

DENON DL-103REM

Denon DL-103REM Moving Coil Cartridge Instruction Manual

Model: DL-103REM

1. INTRODUCTION

The Denon DL-103REM is a high-performance moving coil phono cartridge designed for audiophiles seeking superior vinyl playback. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal sound quality and longevity of your cartridge and records.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- One (1) Denon DL-103REM Moving Coil Cartridge



Figure 2.1: Denon DL-103REM Moving Coil Cartridge in its packaging.

3. SETUP

Proper installation is crucial for optimal performance and to prevent damage to the cartridge or your records.

3.1 Compatibility

The DL-103REM is a Moving Coil (MC) cartridge. It requires an MC Phono Pre-Amplifier or an amplifier with a compatible MC phono input. Ensure your audio system supports MC cartridges for proper operation.

3.2 Mounting the Cartridge

1. Carefully attach the cartridge to your tonearm's headshell using the provided screws and nuts. Ensure the cartridge is securely fastened but do not overtighten.
2. Connect the four color-coded wires from the tonearm to the corresponding pins on the back of the cartridge. Refer to your tonearm's manual for specific wiring instructions.
3. Align the cartridge using a protractor to ensure the stylus tracks the record grooves correctly. Incorrect alignment can lead to distorted sound and increased record wear.



Figure 3.1: Front view of the DL-103REM cartridge.



Figure 3.2: Bottom view of the DL-103REM cartridge with connection pins.

3.3 Setting Tracking Force

The recommended tracking force for the DL-103REM is between **2.3 and 2.7 grams**. Using a non-magnetic stylus force gauge, adjust your tonearm to achieve this range. Incorrect tracking force can cause premature stylus wear, record damage, or poor sound quality.

3.4 Anti-Skate Adjustment

Adjust the anti-skate mechanism on your tonearm according to its manufacturer's instructions, typically matching the tracking force setting. This helps prevent the stylus from favoring one side of the record groove.

3.5 Impedance Matching

The DL-103REM has an impedance of 14 ohms. For optimal sound quality, ensure your MC phono pre-amplifier is set to a compatible impedance loading. Consult your pre-amplifier's manual for available settings.

4. OPERATING INSTRUCTIONS

Once installed and properly adjusted, operating the DL-103REM is straightforward.

1. Ensure your turntable is level and stable.
2. Place a clean vinyl record on the platter.
3. Gently lower the tonearm, allowing the stylus to settle into the record's lead-in groove. Avoid dropping the tonearm, as this can damage the stylus or record.
4. Adjust the volume on your amplifier to a comfortable listening level. The cartridge has an output voltage of 0.25mV, which is typical for MC cartridges and requires appropriate gain from your phono pre-amplifier.
5. At the end of the record, gently lift the tonearm and return it to its rest.

The DL-103REM offers a wide frequency response from 20 Hz to 45,000 Hz, providing detailed and vibrant sound reproduction across the entire audio spectrum.

5. MAINTENANCE

Regular maintenance helps preserve the life of your cartridge and records.

5.1 Stylus Cleaning

Clean the stylus regularly to remove dust and debris. Use a soft stylus brush, brushing gently from back to front (in the direction of play). Do not use excessive force or brush from side to side, as this can damage the cantilever or stylus.

5.2 Cartridge Body Cleaning

Wipe the cartridge body with a soft, dry, lint-free cloth. Avoid using liquid cleaners near the stylus or cantilever.

5.3 Storage

When not in use, ensure the tonearm is secured in its rest. If storing the cartridge for an extended period, place the stylus guard back on and store it in its original protective packaging.

