

Manuals.plus /

- › **MAG Turntable** /
- › MAG Turntable M27BS Headshell, Stylus, and Cartridge Instruction Manual

MAG Turntable M27BS

MAG Turntable M27BS Headshell, Stylus, and Cartridge Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the MAG Turntable M27BS Headshell, Stylus, and Cartridge unit. This complete unit is designed for straightforward installation and delivers high-quality audio reproduction for compatible turntables. Please read these instructions carefully before installation and use.

2. COMPATIBILITY

This headshell, stylus, and cartridge unit is compatible with the following TEAC turntable models:

- TEAC PX-500
- TEAC TS-80
- TEAC TN-570
- TEAC TN-550

3. SETUP AND INSTALLATION

The MAG Turntable M27BS unit comes pre-assembled, ready for installation onto your turntable's tonearm. Ensure you handle the unit with care, especially the delicate stylus.

Installation Steps

1. **Power Off:** Ensure your turntable is powered off and unplugged from the mains electricity before beginning installation.
2. **Remove Old Headshell (if applicable):** If replacing an existing headshell, carefully unscrew and remove it from your tonearm. Store it safely if you intend to reuse it.
3. **Attach New Headshell:** Gently insert the MAG Turntable M27BS headshell into the tonearm's socket. Rotate the locking collar on the tonearm clockwise until the headshell is securely fastened. Do not overtighten.

4. **Balance Tonearm:** Follow your turntable's specific instructions to balance the tonearm. This typically involves adjusting the counterweight at the rear of the tonearm until the tonearm floats freely and horizontally.
5. **Set Tracking Force:** The recommended tracking force for the M27BS cartridge is 3.0 grams, with an acceptable range of 2.5 to 3.5 grams. Use your turntable's tracking force gauge or a separate digital gauge to set this accurately. Incorrect tracking force can lead to premature record wear, stylus damage, and poor sound quality.
6. **Set Anti-Skate:** Adjust the anti-skate setting on your turntable to match the tracking force. Refer to your turntable's manual for precise instructions on how to set the anti-skate mechanism.



Image: The MAG Turntable M27BS headshell, stylus, and cartridge unit, showing the black headshell, integrated cartridge, and connection pins.

4. OPERATING INSTRUCTIONS

Once installed and properly adjusted, the MAG Turntable M27BS is ready for use with your compatible turntable.

Playing Records

1. Place a record on the turntable platter. Ensure the record and platter are clean.
2. Ensure the turntable speed is set correctly for the record you are playing (e.g., 33 1/3 RPM or 45 RPM).
3. Carefully lift the tonearm using the cueing lever. Avoid touching the stylus directly.
4. Position the stylus over the lead-in groove of the record.
5. Gently lower the tonearm using the cueing lever. The stylus will make contact with the record and begin playing.
6. At the end of the record, lift the tonearm using the cueing lever and return it to its rest.

5. MAINTENANCE

Proper maintenance ensures optimal performance and extends the lifespan of your M27BS unit and your records.

Stylus Care

The diamond stylus tip is delicate and requires careful handling to ensure optimal sound quality and longevity.

- **Cleaning:** Periodically clean the stylus using a soft stylus brush. Always brush gently from back to front (from the rear of the cartridge towards the stylus tip). Never brush side-to-side, as this can damage the cantilever.
- **Inspection:** Regularly inspect the stylus for accumulated dirt, debris, or visible damage. A magnifying glass can be helpful for this. A damaged stylus can cause significant harm to your records.
- **Replacement:** The stylus has a finite lifespan, typically several hundred to a thousand hours of play, depending on care and record condition. If you notice a degradation in sound quality (e.g., increased distortion, sibilance) or visible wear, the stylus should be replaced. The M27BS cartridge uses a replaceable stereo spherical diamond tip.

Cartridge and Headshell Care

- Keep the headshell and cartridge body free from dust and debris. Use a soft, dry, lint-free cloth for cleaning.
- Avoid touching the stylus or the delicate wiring of the cartridge.

6. TROUBLESHOOTING

This section addresses common issues you might encounter and provides potential solutions.

Common Issues and Solutions

- **No Sound or Weak Sound:**
 - *Check Connections:* Ensure the headshell is securely attached to the tonearm and the tonearm cables are properly connected to your amplifier/receiver. Verify all four color-coded wires from the cartridge are firmly connected to the headshell pins.
 - *Check Amplifier Input:* Verify that your amplifier is set to the correct "Phono" input. If your amplifier does not have a dedicated phono input, you may need an external phono preamplifier.
 - *Stylus Condition:* Inspect the stylus for damage or excessive dirt that might prevent proper contact with the record groove.
- **Distorted Sound:**
 - *Tracking Force:* Re-check and accurately adjust the tracking force to the recommended 3.0 grams. Too much or too little force can cause distortion.
 - *Stylus Condition:* A worn, bent, or damaged stylus is a common cause of distortion. Consider stylus replacement.
 - *Record Condition:* Ensure the record is clean and free from scratches or debris.
- **Skipping:**
 - *Tracking Force:* Insufficient tracking force can lead to skipping. Increase it slightly within the recommended range (up to 3.5g).
 - *Anti-Skate:* Incorrect anti-skate can cause the tonearm to pull inwards or outwards, leading to

skipping. Adjust as per your turntable's manual.

- *Turntable Level:* Ensure your turntable is perfectly level on a stable surface. Use a spirit level to check.
- *Stylus Condition:* A bent or damaged stylus will often skip.

7. SPECIFICATIONS

MAG Turntable M27BS Cartridge Specifications

- **Type:** Moving Magnetic Cartridge with Diamond Stylus Needle
- **Model:** M27BS
- **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: 2.5 ~ 3.5g)
- **Stylus Tip:** Stereo Spherical Diamond Tip

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your MAG Turntable M27BS Headshell, Stylus, and Cartridge, please refer to the documentation provided with your original purchase or contact MAG Turntable customer service through their official channels.