Mackie DRM315

Mackie DRM315 Powered Loudspeaker Instruction Manual

Model: DRM315

1. Introduction

The Mackie DRM315 is a 2300W 15-inch 3-way professional powered loudspeaker designed for demanding audio applications. It features an ultra-efficient Class-D amplifier, advanced Impulse DSP for acoustic correction, and a user-friendly DRM Control Dashboard for easy configuration.

Key Features:

- High-efficiency 2300W Class-D amplifier for ample headroom.
- Universal power supply (100-240 VAC) with power factor correction.
- Advanced Impulse DSP for unmatched clarity via FIR filters and time alignment.
- DRM Control Dashboard with a color display for single-knob access to configuration and EQ.
- Equipped with a 15" High-excursion woofer, 6" Mid-range, and a 1.4" Titanium compression driver with rotatable horn assembly.

2. Setup

2.1 Package Contents

Before beginning setup, ensure all components are present:

- Mackie DRM315 Powered Loudspeaker
- Power Cord
- Quick Start Guide

2.2 Physical Placement

The DRM315 loudspeaker offers versatile placement options, including pole mounting and flying. Ensure stable placement on a flat surface or a compatible speaker stand.

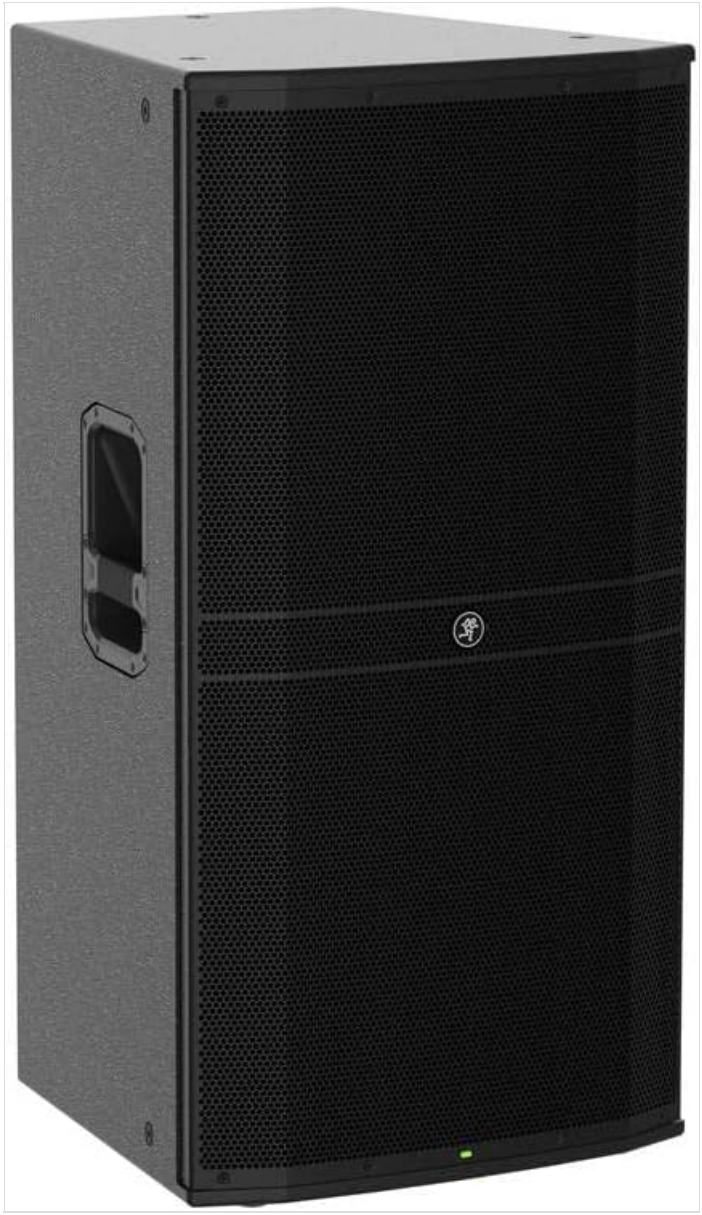


Figure 2.2.1: Angled front view of the Mackie DRM315 Powered Loudspeaker.

