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> MAG M27BS Moving Magnet Cartridge and Diamond Stylus User Manual

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MAG M27BS Moving Magnet Cartridge and Diamond Stylus User Manual

Model: M27BS | Brand: MAG

INTRODUCTION

Thank you for choosing the MAG M27BS Moving Magnet Cartridge with Diamond Stylus. This manual provides essential information for the proper installation, operation, and maintenance of your new cartridge. Please read these instructions carefully to ensure optimal performance and longevity of your product.

PRODUCT OVERVIEW

The MAG M27BS is a high-quality moving magnet cartridge designed to deliver excellent sound reproduction. It features a durable diamond stylus tip for precise tracking and clear audio. This cartridge is compatible with various Pioneer turntable models, including PL 112D, PL 12D, PL 117D, PL 15R, PL 514, and PL 50.



Les Entreprises MAG

E-COMMERCE



Figure 1: MAG M27BS Moving Magnet Cartridge with stylus protector installed. The cartridge features a blue and white body, designed for easy handling and protection of the diamond stylus.



Figure 2: Rear view of the MAG M27BS cartridge, showing the four connection pins for audio signal and ground. These pins are color-

SETUP AND INSTALLATION

Installing the M27BS cartridge is a straightforward process, but requires careful handling to avoid damage to the stylus or cartridge body. If you require assistance, please contact the seller for fitting advice.

1. **Preparation:** Ensure your turntable is powered off and unplugged. Carefully remove any existing cartridge from the tonearm headshell.
2. **Wiring:** Connect the four color-coded wires from your tonearm to the corresponding pins on the back of the M27BS cartridge. Typically:
 - Red: Right Channel Signal
 - Green: Right Channel Ground
 - White: Left Channel Signal
 - Blue: Left Channel Ground

Ensure connections are firm but do not apply excessive force.

3. **Mounting:** Secure the cartridge to the headshell using the provided screws. Do not overtighten. Ensure the cartridge is aligned correctly within the headshell slots.
4. **Tracking Force Adjustment:** Set the tracking force on your tonearm to 3.0 grams. The acceptable range is 2.5 to 3.5 grams. Refer to your turntable's manual for specific instructions on adjusting tracking force and anti-skate.
5. **Alignment:** For optimal sound quality and to minimize record wear, proper cartridge alignment (overhang and azimuth) is crucial. Use a protractor if available, or follow your turntable's specific alignment instructions.

OPERATING INSTRUCTIONS

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

- **Stylus Protection:** Always use the stylus protector when the turntable is not in use or when handling the tonearm to prevent accidental damage to the delicate diamond tip.
- **Gentle Handling:** Lower the tonearm gently onto the record using the cueing lever. Avoid dropping the tonearm or dragging the stylus across the record surface.
- **Clean Records:** Ensure your records are clean and free of dust and debris before playback. A dirty record can degrade sound quality and accelerate stylus wear.

MAINTENANCE

Regular maintenance will help preserve the sound quality and extend the life of your cartridge and stylus.

- **Stylus Cleaning:** Gently clean the stylus tip regularly using a soft stylus brush, moving from back to front (never side-to-side or front-to-back). Use a dedicated stylus cleaning fluid sparingly if necessary.
- **Cartridge Body:** Keep the cartridge body free of dust. Use a soft, dry cloth to wipe it clean.
- **Stylus Replacement:** The diamond stylus will wear down over time. Replace the stylus when you notice a degradation in sound quality or after approximately 500-1000 hours of playback, depending on record condition and tracking force.

TROUBLESHOOTING

If you encounter issues with your M27BS cartridge, consider the following common troubleshooting steps:

- **No Sound or Weak Sound:**
 - Check all wiring connections between the cartridge, tonearm, and amplifier/phono preamp. Ensure they are secure and correctly matched (Left/Right, Signal/Ground).
 - Verify that your amplifier is set to the correct input (Phono).
- **Distorted Sound or Skipping:**
 - Re-check the tracking force. Ensure it is set to 3.0g (within 2.5-3.5g).
 - Verify the anti-skate setting on your tonearm.
 - Inspect the stylus tip for dirt or damage. Clean if necessary.
 - Ensure the cartridge is properly aligned in the headshell.
 - Check if the record itself is clean and free of scratches or warps.
- **Humming Noise:**
 - Ensure all ground wires are properly connected, including the turntable's ground wire to your amplifier/phono preamp.
 - Check for interference from other electronic devices.

If problems persist, consult a qualified audio technician or contact the seller for further assistance.

SPECIFICATIONS

Type	Moving Magnetic Cartridge with Diamond Stylus Needle
Model	M27BS
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 (Recommended range: 2.5 ~ 3.5g)
Stylus Tip	Stereo Spherical Diamond Tip
Compatibility	Pioneer PL 112D, PL 12D, PL 117D, PL 15R, PL 514, PL 50

WARRANTY AND SUPPORT

This product comes with a 6-month warranty from the date of purchase. Additionally, a 14-day "any reason" return policy is offered. For any questions regarding installation, operation, or troubleshooting, please contact the seller directly for assistance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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