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## ANCEL DS200, BA101

# ANCEL DS200 OBD2 Scanner and BA101 Car Battery Tester User Manual

Model: DS200, BA101 | Brand: ANCEL

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and effective operation of your ANCEL DS200 OBD2 Scanner and ANCEL BA101 Car Battery Tester. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage to the devices or your vehicle. These tools are designed to assist in diagnosing vehicle issues and maintaining battery health.



Figure 1.1: ANCEL DS200 OBD2 Scanner and BA101 Car Battery Tester.

This image displays both the ANCEL DS200 diagnostic scanner and the ANCEL BA101 battery tester. The DS200 is a tablet-like device with a screen and an OBD2 connector cable, while the BA101 is a smaller, handheld red device with a screen and two battery clamps.

## 2. PRODUCT COMPONENTS

The ANCEL DS200 and BA101 package typically includes the following items:

- ANCEL DS200 OBD2 Diagnostic Scanner Unit
- ANCEL BA101 Car Battery Tester Unit
- OBD2 Diagnostic Cable (for DS200)
- User Manual (this document)
- USB Cable (for DS200 updates/charging, if applicable)
- Protective Case (for DS200, if included in package)

## 3. ANCEL DS200 OBD2 SCANNER

### 3.1. Key Features

- **All Systems Diagnosis:** Comprehensive scanning of engine, ABS, SRS, transmission, ESP, SAS, audio control, air conditioning control, PCM, and more.
- **15+ Reset Services:** Includes ABS bleeding, SAS reset, battery matching, Adblue reset, oil reset, throttle relearn, D-P-F regen reset, TPMS reset, injector coding, etc. (Note: Functions vary by vehicle model and year).
- **User-Friendly Interface:** Features a 5-inch touchscreen, Android OS, quad-core processor, and one-click operations.
- **Lifetime Free Updates:** Ensures the device remains current with new vehicle models and diagnostic protocols.
- **Built-in Battery:** 1500mAh battery for portable use.



Figure 3.1: ANCEL DS200 Full-Systems Diagnostic Capabilities.

This image illustrates the ANCEL DS200's ability to diagnose various vehicle systems, including Engine, Airbag, Transmission, ABS, SAS, 4WD, TPMS, Headlamp, ESP, and more. It shows a graphical representation of the scanner's interface displaying diagnostic information.

# 15+ HOT RESET SERVICES

Lifetime Free



Figure 3.2: ANCEL DS200 15+ Hot Reset Services.

This image highlights the various reset services offered by the ANCEL DS200, such as Air/Fuel Ratio Reset, Gearbox Relearn, Brake Pad Reset, EGR Adaption, TPMS Reset, Gear Learn, NOX Sensor Reset, ABS Bleeding, Battery Matching, Oil Reset, SAS Reset, Injector Coding, Throttle Relearn, Adblue Reset, and D-P-F Regen.

## 3.2. Setup and Connection

1. **Power On:** Ensure the DS200 is sufficiently charged or connected to a power source.
2. **Locate OBD2 Port:** Identify your vehicle's 16-pin OBD2 diagnostic port, usually located under the dashboard on the driver's side.
3. **Connect Cable:** Plug the OBD2 diagnostic cable into the vehicle's OBD2 port and the other end into the DS200 unit.
4. **Ignition On:** Turn the vehicle's ignition to the "ON" position (engine off).
5. **Device Initialization:** The DS200 will automatically power on and begin communication with the vehicle.

## 3.3. Operating Instructions

After successful connection, navigate the DS200's touchscreen interface:

- **Vehicle Selection:** Select your vehicle's make, model, and year from the menu.

- **System Scan:** Choose "All Systems Diagnosis" to perform a comprehensive scan of all available modules. The device will display diagnostic trouble codes (DTCs) and live data.
- **Reset Functions:** To perform a specific reset service (e.g., ABS Bleeding, Oil Reset), select "15+ Reset Services" from the main menu and follow the on-screen prompts. Ensure you understand the implications of each reset before proceeding.
- **Data Review:** View freeze frame data, I/M readiness status, and live data streams to further analyze vehicle performance.
- **Code Clearing:** After repairs, you can clear DTCs from the vehicle's ECU. Ensure the underlying issue is resolved before clearing codes.

