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Polk Audio AM1055-C

Polk Audio PSW10 10" Powered Subwoofer User Manual

Model: AM1055-C | Brand: Polk Audio

1. INTRODUCTION

The Polk Audio PSW10 is a 10-inch powered subwoofer designed to enhance your home audio system by adding deep bass excitement and extended dynamic thrills to music and movies. Its compact design and easy setup make it a versatile addition to various home theater configurations. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your PSW10 subwoofer.

2. FEATURES

- **Powerful Bass:** Features a 10-inch Dynamic Balance composite cone driver for accurate, deep, and smooth bass response with superior detail and accuracy.
- **High Power Output:** Powered by a high-current amplifier producing 50 Watts RMS / 100 Watts dynamic power.
- **Power Port Technology:** Uniquely configured directed port limits distortion and enhances bass impact.
- **Adjustable Controls:** Includes a rotary volume control, continuously variable low-pass filter (80-160 Hz), and a phase toggle switch.
- **Versatile Connectivity:** Equipped with easily accessible, professional-grade line- and speaker-level inputs, and speaker level outputs for easy connection to any system.
- **Timbre-Matched:** Designed to blend seamlessly with other Polk Audio speakers, including Monitor and T-Series.

HIGH-PERFORMANCE POWERED SUBWOOFER

Excellent choice for a small
or medium size space

UP TO 100 W
(50W RMS)

**BRINGS YOUR MUSIC
AND MOVIES TO LIFE**

10" front-firing Dynamic
Balance® polymer composite
driver delivers extra bass and
punch for a number of
genres lifting your audio
experience by many folds



High-roll foam surrounds
provide longer excursion that
makes audio sound even better

Figure 2.1: High-Performance Powered Subwoofer features, including the 10-inch front-firing Dynamic Balance polymer composite driver and high-roll foam surrounds.



MAXIMUM BASS IMPACT

with a specially tuned and directed port for extra oomph. The sub's unique configuration keeps it stable even at radical volume levels.

Figure 2.2: Maximum Bass Impact achieved through a specially tuned and directed port, ensuring stable performance at high volumes.

BLENDS PERFECTLY WITH OTHER POLK AUDIO SPEAKERS

PSW subwoofers are timbre-matched with other systems made of Polk loudspeakers such as Monitor and T Series speakers



Figure 2.3: The PSW10 subwoofer is timbre-matched to blend perfectly with other Polk Audio speakers like the Monitor and T-Series.

3. WHAT'S IN THE BOX

Upon unpacking your Polk Audio PSW10 subwoofer, please ensure all the following components are present:

- Black powered subwoofer
- Grille
- Owner's manual (this document)
- Online registration card

4. SETUP

4.1 Placement

The placement of your subwoofer significantly impacts its performance. For optimal results in small to mid-sized rooms, consider placing the PSW10 in a corner or along a wall. Experiment with different positions to find the best bass response for your listening area. The front-firing port delivers bass directly to the listening area.

TRADITIONAL WOODEN LOOK in a titanium baffel design



Figure 4.1: Dimensions of the Polk Audio PSW10 subwoofer, useful for planning placement.

4.2 Connections

The PSW10 offers flexible connection options:

1. **Line-Level Input (RCA):** Connect the subwoofer output from your receiver or pre-amplifier to the LFE or Line In (Left/Right) inputs on the PSW10. This is the recommended connection for most home theater receivers.
2. **Speaker-Level Input/Output:** If your receiver does not have a dedicated subwoofer output, connect the speaker outputs from your receiver to the speaker-level inputs on the PSW10. Then, connect the speaker-level outputs from the PSW10 to your main front speakers.

Ensure all connections are secure before proceeding.

CLEARLY MARKED BACK PANEL

makes this fully-loaded subwoofer convenient to use



Figure 4.2: Clearly marked back panel of the PSW10, illustrating connection points and controls.

4.3 Initial Power-Up

Once connected, plug the subwoofer into a suitable AC power outlet. Set the 3-way power switch to 'AUTO' for automatic power on/off with signal detection, or 'ON' for continuous operation. For initial setup, 'ON' might be preferred to ensure the unit is active.

