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**RCF 745-A**

# RCF ART 745-A MK5 Powered Speaker User Manual

Model: ART 745-A MK5

## 1. Introduction

Thank you for choosing the RCF ART 745-A MK5 Powered Speaker. This professional active loudspeaker is designed to deliver high-quality audio performance for various live sound applications. This manual provides essential information for the safe and efficient operation of your speaker, including setup, operation, maintenance, and troubleshooting.
Please read this manual thoroughly before operating the device and keep it for future reference.

## 2. Safety Information

**WARNING:** To prevent fire or electric shock, do not expose this appliance to rain or moisture. Do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

- **Power Source:** Connect the unit only to an AC power outlet of the type specified on the unit's rear panel.
- **Grounding:** Ensure the power cord is properly grounded to prevent electric shock.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the speaker.
- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Water and Moisture:** Do not use this apparatus near water. Do not expose it to dripping or splashing.
- **Cleaning:** Clean only with a dry cloth.
- **Cables:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Mounting:** If mounting on a pole or stand, ensure the stand is stable and rated for the speaker's weight (51.3 pounds).
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when setting volume levels.

## 3. Package Contents

Please check that all items are present in the package:

- RCF ART 745-A MK5 Powered Speaker
- Power Cable
- Speaker Cable *(Note: Typically, powered speakers use XLR cables for signal input, not a speaker cable for connecting to an amplifier. Please verify contents.)*
- User Manual (this document)

# 4. Product Features

The RCF ART 745-A MK5 is equipped with advanced features for superior audio performance:

- **High Power Output:** 1,400W 2-way active speaker system.
- **Premium Transducers:** Features a 15-inch woofer and a 4-inch neodymium compression driver with Kapton diaphragms for clear and powerful sound.
- **XBoost Low-frequency Enhancer:** Provides a deeper and richer bass response at lower volumes.
- **FiRPHASE Technology:** Advanced FIR filtering ensures a coherent sound distribution without phase distortions, resulting in a linear frequency response.
- **Robust Construction:** Durable enclosure designed for demanding live sound environments.

# 5. Setup

## 5.1 Unpacking and Placement

Carefully remove the speaker from its packaging. Place the speaker on a stable, flat surface, or mount it on a compatible speaker stand or pole. Ensure the mounting surface or stand can safely support the speaker's weight (approximately 51.3 lbs / 23.3 kg).






