

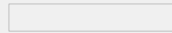


Manuals.plus /

› Nagaoka /

› Nagaoka MP-100 Record Cartridge Instruction Manual

Nagaoka MP100



Nagaoka MP-100 Record Cartridge Instruction Manual

Model: MP-100

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Nagaoka MP-100 Record Cartridge. The MP-100 is designed to deliver high-quality audio reproduction from your vinyl records. Please read these instructions carefully before use to ensure optimal performance and longevity of your cartridge.



Image: The Nagaoka MP-100 Record Cartridge, featuring its red housing and stylus.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 Nagaoka MP-100 Phonograph Cartridge
- 1 Stylus (pre-installed or separate)

SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and to prevent damage to your records or cartridge. If you are unsure about any step, consult a qualified technician.

1. Mounting the Cartridge

1. Carefully attach the cartridge to your turntable'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.

Typically:

- **Red:** Right channel hot (R+)
- **Green:** Right channel ground (RG)
- **White/Blue:** Left channel hot (L+)
- **Blue/Black:** Left channel ground (LG)

2. Cartridge Alignment

Accurate alignment minimizes tracking error and distortion. Use a cartridge alignment protractor (often included with your turntable or available separately) to set the correct overhang and offset angle.

1. Position the stylus tip on the designated points of the protractor.
2. Adjust the cartridge position within the headshell until the cantilever is parallel to the grid lines at both alignment points.

3. Setting Tracking Force

The recommended tracking force for the Nagaoka MP-100 is **1.3 to 2.4 grams**. Use a stylus force gauge for precise adjustment.

1. Balance your tonearm to a neutral position (zero grams).
2. Set the tracking force dial on your tonearm to the desired value within the recommended range. Starting with 1.8 grams is often a good initial setting.

4. Setting Anti-Skate

Adjust the anti-skate mechanism on your tonearm to match the tracking force setting. This helps prevent the stylus from being pulled towards the center of the record.



Image: Technical diagram showing the dimensions of the Nagaoka MP-100 cartridge in millimeters.

OPERATING INSTRUCTIONS

Once installed and properly adjusted, operating your Nagaoka MP-100 cartridge is straightforward.

1. Ensure your turntable is level and clean.
2. Place a clean record on the platter.
3. Gently lift the tonearm using the cueing lever.
4. Position the stylus over the lead-in groove of the record.
5. Slowly lower the cueing lever to allow the stylus to descend onto the record.
6. At the end of the record, lift the tonearm using the cueing lever and return it to its rest.

MAINTENANCE AND CARE

Regular maintenance ensures optimal performance and extends the life of your cartridge and records.

Stylus Cleaning

Dust and debris can accumulate on the stylus, degrading sound quality. Clean the stylus regularly:

- Use a soft stylus brush, brushing gently from back to front (never side-to-side or front-to-back).
- For stubborn dirt, use a specialized stylus cleaning fluid sparingly.

Record Cleaning

Clean your records before each play to prevent dust transfer to the stylus.

Stylus Replacement

The stylus is a consumable part and will wear out over time, typically after 500-1000 hours of play. A worn stylus can damage your records. Replace the stylus when you notice a decrease in sound quality or increased distortion.



Image: Close-up view of the Nagaoka MP-100 stylus, which is replaceable.

TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound or weak sound from one channel	Incorrect wiring, damaged wire, dirty contacts	Check cartridge wiring connections. Clean contacts.
Distorted sound	Incorrect tracking force, worn stylus, improper alignment, dirty stylus/record	Adjust tracking force. Inspect/replace stylus. Re-align cartridge. Clean stylus/record.
Skipping or mistracking	Incorrect tracking force, anti-skate setting, damaged stylus, warped record	Adjust tracking force and anti-skate. Inspect/replace stylus. Use flat records.
Humming or buzzing noise	Grounding issue, interference, faulty cables	Ensure turntable is properly grounded. Check cable connections. Move away from electronic devices.

SPECIFICATIONS

Key technical specifications for the Nagaoka MP-100 Record Cartridge:

- **Model:** MP-100
- **Output Voltage:** 5mV (50mm/sec / 5 cm/sec)
- **Frequency Response:** 20Hz - 20kHz
- **Channel Separation:** 22dB (1kHz)
- **Channel Balance:** Less than 2dB
- **Impedance:** 47K ohms
- **Tracking Force:** 1.3 - 2.4g
- **Stylus Type:** SuperFine polished conical diamond bonded stylus
- **Magnet Type:** Powerful samarium cobalt magnet
- **Item Weight:** 2.11 ounces
- **Package Dimensions:** 2.72 x 2.32 x 1.89 inches

- **Compatible Devices:** NAGAOKA turntables and other compatible phonographs

WARRANTY INFORMATION

Nagaoka products are manufactured to high standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Nagaoka website. Keep your proof of purchase for warranty claims.

SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Nagaoka MP-100 Record Cartridge, please contact Nagaoka customer service through their official website or authorized distributors. Always provide your product model number (MP-100) when seeking support.