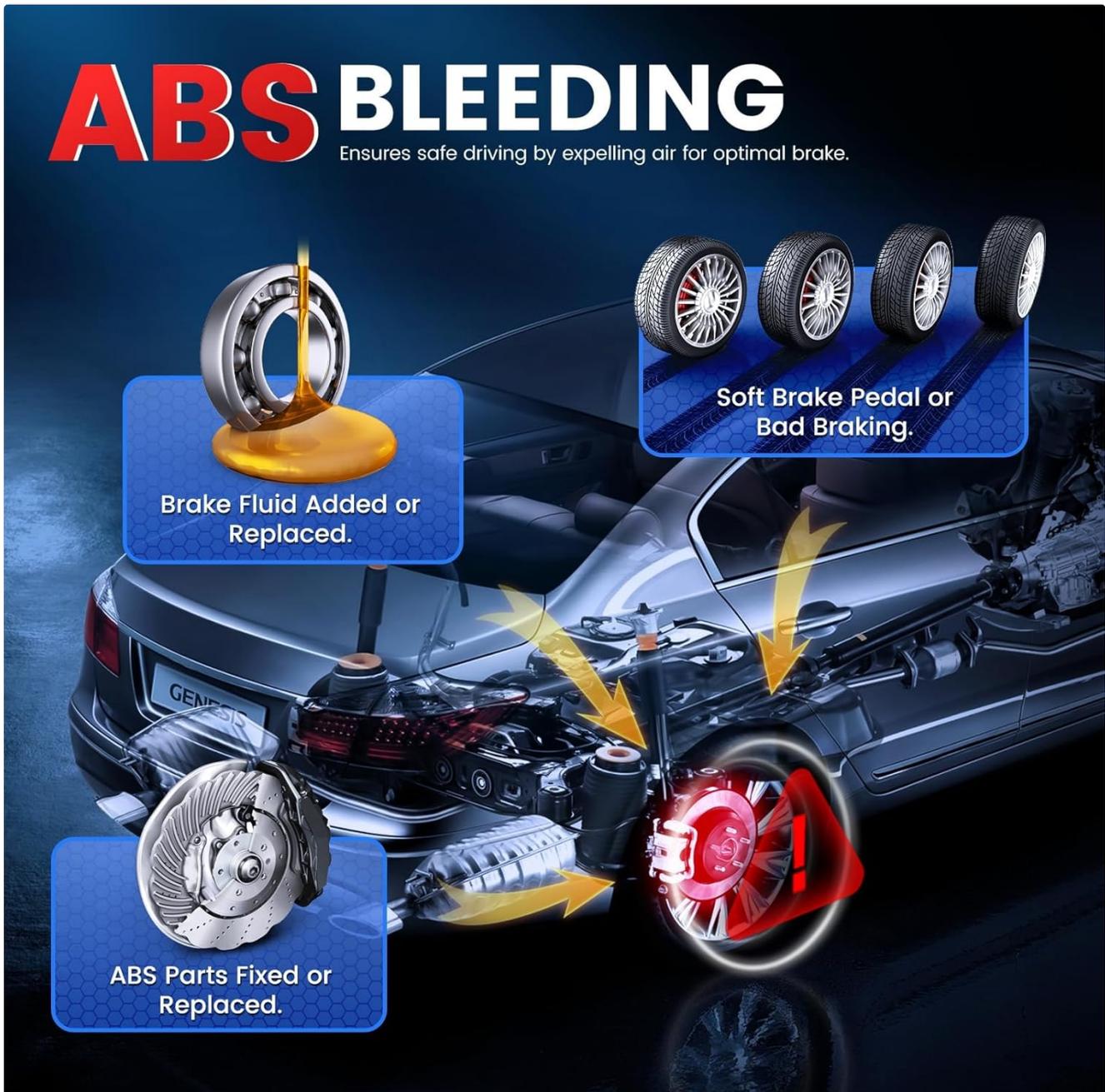


Figure 3.3: ANCEL DS200 ABS Bleeding Function.

This image illustrates the ABS Bleeding function of the ANCEL DS200, showing how it helps expel air from the brake system to ensure optimal brake performance, especially after brake fluid addition/replacement or ABS parts repair.

# SAS RESET

If the car is off course, reassess steering column alignment for better driving.



Figure 3.4: ANCEL DS200 SAS Reset Function.

This image demonstrates the SAS (Steering Angle Sensor) Reset function of the ANCEL DS200, which is used to recalibrate the steering column alignment for improved driving stability, particularly if the car is off course.

## 4. ANCEL BA101 CAR BATTERY TESTER

### 4.1. Key Features

- **Multi-function Testing:** Performs Quick Test, Battery Test, Cranking Test, and Charging Test.
- **Accurate Results:** Delivers 99.6% testing accuracy for battery health, voltage, and charge status.
- **Safety Protections:** Features reverse polarity protection, short circuit protection, and no need to charge the battery during testing.
- **High-Quality Construction:** Advanced crocodile clips with copper construction and robust spring design for secure connection.

# Versatile Battery Master

Provide accurate and efficient diagnostic report for car owners

## Cranking Test

Times Cranking	780ms
	Normal
	10.13V

**CRANKING NORMAL**

## Charging Test

Loaded	14.16V
Unloaded	14.39V
Replace	15mV

**CHARGING NORMAL**

Healthy:	30%	265 CCA
Charge:	86%	12.52 V
Internal R=		11.22 mΩ
Rated:	480A	

**REPLACE**

## ▶ Battery Test

Figure 4.1: ANCEL BA101 Versatile Battery Master Functions.

