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› Andeman 1000W 10-inch Slim Under-Seat Powered Car Subwoofer (Model AS-1) Instruction Manual

Andeman AS-1

Andeman 1000W 10-inch Slim Under-Seat Powered Car Subwoofer (Model AS-1) Instruction Manual

Model: AS-1 | Brand: Andeman

1. INTRODUCTION

Thank you for choosing the Andeman 1000W 10-inch Slim Under-Seat Powered Car Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new car audio system component. Please read this manual thoroughly before use to ensure safe and optimal performance.



Figure 1: Andeman 1000W 10-inch Slim Under-Seat Powered Car Subwoofer overview.

2. PRODUCT FEATURES

- **1000W Peak Power Bass:** Features a 10-inch large-caliber driver and dual-layer voice coil, delivering 20Hz-150Hz ultra-low frequencies. Includes a precision-tuned bass reflex port for enhanced airflow efficiency.
- **Excellent Heat Dissipation:** Constructed with a cast aluminum enclosure for stable performance, high strength, corrosion resistance, and effective heat dissipation, ensuring long product life.
- **Under-Seat Blue Bass Sync Lighting:** Integrated cool blue LED rings pulse with bass beats, adding visual appeal. Designed for discreet under-seat installation with a 3.5-inch ultra-slim profile.
- **Built-in High to Low Level Input:** Equipped with a built-in Hi/Lo converter for universal compatibility with both factory and aftermarket audio systems, eliminating the need for external adapters.
- **Pro-Grade Bass Precision:** Engineered for less than 0.15% ultra-low distortion and a 20Hz-150Hz frequency

range. Features +12dB bass boost, 90dB SNR, and 15A-25A fuse protection for reliable operation.

3. PACKAGE CONTENTS

Ensure all items are present and in good condition upon unpacking:

- Andeman 1000W 10-inch Slim Under-Seat Powered Car Subwoofer (Model AS-1)
- Remote Bass Control Knob with Cable
- Power Wiring Kit (including power, ground, and remote wires)
- RCA Audio Cables (Low-Level Input)
- High-Level Input Harness
- Mounting Brackets and Screws
- User Manual



Figure 2: Included accessories and wiring kit.

4. CONTROLS AND CONNECTIONS

The control panel on the subwoofer allows for fine-tuning of audio output and provides various input options.

SUPPORT HIGH LEVEL & LOW LEVEL INPUTS



Compatible with various car stereo audio systems and car host devices

Figure 3: Rear control panel with various inputs and adjustments.

- **Power/Protection Indicators:** Green LED indicates power on, Red LED indicates protection mode.
- **Phase Switch:** Adjusts the phase (0° or 180°) to optimize bass response with other speakers.
- **Low Pass Filter (LPF):** Adjustable crossover (50Hz-150Hz) to control the upper frequency limit of the subwoofer.
- **Bass Boost:** Adjusts bass level from 0 to +12dB.
- **Gain Input:** Controls the input sensitivity to match the output of your head unit.
- **Remote Control Port:** Connects the wired remote bass control knob.
- **High-Level Inputs:** For connecting directly to speaker wires from your head unit if RCA outputs are not available.
- **Low-Level Inputs (RCA):** For connecting to RCA pre-out outputs from your head unit.
- **Fuse:** Integrated 15A-25A fuse for circuit protection.
- **Power Terminals:** Connections for +12V (power), GND (ground), and REM (remote turn-on).
- **Auto Power On Switch:** Enables automatic power on/off when a signal is detected via high-level input.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, consult a professional car audio installer.

5.1 Choosing a Mounting Location

The slim design of the AS-1 subwoofer allows for flexible placement. Common locations include under a seat, in the trunk, or in the cargo area of SUVs/Jeeps. Ensure the chosen location provides adequate ventilation and does not obstruct vehicle controls or passenger movement.



Figure 4: Example of under-seat subwoofer installation.

5.2 Wiring Connections

1. **Power (+12V):** Connect the main power wire from the subwoofer's +12V terminal directly to the positive terminal of your vehicle's battery. Ensure an in-line fuse (included in the kit) is installed as close to the battery as possible for protection.
2. **Ground (GND):** Connect the ground wire from the subwoofer's GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, secure connection for proper grounding.
3. **Remote Turn-On (REM):** Connect the remote wire from the subwoofer's REM terminal to the remote output of your head unit. This wire signals the subwoofer to turn on/off with your vehicle's audio system. If using high-level inputs and your head unit does not have a remote output, the "Auto Power On" feature can be used.
4. **Audio Input:**
 - **Low-Level (RCA):** Connect RCA cables from your head unit's pre-out outputs to the subwoofer's Low-Level Inputs.
 - **High-Level:** If your head unit lacks RCA outputs, use the provided high-level input harness. Connect the harness wires to your vehicle's speaker wires (e.g., rear speaker wires).
5. **Remote Bass Control:** Connect the remote bass control knob to the "REMOTE CONTROL" port on the subwoofer. This allows for convenient bass level adjustment from the driver's seat.

