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› MAG M27BS Moving Magnet Cartridge and Diamond Stylus User Manual for Omnitronic Turntables

MAG M27BS

MAG M27BS Moving Magnet Cartridge and Diamond Stylus User Manual

Compatible with Omnitronic BD1320, DD4220, DRT1000, DD4750 Turntables

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your MAG M27BS Moving Magnet Cartridge with Diamond Stylus. Designed for high-fidelity audio reproduction, this cartridge is compatible with various Omnitronic turntable models, including BD1320, DD4220, DRT1000, and DD4750. Please read these instructions carefully to ensure optimal performance and longevity of your product.

2. PACKAGE CONTENTS

- MAG M27BS Moving Magnet Cartridge with Diamond Stylus
- Mounting hardware (screws)

Please verify that all components are present and undamaged upon unpacking.



Figure 2.1: The MAG M27BS cartridge and included mounting screws. The cartridge features a red body and a clear stylus guard.

3. SETUP AND INSTALLATION

Proper installation is crucial for achieving the best sound quality. If you are unsure about any step, it is recommended to seek assistance from a qualified technician.

3.1 Mounting the Cartridge

1. Carefully remove the old cartridge from your turntable's headshell, if applicable.
2. Align the MAG M27BS cartridge with the mounting holes on your headshell.
3. Using the provided screws, gently secure the cartridge to the headshell. Do not overtighten, as this can damage the cartridge body. Ensure the cartridge is parallel to the headshell.





Figure 3.1: Side view of the MAG M27BS cartridge, illustrating the stylus assembly and mounting points.

3.2 Wiring Connections

Connect the four color-coded wires from the tonearm to the corresponding pins on the back of the cartridge. Refer to the standard color code:

- **Red (R):** Right channel signal
- **Green (RG):** Right channel ground
- **White (L):** Left channel signal
- **Blue (LG):** Left channel ground

Ensure connections are firm and free from short circuits. Gently push the connectors onto the cartridge pins.



