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› [ANCEL](#) /

› ANCEL DS300 Professional Bidirectional Scanner User Manual

ANCEL DS300

ANCEL DS300 Professional Bidirectional Scanner User Manual

Model: DS300

1. INTRODUCTION

The ANCEL DS300 is a state-of-the-art professional diagnostic tool designed for comprehensive vehicle system analysis. It features bidirectional control, full system diagnostics, and over 30 reset services, making it an essential device for automotive maintenance and repair. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your DS300 scanner.



Figure 1.1: ANCEL DS300 Professional Bidirectional Scanner. This image displays the main unit of the ANCEL DS300 scanner, showcasing its 7-inch touchscreen, control buttons, and wireless VCI module.

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Video 1.1: ANCEL DS300 Wireless Scan Tool Overview. This video provides a general overview of the ANCEL DS300's wireless capabilities and primary functions.

2. PRODUCT COMPONENTS

The ANCEL DS300 package includes the following items:

- 1 x DS300 Auto OBD2 Scanner (Main Unit)
- 1 x Bluetooth VCI (Vehicle Communication Interface)
- 1 x USB Type-C Cable
- 1 x Protective Case
- 1 x User's Manual



Figure 2.1: Rear view of the DS300 main unit and the Bluetooth VCI module. This image shows the back of the DS300 scanner, highlighting its integrated stand, and the separate Bluetooth VCI module.

3. GETTING STARTED (SETUP)

Follow these steps to set up your ANCEL DS300 scanner for first-time use:

1. **Charge the Device:** Connect the DS300 main unit to a power source using the provided USB Type-C cable. Ensure the device is fully charged before initial use.
2. **Power On:** Press and hold the power button to turn on the device.
3. **Select Language:** On the initial setup screen, select your preferred language from the available options.
4. **Connect to Wi-Fi:** Connect the device to a stable Wi-Fi network. This is crucial for software updates and accessing online features.
5. **Agree to Terms:** Review and accept the terms and conditions to proceed with the setup.
6. **Pair Bluetooth VCI:** The Bluetooth VCI module will automatically attempt to pair with the main unit. Ensure the VCI is plugged into the vehicle's OBD2 port for connection.

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Video 3.1: Bluetooth Connection Setup. This video demonstrates the process of establishing a wireless Bluetooth connection between the DS300 main unit and the VCI module.

4. KEY FEATURES & OPERATION

4.1. All System Diagnostics

The DS300 provides comprehensive diagnostics for all available vehicle systems, including Engine, Transmission, ABS, SRS, and more. It can read and clear diagnostic trouble codes (DTCs), display live data streams, and perform active tests.



Figure 4.1: All System Diagnostics. This graphic illustrates the various vehicle systems the DS300 can diagnose, such as Engine, Transmission, ABS, EPB, SRS, BMS, IC, AC, EPS, BODY, DAC, TPMS, and 4WD.

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Video 4.1: Full System Diagnostics Demonstration. This video demonstrates the DS300's capability to perform full system

diagnostics across a vehicle.

4.2. Bidirectional Control (Active Tests)

This function allows the scanner to send commands to vehicle systems and monitor their responses, enabling precise testing of components like fuel pumps, radiator fans, and ABS motors. This helps in accurately diagnosing issues and reducing repair time.

BI-DIRECTIONAL CONTROL

Quickly interact and fix issues, improving efficiency and saving time and costs



■ Sunroof	■ Doors and Windows	■ Parking Brake
■ Flasher	■ Test Injector	■ Modulate Throttle
■ Radiator Fan	■ Left Clutch Elec. Coil	■ Injector Buz
■ Sound Horn	■ Acceleration Device	■ Cycle A/C
■ ACC Lkas	■ Oi-I Pressure Control	■ Clutch On/Off
■ ACM Solenoid	■ Inlet & Outlet Valve	■ More...

Figure 4.2: Bidirectional Control. This image illustrates the bidirectional communication capability, showing how the DS300 can send commands to and receive feedback from various vehicle components like the ABS motor, fuel pump, and radiator fan.

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Video 4.2: DS300 Active Testing. This video demonstrates the active testing capabilities of the DS300, showing how it can control and test various vehicle components.

4.3. Read & Clear Fault Codes

Quickly identify and resolve vehicle issues by reading and clearing diagnostic trouble codes (DTCs) from all supported systems. This function helps in pinpointing the root cause of warning lights on the dashboard.