5. OPERATING THE SUBWOOFER

5.1 Volume Control

Adjust the rotary volume control on the back panel to balance the subwoofer's output with your main speakers. Start with a low volume and gradually increase it until the bass blends seamlessly with your system, without overpowering the other speakers.

5.2 Low-Pass Filter (Crossover)

The continuously variable low-pass filter (80-160 Hz) allows you to control the upper frequency limit of the subwoofer. Set this control to match the low-frequency capabilities of your main speakers. If your main speakers are small, set the crossover higher (e.g., 100-120 Hz). If they are larger, set it lower (e.g., 80 Hz). If your receiver has its own crossover settings, it is generally recommended to use the receiver's crossover and

set the subwoofer's low-pass filter to its maximum setting (160 Hz) or bypass it if an LFE input is used.

5.3 Phase Toggle Switch

The phase toggle switch (0°/180°) helps to ensure that the subwoofer's output is in phase with your main speakers. Listen to music with strong bass and flip the switch between 0° and 180°. Choose the setting that provides the most impactful and cohesive bass response. This adjustment helps prevent bass cancellation or muddy sound.

6. MAINTENANCE

To ensure the longevity and optimal performance of your PSW10 subwoofer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the cabinet. Avoid using harsh chemicals, cleaning sprays, or abrasive materials, as they may damage the finish.
- **Grille Care:** The detachable grille can be gently removed for cleaning. Use a soft brush or vacuum cleaner with a brush attachment to remove dust.
- **Placement Environment:** Keep the subwoofer away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the unit.
- **Power Cord:** Regularly inspect the power cord for any signs of damage. If damaged, discontinue use and contact Polk Audio support.

7. TROUBLESHOOTING

If you encounter issues with your PSW10 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	Power not connected or unit off; Incorrect input selection on receiver; Loose audio cables; Subwoofer volume too low.	Check power connection and 3-way power switch (ON/AUTO); Ensure receiver's subwoofer output is enabled; Re-seat all audio cables; Increase subwoofer volume.
Weak or Muffled Bass	Incorrect crossover setting; Phase mismatch; Subwoofer placement; Low-quality audio source.	Adjust low-pass filter; Toggle phase switch (0°/180°); Experiment with subwoofer placement; Use high-quality audio sources.
Distorted Sound	Volume too high; Overdriven input signal; Damaged driver.	Reduce subwoofer volume; Check receiver's output level; If distortion persists at low volumes, contact support.

Problem	Possible Cause	Solution
Subwoofer does not turn on automatically (in AUTO mode)	Input signal too low; Auto-on threshold not met.	Increase receiver's subwoofer output level; Try setting the power switch to 'ON' for continuous operation.
Product does not work in certain regions (e.g., UAE)	Voltage incompatibility (e.g., 110-120V unit used in 220-240V region).	Ensure the product's voltage requirements match your region's power supply. Use a compatible voltage converter if necessary, or purchase the correct regional model.

8. SPECIFICATIONS

Feature	Specification
Model Name	PSW10
Model Number	AM1055-C
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Speaker Maximum Output Power	100 Watts (Dynamic) / 50 Watts (RMS)
Frequency Response	40-160 Hz (-3dB) / Up to 250 Hz (overall)
Low-Pass Crossover	Continuously variable 80-160 Hz
Impedance	8 Ohm
Connectivity Technology	Wired
Product Dimensions (D x W x H)	17"D x 14.25"W x 14.5"H
Item Weight	26 pounds (11.8 Kilograms)
Color	Black
Power Source	AC
UPC	781005301018, 747192118211

9. WARRANTY AND SUPPORT

The Polk Audio PSW10 subwoofer comes with a Limited Warranty. Please refer to the included online registration card for details on how to register your product and for specific warranty terms and conditions. For further assistance, technical support, or warranty claims, please visit the official Polk Audio website or contact their customer service department. You can also refer to the official user manual PDF for additional information: [Polk Audio PSW10 User Manual \(PDF\)](#)