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## MagLite M27BS

# Instruction Manual

## M27BS MOVING MAGNET CARTRIDGE WITH DIAMOND STYLUS

For ROTEL RP3000, RP5300, RM5010 Turntables

Brand: MagLite

### 1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your new M27BS Moving Magnet Cartridge with Diamond Stylus. Designed for high-fidelity audio reproduction, this cartridge is compatible with various turntables, including ROTEL models RP3000, RP5300, and RM5010. Please read this manual carefully before installation to ensure optimal performance and longevity of your product.

### 2. Product Overview

The M27BS is a top-quality moving magnet phono cartridge featuring a precision diamond stylus. It is engineered to deliver superb sound quality with excellent channel separation and tracking ability, making it an ideal upgrade or replacement for your turntable. The cartridge is designed for easy installation and robust performance.



Figure 2.1: Front view of the M27BS Moving Magnet Cartridge with its diamond stylus, shown with mounting screws.

### 3. Package Contents

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Please verify that all items are present in your package:

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

### 4. Setup and Installation

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Installing a phono cartridge requires careful handling. If you are unsure about any step, it is recommended to seek professional assistance.

1. **Preparation:** Ensure your turntable is powered off and unplugged. Carefully remove your old cartridge if one is present.
2. **Wiring Connections:** Connect the four color-coded wires from your tonearm to the corresponding pins on the M27BS cartridge. Ensure a firm, secure connection.
  - Red (R+): Right Channel Positive
  - Green (R-): Right Channel Ground
  - White (L+): Left Channel Positive
  - Blue (L-): Left Channel Ground



Figure 4.1: Rear view of the M27BS cartridge, illustrating the four connection pins for tonearm wiring.

3. **Mounting:** Using the provided screws, carefully mount the cartridge to your tonearm's headshell. Do not overtighten. Ensure the cartridge is aligned correctly within the headshell slots.
4. **Tracking Force Adjustment:** Set the tracking force to the recommended value of **3.0g**. The acceptable range is

2.5g to 3.5g. Refer to your turntable's manual for instructions on how to adjust tracking force.

- 5. **Anti-Skate Adjustment:** Adjust the anti-skate setting on your turntable to match the tracking force.
- 6. **Stylus Protection:** Always keep the stylus guard on when not in use or during installation to prevent accidental damage.

## 5. Operation

Once installed and properly adjusted, your M27BS cartridge is ready for use. Follow these guidelines for optimal performance:

- **Record Placement:** Always place records gently on the platter.
- **Tonearm Handling:** Use the tonearm lift mechanism to raise and lower the tonearm. Avoid dropping the stylus onto the record.
- **Stylus Care:** Never touch the stylus tip with your fingers.
- **Storage:** When not in use, ensure the stylus guard is in place and the tonearm is secured in its rest.

## 6. Maintenance

Regular maintenance will prolong the life of your cartridge and stylus, ensuring consistent sound quality.

- **Stylus Cleaning:** Gently clean the stylus tip regularly using a soft brush designed for stylus cleaning, brushing from back to front. Do not use harsh chemicals.
- **Record Cleaning:** Keep your records clean to prevent dust and debris from accumulating on the stylus.
- **Cartridge Body:** Wipe the cartridge body with a soft, dry cloth if needed.
- **Stylus Replacement:** The diamond stylus has a finite lifespan. If sound quality degrades significantly or distortion increases, the stylus may need replacement.

## 7. Troubleshooting

If you encounter issues with your M27BS cartridge, refer to the following common problems and solutions:

| Problem                                               | Possible Cause                                                                  | Solution                                                                                                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound or very low sound from one or both channels. | Loose or incorrect wiring connections.                                          | Check all four tonearm wires are securely connected to the cartridge pins. Ensure correct color-coding.                                                      |
| Distorted or muffled sound.                           | Incorrect tracking force, dirty stylus, damaged stylus, or improper anti-skate. | Verify tracking force is set to 3.0g. Clean the stylus. Inspect stylus for damage. Adjust anti-skate.                                                        |
| Skipping or jumping.                                  | Tracking force too low, dirty stylus, warped record, or turntable not level.    | Increase tracking force slightly (within 2.5-3.5g range). Clean stylus. Ensure turntable is on a stable, level surface.                                      |
| Humming or buzzing noise.                             | Grounding issue, interference, or loose connections.                            | Ensure turntable is properly grounded to your amplifier/receiver. Check all audio cable connections. Move away from electronic devices causing interference. |

## 8. Specifications

Detailed technical specifications for the M27BS Moving Magnet Cartridge:

- **Type:** Moving Magnetic Cartridge
- **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 Hz ~ 20 kHz
- **Tracking Force:** 3.0g (Recommended range: 2.5g ~ 3.5g)
- **Installation:** Easy to install

## 9. Warranty and Support

Your M27BS Moving Magnet Cartridge is backed by a commitment to quality.

- **Warranty:** This product comes with a 6-month warranty from the date of purchase, covering manufacturing defects.
- **Returns:** A 14-day "any reason" return policy is offered from the date of delivery. Please refer to your purchase documentation for specific return instructions.
- **Technical Support:** If you require further assistance or have questions not covered in this manual, please contact your retailer or the manufacturer's support channel.

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