READ & CLEAR FAULT CODES

quickly diagnose and fix issues, reducing repair time
and improving equipment reliability

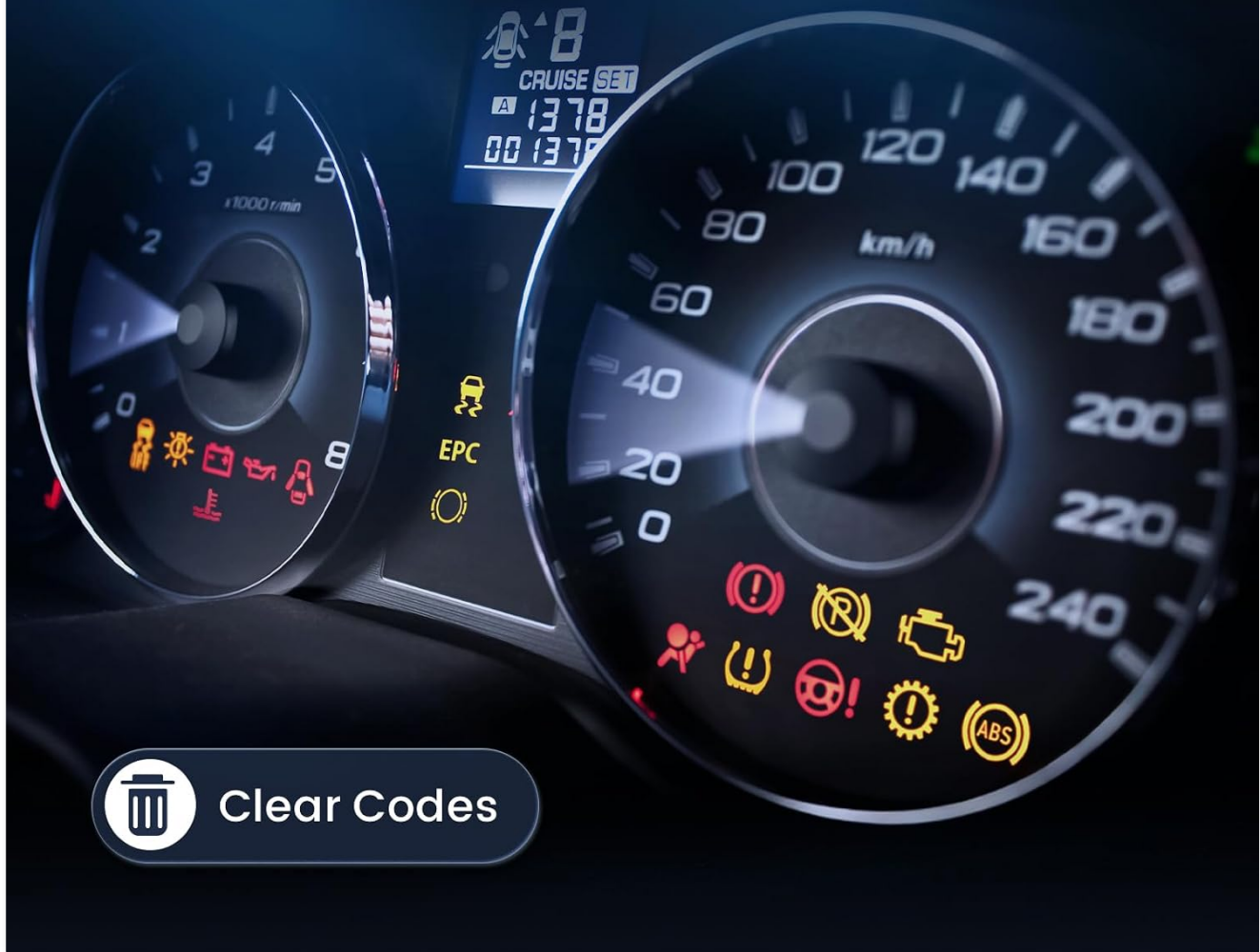


Figure 4.3: Read & Clear Fault Codes. This image shows a vehicle's dashboard with various warning lights illuminated, and the DS300 screen indicating the option to clear codes.

4.4. Live Data for Accurate Diagnosis

Monitor real-time data streams from various sensors and components. This feature displays data in numerical and graphical formats, allowing for in-depth analysis and accurate identification of intermittent problems.