This image illustrates the ANCEL BA101's capabilities, including Cranking Test, Charging Test, and Battery Test, providing detailed reports on battery health, charge, internal resistance, and rated capacity.

## 4.2. Setup and Connection

1. **Prepare Battery:** Ensure battery terminals are clean and free of corrosion.
2. **Connect Clamps:** Connect the red positive (+) clamp to the positive battery terminal and the black negative (-)

) clamp to the negative battery terminal. The BA101 will power on automatically.

3. **Select Battery Type:** On the BA101 screen, select the correct battery type (e.g., Regular Flooded, AGM Flat Plate, AGM Spiral, GEL, EFB).
4. **Input Battery Standard:** Select the correct battery standard (e.g., CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB).
5. **Input CCA/AH Value:** Enter the Cold Cranking Amps (CCA) or Ampere-hour (AH) value as specified on your battery label.

### 4.3. Operating Instructions

Once connected and configured, select the desired test from the main menu:

- **Battery Test:** Assesses the overall health, charge, and internal resistance of the battery. Follow on-screen prompts for in-vehicle or out-of-vehicle testing.
- **Cranking Test:** Evaluates the vehicle's starting system, including cranking voltage and time. Follow prompts to start the engine.
- **Charging Test:** Checks the alternator's charging system, including loaded and unloaded voltage. Follow prompts to rev the engine.
- **Review Results:** The BA101 will display clear results such as "GOOD BATTERY," "GOOD: RECHARGE," "BAD CELL: REPLACE," or "REPLACE."

# No Reverse Worries

Safe Battery Testing, Secure Driving



Reverse Polarity Protection



No Need to Charge the Battery



Short Circuit Protection



Figure 4.2: ANCEL BA101 Battery Tester Safety Features.

This image highlights the safety features of the ANCEL BA101, including reverse polarity protection, short circuit protection, and the ability to test without needing to charge the battery, ensuring safe and secure testing.

# 99.6% Testing Accuracy

Accuracy for Savings and Performance



Figure 4.3: ANCEL BA101 Battery Tester Accuracy.

This image emphasizes the 99.6% testing accuracy of the ANCEL BA101, showing various diagnostic outcomes like "GOOD BATTERY," "BAD CELL: REPLACE," "GOOD: RECHARGE," and "REPLACE," indicating quick and reliable results within 3 seconds.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
DS200 does not power on.	Low battery; Loose OBD2 connection; Vehicle ignition off.	Charge the DS200; Ensure secure connection; Turn vehicle ignition to ON.
DS200 fails to communicate with vehicle.	Incorrect vehicle protocol; Faulty OBD2 port; Software issue.	Verify vehicle compatibility; Check vehicle's OBD2 port with another device; Update DS200 software.
BA101 does not power on.	Incorrect clamp connection; Battery completely dead.	Ensure correct positive/negative connection; Try on a known good battery.
BA101 shows inaccurate results.	Incorrect battery type/standard/CCA input; Dirty battery terminals.	Verify input parameters; Clean battery terminals thoroughly.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the exterior of both devices. Do not use abrasive cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place, away from direct sunlight and extreme temperatures. Keep them in their protective case when not in use.
- **Software Updates (DS200):** Regularly check for and install software updates for the DS200 via Wi-Fi or USB connection to ensure optimal performance and compatibility with new vehicle models.
- **Cable Care:** Inspect cables for any signs of damage (fraying, cuts) before each use. Do not use damaged cables.

## 7. SPECIFICATIONS

### 7.1. ANCEL DS200 OBD2 Scanner

- **Operating System:** Android OS
- **Processor:** Quad-core
- **Display:** 5-inch Touchscreen
- **Battery:** Built-in 1500mAh
- **Connectivity:** OBD2, Wi-Fi (for updates)
- **Supported Protocols:** All OBD2 protocols (ISO9141-2, ISO14230-4, SAEJ1850, ISO15765-4)

### 7.2. ANCEL BA101 Car Battery Tester

- **Voltage Range:** 12V
- **Test Range:** 100-2000 CCA
- **Accuracy:** 99.6%
- **Display:** LCD Screen
- **Protection:** Reverse Polarity, Short Circuit

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or assistance with specific vehicle compatibility, please contact ANCEL

customer service. Refer to the product packaging or the official ANCEL website for the most current contact details.

**Online Support:** ANCEL offers live chat support for assistance.

**Lifetime Free Updates:** The ANCEL DS200 comes with lifetime free software updates, ensuring long-term usability and compatibility.