEL HD3600, consider the following common troubleshooting steps:

- **No Power:** Ensure the device is correctly connected to the vehicle's diagnostic port. The device draws power from the vehicle.
- Connectivity Issues (Wi-Fi/Bluetooth): Verify that Wi-Fi is enabled and connected to a stable 2.4GHz
 network for updates and activation. For Bluetooth connectivity (if applicable), ensure it's enabled on both the
 device and your smartphone.
- Vehicle Communication Error: Double-check that the correct diagnostic cable (OBDII, 6/9-pin Diesel, CAT-9) is securely connected to both the HD3600 and the vehicle's diagnostic port. Ensure the vehicle's ignition is in the ON position (engine off or running as required by the specific diagnostic function).
- **DPF Regeneration Failure:** Ensure the vehicle meets all conditions for DPF regeneration (e.g., engine temperature, fuel level). Consult the vehicle's specific manual for DPF regeneration requirements.
- **Software Not Responding:** Try restarting the device. If the issue persists, ensure the software is up-to-date (refer to Section 3.2).

For further assistance, please contact ANCEL customer support.

8. Specifications

Feature	Detail
Model	HD3600
Operating System	Android 5.1
Display	5-inch Tablet
RAM	1GB
Flash Storage	8GB
Connectivity	2.4GHz Wi-Fi
Item Weight	3.32 pounds
Product Dimensions	7.4 x 4.7 x 1.9 inches



Figure 9: Device Specifications and Features

9. WARRANTY AND SUPPORT

ANCEL is committed to providing reliable products and excellent customer service.

- Warranty: The HD3600 comes with a 1-year complimentary warranty.
- Returns: Enjoy a 30-day free return policy.
- Software Updates: Benefit from no-cost software updates for the lifetime of the product.
- **Technical Support:** 24/7 technical support is available to assist with any product-related inquiries or issues.

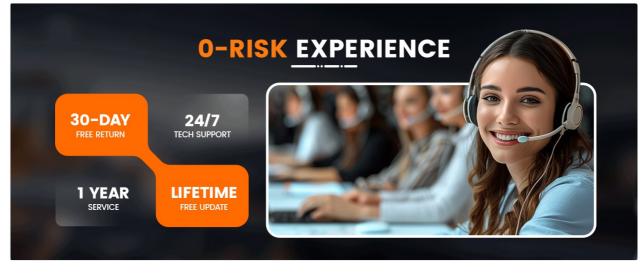
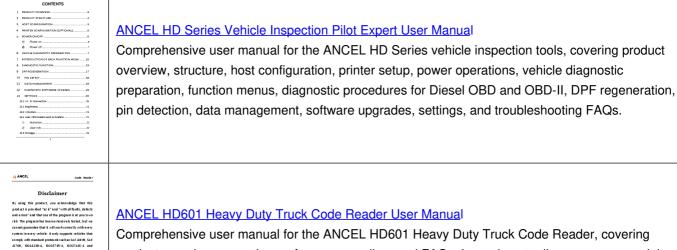


Figure 10: ANCEL 0-Risk Experience

Related Documents - HD3600

Safety Precautions



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.

Ancel HD Series Commercial Vehicle Diagnostic Tool User Manual

Comprehensive user manual for the Ancel HD Series commercial vehicle diagnostic tool, covering product overview, structure, configuration, operation, diagnostic functions, settings, and printer usage.

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AMERIX	ANCEL HD3500 User Manual: Vehicle Diagnostic Tool Comprehensive user manual for the ANCEL HD3500, a professional vehicle diagnostic tool for pickup trucks. Covers product overview, setup, functions, diagnostics, settings, and troubleshooting.
ANCEL AD410 Usage/Upgrade/Feedback Issues	ANCEL AD410 Usage, Upgrade, and Feedback Issues Troubleshooting Guide A comprehensive guide detailing common issues encountered with the ANCEL AD410 automotive diagnostic scanner, covering usage, software upgrades, and feedback data handling, with solutions and troubleshooting steps.