LIVE DATA FOR ACCURATE DIAGNOSIS

Quickly spot issues and enhance diagnostic accuracy

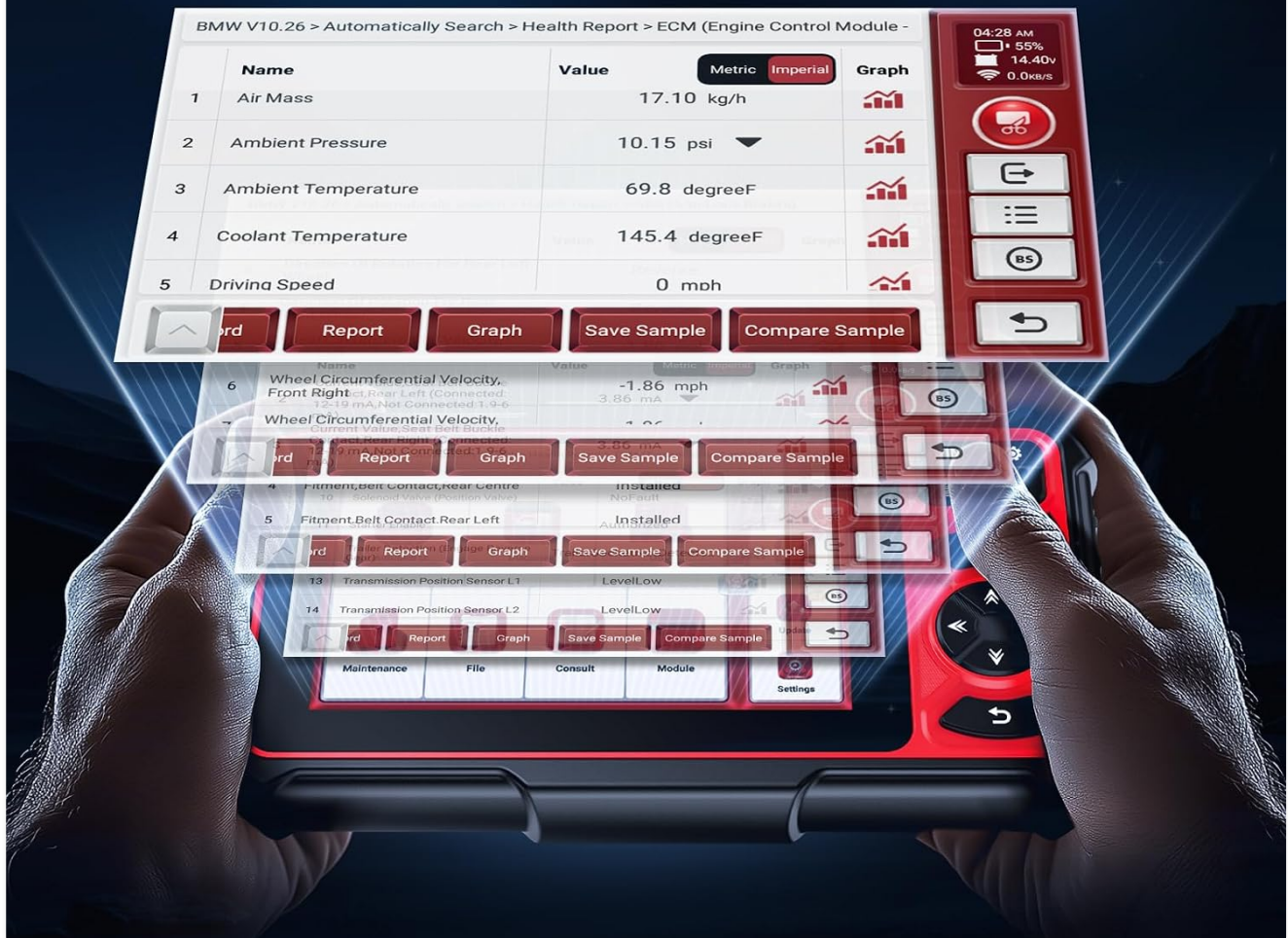


Figure 4.4: Live Data for Accurate Diagnosis. This image depicts the DS300 displaying live data streams, including air mass, ambient pressure, ambient temperature, coolant temperature, and driving speed, with options for graphing and comparison.

4.5. 30+ Hot Reset Services

The DS300 offers over 30 commonly used maintenance and reset functions, including Oil Reset, ABS Bleeding, Injector Coding, TPMS Reset, EPB Reset, SAS Reset, Crank Relearn, Idle Relearn, and more. These services help in performing routine maintenance and post-repair calibrations.

30+ HOT RESET SERVICE PERMANENTLY FREE

Light Reset Tire pressure Reset **Throttle Matching** Headlight Matching Gearbox Matching
Gear Learning Suspension Level Calibration ODO Reset **Airbag Reset** Transport Mode
A/F Reset Stop/Start Reset **Steering Angle Reset** NOx Sensor Reset Anti-theft Matching
Battery Matching Tyre Reset **AdBlue Reset (Diesel Engine Exhaust Gas Filter)**
Windows Calibration Language Setting

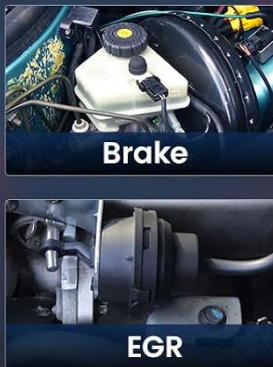


Figure 4.5: 30+ Hot Reset Services. This image highlights the extensive range of reset services available on the DS300, such as Oil Reset, Injector Coding, Brake Pad Reset, DPF Regeneration, and TPMS Reset.

