

MAG M27BS

MAG M27BS Moving Magnet Cartridge with Diamond Stylus Instruction Manual

Compatible with Fisher MT-6225, MT-6210, MT-6220, MT-6130, MT-6320, MT-6335, MT-6340 Turntables

1. INTRODUCTION

Thank you for choosing the MAG M27BS Moving Magnet Cartridge with Diamond Stylus. This high-quality cartridge is designed to deliver excellent sound reproduction for your vinyl records. This manual provides essential instructions for proper installation, operation, and maintenance to ensure optimal performance and longevity of your cartridge.

The M27BS cartridge is specifically designed for compatibility with various Fisher turntable models, including MT-6225, MT-6210, MT-6220, MT-6130, MT-6320, MT-6335, and MT-6340.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and to prevent damage to your records or equipment. Please follow these steps carefully.

2.1 Tools Required (Not Included)

- Small, non-magnetic screwdriver
- Needle-nose pliers or tweezers (for wire connections)
- Cartridge alignment protractor (recommended for precise setup)
- Stylus force gauge (recommended for accurate tracking force setting)

2.2 Installation Steps

1. **Power Off:** Ensure your turntable is completely powered off and unplugged from the mains electricity before beginning installation.
2. **Remove Old Cartridge (if applicable):** Carefully disconnect the four small wires from the pins of the old cartridge. Note the color coding for re-connection. Unscrew the old cartridge from the headshell.
3. **Connect Wires:** Gently connect the four tonearm wires to the corresponding pins on the new MAG M27BS cartridge. The standard color code is:
 - Red: Right Channel Positive (R+)
 - Green: Right Channel Ground (RG-)
 - White: Left Channel Positive (L+)

- Blue: Left Channel Ground (LG-)

Ensure connections are firm but do not apply excessive force to avoid damaging the pins.

4. **Mount Cartridge:** Using the provided screws, carefully attach the MAG M27BS cartridge to your turntable's headshell. Do not tighten the screws completely yet, as you may need to adjust the cartridge position for alignment.
5. **Cartridge Alignment:** This is a critical step for optimal sound and minimal record wear. Use a cartridge alignment protractor (not included) to ensure the stylus is correctly aligned with the record grooves. Adjust the cartridge position in the headshell until the stylus tracks correctly at the inner and outer alignment points. Once aligned, gently tighten the mounting screws.
6. **Set Tracking Force:** The recommended tracking force for the MAG M27BS cartridge is **3.0 grams**, with an acceptable range of 2.5 to 3.5 grams. Use your turntable's counterweight to set the tracking force accurately. A stylus force gauge is highly recommended for precision.
7. **Set Anti-Skate:** Adjust your turntable's anti-skate mechanism to match the tracking force setting. This helps prevent the tonearm from pulling inwards or outwards, ensuring even wear on the stylus and record grooves.



Image 1: The MAG M27BS Moving Magnet Cartridge shown with included mounting screws. This image illustrates the cartridge body and the diamond stylus tip, ready for installation onto a turntable headshell.

3. OPERATING INSTRUCTIONS

Once installed, operating your turntable with the new cartridge is straightforward. Always handle the tonearm and stylus with care.

- **Lowering the Stylus:** Use the tonearm lift mechanism to gently lower the stylus onto the record. Avoid dropping the tonearm manually, as this can damage the stylus or record.
- **Handling Records:** Always handle records by their edges or label to prevent transferring oils and dirt to the playing surface.

- **Playing Condition:** Ensure your records are clean and free of dust before playing to minimize wear on the stylus and improve sound quality.

4. MAINTENANCE

Regular maintenance will extend the life of your cartridge and stylus, ensuring consistent audio performance.

- **Stylus Cleaning:** Use a soft stylus brush, specifically designed for turntable styli, to gently clean the diamond tip. Always brush from back to front (from the pivot point towards the tip) to avoid damaging the cantilever. Clean the stylus before or after each play session.
- **Cartridge Body Cleaning:** Occasionally wipe the cartridge body with a soft, dry, lint-free cloth to remove dust. Avoid using liquid cleaners near the stylus or electrical contacts.
- **Stylus Replacement:** The diamond stylus tip will wear down over time, typically after 500-1000 hours of play, depending on record condition and tracking force. A worn stylus can damage your records and degrade sound quality. Consult your dealer for replacement styli for the M27BS cartridge.

5. TROUBLESHOOTING

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

- **No Sound or Sound from One Channel:**
 - Check all wire connections between the cartridge and headshell, and between the headshell and tonearm. Ensure they are secure and correctly color-coded.
 - Verify that your amplifier/receiver is set to the correct input (Phono).
- **Distorted or Unclear Sound:**
 - Clean the stylus thoroughly. Dust and debris can significantly affect sound quality.
 - Re-check the tracking force. Incorrect tracking force (too light or too heavy) can cause distortion.
 - Verify cartridge alignment using a protractor. Misalignment causes tracking errors and distortion.
 - Inspect the stylus for damage or wear. A worn stylus needs replacement.
- **Skiping or Jumping:**
 - Ensure the tracking force is set correctly within the recommended range (2.5-3.5g, ideally 3.0g).
 - Check the anti-skate setting.
 - Inspect the record for scratches or debris.
 - Ensure the turntable is on a stable, level surface.

6. SPECIFICATIONS

Feature	Specification
Type	Moving Magnetic Cartridge
Model	M27BS
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 ~ 20,000 Hz
Tracking Force	3.0g (Range: 2.5 ~ 3.5g)
Compatibility	Fisher MT-6225, MT-6210, MT-6220, MT-6130, MT-6320, MT-6335, MT-6340




7. WARRANTY AND SUPPORT




The MAG M27BS cartridge comes with a **14-day 'any reason' return policy** from the date of purchase, in addition to a **6-month warranty** covering manufacturing defects.

For technical assistance, warranty claims, or further inquiries, please contact your retailer or the MAG customer support channel through which you purchased this product. Please have your purchase details readily available when contacting support.

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Related Documents - M27BS

 <p>CE</p>	<p>Manual del Generador de Gasolina MAG MG3000-MG5500-MG6200E</p> <p>Guía completa para el generador de gasolina MAG (modelos MG3000, MG5500, MG6200E), cubriendo operación, seguridad, mantenimiento y solución de problemas.</p>
	<p>Manuale Utente MAG: Metadati Amministrativi e Gestionali</p> <p>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>
	<p>MAG CRD75-UHD7 75-inch 4K UD LED TV Technical Specifications</p> <p>Comprehensive technical specifications for the MAG CRD75-UHD7 75-inch 4K UD LED TV, covering display, tuner, smart system, I/O ports, mechanical dimensions, and other features.</p>

	<p>September 2025 Meal Schedule MAG</p> <p>MAG's September 2025 meal schedule, featuring daily meal options with carbohydrate counts and an alternate meal schedule for senior centers. Includes information on suggested donations and contact details.</p>
	<p>MAG F27F100Y 27-inch FHD Monitor Product Overview</p> <p>MAG F27F100Y 27-inch FHD monitor overview, detailing its IPS panel, 100Hz refresh rate, EyesErgo technology with Less Blue Light PRO, and Adaptive-Sync support. Includes full specifications and connectivity options.</p>
	<p>IKA C-MAG Series Operating Manual: Magnetic Stirrers and Hotplates</p> <p>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.</p>