## Dayton Audio BSA-200

# Dayton Audio BSA-200 Amplifier User Manual

200 Watt Bridgeable Stereo Bass Shaker and Subwoofer Amplifier with Remote

## 1. Introduction

The Dayton Audio BSA-200 is a high-performance, versatile 200-watt bridgeable stereo amplifier designed to power bass shakers, subwoofers, and low-frequency transducers. This manual provides detailed instructions for the safe installation, operation, and maintenance of your amplifier, ensuring optimal performance and longevity.

## 2. Safety Information

Please read and understand all safety instructions before operating this device. Retain this manual for future reference.

- **CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.** To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.
- Do not expose this appliance to rain or moisture.
- Ensure proper ventilation. Do not block any ventilation openings.
- Place the unit on a stable, level surface away from heat sources.
- Only use attachments/accessories specified by the manufacturer.
- Unplug the appliance during lightning storms or when unused for long periods.
- Before connecting the power cord, ensure the AC SELECT switch on the rear panel is set to the correct voltage for your region (110-120V or 220-240V).

## 3. Package Contents

Verify that all items are present in the package:

- Dayton Audio BSA-200 Amplifier Unit
- Wired Remote Control
- AC Power Cable
- User Manual (this document)



**Figure 3.1:** Included AC Power Cable. This cable connects the amplifier to a standard wall outlet.

## 4. Product Overview

### 4.1 Front Panel Controls




**Figure 4.1:** Front Panel of the BSA-200 Amplifier. This view displays the power button, indicator light, and control knobs.

- **Power Button:** Press to turn the amplifier on or off.
- **Power Indicator LED:** Illuminates when the amplifier is powered on.
- **Frequency Control:** Adjusts the low-pass crossover frequency from 50 Hz to 200 Hz. This determines the upper frequency limit of the audio signal sent to the connected bass shakers or subwoofer.
- **Balance Control:** Adjusts the relative output level between the left (L) and right (R) speaker outputs.
- **Volume Control:** Adjusts the overall output level of the amplifier.
- **Remote Port:** Connects the wired remote control for convenient volume and power adjustments.

### 4.2 Rear Panel Connections




**Figure 4.2:** Rear Panel of the BSA-200 Amplifier. This section details all audio inputs, outputs, and power connections.

- **LINE OUT (RCA):** Stereo RCA outputs for passing the audio signal to another amplifier or audio device.
- **LINE IN (RCA):** Stereo RCA inputs for connecting audio sources such as a receiver, preamplifier, or sound card.
- **AUTO ON / STEREO / BRIDGE Switch:** Selects the amplifier's operating mode.
  - **AUTO ON:** The amplifier automatically turns on when an audio signal is detected and enters standby when no signal is present.
  - **STEREO:** The amplifier operates in stereo mode, providing separate left and right channels to the speaker outputs.
  - **BRIDGE:** The amplifier operates in bridged mono mode, combining the power of both channels into a single, higher-power output for a single bass shaker or subwoofer.
- **USB (5V/500mA):** A USB port providing 5V DC at 500mA, typically used for powering small external devices or accessories.
- **SPEAKER OUT:** Binding post terminals for connecting bass shakers or subwoofers. Supports both stereo (L/R) and bridged configurations.
- **AC SELECT (110-120V / 220-240V):** A switch to select the appropriate AC input voltage for your region. **Ensure this is set correctly before connecting power.**
- **AC INPUT:** Connects the supplied AC power cable.

## 4.3 Wired Remote Control




**Figure 4.3:** Wired Remote Control. This remote allows for convenient power and volume adjustments.

- **Power Button:** Toggles the amplifier's power on and off.
- **Volume Knob:** Adjusts the output volume level.

## 5. Setup

### 5.1 Placement

Position the BSA-200 amplifier in a location that allows for adequate ventilation. Avoid enclosed spaces or direct sunlight. Ensure it is placed on a stable, flat surface.

### 5.2 Voltage Selection

**IMPORTANT:** Before connecting the AC power cable, locate the **AC SELECT** switch on the rear panel. Use a small screwdriver to set the switch to either **110-120V** or **220-240V**, matching the mains voltage in your region. Incorrect voltage selection can damage the amplifier.

### 5.3 Connecting Audio Sources

Connect your audio source (e.g., receiver, preamplifier, sound card) to the **LINE IN (RCA)** jacks on the rear panel using standard RCA cables. If your source has a dedicated subwoofer output, connect it to one of the LINE IN jacks.

### 5.4 Connecting Bass Shakers or Subwoofers

The BSA-200 offers two connection modes for your transducers:

- **Stereo Mode:** For connecting two bass shakers or subwoofers, use the left (L) and right (R) terminals of the **SPEAKER OUT** section. Ensure the **AUTO ON** / **STEREO** / **BRIDGE** switch is set to **STEREO**. Connect the positive (+) terminal of each transducer to the corresponding red (+) terminal on the amplifier, and the negative (-) terminal of each transducer to the corresponding black (-) terminal.
- **Bridged Mono Mode:** For connecting a single, higher-power bass shaker or subwoofer, use the two red (+) terminals labeled 'BRIDGE' in the **SPEAKER OUT** section. Ensure the **AUTO ON** / **STEREO** / **BRIDGE** switch is set to **BRIDGE**. Connect the positive (+) terminal of your transducer to the red (+) terminal labeled 'L' (left channel positive) and the negative (-) terminal of your transducer to the red (+) terminal labeled 'R' (right channel positive). This configuration combines the power of both channels for increased output.

