Dayton Audio SUB-1000

Dayton Audio SUB-1000 10-inch Powered Subwoofer Instruction Manual

Model: SUB-1000

1. Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Dayton Audio SUB-1000 10-inch Powered Subwoofer. Please read this manual thoroughly before use to ensure optimal performance and longevity of your product.

2. Safety Information

To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts are inside. Refer servicing to qualified service personnel. Do not expose this appliance to rain or moisture. Do not place objects filled with liquids, such as vases, on the apparatus. Ensure proper ventilation and avoid blocking any ventilation openings. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Only use attachments/accessories specified by the manufacturer.

3. Package Contents

- Dayton Audio SUB-1000 10-inch Powered Subwoofer
- Power Cord
- Floor stands (pre-attached or included for installation)

4. Product Overview

The Dayton Audio SUB-1000 is a 10-inch powered subwoofer designed to enhance the low-frequency effects in your home audio system. It features a bottom-firing, flared port, bass-reflex design for reduced port noise and increased bass response. A heavy-duty, long-throw 10-inch woofer delivers powerful sound. The integrated amplifier includes various connectivity options and controls for seamless integration into any setup.



Image 1: Front view of the Dayton Audio SUB-1000 subwoofer with its protective grille attached.



Image 2: Front view of the Dayton Audio SUB-1000 subwoofer with the grille removed, showcasing the 10-inch woofer.

5. Setup and Connections

Before making any connections, ensure the subwoofer and all connected audio equipment are powered off.

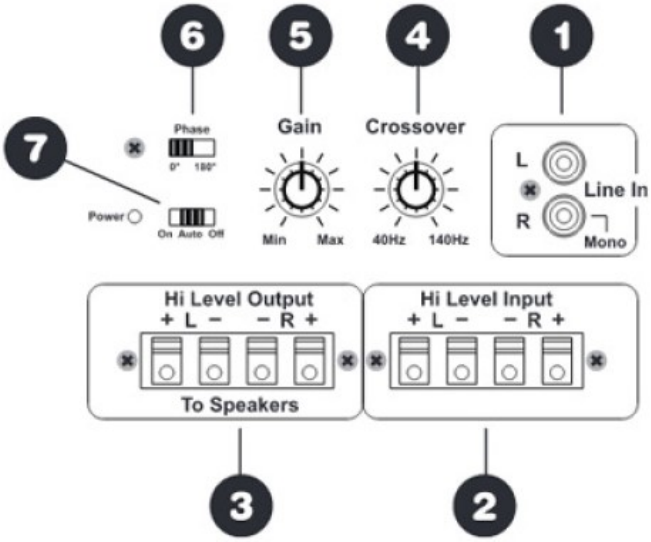


Image 3: Diagram of the rear panel controls and connections.



Image 4: Physical view of the rear panel with connections and controls.

5.1. Line Level Inputs (1)

These inputs are used to connect pre-out or preamplifier outputs from your receiver or processor directly to the subwoofer amplifier's internal crossover. The inputs are summed to mono. If your receiver has a mono LFE (Low-Frequency Effects) output, use the right (red) input. When using an LFE mono output, set the Crossover Frequency Control (4) to its maximum setting.

5.2. High Level Inputs (2)

If preamplifier outputs are not available on your receiver, use the high-level (speaker) inputs. Connect these directly to your main amplifier's speaker outputs by inserting the speaker wire. Ensure correct polarity (+ to + and - to -).

5.3. High Level Outputs (3)

These outputs can be used to connect to your main speakers or to another powered subwoofer that accepts high-level

inputs. Note that these outputs are paralleled to the high-level inputs and do not apply any high-pass filtering.

5.4. Power Connection

Connect the included power cord to the subwoofer's power inlet and then to a suitable AC power outlet (120V AC, 60Hz).

