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> [DD Audio RL-M 6.5" Midrange 4-Ohm Speakers User Manual](#)

## DD Audio RL-M

# DD Audio RL-M 6.5" Midrange 4-Ohm Speakers User Manual

Model: RL-M

## 1. INTRODUCTION

Thank you for choosing DD Audio RL-M 6.5" Midrange Speakers. These speakers are designed to deliver clear and powerful midrange audio performance for your vehicle's sound system. They feature a compact design for easy installation and are engineered for optimal performance with both factory and aftermarket amplification. This manual provides essential information for proper installation, operation, and maintenance of your speakers.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Disconnect Power:** Always disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Wiring:** Ensure all wiring is correctly routed and secured to prevent pinching, chafing, or shorting. Use appropriate gauge wire for connections.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.
- **Ventilation:** Ensure adequate ventilation around amplifiers and other audio components to prevent overheating.
- **Environmental Conditions:** Avoid exposing speakers to excessive moisture, direct sunlight, or extreme temperatures.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation.

- 2 x DD Audio RL-M 6.5" Midrange Speakers
- 2 x Speaker Grills



*Image 3.1: The DD Audio Redline Series product box. This box contains the two 6.5-inch midrange speakers and their accompanying grills.*

## **4. SETUP AND INSTALLATION**

The DD Audio RL-M speakers are designed with compact motors and shallow frames, facilitating drop-in installation in many stock locations.

### **4.1 Mounting Location**

Identify suitable mounting locations in your vehicle, typically door panels or rear deck, that can accommodate 6.5-inch speakers. Ensure there is sufficient depth for the speaker (Mounting Depth: 2.3 inches / 58.5 mm) and adequate clearance for the speaker diameter (Mounting Diameter: 5.6 inches / 143 mm).



*Image 4.1: Two DD Audio RL-M 6.5-inch midrange speakers shown without their protective grills, revealing the cone and surround.*

## 4.2 Wiring Connections

1. **Identify Terminals:** Locate the positive (+) and negative (-) terminals on the back of each speaker.
2. **Connect Speaker Wire:** Connect the positive output from your amplifier or head unit to the speaker's positive terminal, and the negative output to the speaker's negative terminal. Ensure correct polarity for optimal sound reproduction.
3. **Secure Connections:** Use appropriate connectors and ensure all connections are tight and free from corrosion.
4. **Impedance Matching:** These speakers have a 4-Ohm impedance. Ensure your amplifier is stable at a 4-Ohm load.



*Image 4.2: A comparison view showing one DD Audio RL-M speaker with its protective grill installed and another speaker without the grill, highlighting the different appearances.*

### **4.3 Grill Installation**

Once the speakers are mounted and wired, you can install the included grills for protection and a finished appearance. Align the grill with the speaker's mounting holes and secure it using the provided hardware (if applicable, or snap into place).



*Image 4.3: Two DD Audio RL-M 6.5-inch midrange speakers with their protective grills securely installed, ready for use.*

## 5. OPERATING YOUR SPEAKERS

After successful installation, you can begin using your DD Audio RL-M speakers.

- **Initial Power-Up:** Reconnect the vehicle's battery. Turn on your head unit and amplifier.
- **Volume Adjustment:** Start with the volume at a low level and gradually increase it to a comfortable listening level.
- **Break-in Period:** Allow a break-in period of several hours of normal listening to allow the speaker components to loosen and perform optimally.
- **Crossover Settings:** If using an external amplifier with crossover settings, ensure the speakers are receiving an appropriate frequency range for midrange reproduction (e.g., high-pass filter set around 80-100 Hz, low-pass filter around 3-5 kHz, depending on system design).

## 6. MAINTENANCE

Proper care will ensure the longevity and performance of your speakers.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker cones and grills. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect speaker surrounds and cones for any signs of damage or wear.
- **Environmental Protection:** Protect speakers from direct exposure to water, extreme heat, or cold, which can degrade materials over time.

## 7. TROUBLESHOOTING

If you encounter issues with your speakers, refer to the following common troubleshooting steps.

## 7.1 No Sound from Speakers

- **Check Wiring:** Ensure all speaker wires are securely connected to both the speaker terminals and the amplifier/head unit, and that polarity is correct.
- **Amplifier/Head Unit:** Verify that your amplifier is powered on and functioning correctly. Check head unit settings (e.g., fader, balance, mute).
- **Fuses:** Inspect fuses on your amplifier and head unit.

## 7.2 Distorted Sound

- **Volume Level:** Reduce the volume. Distortion often occurs when the amplifier or speakers are overdriven.
- **Gain Settings:** Check the gain settings on your amplifier. If set too high, it can cause distortion.
- **Crossover Settings:** Incorrect crossover settings can send frequencies outside the speaker's optimal range, leading to distortion. Adjust as needed.
- **Loose Connections:** Ensure all wiring connections are tight.
- **Speaker Damage:** Inspect the speaker cone and surround for any physical damage.

## 7.3 Imbalanced Sound (One Speaker Louder/Softer)

- **Balance/Fader:** Check the balance and fader settings on your head unit.
- **Wiring:** Verify that wiring for both speakers is identical and correctly connected.

## 8. SPECIFICATIONS

Detailed technical specifications for the DD Audio RL-M 6.5" Midrange Speakers.