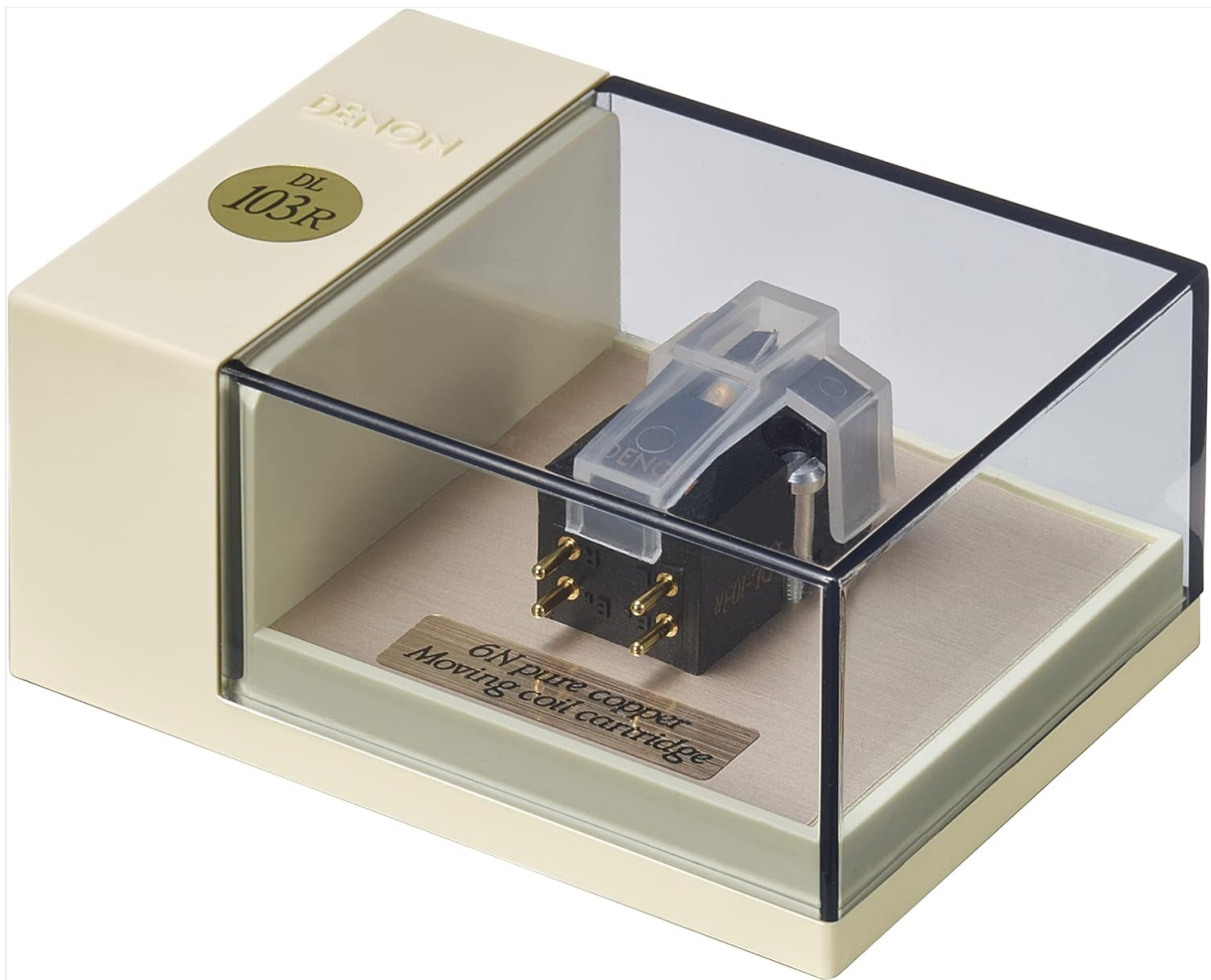


Figure 5.1: DL-103REM cartridge in its protective display case.

6. TROUBLESHOOTING

If you experience issues with your DL-103REM cartridge, consult the following table:

Problem	Possible Cause	Solution
No sound or very low sound	Incorrect phono input selected; Loose connections; Incorrect pre-amp settings	Ensure MC phono input is selected. Check all wiring connections. Verify MC pre-amp gain and impedance settings.
Distorted or muddy sound	Incorrect tracking force; Improper cartridge alignment; Dirty stylus; Worn stylus	Adjust tracking force to recommended range. Re-align cartridge. Clean stylus. If stylus is worn, consider replacement.
Skipping or jumping	Incorrect tracking force; Insufficient anti-skate; Damaged record; Dirty stylus	Verify tracking force. Adjust anti-skate. Clean record. Clean stylus.
Humming or buzzing noise	Grounding issue; Proximity to electrical interference	Ensure turntable and amplifier are properly grounded. Move components away from power supplies or other electronics.

If problems persist after attempting these solutions, contact Denon customer support or a qualified audio technician.

7. SPECIFICATIONS

Key technical specifications for the Denon DL-103REM Moving Coil Cartridge:

Feature	Specification
Brand	DENON
Model	DL-103REM
Product Dimensions	2.68 x 1.5 x 1.5 cm
Product Weight	20 g
Compatible Devices	MC Phono Pre-Amp
Components Included	Cartridge de bobina (Moving Coil Cartridge)
Output Voltage	0.25 mV
Impedance	14 ohms
Frequency Response	20 Hz to 45,000 Hz
Recommended Tracking Force	2.3 - 2.7 g
Material	Plastic

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Denon website. Keep your proof of purchase for warranty claims.