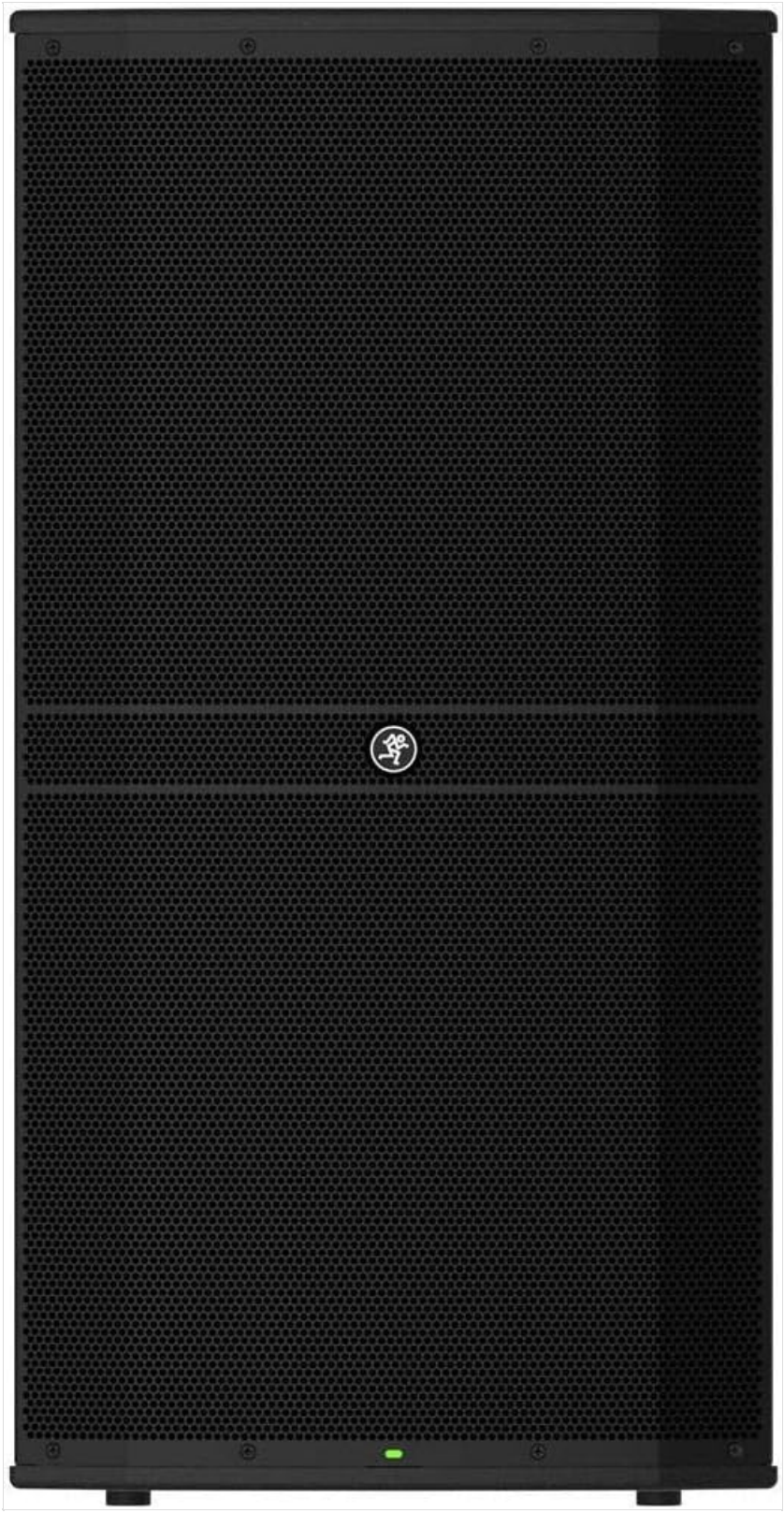


Figure 2.2.2: Direct front view of the Mackie DRM315, showcasing the grille and speaker configuration.



Figure 2.2.3: The DRM315 loudspeaker positioned on a standard speaker stand, demonstrating pole-mount capability.



Figure 2.2.4: The DRM315 loudspeaker suspended using its integrated M10 fly points, suitable for permanent installations.

2.3 Connections

Connect the loudspeaker to your audio source and power supply.

1. **Power Connection:** Connect the included power cord to the AC inlet on the rear panel of the loudspeaker and then to a suitable power outlet (100-240 VAC).
2. **Audio Input:** Use XLR cables to connect your audio source (mixer, audio interface, etc.) to the XLR input connectors on the rear panel. The DRM315 supports XLR connectivity.
3. **Audio Output (Link):** If linking multiple loudspeakers, use an XLR cable to connect the XLR output of the first

speaker to the input of the next.



