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› Audiobank High Performance Bass Machine AB-AP12 User Manual

## **Audiobank AB-AP12**

# **Audiobank High Performance Bass Machine AB-AP12 User Manual**

Model: AB-AP12 (Technical Model: ST-AP7)

## **1. PRODUCT OVERVIEW**

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The Audiobank High Performance Bass Machine AB-AP12 is designed to enhance the bass output and control in your car audio system. It features a bass equalization circuit, a dash mount remote control, and a bass indicator to provide precise adjustment and monitoring of your subwoofer's performance. This unit allows for significant bass improvement while retaining your factory head unit.



Figure 1: Audiobank AB-AP12 High Performance Bass Machine main unit, showing various controls and input/output ports.

## 2. KEY FEATURES

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- **High Performance Bass Machine:** Specifically engineered for superior bass enhancement.
- **Subwoofer Bass Control:** Provides dedicated controls for fine-tuning subwoofer output.
- **Bass Equalization Circuit:** Optimizes bass frequencies for a richer, clearer sound.
- **Dash Mount Remote Control:** Allows convenient adjustment of bass levels from the driver's seat.
- **Bass Indicator:** Visual feedback on bass activity.
- **Active Input Circuitry:** Accepts speaker-level signals up to 400 watts RMS per channel.
- **High-Quality Preamp Signals:** Converts speaker-level inputs to clean preamp signals for aftermarket amplifiers.
- **Signal Sensing Turn-On:** Automatically turns on the unit and provides a remote output for amplifiers when an audio signal is detected.

## 3. WHAT'S IN THE BOX

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Upon unboxing your Audiobank AB-AP12, you should find the following components:

- Audiobank High Performance Bass Machine AB-AP12 Main Unit
- Dash Mount Remote Control
- Bass Indicator
- Wiring Harnesses (for power, ground, remote, and speaker inputs)
- Mounting Hardware
- User Manual



Figure 2: The Audiobank AB-AP12 main unit shown alongside its dash remote control.

## 4. SPECIFICATIONS

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Specification	Value
Item Model Number	ST-AP7
Item Weight	1.74 pounds (0.79 Kilograms)
Package Dimensions	8.93 x 7.79 x 1.92 inches
Body Material	Plastic
Color	Silver-and-Black
Connector Type	DC power jack, USB
Hardware Interface	USB 2.0 Type B
Signal Format	Analog
Power Source	Corded Electric
Voltage	9 Volts

## 5. SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified car audio technician. This section provides a general overview of the setup process.

### 5.1 Wiring Connections

- Power Connection:** Connect the +12V terminal to a constant +12V power source from your vehicle's battery.
- Ground Connection:** Connect the GND terminal to a solid chassis ground point in your vehicle.
- Speaker Level Input:** Connect the speaker wires from your factory head unit or amplifier to the AB-AP12's speaker input terminals. Ensure correct polarity (Left+, Left-, Right+, Right-). The AB-AP12 can accept up to 400 watts RMS per channel.
- RCA Output:** Connect RCA cables from the AB-AP12's output (Bass Output and Main Output) to your aftermarket amplifier(s).
- Remote Output:** The AB-AP12 features signal sensing technology. When an audio signal is detected, it will provide a +12V remote output signal to turn on your aftermarket amplifier(s). Connect this remote wire to the remote turn-on input of your amplifier. This helps prevent turn-on/off pops.
- Dash Remote Connection:** Connect the dash mount remote control to the designated port on the AB-AP12 using the provided cable.



Figure 3: Side view of the Audiobank AB-AP12, highlighting the input and output connections for wiring.

## 5.2 Understanding Bass Enhancement (Conceptual Video)

The following video provides a conceptual explanation of how a line output converter and bass enhancer works to restore and improve bass frequencies, especially when integrating aftermarket audio components with a factory head unit. While the video features a different brand (NVX XLCA2), the principles of operation for bass restoration and signal conversion are similar to the Audiobank AB-AP12.

Your browser does not support the video tag.

Video 1: Conceptual demonstration of a 2-channel line out converter with digital bass enhancement technology (NVX XLCA2). This video illustrates how such devices restore bass frequencies lost from factory head units and provide a clean signal for aftermarket amplifiers.

## 6. OPERATING INSTRUCTIONS

The AB-AP12 offers several controls to customize your bass experience:

### 6.1 Main Unit Controls

- **Bass Output Control:** Adjusts the overall bass output level.
- **Subsonic Filter:** Selectable frequencies (25Hz, 33Hz, 40Hz) to filter out ultra-low frequencies that are inaudible and can damage subwoofers.
- **Input Grounding:** Switch between Unbalanced and Balanced input grounding to minimize noise.
- **Wide/Sweep Controls:** These controls allow you to fine-tune the bass equalization circuit. 'Wide' adjusts the bandwidth of the bass boost, while 'Sweep' selects the center frequency of the bass boost. Experiment with these settings to achieve your desired bass response.



Figure 4: Top view of the Audiobank AB-AP12 main unit, illustrating the various control knobs and switches.

### 6.2 Dash Mount Remote Control

The dash mount remote allows for convenient, real-time adjustment of the bass level from your driving position. Rotate the knob to increase or decrease the bass output.



Figure 5: The compact dash mount remote control for the Audiobank AB-AP12, featuring a rotary knob for bass level adjustment.

## 7. MAINTENANCE

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To ensure the longevity and optimal performance of your Audiobank AB-AP12, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the unit. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the unit is installed in a location with adequate ventilation to prevent overheating. Do not block any ventilation openings.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Environmental Factors:** Protect the unit from extreme temperatures, moisture, and direct sunlight.

## 8. TROUBLESHOOTING

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If you experience issues with your Audiobank AB-AP12, refer to the following troubleshooting steps:

- **No Power:**
  - Check the +12V power and ground connections.
  - Verify the vehicle's fuse for the power connection is intact.
  - Ensure the remote wire is properly connected and receiving a signal from the head unit or the AB-AP12's signal sensing output.
- **No Sound/Low Output:**
  - Confirm all speaker-level input and RCA output connections are secure and correctly wired.
  - Check the gain settings on your amplifier and the bass output control on the AB-AP12.
  - Ensure the source unit (factory stereo) is producing an audio signal.
- **Distorted Sound:**
  - Reduce the input level to the AB-AP12 if the factory head unit's output is too high.
  - Adjust the gain settings on your amplifier.
  - Check for proper grounding to eliminate noise.
  - Ensure the Subsonic Filter is set appropriately for your subwoofer to prevent over-exursion.
- **Turn-On/Off Pops:**

- Verify the remote wire connection and ensure the signal sensing feature is functioning correctly.
- Check for proper grounding of all components.

## **9. WARRANTY INFORMATION**

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For specific warranty details, please refer to the warranty card included with your product or contact Audiobank customer support. Typically, Audiobank products come with a limited manufacturer's warranty covering defects in materials and workmanship for a specified period from the date of purchase. Keep your proof of purchase for warranty claims.

## **10. SUPPORT**

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If you require further assistance or have questions not covered in this manual, please contact Audiobank customer support through their official website or the contact information provided on your product packaging. When contacting support, please have your product model number (AB-AP12 / ST-AP7) and purchase details ready.