6. Operating Instructions

6.1. Crossover Frequency Control (4)

This control is continuously variable from 40 Hz to 140 Hz at 12 dB/octave. Adjust this setting to blend the subwoofer's output seamlessly with your main speakers. A common starting point is between 60-80 Hz. If using a dedicated LFE mono output from your receiver, set this control to its maximum frequency.

6.2. Gain Control (5)

This knob adjusts the output level (volume) of the subwoofer. Set the level so that the bass frequencies blend naturally with the other speakers in your system. Avoid setting the level too high, as this can result in an unnatural or 'boomy' sound.

6.3. Phase Switch (6)

This switch allows you to select between 0° and 180° phase. Experiment with both positions to determine which provides the most apparent and impactful bass output in your listening environment. The correct position will result in the strongest and most coherent bass.

6.4. Power Switch (Auto On/Off) (7)

When the power switch is in the 'Auto' position, the amplifier will automatically turn on when an audio signal is detected and enter a low-power standby mode when no signal is present for a period. In 'Auto/Off' mode, the power LED will remain red when in standby and turn green when the unit is active. The 'On' position keeps the subwoofer powered on continuously, and 'Off' powers it down completely.

7. Placement

Subwoofer placement can significantly impact sound quality. Generally, placing the subwoofer in a corner of the room can enhance bass output, but may also lead to a 'boomy' sound. Experiment with different locations within your listening area to find the position that provides the most balanced and impactful bass response for your room acoustics. Consider the 'subwoofer crawl' method: place the subwoofer in your primary listening position, then crawl around the room to find where the bass sounds best. That location is often a good starting point for placing the subwoofer.



Image 5: Example of subwoofer placement in a home environment.

8. Maintenance

To maintain the appearance and performance of your subwoofer:

- Wipe the cabinet with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the subwoofer is disconnected from power before cleaning.
- Keep the subwoofer away from direct sunlight, excessive heat, and moisture.

9. Troubleshooting

9.1. No Sound from Subwoofer

- Check that the power cord is securely connected to both the subwoofer and the AC outlet.
- Verify that the power switch is in the 'On' or 'Auto' position.
- Ensure audio cables are correctly connected to the appropriate inputs on the subwoofer and outputs on your receiver/amplifier.
- Increase the 'Gain' control (volume) on the subwoofer.
- Check the volume settings on your receiver/amplifier and ensure the subwoofer output is enabled.

9.2. Boomy or Unclear Bass

- Adjust the 'Gain' control (volume) to a lower setting.
- Adjust the 'Crossover Frequency' control to a lower frequency to better blend with your main speakers.
- Experiment with the 'Phase' switch (0° or 180°) to find the setting that provides the most coherent bass.
- Try repositioning the subwoofer in your room.

9.3. Humming or Buzzing Noise

- Ensure all audio cables are securely connected.
- Try connecting the subwoofer to a different AC outlet.
- If using RCA cables, try a different cable or ensure it is not running parallel to power cables.

10. Specifications

Feature	Specification
Model Name	SUB-1000
Speaker Type	Powered Subwoofer
Woofer Diameter	10 Inches
Speaker Maximum Output Power	80 Watts
Connectivity Technology	Wired (RCA, High-Level)
Input Voltage	120 Volts (AC)
Material	Wood
Color	Black
Product Dimensions (H x D x W)	14.8" x 14.2" x 15.8"
Item Weight	32.9 Pounds
Special Features	Bass Boost, Volume Control, Auto On/Off, Phase Switch
Recommended Uses	Home Theater
UPC	844632094101



Image 6: Dimensions of the Dayton Audio SUB-1000 subwoofer.

11. Warranty Information

The Dayton Audio SUB-1000 10-inch Powered Subwoofer comes with a limited warranty. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Dayton Audio website.

12. Support

For further assistance, technical support, or inquiries regarding your Dayton Audio SUB-1000 subwoofer, please visit the official Dayton Audio website or contact their customer service department. Contact information can typically be found on the manufacturer's website or on the product packaging.

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Question

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