Figure 2.3.1: Detailed view of the DRM315 rear panel, highlighting the input/output connections and the DRM Control Dashboard.

3. Operating

3.1 Powering On/Off

Locate the power switch on the rear panel. Flip the switch to the 'ON' position to power on the loudspeaker. The power

LED on the front will illuminate. To power off, flip the switch to the 'OFF' position.

3.2 DRM Control Dashboard

The DRM Control Dashboard features a high-contrast, full-color display and a single-knob interface for intuitive control over various settings.

- **Navigation:** Rotate the knob to scroll through menu options. Press the knob to select an option or confirm a setting.
- **EQ Settings:** Access and adjust the loudspeaker's equalization (EQ) to tailor the sound to your environment.
- **Voicing Modes:** Select from various pre-programmed voicing modes optimized for different applications (e.g., Live, Club, Monitor).
- **System Configuration:** Configure input sensitivity, delay, and other system parameters.

3.3 Audio Level Adjustment

Adjust the input gain on the DRM Control Dashboard to achieve optimal signal levels without clipping. Monitor the input meters on the display to prevent distortion.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DRM315 loudspeaker.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the loudspeaker. Do not use abrasive cleaners, waxes, or solvents.
- **Storage:** When not in use, store the loudspeaker in a dry environment, away from extreme temperatures and direct sunlight.
- **Inspection:** Periodically inspect cables and connectors for any signs of wear or damage.
- **Ventilation:** Ensure adequate airflow around the rear panel to prevent overheating of the amplifier. Do not block ventilation openings.

5. Troubleshooting

This section provides solutions to common issues you might encounter.

5.1 No Sound Output

- **Check Power:** Ensure the loudspeaker is powered on and the power cord is securely connected to both the speaker and the power outlet.
- **Check Signal Source:** Verify that your audio source (mixer, instrument) is sending a signal and its output levels are adequate.
- **Check Cables:** Ensure all XLR cables are properly connected and are not damaged. Try swapping cables to rule out a faulty cable.
- **Input Gain:** Confirm the input gain on the DRM Control Dashboard is set appropriately and not at minimum.

5.2 Distorted Sound

- **Input Level:** Reduce the input gain on the loudspeaker or the output level from your audio source. Overdriving the

input can cause distortion.

- **EQ Settings:** Check the EQ settings on the DRM Control Dashboard. Extreme EQ boosts can lead to distortion.
- **Speaker Placement:** Ensure the speaker is not placed in a way that causes excessive bass buildup or reflections, which can sound distorted.

5.3 Loudspeaker Overheating

- **Ventilation:** Ensure the rear panel and ventilation openings are not obstructed. Provide adequate space around the speaker for airflow.
- **Ambient Temperature:** Operate the speaker within recommended ambient temperature ranges.
- **Excessive Use:** If operating at very high volumes for extended periods, allow the speaker to cool down.

6. Specifications

Detailed technical specifications for the Mackie DRM315 Powered Loudspeaker.

Feature	Specification
Model Name	DRM315
Speaker Type	3-Way Powered Loudspeaker
Woofer Diameter	15 Inches
Mid-range Driver	6 Inches
Tweeter Diameter	1.4 Inches (Titanium Compression Driver)
Speaker Amplification Type	Active (Class-D)
Speaker Maximum Output Power	2300 Watts
Frequency Response	20 KHz (Upper limit, full range not specified)
Connectivity Technology	XLR
Audio Output Mode	Mono
Control Method	Touch (DRM Control Dashboard)
Product Dimensions (D x W x H)	18.8" x 19" x 36.5"
Item Weight	70 Pounds
Mounting Type	Dashboard Mount (Control), M10 Flypoints, Dual Angle Pole Mounts
Power Source	Corded Electric (100-240 VAC)
UPC	663961056204

7. Warranty and Support

7.1 Warranty Information

The Mackie DRM315 Loudspeaker comes with a Limited Warranty. For specific terms and conditions, please refer to the Quick Start Guide included with your product or visit the official Mackie website. Warranty details can vary by region and retailer.

7.2 Customer Support

For technical assistance, product registration, or further inquiries, please visit the official Mackie website or contact their customer support directly. The Quick Start Guide also contains essential contact information.

Official Mackie Website: www.mackie.com

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Question

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

Details

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

Submit question