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MagLite M27BS

Instruction Manual

MAGLITE M27BS MOVING MAGNET CARTRIDGE WITH DIAMOND STYLUS

Compatible with Garrard DD400, GT25, DD130, SP25, GT20, GT35P Turntables

1. Introduction

Thank you for choosing the MagLite M27BS Moving Magnet Cartridge. This high-quality cartridge is designed to deliver superb sound reproduction for your turntable. Featuring a durable diamond stylus, it offers excellent sound quality and strong tracking ability, making it an ideal replacement or upgrade for compatible Garrard models.

2. Important Safety Information

Please read all instructions carefully before installation and use. Keep this manual for future reference.

- Handle the cartridge and stylus with care to avoid damage. The stylus tip is delicate.
- Always turn off and unplug your turntable before installing or removing the cartridge.
- Keep out of reach of children.
- Do not expose the cartridge to extreme temperatures or direct sunlight.

3. Package Contents

Verify that all items are present in your package:

- 1 x MagLite M27BS Moving Magnet Cartridge with Diamond Stylus
- 2 x Mounting Screws (as shown in images)



Image 1: The MagLite M27BS cartridge with its included mounting screws, displayed on a clear stand against a branded background.

4. Setup and Installation

Installing the M27BS cartridge requires careful handling. If you are unsure, please consult a professional or contact us for fitting advice.

1. **Preparation:** Ensure your turntable is powered off and unplugged. Carefully remove your old cartridge, if applicable, noting the wiring connections.
2. **Mounting the Cartridge:**



Image 2: Front view of the MagLite M27BS cartridge, showing the stylus and mounting points.

Position the M27BS cartridge onto the headshell of your turntable's tonearm. Align the mounting holes on the cartridge with those on the headshell. Use the provided screws to gently secure the cartridge. Do not overtighten.

3. Wiring Connections:



Image 3: Rear view of the MagLite M27BS cartridge, highlighting the four connection pins for wiring.

Connect the tonearm wires to the corresponding pins on the back of the cartridge. Standard color coding is usually:

- Red (R+): Right channel positive
- Green (R-): Right channel ground
- White (L+): Left channel positive

- Blue (L-): Left channel ground

Ensure connections are firm but do not force them.

4. **Tracking Force Adjustment:** The recommended tracking force for the M27BS is 3.0g, with a range of 2.5g to 3.5g. Adjust your tonearm's counterweight to achieve this setting for optimal performance and stylus longevity. Refer to your turntable's manual for specific instructions on adjusting tracking force.
5. **Alignment:** Proper cartridge alignment (overhang and azimuth) is crucial for accurate sound reproduction and to minimize record wear. Use an alignment protractor if available, or follow your turntable's specific alignment instructions.

5. Operating Instructions

Once installed and properly adjusted, the MagLite M27BS cartridge operates like any standard moving magnet cartridge.

- Ensure your turntable is connected to a phono preamplifier (or an amplifier with a built-in phono stage) that supports moving magnet (MM) cartridges.
- Gently lower the tonearm onto the record's lead-in groove using the cueing lever.
- Avoid dropping the tonearm onto the record, as this can damage the stylus or record.
- When finished, use the cueing lever to lift the tonearm and return it to its rest.

6. Maintenance and Care

Proper maintenance will extend the life of your cartridge and stylus, and ensure optimal sound quality.

- **Stylus Cleaning:** Regularly clean the stylus tip using a soft brush designed for stylus cleaning, brushing gently from back to front. Do not use excessive force or solvents.
- **Record Cleaning:** Keep your records clean. Dust and debris on records can accumulate on the stylus and degrade sound quality.
- **Stylus Inspection:** Periodically inspect the stylus for wear or damage. A worn stylus can damage your records and produce poor sound. Replace the stylus if it appears bent, chipped, or excessively worn.
- **Storage:** When not in use, ensure the tonearm is secured in its rest and, if available, use the stylus guard to protect the tip.

7. Troubleshooting

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

Problem	Possible Cause	Solution
No sound or very low sound	Incorrect wiring; Phono input not selected; Amplifier volume too low; Damaged stylus.	Check all wiring connections; Ensure correct input is selected on your amplifier; Increase volume; Inspect stylus for damage.

Problem	Possible Cause	Solution
Distorted sound or skipping	Incorrect tracking force; Improper alignment; Dirty stylus; Worn stylus; Dirty record.	Adjust tracking force to 3.0g; Re-align cartridge; Clean stylus; Replace stylus if worn; Clean record.
Humming or buzzing noise	Grounding issue; Loose connections; Interference.	Ensure turntable is properly grounded to your amplifier; Check all cable connections; Move turntable away from other electronic devices.

If problems persist, please contact customer support.

8. Specifications

Feature	Detail
Type	Moving Magnet Cartridge
Stylus Tip	Stereo Spherical Diamond Tip
Output Voltage (at 1kHz, 5 cm/sec)	5.5 mV \pm 3dB
Channel Balance (at 1kHz)	Below 1 dB
Channel Separation (at 1kHz)	More than 15 dB
Frequency Response	20 ~ 20k Hz
Tracking Force	3.0g (Recommended range: 2.5 ~ 3.5g)
Compatibility	Garrard DD-400, GT-25, DD-130, SP-25, GT-20, GT-35P

9. Warranty and Support

The MagLite M27BS cartridge comes with a **6-month warranty** from the date of purchase, covering manufacturing defects. Additionally, we offer a **14-day "any reason" return policy**.

For technical assistance, fitting advice, or warranty claims, please contact your retailer or visit the official MagLite website for support information. Please have your purchase receipt and product model number (M27BS) ready when contacting support.

This manual is subject to change without notice.