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

MAG M27BS

MAG M27BS Moving Magnet Cartridge and Diamond Stylus User Manual

For Garrard Turntable Models: DD75, GT25P, GT250, GT35, DD131, DD132

1. INTRODUCTION

This manual provides essential information 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 Garrard turntable models, including DD75, GT25P, GT250, GT35, DD131, and DD132. Please read these instructions carefully to ensure optimal performance and longevity of your product.



Figure 1: The MAG M27BS Moving Magnet Cartridge with Diamond Stylus, shown with mounting screws and a protective cover, against a background featuring the MAG brand logo.

2. SETUP AND INSTALLATION

Installing the MAG M27BS cartridge is a straightforward process. Follow these steps to correctly mount the cartridge onto your turntable's tonearm.

- 1. Preparation:** Ensure your turntable is powered off and unplugged. Carefully remove the old cartridge, if

present, noting the wiring connections.

2. **Wiring Connections:** Connect the four color-coded wires from your tonearm to the corresponding pins on the back of the MAG M27BS cartridge.
 - Red: Right Channel (R+)
 - Green: Right Channel Ground (RG-)
 - White: Left Channel (L+)
 - Blue: Left Channel Ground (LG-)

Ensure connections are firm but do not apply excessive force.

3. **Mounting:** Using the provided screws, carefully attach the cartridge to the headshell of your tonearm. Do not overtighten the screws.
4. **Alignment:** Proper cartridge alignment is crucial for optimal sound and to prevent record wear. Refer to your turntable's specific alignment protractor or instructions for precise overhang and azimuth adjustments.
5. **Tracking Force Adjustment:** Set the tracking force on your tonearm to **3.0 grams**. The acceptable range is 2.5 to 3.5 grams. Use a stylus force gauge for accurate measurement if available.
6. **Anti-Skate Adjustment:** Adjust the anti-skate setting on your tonearm to match the tracking force. This helps balance the stylus in the record groove.



Figure 2: Top-down view of the MAG M27BS cartridge, illustrating the four pin connections for tonearm wiring.

3. OPERATING INSTRUCTIONS

Once installed and aligned, your MAG M27BS cartridge is ready for use. Follow these general guidelines for playing records:

- **Record Placement:** Carefully place your record on the turntable platter.
- **Stylus Protection:** Always remove the stylus guard before playing a record and replace it when the

turntable is not in use.

- **Lowering the Tonearm:** Use the tonearm lift mechanism to gently lower the stylus onto the lead-in groove of the record. Avoid dropping the tonearm manually, as this can damage the stylus or record.
- **Volume Control:** Start with the amplifier volume at its lowest setting and gradually increase it to your desired listening level.
- **Ending Playback:** At the end of a record, use the tonearm lift to raise the stylus, then return the tonearm to its rest.

4. MAINTENANCE

Regular maintenance ensures the best sound quality and extends the life of your cartridge and records.

- **Stylus Cleaning:** Gently clean the stylus tip regularly using a soft stylus brush, brushing from back to front (away from the cantilever). Never brush side-to-side. Specialized stylus cleaning fluids can also be used sparingly.
- **Record Cleaning:** Keep your records clean to prevent dust and debris from accumulating on the stylus.
- **Stylus Inspection:** Periodically inspect the stylus tip for wear or damage using a magnifying glass. A worn stylus can damage your records and degrade sound quality.
- **Cartridge Body:** Keep the cartridge body free from dust. Use a soft, dry cloth.

5. TROUBLESHOOTING

If you encounter issues, review the following common problems and solutions:

- **No Sound or Weak Sound:**
 - Check all wiring connections between the cartridge, tonearm, and amplifier. Ensure they are secure and correctly matched (L+, L-, R+, R-).
 - Verify that the amplifier input is set to "Phono" and not "Line" or "Aux".
 - Confirm the stylus is properly seated and not damaged.
- **Distorted Sound or Skipping:**
 - Re-check the tracking force. It should be set to 3.0 grams.
 - Ensure the anti-skate setting is correctly adjusted.
 - Clean the stylus tip.
 - Inspect the stylus for wear or damage. A worn stylus needs replacement.
 - Check if the record is clean and free of scratches or warps.
 - Verify cartridge alignment.
- **Humming or Buzzing Noise:**
 - Ensure the turntable's ground wire is securely connected to the amplifier's ground terminal.
 - Check for proper shielding of audio cables.
 - Move the turntable away from other electronic devices that might cause interference.

6. SPECIFICATIONS

Feature	Specification
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Feature	Specification
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

7. WARRANTY INFORMATION

This MAG M27BS cartridge is covered by 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.

8. SUPPORT

For further assistance, technical support, or fitting advice, please contact your retailer or the manufacturer directly. Refer to your product packaging or purchase documentation for specific contact details.

Related Documents - M27BS

  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CE	<p><u>Manual del Generador de Gasolina MAG MG3000-MG5500-MG6200E</u> Guía completa para el generador de gasolina MAG (modelos MG3000, MG5500, MG6200E), cubriendo operación, seguridad, mantenimiento y solución de problemas.</p>
 Comitato MAG  MAG Metadati Amministrativi e Gestionali <u>Manuale Utente</u> <small>Versione 2.04 a cura di Elisa Pesci Ultima aggiornamento 1 marzo 2010 ICCU</small>	<p><u>Manuale Utente MAG: Metadati Amministrativi e Gestionali</u> Guida completa al Manuale Utente per lo standard MAG (Metadati Amministrativi e Gestionali), sviluppato dall'ICCU per la gestione dei metadati in archivi digitali di beni culturali. Esplora la struttura dello schema, l'uso di XML e l'interoperabilità con standard internazionali.</p>



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This operating manual provides comprehensive instructions for the IKA C-MAG series of magnetic stirrers and hotplates, covering safety, operation, maintenance, and technical specifications for models like C-MAG HS4, HP4, HS7, HP7, HS10, HP10, MS4, MS7, and MS10.