**Figure 1:** Front view of the RCF ART 745-A MK5 Powered Speaker, showing the protective grille and RCF logo.

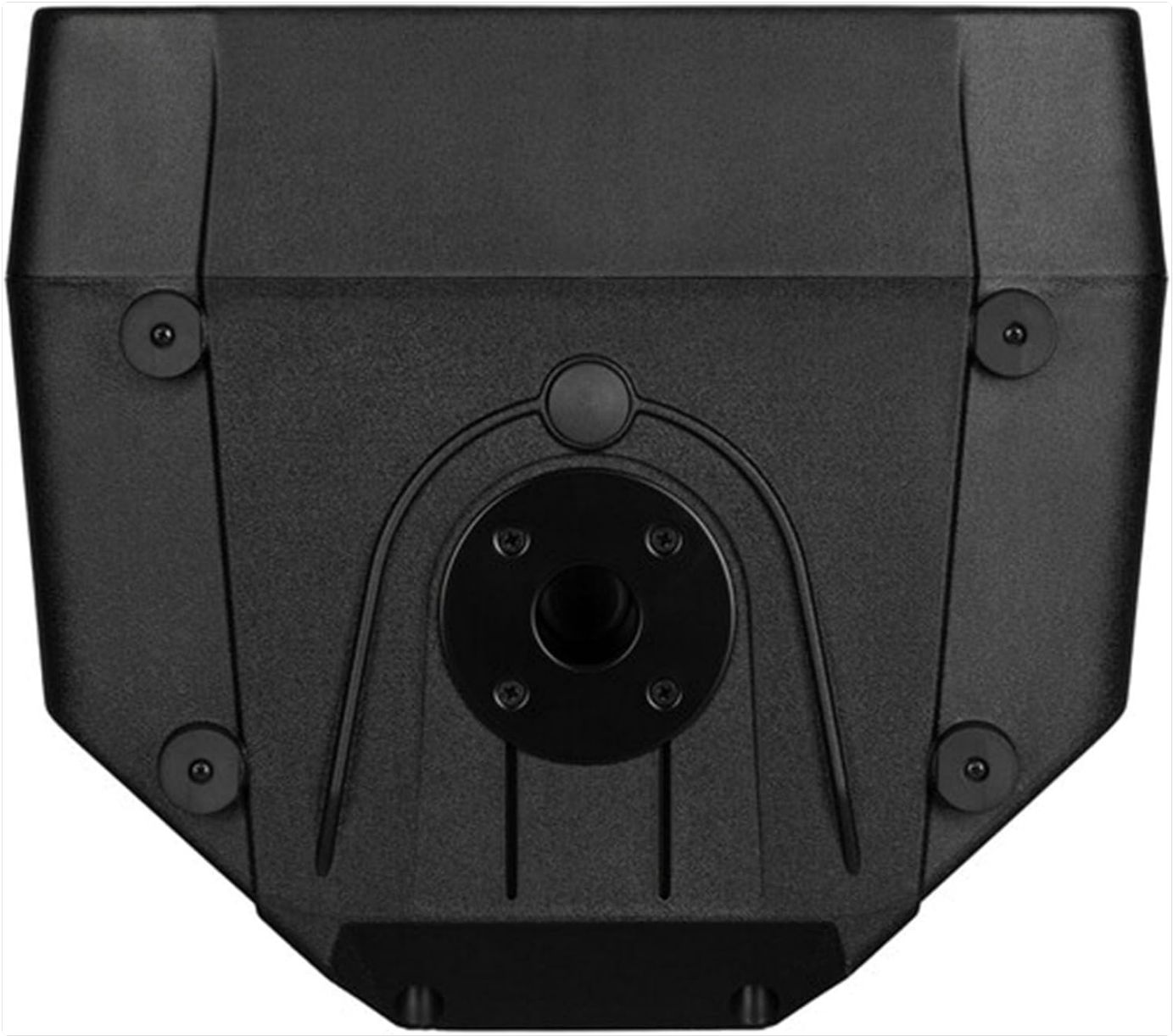


**Figure 2:** Bottom view of the RCF ART 745-A MK5 Powered Speaker, featuring the standard pole mount socket for stand placement.

## 5.2 Power Connection

1. Ensure the speaker's power switch is in the OFF position.
2. Connect the supplied power cable to the AC inlet on the rear panel of the speaker.
3. Plug the other end of the power cable into a suitable grounded AC power outlet.

## 5.3 Audio Connection

Connect your audio source (mixer, audio interface, etc.) to the input connectors on the rear panel of the speaker. Use high-quality balanced XLR cables for optimal performance and noise rejection.






**Figure 3:** Rear panel of the RCF ART 745-A MK5 Powered Speaker, displaying the input/output section, volume control, and power

connections.

# 6. Operating Instructions

## 6.1 Powering On/Off

1. Before powering on, ensure the master volume control on the speaker (and your audio source) is set to its minimum position.
2. Flip the power switch on the rear panel to the ON position. The power indicator LED will illuminate.
3. Gradually increase the volume on your audio source, then slowly adjust the master volume control on the speaker to the desired listening level.
4. To power off, first reduce the volume on the speaker and your audio source, then flip the power switch to the OFF position.

## 6.2 Volume Control

The main volume knob on the rear panel controls the overall output level of the speaker. Adjust it to achieve the desired loudness without causing distortion. If the "SIGNAL/LIMIT" LED flashes red frequently, reduce the input level from your source or the speaker's volume to prevent clipping and potential damage.