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Video 4.3: DS300 Car Diagnostic Tool in Use. This video demonstrates the DS300 performing various diagnostic and reset functions within a vehicle.

4.6. AutoVIN & Wireless Connectivity

The AutoVIN feature automatically identifies your vehicle's VIN, streamlining the diagnostic process by quickly retrieving essential vehicle information. The Bluetooth VCI allows for wireless connection to the vehicle, providing flexibility and ease of movement during diagnostics.

AUTOVIN & SCAN

Quickly connect and identify vehicle info for improved convenience



Figure 4.6: AutoVIN & Scan. This image shows the DS300 automatically scanning and displaying vehicle VIN information, along with the wireless Bluetooth VCI module.

4.7. Smog Check / I/M Readiness

Perform quick self-checks of your vehicle's emission system to ensure it is ready for inspection. This function helps in verifying the status of various emission-related monitors.

ARE YOU INSPECTION-READY?

Self-check your emission system with I/M readiness



Figure 4.7: Are You Inspection-Ready? This image displays the DS300 screen showing the status of emission monitors for an I/M readiness check, indicating whether the vehicle is ready for a smog inspection.

5. SOFTWARE UPDATES & SUPPORT

5.1. Software Updates

The ANCEL DS300 comes with 3 years of free software updates. Regularly updating your device ensures access to the latest vehicle models, diagnostic protocols, and service functions. Connect to Wi-Fi and navigate to the 'Update' section on the device to check for and install available updates.

5.2. Online Chat Support

For immediate assistance, the DS300 offers an online chat support feature. This allows users to get real-time help for general issues or specific technical problems.

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Video 5.1: DS300 24h Online Chat. This short video highlights the availability of 24-hour online chat support for the DS300.

5.3. One-Click Feedback & Reporting

The device allows users to submit feedback directly and generate diagnostic reports with a single click. These reports can be saved or shared for further analysis.



Figure 5.1: One-Click Feedback & Report & Update. This image shows the user interface for generating reports, providing feedback, and performing software updates with a single click.

6. SPECIFICATIONS

Feature	Detail
Brand	ANCEL
Model	DS300
Operating System	Android 10.0
Display Resolution	1024x600
Product Dimensions	11.8"L x 3.14"W x 7.08"H
Item Weight	3.14 pounds
Battery	1 Lithium Ion battery (included)

7. TROUBLESHOOTING

If you encounter issues with your ANCEL DS300, consider the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the device is fully charged. If the battery is low, connect it to the charger and allow it to charge for at least 30 minutes before attempting to power it on again.

- **VCI Not Connecting:** Verify that the Bluetooth VCI module is securely plugged into the vehicle's OBD2 port. Ensure the vehicle's ignition is on (or engine running, depending on the test). Check the Bluetooth settings on the DS300 main unit to confirm the VCI is paired.
- **No Communication with Vehicle:** Confirm the vehicle's ignition is on. Check the OBD2 port for power. Ensure the correct vehicle make, model, and year are selected in the software. Try a different vehicle to rule out a vehicle-specific issue.
- **Software Freezing/Lagging:** Ensure the device has sufficient storage space. Close any unnecessary applications running in the background. Perform a software update to ensure you have the latest version, which may include performance improvements.
- **Inaccurate Readings:** Ensure the VCI is firmly connected. Verify that the vehicle's battery voltage is stable. If possible, compare readings with another known good diagnostic tool.

For persistent issues or problems not covered here, utilize the online chat support feature on your device for direct assistance from ANCEL technical support.

8. IMPORTANT INFORMATION

8.1. Legal Disclaimer

The brand is "ANCEL". The use of other brand names or logos is solely for identifying compatible vehicle brands for our products. ANCEL is not affiliated with Volkswagen, Skoda, Seat, BMW, GM, Ford, Opel, Mazda, Fiat, Honda, Nissan, Hyundai, Kia, Audi, Benz, Porsche, Chrysler, Toyota, Subaru, or other brands mentioned.

8.2. Customer Service

The "Customer Service" button on the device offers 24-hour machine feedback for general issues. For specific problems, you can transfer to online customer service for assistance. Online agents are available from 7 AM to 2:30 AM China time. During peak times, responses may be slower, so patience is appreciated.