Ensure all speaker wire connections are secure and that there are no stray wire strands that could cause a short circuit.

### 5.5 Connecting the Wired Remote Control

Plug the wired remote control cable into the **REMOTE** port on the front panel of the amplifier. This allows for convenient volume and power control from your listening position.

### 5.6 Power Connection

After all other connections are made and the AC SELECT switch is correctly set, connect the supplied AC power cable to the **AC INPUT** on the rear panel and then plug the other end into a suitable wall outlet.

## 6. Operating Instructions

### 6.1 Power On/Off

Press the **Power Button** on the front panel or the wired remote control to turn the amplifier on or off. The Power Indicator LED on the front panel will illuminate when the unit is on.

### 6.2 Volume Adjustment

Adjust the overall output level using the **Volume Control** knob on the front panel or the volume knob on the wired remote control. Start with a low volume setting and gradually increase it to a comfortable listening level.

### 6.3 Frequency Adjustment (Crossover)

Use the **Frequency Control** knob on the front panel to set the low-pass crossover point. This control allows you to tailor the frequency response of the bass shakers or subwoofer to integrate seamlessly with your main speakers. Adjust it between 50 Hz and 200 Hz to find the optimal blend for your system and room acoustics.

### 6.4 Balance Adjustment

If operating in stereo mode, use the **Balance Control** knob on the front panel to adjust the relative output level between the left and right channels. This helps to compensate for uneven placement of bass shakers or room acoustics.

### 6.5 Operating Modes (AUTO ON / STEREO / BRIDGE)

Select the desired operating mode using the switch on the rear panel:

- **AUTO ON:** In this mode, the amplifier will automatically power on when an audio signal is detected at the LINE IN inputs and will enter a low-power standby mode after a period of no audio signal.
- **STEREO:** The amplifier provides two independent channels of amplification, suitable for two bass shakers or subwoofers.
- **BRIDGE:** The amplifier combines its two channels into a single, more powerful mono output. This mode is ideal for driving a single, high-power bass shaker or subwoofer. Ensure your transducer is rated to handle the increased power output in bridged mode.

## 7. Maintenance

The Dayton Audio BSA-200 amplifier requires minimal maintenance.

- **Cleaning:** Disconnect the power before cleaning. Use a soft, dry cloth to wipe the exterior surfaces. Do not use liquid cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris to ensure proper airflow.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place.

## 8. Troubleshooting

If you experience issues with your BSA-200 amplifier, consult the following table before contacting support.

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| No power, Power LED off | • Power cable not connected.<br>• AC SELECT switch set incorrectly.<br>• Wall outlet not active.<br>• Amplifier in standby (AUTO ON mode). | • Ensure power cable is securely connected to amplifier and wall outlet.<br>• Verify AC SELECT switch matches your region's voltage.<br>• Test wall outlet with another device.<br>• If in AUTO ON mode, send an audio signal to wake the amplifier. |
| No sound output | • Volume set too low.<br>• Audio source not connected or not playing.<br>• Incorrect input selected on source device.<br>• Speaker wires not connected or shorted.<br>• Incorrect operating mode (STEREO/BRIDGE). | • Increase volume on amplifier and remote.<br>• Verify audio source is connected and playing.<br>• Check input selection on your source device.<br>• Inspect speaker wire connections for security and shorts.<br>• Ensure AUTO ON / STEREO / BRIDGE switch is set correctly for your setup. |
| Distorted or unclear sound | • Volume set too high (clipping).<br>• Incorrect frequency setting.<br>• Poor quality audio source.<br>• Damaged speaker/bass shaker. | • Reduce volume.<br>• Adjust Frequency Control for optimal sound.<br>• Test with a different audio source.<br>• Inspect connected transducers for damage. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Remote control not working | • Remote cable not fully connected.<br>• Damaged remote cable or remote. | • Ensure remote cable is securely plugged into the front panel port.<br>• Inspect cable for damage. If issues persist, contact support. |

## 9. Specifications

Technical specifications for the Dayton Audio BSA-200 Amplifier:

- **Model:** BSA-200
- **Output Wattage:** 200 Watts RMS (at 4 Ohms bridged)
- **Power Source:** Corded Electric
- **AC Input Voltage:** Selectable 110-120V / 220-240V
- **USB Output:** 5V / 500mA
- **Frequency Response:** 50 Hz - 200 Hz (adjustable low-pass crossover)
- **Compatible Devices:** Bass Shakers, Subwoofers, Low-Frequency Transducers
- **Connector Type:** RCA (Line In/Out), Binding Post (Speaker Out), Mini-DIN (Remote), USB (Power Out), IEC (AC Input)
- **Color:** Black
- **Item Weight:** 6.62 pounds (approximately 3 kg)
- **Product Dimensions (H x W x D):** 2.5" x 9.5" x 8.5" (approximately 6.35 cm x 24.13 cm x 21.59 cm)




**Figure 9.1:** Physical dimensions of the BSA-200 Amplifier, showing height, width, and depth.

## 10. Warranty and Support

### 10.1 Warranty Information

The Dayton Audio BSA-200 Amplifier comes with an exclusive **5-year warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 10.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Dayton Audio customer

support. Visit the official Dayton Audio website for contact information and additional resources.

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## Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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