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MAG Turntable M27BS

MAG Turntable M27BS Cartridge and Diamond Stylus Instruction Manual

For Sanyo Turntable Models: TP1020, TP1200, TP825D, TP80SA, TP1030

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your MAG Turntable M27BS Moving Magnet Cartridge with Diamond Stylus. Designed for compatibility with various Sanyo turntable models, this cartridge delivers high-quality audio reproduction. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

PRODUCT OVERVIEW

The MAG Turntable M27BS is a high-quality moving magnet phono cartridge featuring a durable diamond stylus. It is engineered to provide excellent sound quality and strong tracking ability for an enhanced listening experience. This cartridge is specifically designed to be compatible with the following Sanyo turntable models:

- Sanyo TP1020
- Sanyo TP1200
- Sanyo TP825D
- Sanyo TP80SA
- Sanyo TP1030



Image 1: A close-up view of the MAG Turntable M27BS cartridge. It features a black body with a white top section, a clear plastic stylus guard, and metal pins for connection at the rear. The 'AudioOrigin - UK' label is visible on the side.

SETUP AND INSTALLATION

Proper installation is crucial for optimal sound performance and to prevent damage to your records or equipment. If you are unsure about any step, please consult a professional or contact support.

1. **Power Off:** Ensure your turntable is completely powered off and unplugged from the mains electricity supply before beginning installation.
2. **Remove Old Cartridge (if applicable):** Carefully remove the existing cartridge and stylus from the tonearm's headshell. Refer to your turntable's manual for specific instructions on removing the old cartridge.
3. **Connect Wires:** The MAG Turntable M27BS cartridge has four pins at the rear. Connect the color-coded wires from your tonearm's headshell to the corresponding pins on the new cartridge. Standard color coding is typically:
 - Red: Right Channel Hot (R+)
 - Green: Right Channel Ground (R-)
 - White: Left Channel Hot (L+)
 - Blue: Left Channel Ground (L-)

Ensure connections are firm but do not apply excessive force.

4. **Mount Cartridge:** Secure the M27BS cartridge to your turntable's headshell using the provided screws and nuts. Do not overtighten.
5. **Adjust Tracking Force:** Set the tracking force on your tonearm to the recommended value of **3.0 grams**. The acceptable range is 2.5 to 3.5 grams. Refer to your turntable's manual for instructions on adjusting tracking force. Incorrect tracking force can cause premature record wear or poor sound quality.

6. **Cartridge Alignment:** For best sound reproduction and to minimize record wear, the cartridge must be correctly aligned within the headshell. This typically involves adjusting the cartridge's position to ensure the stylus tracks the record grooves at the correct angle. Many turntables come with an alignment protractor, or universal protractors can be purchased separately.
7. **Stylus Guard:** Always ensure the clear plastic stylus guard is in place when handling the cartridge or when the turntable is not in use to protect the delicate diamond stylus.

OPERATING INSTRUCTIONS

Once installed and properly aligned, the MAG Turntable M27BS cartridge operates as part of your turntable system. Follow your turntable's operating instructions for playing records.

- **Lowering the Stylus:** Always 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 your records.
- **Stylus Protection:** When not playing records, engage the tonearm clip to secure the tonearm and place the stylus guard over the stylus to prevent accidental damage.

MAINTENANCE

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

- **Stylus Cleaning:** Dust and debris can accumulate on the stylus, affecting sound quality. Gently clean the stylus using a soft stylus brush, brushing from back to front (in the direction of the tonearm pivot). Never brush from side to side or front to back. Use a dedicated stylus cleaning fluid sparingly if necessary.
- **Record Cleaning:** Keep your records clean. Dust on records can transfer to the stylus, leading to poor sound and increased wear.
- **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 your records and degrade sound quality. If you notice a significant drop in sound quality, increased distortion, or visible wear on the stylus tip, it is time for replacement. Contact your retailer for a compatible replacement stylus.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound or very low sound from one or both channels.	Loose or incorrect wiring connections.	Check all wire connections between the cartridge and headshell/tonearm. Ensure they are secure and correctly matched (L+, L-, R+, R-).
Distorted or muffled sound.	Dirty or worn stylus; incorrect tracking force; improper cartridge alignment.	Clean the stylus. Verify tracking force is set to 3.0g. Check cartridge alignment. Consider replacing the stylus if it is old or visibly worn.

Problem	Possible Cause	Solution
Stylus skips or jumps across the record.	Insufficient tracking force; dirty stylus; damaged record; turntable not level.	Increase tracking force slightly within the recommended range (up to 3.5g). Clean the stylus. Ensure the turntable is on a level surface. Inspect the record for damage.
Humming or buzzing noise.	Grounding issue; interference; loose connections.	Ensure the turntable is properly grounded to your amplifier/receiver. Check all audio cable connections for tightness. Move the turntable away from other electronic devices that may cause interference.

If these steps do not resolve the issue, please contact customer support for further assistance.

SPECIFICATIONS

The following are the technical specifications for the MAG Turntable M27BS Moving Magnet Cartridge:

- **Type:** Moving Magnet (MM) 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 Hz ~ 20 kHz
- **Tracking Force:** 3.0g (Recommended range: 2.5g ~ 3.5g)
- **Included Components:** Moving magnetic cartridge with diamond stylus needle
- **Compatibility:** Sanyo TP1020, TP1200, TP825D, TP80SA, TP1030

WARRANTY INFORMATION

Specific warranty details for the MAG Turntable M27BS cartridge are typically provided at the point of purchase or included with the product packaging. Please retain your proof of purchase for any warranty claims. For further information regarding warranty coverage, please contact your retailer or MAG Turntable customer support.

SUPPORT AND CONTACT

If you require further assistance with installation, operation, or troubleshooting, or if you need fitting advice, please contact MAG Turntable customer support. You can typically find contact information on the product packaging or the retailer's website.

For general inquiries, please refer to the [MAG Turntable brand page](#) or your original point of purchase.