Feature	Specification
Speaker Size	6.5 Inches
Speaker Type	Midrange
RMS Power Handling	65 - 225 Watts
Impedance	4 Ohm (S4)
Frequency Response	75 - 20,000 Hz
Sensitivity (dBSPL)	88
Voice Coil Diameter (VCD)	25 mm
Mounting Diameter	5.6 Inches (143 mm)
Mounting Depth	2.3 Inches (58.5 mm)
Voice Coil Material	Kapton Former with CCA Wire
Cone Material	Vacuum Formed Polypropylene
Surround Material	Rubber
Frame Material	Stamped Steel
Included Components	2 x Speaker, 2 x Grills
Item Weight	6 Pounds

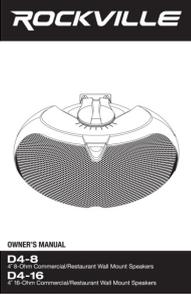
## 9. WARRANTY AND SUPPORT

The DD Audio RL-M speakers come with a **Limited Warranty**. Specific terms and conditions of the warranty are provided at the time of purchase or can be obtained from the manufacturer.

For technical support, warranty claims, or further assistance, please contact DD Audio customer service or refer to their official website. Keep your proof of purchase for warranty validation.

[Visit DD Audio Official Website](#)

### Related Documents - RL-M

 <p>OWNER'S MANUAL D4-8 4" Commercial/Restaurant Wall Mount Speakers D4-16 6" Commercial/Restaurant Wall Mount Speakers</p>	<p><a href="#">Rockville D4-8 and D4-16 Commercial Wall Mount Speakers - Owner's Manual</a></p> <p>Detailed owner's manual for Rockville D4-8 and D4-16 commercial and restaurant wall mount speakers. Includes features, specifications, and step-by-step installation guide for these 4-inch, 8-ohm/16-ohm audio units.</p>
 <p>cerwin vega PROFESSIONAL ULTRA HIGH EFFICIENT MIDRANGE DRIVER 100W RMS 100W PEAK POWER HANDLING Upgraded Aluminum Woofer Cone 2" Outer Coil Aluminum Voice Coil Polypropylene Tinsel Spider/Center Cap Newer Cloth Baffle Grilles High Sensitivity Low Distortion Tweeter</p> <p>OWNERS MANUAL</p>	<p><a href="#">Cerwin Vega Mobile 8" Ultra High Efficient Midrange Driver Owners Manual and Specifications</a></p> <p>This document provides the owners manual and technical specifications for the Cerwin Vega Mobile 8" Ultra High Efficient Midrange Driver. It covers product features, installation guidelines, and detailed performance data.</p>
 <p>Runleader</p>	<p><a href="#">Runleader Produktkatalog: Wartungs- und Timersysteme</a></p> <p>Umfassender Produktkatalog von Runleader, der eine breite Palette von Betriebsstundenzählern, Timern, Batterieanzeigen, Thermometern und Fahrradcomputern für verschiedene Anwendungen wie ATV, Motorräder, Rasenmäher und mehr vorstellt. Enthält detaillierte Spezifikationen, Funktionen und OEM-Optionen.</p>
 <p>VIBE DRIVER AUDIO</p> <p>BLACKAIR 5 TWEETER 50W RMS BLACKAIR 5 MIDRANGE 50W RMS BLACKAIR 5 COAXIAL 50W RMS BLACKAIR 5 WOOFER 50W RMS</p> <p>black air Speaker Group</p>	<p><a href="#">VIBE BlackAir Series Car Speakers: Owners Manual, Installation, and Specifications</a></p> <p>Comprehensive guide to VIBE BlackAir series car speakers, including installation instructions, warranty information, safety warnings, technical specifications, and response curves. Learn how to install and care for your VIBE audio equipment.</p>
 <p>REAL-LITE CARAVANES PORTÉES</p>	<p><a href="#">Caravanes Portées Real-Lite : Modèles, Caractéristiques et Spécifications</a></p> <p>Découvrez la gamme complète de caravanes portées Real-Lite, incluant les séries Soft Side, Hard Side et Hard Side Max. Trouvez les caractéristiques, options, plans d'étage et spécifications pour chaque modèle.</p>

RIELLO

INSTALLAZIONE, MANUTENZIONE E RIPARAZIONE

Light oil burners

Progressive two-stage or modulating operation

CE  
UK  
CA



Model	RL 70/M	RL 100/M	RL 130/M
Power	20 kW	28 kW	38 kW
Max. pressure	2.5 bar	2.5 bar	2.5 bar
Max. flow rate	2.5 l/h	3.5 l/h	4.5 l/h
Max. oil temperature	150 °C	150 °C	150 °C
Max. oil viscosity	100 cSt	100 cSt	100 cSt
Max. oil density	850 kg/m <sup>3</sup>	850 kg/m <sup>3</sup>	850 kg/m <sup>3</sup>
Max. oil pressure	2.5 bar	2.5 bar	2.5 bar
Max. oil flow rate	2.5 l/h	3.5 l/h	4.5 l/h
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### [Riello RL Series Light Oil Burner Installation and Maintenance Manual](#)

Official installation, operation, and maintenance manual for Riello RL 70/M, RL 100/M, and RL 130/M light oil burners. Features progressive two-stage/modulating operation, technical specifications, safety guidelines, and troubleshooting.