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› Instruction Manual: Cartridge + Diamond stylus for Pioneer PLA35, PL516, PL 88FS, PL61, PL600, X1300 Red

MagLite M27BS

Instruction Manual: Moving Magnet Cartridge with Diamond Stylus

Model: M27BS

Brand: MagLite

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your new MagLite M27BS Moving Magnet Cartridge with Diamond Stylus. Designed for superior sound reproduction, this cartridge is compatible with a range of Pioneer turntables, offering excellent sound quality and strong tracking ability.

2. PRODUCT FEATURES

- High-quality Moving Magnet (MM) cartridge.
- Durable Diamond Stylus Tip for precise tracking.
- Designed for easy installation.
- Delivers superb sound quality and clarity.
- Strong tracking ability ensures stable playback.

3. COMPATIBILITY

The M27BS cartridge is specifically designed to fit the following Pioneer turntable models:

- Pioneer PL A35
- Pioneer PL 516
- Pioneer PL88FS
- Pioneer PL 61
- Pioneer PL 600
- Pioneer X 1300

4. SETUP AND INSTALLATION

Installing the M27BS cartridge is straightforward. Please follow these steps carefully to ensure proper function and optimal

sound performance.

1. **Preparation:** Before beginning, ensure your turntable is powered off and unplugged. Gently remove the existing cartridge from the tonearm's headshell, if applicable.
2. **Wiring:** Carefully connect the four color-coded wires from the tonearm to the corresponding pins on the back of the M27BS cartridge. The standard color code is:
 - Red: Right Channel Hot (R+)
 - Green: Right Channel Ground (RG-)
 - White: Left Channel Hot (L+)
 - Blue: Left Channel Ground (LG-)

Ensure connections are firm but do not apply excessive force.

3. **Mounting:** Attach the M27BS cartridge to the headshell using the provided screws. Align the cartridge so it is parallel with the headshell. The package includes two screws for secure mounting.
4. **Alignment:** Proper cartridge alignment is crucial for sound quality and record preservation. While this cartridge is designed for easy installation, fine-tuning may be required. Refer to your turntable's manual for specific alignment procedures (e.g., using a protractor).
5. **Tracking Force Adjustment:** Set the tracking force on your tonearm to 3.0 grams. The recommended range is 2.5 to 3.5 grams. An accurate tracking force gauge is recommended for precise adjustment.
6. **Anti-Skate Adjustment:** Adjust your turntable's anti-skate setting to match the tracking force. This helps prevent the stylus from skipping and ensures even wear.



Figure 4.1: The MagLite M27BS cartridge, showcasing its red body, clear stylus guard, and included mounting screws. This image provides

a clear view of the product as it appears out of the box, ready for installation.



Figure 4.2: Side profile of the MagLite M27BS cartridge, highlighting its compact design and the position of the stylus assembly. This view is helpful for understanding the cartridge's dimensions and how it sits on a headshell.





Figure 4.3: Front view of the MagLite M27BS cartridge, showing the diamond stylus tip and the clear protective guard. This perspective is important for verifying the stylus type and ensuring the guard is properly positioned when not in use.

5. OPERATING INSTRUCTIONS

Once installed and properly aligned, operating the M27BS cartridge is part of your standard turntable usage. Always handle your turntable and records with care.

- **Record Placement:** Place your vinyl record gently on the turntable platter.
- **Cueing:** Use the tonearm lift (cueing lever) to gently lower the stylus onto the record's lead-in groove or desired track. Avoid dropping the tonearm manually, as this can damage the stylus or record.
- **Playback:** Allow the record to play. The M27BS is designed to provide clear and accurate audio reproduction.
- **Stopping Playback:** At the end of a side, or when you wish to stop, use the cueing lever to lift the tonearm from the record. Return the tonearm to its rest.

6. MAINTENANCE

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

- **Stylus Cleaning:** The stylus tip can accumulate dust and debris from records. Gently clean the stylus using a soft brush designed for stylus cleaning, brushing from back to front (away from the cantilever). Do not use excessive force or solvents.
- **Cartridge Body Cleaning:** Wipe the cartridge body with a soft, dry, lint-free cloth to remove dust.
- **Stylus Inspection:** Periodically inspect the stylus tip for wear or damage. A worn stylus can damage your records and degrade sound quality. If the stylus appears bent, chipped, or excessively worn, it should be replaced.
- **Storage:** When not in use, ensure the stylus guard is in place to protect the diamond tip from accidental damage.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound or very low sound from one or both channels.	Incorrect wiring, loose connections, damaged stylus, or incorrect input selection on amplifier.	Check all wiring connections between cartridge and tonearm. Ensure amplifier input is set to "Phono" (MM). Inspect stylus for damage.
Distorted or muffled sound.	Dirty stylus, incorrect tracking force, improper alignment, or worn stylus.	Clean the stylus. Verify tracking force is set to 3.0g. Re-check cartridge alignment. Consider stylus replacement if worn.

Problem	Possible Cause	Solution
Stylus skips or jumps across record.	Insufficient tracking force, incorrect anti-skate, damaged stylus, or warped record.	Increase tracking force slightly within the recommended range (2.5-3.5g). Adjust anti-skate. Inspect stylus for damage. Ensure record is flat.

If problems persist after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Parameter	Value
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 ~ 20k Hz
Tracking Force	3.0g (recommended range: 2.5 ~ 3.5g)

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This MagLite M27BS cartridge comes with a **6-month warranty** from the date of purchase. Additionally, a **14-day "any reason" return policy** is offered. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

Should you require further assistance with installation, operation, or troubleshooting, please do not hesitate to contact our customer support team. We are available to provide fitting advice and resolve any issues you may encounter. For support, please visit our website or contact us via the details provided with your purchase.

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