

MAG M27BS

MAG M27BS Turntable Cartridge and Diamond Stylus Instruction Manual

For Sansui Models: SRB200, SR25, FR2060, SR626, SR323, SR7090

1. 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 before use to ensure optimal performance and longevity of your product.

2. PRODUCT OVERVIEW

The MAG M27BS is a high-quality moving magnet cartridge designed to deliver excellent sound reproduction from your vinyl records. It features an easy-to-install design and a durable stereo spherical diamond tip stylus, ensuring strong tracking ability and clear audio across a wide frequency range. This cartridge is compatible with various Sansui turntable models, including SRB200, SR25, FR2060, SR626, SR323, and SR7090.



Image 1: The MAG M27BS turntable cartridge shown with included mounting screws. This view highlights the red body of the cartridge and the connection pins.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and to prevent damage to your records or stylus. If you are unsure about any step, please consult a qualified technician or refer to your turntable's specific manual.

3.1 Unpacking

- Carefully remove the cartridge and stylus from its packaging.
- Avoid touching the stylus tip directly with your fingers. Handle the cartridge by its body.
- Keep the stylus guard on until installation is complete.

3.2 Mounting the Cartridge

1. Ensure your turntable is powered off and unplugged.
2. If replacing an old cartridge, carefully disconnect the four color-coded wires from the old cartridge and remove it from the headshell. Note the wire connections.
3. Attach the MAG M27BS cartridge to your turntable's headshell using the provided screws. Ensure it is securely fastened but do not overtighten.
4. Connect the four color-coded wires from the tonearm to the corresponding pins on the back of the cartridge. The standard color code is:
 - **Red:** Right Channel Hot (R+)
 - **Green:** Right Channel Ground (R-)
 - **White:** Left Channel Hot (L+)
 - **Blue:** Left Channel Ground (L-)

Ensure connections are firm and correct to prevent hum or channel imbalance.



Image 2: Rear view of the MAG M27BS cartridge, illustrating the four connection pins for the tonearm wires.

3.3 Cartridge Alignment

Proper cartridge alignment (overhang, azimuth, vertical tracking angle) is critical for accurate sound

reproduction and minimizing record wear. Refer to your turntable's manual or an alignment protractor for detailed instructions on how to align your cartridge. Incorrect alignment can lead to distorted sound and premature stylus wear.

3.4 Setting 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 a reliable tracking force gauge to set this accurately. Setting the tracking force too low can cause skipping and distortion, while setting it too high can lead to excessive record and stylus wear.

- Balance your tonearm until it floats freely.
- Set the tracking force dial (if present on your tonearm) to zero.
- Adjust the counterweight to achieve the recommended tracking force of 3.0 grams.

4. OPERATING INSTRUCTIONS

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

- Always ensure your records are clean before playing to prevent dust and debris from damaging the stylus and affecting sound quality.
- Use the tonearm lift mechanism to gently lower and raise the stylus onto and off the record. Avoid dropping the tonearm manually.
- When not in use, always engage the stylus guard to protect the diamond tip from accidental damage.
- Avoid moving the tonearm across the record surface while the stylus is in contact, as this can scratch the record and damage the stylus.

5. MAINTENANCE

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

5.1 Stylus Cleaning

Dust and debris can accumulate on the stylus tip, degrading sound quality. Clean the stylus regularly:

- Use a soft stylus brush, specifically designed for this purpose.
- Brush gently from back to front (from the pivot point towards the stylus tip). Never brush side-to-side or front-to-back, as this can damage the cantilever.
- For stubborn grime, a specialized stylus cleaning fluid can be used sparingly, following the product's instructions.

5.2 Cartridge Care

Keep the cartridge body clean by gently wiping it with a soft, dry, lint-free cloth. Avoid using harsh chemicals or solvents.

5.3 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 produce poor sound. Replace the stylus when you notice a degradation in sound quality (e.g., increased distortion, sibilance) or visible wear under magnification. Replacement styli for the M27BS cartridge are available from authorized

dealers.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound or very low sound	Incorrect wiring; amplifier/receiver input not selected; damaged wires.	Check all wire connections between cartridge, tonearm, and amplifier. Ensure correct input is selected on your amplifier.
Distorted or muffled sound	Dirty stylus; incorrect tracking force; improper alignment; worn stylus.	Clean the stylus. Verify tracking force is set to 3.0g. Check cartridge alignment. Consider stylus replacement if worn.
Skipping or jumping	Incorrect tracking force; dirty record; damaged record; turntable not level.	Increase tracking force slightly within the recommended range (up to 3.5g). Clean the record. Ensure turntable is on a level surface.
Humming or buzzing noise	Grounding issue; incorrect wiring; interference.	Ensure the turntable is properly grounded to your amplifier. Check all wiring connections for looseness or incorrect pairing. Move away from other electronic devices.

If the problem persists after attempting these solutions, please contact customer support.

7. 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 (Range: 2.5 ~ 3.5g)
- **Stylus Tip:** Stereo Spherical Diamond Tip

8. WARRANTY AND SUPPORT

This 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 your retailer or MAG customer support. Please retain your proof of purchase for warranty purposes.

For further assistance, visit our website or contact our support team:

Web: www.example.com/support (Placeholder - please refer to actual MAG support channels)

Email: support@example.com (Placeholder)