FUNCTION INTRODUCTION

- A. Power and protection indicator
- B. Phase transfer switch
- C. When the high level (H) is input, when the REM is not connected (way two), it acts as the power control switch ON/OFF to activate the subwoofer.
- D. Bass filter potentiometer
- E. Bass potentiometer
- F. Volume potentiometer
- G. Remote bass volume control port
- H. High level input port
- I. Low level input port
- J. Fuse socket
- K. Power input terminal



Figure 5: General wiring diagram for a powered car subwoofer.

6. OPERATING INSTRUCTIONS

Once installed, adjust the subwoofer settings for optimal sound integration with your vehicle's audio system.

- **Initial Power-Up:** After all connections are secure, turn on your vehicle's ignition and audio system. The green "Power" LED on the subwoofer should illuminate. If the red "Protect" LED lights up, refer to the Troubleshooting section.
- **Gain Adjustment:** Start with the "Gain Input" knob at its minimum setting. Play a familiar piece of music with strong bass. Slowly increase the gain until the bass output blends well with your main speakers without distortion. Avoid setting the gain too high, as this can lead to clipping and damage.
- **Low Pass Filter (LPF):** Adjust the LPF knob to blend the subwoofer's output with your main speakers. A common starting point is around 80-100Hz. Experiment to find the best balance where bass sounds natural and not "boomy" or localized.
- **Bass Boost:** Use the "Bass Boost" control sparingly. Excessive bass boost can introduce distortion. Adjust it to add a subtle punch if desired, but prioritize clear, undistorted bass.
- **Phase Switch:** Experiment with the 0° and 180° phase settings. Choose the setting that provides the strongest and most impactful bass from your listening position. This helps ensure the subwoofer's sound waves are in sync with your main speakers.
- **Remote Bass Control:** Use the wired remote to conveniently adjust the bass level from your driving position without accessing the subwoofer directly.

7. MAINTENANCE

Regular maintenance ensures the longevity and performance of your subwoofer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Avoid using harsh chemicals or abrasive cleaners.

- **Connection Checks:** Periodically inspect all wiring connections (power, ground, remote, audio inputs) to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the subwoofer's heat sink and ventilation areas are not obstructed to prevent overheating.
- **Fuse Replacement:** If the subwoofer stops working and the power LED is off, check the fuse. Replace it only with a fuse of the same type and rating (15A-25A).

8. TROUBLESHOOTING

If you encounter issues with your subwoofer, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution
Amplifier cannot be started (No Power)	• Poor ground wire connection. • Positive voltage of battery not connected. • REMOTE voltage lower than 5VDC. • Positive voltage of power terminal not lower than 5VDC. • Damaged fuses.	• Check ground wire connection. • Check positive voltage of the battery. • Check REMOTE voltage. • Check positive voltage of the power terminal. • Check for damaged fuses. • Confirm the protection indicator; if it's on, restart the amplifier.
Protection indicator light is ON after amplifier starts	• Speaker terminals for a short circuit. • Volume potentiometer set too high (overload protection).	• Check speaker terminals for short circuit. • Turn down the volume potentiometer. • Remove horn connecting line and restart the amplifier.
No output	• Damaged fuses. • Amplifier not properly grounded. • Amplifier startup voltage too low. • RCA audio cable or high frequency input cable not connected. • Speaker cable not well connected.	• Check for damaged fuses. • Check that the amplifier is properly grounded. • Amplifier startup voltage should not be lower than 5VDC. • Check if the RCA audio cable or high frequency input cable is connected. • Check if the speaker cable is well connected.

Problem	Possible Cause	Solution
Low power output	- Volume potentiometer not reset. - Filter potentiometer not in correct position. - Signal input line of the power amplifier not connected.	- Reset the volume potentiometer. - Check that the filter potentiometer is in the correct position. - Disconnect the signal input line of the power amplifier and connect with the signal source.

9. SPECIFICATIONS

Feature	Specification
Product Model	AS-1
Speaker Type	Car Subwoofer
Speaker Size	10 Inches
Speaker Maximum Output Power	1000 Watts (Peak)
Frequency Response	20Hz-150Hz
Signal-to-Noise Ratio (SNR)	>90 dB
Total Harmonic Distortion (THD)	0.4%
Input Voltage	15 Volts (Operating range 10-15V)
Impedance	4 Ohms
Material	Aluminum
Product Dimensions (L x W x H)	16"D x 5"W x 13"H (approx. 395 x 320 x 125mm)
Item Weight	10.93 pounds (approx. 4.97 kg)
Fuse Rating	15A-25A
Connectivity Technology	Auxiliary, RCA, Wired
Control Method	Remote
Special Feature	Built-in Amplifier, Blue LED Light, Hi/Lo Input

10. WARRANTY AND SUPPORT

This Andeman product comes with a limited warranty. For detailed warranty information, product support, or technical assistance, please refer to the contact information provided in the product packaging or visit the official Andeman website.

Please retain your proof of purchase for any warranty claims.