## 6.3 XBoost Function

The XBoost feature enhances the low-frequency response, providing a fuller bass sound, especially at lower listening levels. This can be activated or deactivated via a switch on the rear panel. Experiment with this setting to find the best sound for your application and environment.

## 6.4 FiRPHASE Technology

The ART 745-A MK5 utilizes RCF's proprietary FiRPHASE technology, which optimizes the speaker's phase response. This results in a more accurate and coherent sound image across the frequency spectrum, requiring no user adjustment.

# 7. Controls and Connections

Refer to Figure 3 for the layout of the rear panel. Key components include:

- **BALANCED INPUT/LINK:** XLR input for connecting audio sources (e.g., mixer, microphone). The LINK output allows you to send the input signal to another speaker.
- **VOLUME:** Rotary knob to adjust the overall output level of the speaker.
- **SIGNAL/LIMIT LED:**
  - Green: Indicates signal presence.
  - Red: Indicates the limiter is active (signal is too high, causing clipping). Reduce input or volume.
- **INPUT SENSITIVITY SWITCH:** Adjusts the input sensitivity for different source levels (e.g., Mic/Line).
- **XBOOST SWITCH:** Activates or deactivates the low-frequency enhancement feature.
- **AC INLET:** Connection for the main power cable.
- **POWER SWITCH:** Turns the speaker ON or OFF.

# 8. Maintenance

### 8.1 Cleaning

To clean the speaker, use a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents, as they may damage the finish. Ensure the speaker is unplugged from the power outlet before cleaning.

### 8.2 Storage

When not in use for extended periods, store the speaker in a dry, dust-free environment. It is recommended to use the original packaging or a protective cover to prevent dust accumulation and physical damage.

## 9. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No sound | • No power<br>• Volume too low<br>• Input cable disconnected or faulty<br>• Audio source not sending signal | • Check power cable and outlet. Ensure power switch is ON.<br>• Increase speaker volume and source volume.<br>• Check input cable connections; try a different cable.<br>• Verify audio source is active and sending signal. |
| Distorted sound | • Volume too high (clipping)<br>• Faulty input cable<br>• Input signal too hot | • Reduce speaker volume or input level from source. Check SIGNAL/LIMIT LED.<br>• Try a different input cable.<br>• Adjust input sensitivity switch if available, or reduce output from source. |
| Hum or noise | • Ground loop<br>• Poor cable shielding<br>• Interference from other electronics | • Ensure all equipment is on the same electrical circuit or use a ground loop isolator.<br>• Use high-quality shielded cables.<br>• Move speaker or cables away from power supplies, dimmers, or other noisy devices. |

If the problem persists after trying these solutions, please contact RCF customer support or a qualified service technician.

## 10. Specifications

| | |
|---|---|
| **Model** | RCF ART 745-A MK5 |
| **Speaker Type** | 2-Way Active Speaker |
| **Power Output** | 1400 Watts Peak |
| **Woofer Diameter** | 15 inches |
| **Compression Driver** | 4-inch Neodymium, Kapton Diaphragm |
| **Connectivity Technology** | Wi-Fi *(Note: This may refer to control capabilities or specific system integration.)* |
| **Audio Output Mode** | Stereo *(Note: A single speaker provides mono output, but can be part of a stereo system.)* |

| | |
|---|---|
| **Mounting Type** | Floor Mount |
| **Enclosure Material** | Metal |
| **Control Method** | Push Button (and Rotary Knob) |
| **Number of Audio Channels** | 2 *(Internal processing, but output is mono for a single speaker)* |
| **Power Source** | Corded Electric |
| **Item Weight** | 51.3 pounds (approx. 23.3 kg) |
| **Compatible Devices** | Audio Interface, Mixer, Professional Audio Equipment |

## 11. Warranty and Support

RCF products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official RCF website.

For technical support, service, or parts, please contact your authorized RCF dealer or visit the RCF official website for contact information:

**RCF Official Website:** www.rcf.it

Please have your product model and serial number ready when contacting support.

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