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Polk Audio RM 6900

Polk Audio RM 6900 Speaker System User Manual

Model: RM 6900

Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Polk Audio RM 6900 Speaker System. Please read this manual thoroughly before using your system to ensure optimal performance and longevity.



Figure 1: Overview of the Polk Audio RM 6900 Speaker System components.
The image displays the complete Polk Audio RM 6900 speaker system, featuring two tall, slender front speakers, two smaller satellite speakers, a horizontal center channel speaker, and a compact subwoofer. All components are finished in a sleek, uniform color.

Setup and Installation

Proper setup is crucial for achieving the best sound quality from your RM 6900 system. Follow these steps carefully.

1. Unpacking

- Carefully remove all components from the packaging.
- Verify that all listed components are present: two front speakers, two surround speakers, one center channel speaker, and one subwoofer.
- Retain packaging for future transport or storage.

2. Speaker Placement

Optimal speaker placement enhances the listening experience.

- **Front Speakers:** Place the front left and right speakers equidistant from your primary listening position, forming an

equilateral triangle with the listener.

- **Center Channel Speaker:** Position the center channel speaker directly above or below your television, centered horizontally.
- **Surround Speakers:** Place the surround speakers to the sides or slightly behind the listening position, at ear level or slightly above.
- **Subwoofer:** The subwoofer can be placed in a corner or along a wall for best bass response. Experiment with placement to find the ideal spot for your room.

3. Wiring Connections

Ensure all connections are secure and correct polarity is maintained.

1. Connect the speaker wires from your amplifier/receiver to the corresponding terminals on each speaker. Match positive (+) to positive and negative (-) to negative.
2. For the subwoofer, connect the LFE (Low Frequency Effects) output from your receiver to the LFE input on the subwoofer using an RCA cable. If your receiver does not have an LFE output, use the stereo RCA outputs.
3. Plug the subwoofer's power cord into a wall outlet.

Operating Instructions

Once your system is set up, follow these guidelines for operation.

1. Initial Power On

- Ensure all connections are secure before powering on your receiver and subwoofer.
- Turn on your audio/video receiver first, then the subwoofer.

2. Receiver Configuration

Access your receiver's speaker setup menu to configure the system.

- Set all satellite speakers (front, center, surround) to "Small" or "Crossover" mode.
- Set the subwoofer to "On" or "Yes".
- Adjust the crossover frequency for the satellite speakers, typically between 80Hz and 120Hz, depending on your receiver's capabilities and room acoustics.
- Use your receiver's auto-calibration feature (if available) for precise level and delay settings.

3. Subwoofer Controls

The subwoofer has its own controls for fine-tuning.

- **Volume/Level:** Adjust to blend seamlessly with the satellite speakers. Avoid setting it too high, which can result in boomy bass.
- **Crossover:** If your receiver manages the crossover, set the subwoofer's crossover knob to its highest setting (LFE mode). If your receiver does not have LFE management, adjust this knob to match the crossover frequency set on your receiver.
- **Phase:** Experiment with the 0°/180° phase switch to achieve the most impactful and coherent bass response.

Maintenance and Care

Regular care will help maintain the appearance and performance of your speaker system.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker cabinets. Avoid abrasive cleaners or solvents.

- **Grilles:** The speaker grilles can be gently removed for cleaning if necessary. Use a soft brush or vacuum with a brush attachment to remove dust.
- **Placement:** Avoid placing speakers in direct sunlight or near heat sources, which can damage the cabinet finish and speaker components.
- **Ventilation:** Ensure the subwoofer has adequate ventilation, especially around its amplifier plate, to prevent overheating.

Troubleshooting

If you encounter issues with your Polk Audio RM 6900 system, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound from speakers	Loose speaker wires; incorrect input selection on receiver; receiver not powered on.	Check all speaker wire connections; ensure correct input is selected on receiver; verify receiver is powered on.
No bass from subwoofer	Subwoofer not powered on; LFE cable loose; subwoofer volume too low; receiver subwoofer setting incorrect.	Check subwoofer power and power cord; ensure LFE cable is secure; increase subwoofer volume; check receiver's subwoofer settings (set to "On" or "Yes").
Distorted sound	Volume too high; damaged speaker wire; incorrect impedance setting on receiver.	Reduce volume; inspect speaker wires for damage; check receiver's impedance settings (refer to receiver manual).
Sound only from some speakers	Incorrect speaker configuration on receiver; loose wire to specific speaker.	Verify speaker settings in receiver menu (e.g., 5.1, 7.1); check connections for the silent speaker.

Specifications

Key technical specifications for the Polk Audio RM 6900 Speaker System.

- **System Type:** 5.1 Home Theater Speaker System
- **Frequency Response:** (Typical range, varies by component)
- **Recommended Amplifier Power:** (Range, e.g., 20-100 watts per channel)
- **Impedance:** (e.g., 8 Ohms compatible)
- **Subwoofer Driver:** (e.g., 8-inch long-throw dynamic balance driver)
- **Satellite/Center Drivers:** (e.g., 3.25-inch mid-range, 0.75-inch tweeter)
- **Dimensions (HxWxD):** (Approximate, for each component type)
- **Weight:** (Approximate, for each component type)

Note: Specific detailed specifications are typically found in the product's original packaging or on the manufacturer's official website. The above are general examples for a system of this type.

Warranty and Support

Polk Audio products are designed for reliability and performance. For warranty information and technical support, please refer to the following resources.

- **Warranty Information:** Your Polk Audio RM 6900 Speaker System is covered by a limited warranty. Please refer to the warranty card included with your product or visit the official Polk Audio website for full terms and conditions.

- **Technical Support:** For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Polk Audio customer support. Contact details can be found on the official Polk Audio website.
- Visit Polk Audio Support Website

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