

ANCEL AD610 PRO, BM300

ANCEL AD610 PRO OBD2 Scanner & BM300 Battery Monitor User Manual

Model: AD610 PRO, BM300

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the ANCEL AD610 PRO OBD2 Scanner and the ANCEL BM300 12V Battery Monitor. These devices are designed to assist in vehicle diagnostics and battery health monitoring.



Image: ANCEL AD610 PRO OBD2 Scanner and ANCEL BM300 12V Battery Monitor. The image displays both devices, highlighting the scanner's display and buttons, and the battery monitor's compact design with connection cables.

2. SETUP AND INSTALLATION

2.1 ANCEL AD610 PRO OBD2 Scanner

1. **Power Connection:** Connect the AD610 PRO scanner to your vehicle's OBD2 port, typically located under the dashboard. The device will power on automatically.
2. **Wi-Fi Setup:** For software updates, navigate to the 'Update' menu on the scanner and connect to an available Wi-Fi network. No account registration is required.

2.2 ANCEL BM300 12V Battery Monitor

1. **Physical Installation:** Permanently attach the BM300 monitor to your vehicle's 12V battery terminals. Ensure a secure connection.
2. **App Download:** Download the ANCEL Battery Monitor application from the App Store (for iOS) or Google Play Store (for Android). You can find the app by scanning the QR code on the device or by visiting <http://link.quicklynks.com/bm300.html>.
3. **Bluetooth Connection:** Open the app on your smartphone. The app will automatically search for and connect to the BM300 via Bluetooth. Ensure Bluetooth is enabled on your phone.

Easy to Install & Connect with Bluetooth

1. Download the APP



2. Connect Bluetooth name: "ANCEL Battery Monitor"

MY DEVICES

Device Name	Status
ANCEL Battery Monitor	Not Connected



Image: BM300 Easy Installation and Bluetooth Connection. This image illustrates the steps for downloading the app and connecting the BM300 battery monitor to a smartphone via Bluetooth, showing the app interface and the device's long-distance transmission capability.

3. OPERATING INSTRUCTIONS

3.1 ANCEL AD610 PRO OBD2 Scanner Functions

- **ABS Diagnosis & Reset:** This function identifies and resolves issues within the Anti-lock Braking System, such as sensor faults, wiring problems, or pump failures. It ensures proper system operation and clears warning lights.
- **SRS Diagnosis & Reset:** Used to detect and clear errors in the Supplemental Restraint System (airbag system), including ECU issues, sensor failures, or connection problems. It restores full safety performance and clears warning lights.
- **ABS Bleeding:** Guides the user through the process of bleeding the ABS system to maintain correct brake pressure and enhance braking performance. This typically involves repairing/replacing ABS components, replenishing/changing brake fluid, and addressing spongy brake pedals.
- **Full OBD2 Functions:** Access standard OBD2 diagnostic capabilities including:

- **Live Data:** View real-time sensor data from the vehicle.
 - **On-Board Monitor Test:** Check the status of various emission-related components.
 - **I/M Readiness:** Determine if the vehicle is ready for an emissions inspection.
 - **Read Codes:** Retrieve Diagnostic Trouble Codes (DTCs).
 - **Clear Codes:** Erase DTCs and turn off the Malfunction Indicator Lamp (MIL).
 - **Freeze Frame:** View a snapshot of vehicle conditions when a fault code was set.
 - **EVAP Test:** Test the evaporative emission control system.
 - **DTC Library:** Look up definitions for diagnostic trouble codes.
 - **Vehicle Info:** Retrieve vehicle identification information.
 - **Component Test:** Perform tests on specific vehicle components.
- **ABS SRS Bidirectional Control & Active Test:** Enables direct interaction with the vehicle's ABS/SRS systems for advanced diagnostics and testing. This includes functions like Auto Bleed Test, ABS Manual Control Test, Actuator Test, ABS Motor Test, ABS Version Test, and Setup SDM Serial Number.