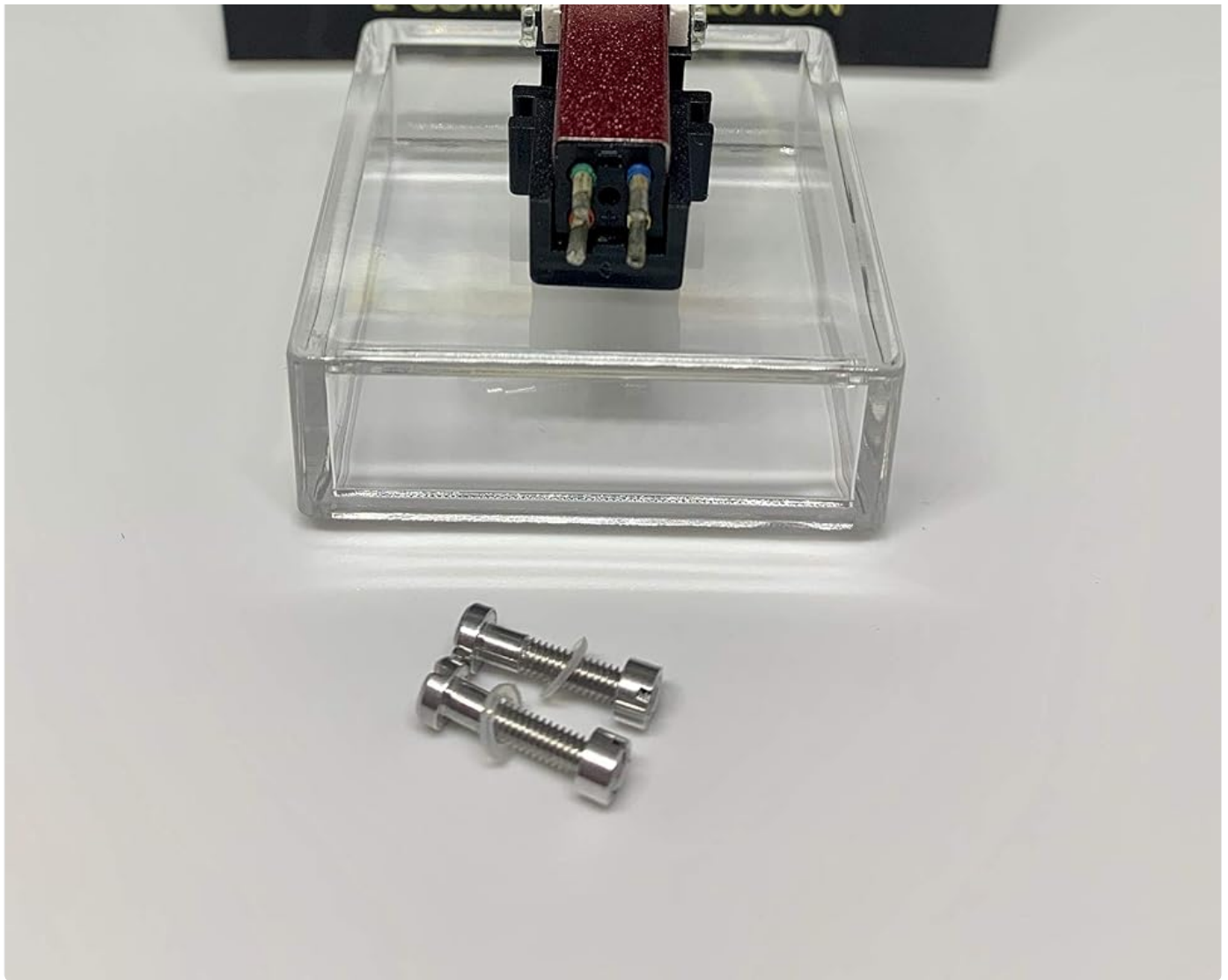


Figure 3.2: Rear view of the MAG M27BS cartridge, highlighting the four connection pins for tonearm wiring.

3.3 Tracking Force Adjustment

The recommended tracking force for the MAG M27BS cartridge is **3.0 grams**, with a permissible range of 2.5 to 3.5 grams. Adjust your turntable's tonearm counterweight to achieve this setting. Incorrect tracking force can lead to premature stylus wear, record damage, or poor sound quality.

3.4 Alignment (Azimuth and Overhang)

For optimal stereo separation and minimal distortion, ensure the cartridge is correctly aligned within the headshell. This involves adjusting the azimuth (vertical angle of the stylus) and overhang (distance from the tonearm pivot to the stylus tip). Consult your turntable's manual or an alignment protractor for precise adjustments.

4. OPERATING INSTRUCTIONS

Once installed and aligned, the MAG M27BS cartridge operates like any standard moving magnet cartridge. Ensure your turntable is properly grounded to minimize hum. Always lower the tonearm gently onto the record's lead-in groove to prevent stylus damage.

5. MAINTENANCE

5.1 Stylus Cleaning

Dust and debris can accumulate on the stylus tip, degrading sound quality and potentially damaging your records. Clean the stylus regularly using a soft brush designed for stylus cleaning, brushing gently from back to front (the direction of play). Never use solvents or harsh chemicals.

5.2 General Care

- Always use the stylus guard when the turntable is not in use or during transport.
- Avoid touching the stylus tip with your fingers.
- Store records properly to minimize dust accumulation.
- Replace the stylus when signs of wear become apparent (e.g., distorted sound, increased surface noise). A worn stylus can cause irreversible damage to your records.

6. TROUBLESHOOTING

If you experience issues with your cartridge, consider the following common troubleshooting steps:

- **No Sound or Weak Sound:** Check all wiring connections between the cartridge, tonearm, and amplifier. Ensure the amplifier input is set to 'Phono'.
- **Distorted Sound:** Verify the tracking force is set correctly (3.0g). Check for a dirty or worn stylus. Ensure the cartridge is properly aligned.
- **Humming Noise:** Ensure the turntable and amplifier are properly grounded. Check for loose wiring connections. Keep audio cables away from power cables.
- **Skipping:** Re-check tracking force. Ensure the record is clean and flat. Verify anti-skate setting on your tonearm.

If problems persist after performing these checks, contact customer support or a qualified audio technician.

7. SPECIFICATIONS

Type	Moving Magnetic Cartridge
Model	M27BS
Stylus Tip	Stereo Spherical Diamond Tip
Output Voltage (at 1kHz, 5 cm/sec)	5.5 mV ± 3dB
Channel Balance (at 1kHz)	Below 1 dB
Channel Separation (at 1kHz)	More than 15 dB
Frequency Response	20 ~ 20,000 Hz
Tracking Force	3.0g (2.5 ~ 3.5g)

8. WARRANTY AND SUPPORT

The MAG M27BS cartridge comes with a **6-month warranty** against manufacturing defects. Additionally, a **14-day 'any reason' return policy** is offered from the date of purchase. For warranty claims, technical assistance, or fitting advice, please contact your retailer or MAG customer support.

For further assistance, please visit the [MAG Store](#).

