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› **MAG M27BS Moving Magnet Cartridge with Diamond Stylus for Gemini Turntables Instruction Manual**

## MAG M27BS

# MAG M27BS Moving Magnet Cartridge with Diamond Stylus Instruction Manual

For Gemini Turntable Models: XLDD50, TT2000, XLBD10, GL101, XLBD40

## INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your MAG M27BS Moving Magnet Cartridge with Diamond Stylus. Designed for optimal audio performance, this cartridge is compatible with various Gemini turntable models, including XLDD50, TT2000, XLBD10, GL101, and XLBD40. Please read these instructions carefully before proceeding with installation or use.

## PACKAGE CONTENTS

- MAG M27BS Moving Magnet Cartridge with Diamond Stylus
- Mounting Screws (typically two)





Image 1: The MAG M27BS Moving Magnet Cartridge with its diamond stylus and included mounting screws. The cartridge features a gold-colored body and a clear stylus guard.

## SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and to prevent damage to your records and stylus. If you require fitting advice, please contact support.

### Tools Required:

- Small screwdriver (appropriate for cartridge screws)
- Needle-nose pliers or tweezers (optional, for connecting wires)
- Stylus force gauge (recommended for precise tracking force adjustment)

## Installation Steps:

1. **Power Off:** Ensure your turntable is 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 (typically Red, Green, White, Blue). Unscrew the old cartridge from the headshell.
3. **Attach New Cartridge:** Align the MAG M27BS cartridge with the mounting holes on your turntable's headshell. Use the provided mounting screws to secure the cartridge. Do not overtighten; ensure it is snug but allows for minor adjustments.
4. **Connect Wires:** Carefully connect the four color-coded wires from the tonearm to the corresponding pins on the back of the MAG M27BS cartridge.
  - Red: Right Channel Signal (R+)
  - Green: Right Channel Ground (RG-)
  - White: Left Channel Signal (L+)
  - Blue: Left Channel Ground (LG-)

Ensure connections are firm but avoid bending the pins.

5. **Stylus Guard:** Keep the clear stylus guard on during initial handling to protect the diamond tip.
6. **Alignment:** Proper cartridge alignment (overhang and azimuth) is critical for sound quality and record preservation. Refer to your turntable's specific manual for headshell alignment instructions. A protractor tool is often used for this step.
7. **Tracking Force Adjustment:** The recommended tracking force for the MAG M27BS is 3.0g, with a range of 2.5g to 3.5g. Use your turntable's counterweight to set the tracking force. A stylus force gauge is highly recommended for accuracy.
8. **Anti-Skate Adjustment:** Set the anti-skate control on your turntable to match the tracking force. This helps prevent the tonearm from pulling inwards or outwards across the record.





Image 2: Rear view of the MAG M27BS cartridge, illustrating the four pin connections for the audio wires. Each pin is designed for a specific channel signal or ground connection.

## OPERATING INSTRUCTIONS

Once installed and properly adjusted, your MAG M27BS cartridge is ready for use. Always handle your turntable and records with care.

- 1. Remove Stylus Guard:** Gently remove the clear stylus guard before playing a record. Store it in a safe place.
- 2. Place Record:** Place your record on the turntable platter.
- 3. Lower Tonearm:** Use the tonearm lift lever to gently lower the stylus onto the lead-in groove of the record. Avoid dropping the tonearm directly onto the record.
- 4. Playback:** The cartridge will now track the grooves, converting vibrations into electrical signals for your amplifier.
- 5. End of Record:** At the end of the record, use the tonearm lift lever to raise the tonearm and return it to its rest. Replace the stylus guard when finished listening.

## MAINTENANCE

Regular maintenance ensures the longevity of your cartridge and stylus, and preserves sound quality.

- **Stylus Cleaning:** The diamond stylus can accumulate dust and debris, affecting sound quality and potentially damaging records. Use a soft stylus brush, specifically designed for cartridges, to gently brush the stylus from back to front (never side-to-side or front-to-back). Do this before or after each listening session.
- **Record Cleaning:** Clean your records regularly to prevent dust transfer to the stylus.
- **Cartridge Body Cleaning:** Use a soft, dry, lint-free cloth to wipe the body of the cartridge if it becomes dusty. Avoid using liquids near the stylus.
- **Stylus Replacement:** A diamond stylus has a finite lifespan, typically between 500 and 1000 hours of play, depending on care and record condition. A worn stylus can damage records and degrade sound. If you notice distorted sound, skipping, or excessive record wear, it may be time to replace the stylus. Contact MAG support for replacement stylus options.





Image 3: A close-up view of the MAG M27BS cartridge, highlighting the diamond stylus tip protected by a clear guard. This image emphasizes the delicate nature of the stylus.

## TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No Sound or Weak Sound	Incorrect wiring connections; Amplifier/receiver input not selected; Damaged stylus.	Check all wire connections to the cartridge and amplifier. Ensure the correct input (Phono) is selected on your amplifier. Inspect stylus for damage.
Distorted Sound	Incorrect tracking force; Dirty stylus; Worn stylus; Improper alignment.	Verify tracking force is set to 3.0g. Clean the stylus. Consider stylus replacement if worn. Re-check cartridge alignment.
Skipping or Jumping	Incorrect tracking force; Insufficient anti-skate; Dirty record; Damaged record; Turntable not level.	Increase tracking force slightly within the recommended range (up to 3.5g). Adjust anti-skate. Clean the record. Ensure turntable is on a level surface.
Humming or Buzzing Noise	Grounding issue; Interference from other electronics; Loose connections.	Ensure the turntable's ground wire is properly connected to your amplifier. Move turntable away from other electronic devices. Check all audio cable connections.

If problems persist, please contact MAG customer support for further assistance.

## SPECIFICATIONS

Technical specifications for the MAG M27BS Moving Magnet Cartridge:

- **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 ~ 20,000 Hz
- **Tracking Force:** 3.0g (Recommended range: 2.5g ~ 3.5g)
- **Compatibility:** Gemini Turntable Models XLDD50, TT2000, XLBD10, GL101, XLBD40

## WARRANTY AND SUPPORT

Your MAG M27BS cartridge comes with a **6-month warranty** from the date of purchase, covering manufacturing defects. Additionally, a **14-day "any reason" return policy** is offered. For warranty claims, technical assistance, or fitting advice, please contact MAG customer support through your retailer or the official MAG website.

For further assistance, please visit: [My Needle Store Intl \(Seller Support\)](#)

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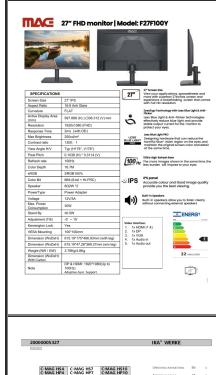
## Related Documents - M27BS

 	<p><a href="#"><u>Manual del Generador de Gasolina MAG MG3000-MG5500-MG6200E</u></a>  Guía completa para el generador de gasolina MAG (modelos MG3000, MG5500, MG6200E), cubriendo operación, seguridad, mantenimiento y solución de problemas.</p>
	<p><a href="#"><u>Manuale Utente MAG: Metadati Amministrativi e Gestionali</u></a>  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><a href="#"><u>MAG CRD75-UHD7 75-inch 4K UD LED TV Technical Specifications</u></a>  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>

September 2025
 

## [September 2025 Meal Schedule | MAG](#)

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.



## [MAG F27F100Y 27-inch FHD Monitor | Product Overview](#)

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.



## [IKA C-MAG Series Operating Manual: Magnetic Stirrers and Hotplates](#)

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.