All-IN-ONE ABS SRS DIAGNOSTICS

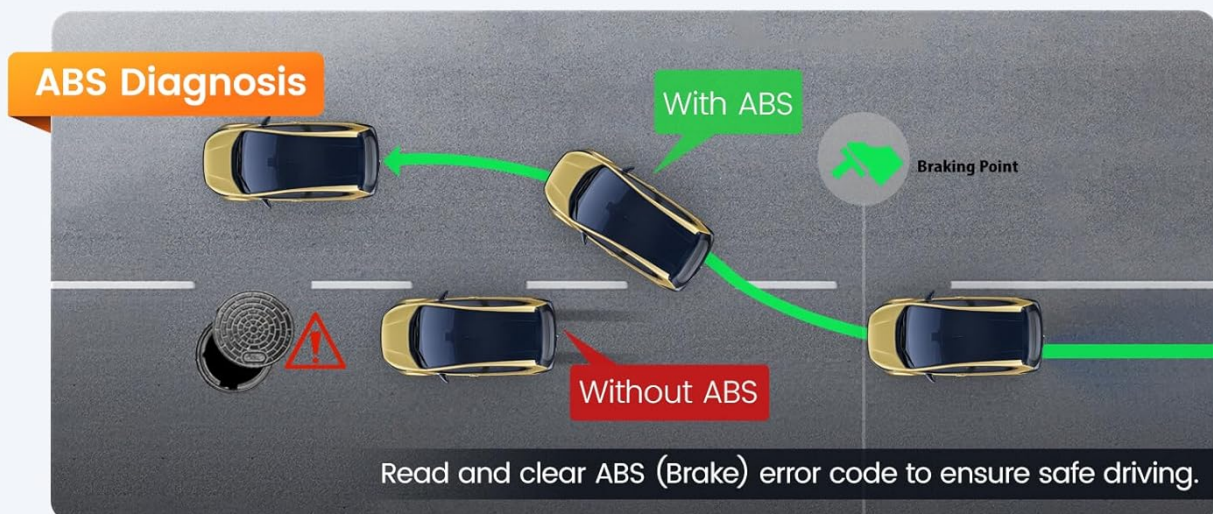


Image: All-in-One ABS SRS Diagnostics. This graphic illustrates the diagnostic capabilities of the AD610 PRO for both ABS (Anti-lock Braking System) and SRS (Supplemental Restraint System), showing how it helps read and clear error codes for safe driving and accident prevention.

ABS BLEEDING

Maintaining correct brake pressure, enhances braking performance

1.

ABS components
repaired or replaced



2.

Brake fluid
replenished or changed



3.

Spongy brake pedal or
reduced braking performance



Image: ABS Bleeding Process. This image details the steps involved in ABS bleeding, including repairing/replacing components, replenishing brake fluid, and the outcome of a spongy brake pedal if not performed correctly.

FULL OBD2 FUNCTIONS



Live Data



On-board
Monitor Test



I/M
Readiness



Read Codes



Clear Codes



Freeze Frame



EVAP Test



DTC Library



Vehicle
Info



Component
Test

Image: Full OBD2 Functions. This visual highlights the comprehensive OBD2 capabilities of the ANCEL AD610 PRO, including Live Data, On-Board Monitor Test, I/M Readiness, and various code reading/clearing functions.

I/M READINESS SELF-CHECK

Anticipate emission issues in advance, easily pass the annual inspection

Diagnostic trouble codes cleared		Sir
Comprehensive component monitoring	OK	
Catalyst monitoring	INC	
Heated catalyst monitoring	N/A	
Evaporative system monitoring	INC	
Secondary air system monitoring	N/A	
OK(F1)		



Image: I/M Readiness Self-Check. This image demonstrates the I/M Readiness function of the AD610 PRO, showing how it helps anticipate emission issues and prepare for annual inspections by displaying the status of various monitoring systems.

ABS SRS **BIDIRECTIONAL** CONTROL & ACTIVE TEST

Enables direct interaction with your vehicle's ABS/SRS for advanced diagnostics and testing.



Image: ABS SRS Bidirectional Control & Active Test. This graphic illustrates the bidirectional control capabilities of the AD610 PRO, allowing direct interaction with the vehicle's ABS/SRS for advanced diagnostics and testing, including various specific tests.

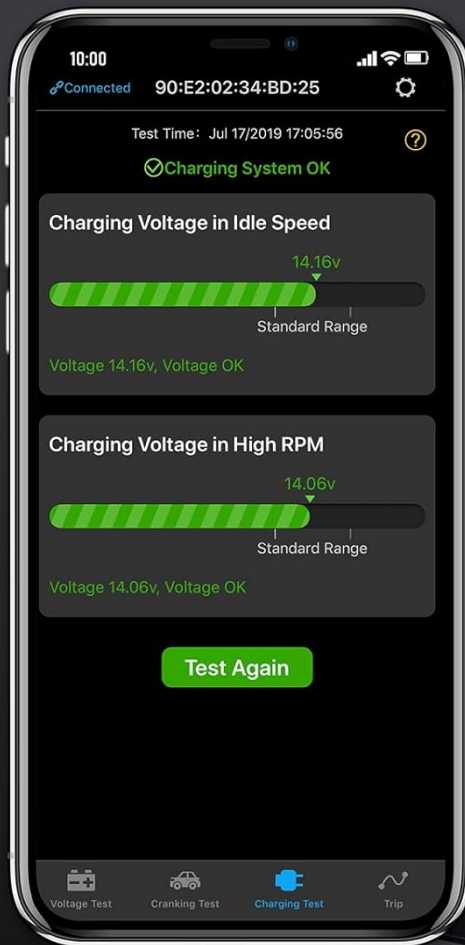
3.2 ANCEL BM300 Battery Monitor Functions

- **Real-time Monitoring:** The BM300 continuously tracks important battery metrics such as voltage, cranking performance, and charging system health. Data is accessible via the smartphone app.
- **Charging System Test:** Provides accurate analysis of the charging voltage at idle speed and high RPM, helping to identify alternator output issues.
- **Professional Cranking Test:** Determines the starter voltage status based on the actual result on the starter system and cranking voltage.
- **Travel History:** Records and displays battery data over time, allowing for historical analysis.
- **Alerts:** Provides real-time alerts for critical battery conditions.

Accurate Charging System Test

► VoltageTest-6~20V DC

► Alternator Output Analyze



Charging Voltage in Idle Speed



Charging Voltage in High RPM



Image: BM300 Accurate Charging System Test. This image shows the BM300's capability to perform accurate charging system tests, displaying charging voltage at idle speed and high RPM on the connected smartphone app.

Professional Cranking Test

Determination of starter voltage status based on the actual result on the starter system and cranking voltage



Image: BM300 Professional Cranking Test. This image illustrates the BM300's professional cranking test, showing the determination of starter voltage status and cranking voltage results on the smartphone app.

4. MAINTENANCE

- **Cleaning:** Wipe both devices with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Software Updates (AD610 PRO):** The AD610 PRO supports free lifetime software updates via Wi-Fi. Regularly check for and install updates to ensure optimal performance and compatibility with new vehicle models.
- **Battery Monitoring (BM300):** The BM300 has a very low power consumption (approx. 1.5mA) and is designed to be permanently attached to the battery without significant drain.

5. TROUBLESHOOTING

- **AD610 PRO Not Powering On:** Ensure the OBD2 cable is securely connected to the vehicle's OBD2 port. Check the vehicle's battery voltage.

- **AD610 PRO Not Communicating with Vehicle:** Verify the vehicle's ignition is in the ON position. Check for any blown fuses related to the OBD2 port. Ensure the vehicle is OBD2 compliant.
- **BM300 Not Connecting to App:** Ensure Bluetooth is enabled on your smartphone. Verify the BM300 is securely connected to the vehicle battery. Restart the app and try reconnecting.
- **Inaccurate BM300 Readings:** Ensure the battery terminals are clean and the BM300 connections are secure.
- **Software Update Issues (AD610 PRO):** Check your Wi-Fi connection. Ensure sufficient storage space on the device. Try restarting the device and attempting the update again.

6. SPECIFICATIONS

6.1 ANCEL AD610 PRO OBD2 Scanner

- **Display:** Color LCD
- **Connectivity:** OBD2 cable, Wi-Fi for updates
- **Supported Protocols:** OBDII/EOBD
- **Functions:** ABS/SRS Diagnosis & Reset, ABS Bleeding, Full OBD2 Functions, Bidirectional Control & Active Test
- **Updates:** Free lifetime Wi-Fi updates
- **Vehicle Compatibility:** Supports over 100 car brands

6.2 ANCEL BM300 12V Battery Monitor

- **Input Voltage:** 6V-20V DC
- **Power Consumption:** Approximately 1.5mA
- **Connectivity:** Bluetooth (to smartphone app)
- **Monitoring:** Voltage, Cranking Performance, Charging System Health, Travel History
- **App Compatibility:** iOS and Android

7. WARRANTY AND SUPPORT

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

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