

## MAG M27BS

# MAG M27BS Cartridge and Diamond Stylus Instruction Manual

For BUSH M1, MP 370CD, and MTT2 Turntables

## INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your MAG M27BS Moving Magnet Cartridge with Diamond Stylus. This cartridge is designed to deliver high-quality audio reproduction and is compatible with BUSH M1, MP 370CD, and MTT2 turntable models. Please read these instructions carefully before proceeding with installation or use.

## SETUP

Proper installation of the cartridge is crucial for optimal sound quality and to prevent damage to your records and stylus. Handle the cartridge and stylus with care, avoiding contact with the stylus tip.

### Installation Steps:

- Preparation:** Ensure your turntable is powered off and unplugged. Carefully remove any existing cartridge from the tonearm headshell.
- Mounting the Cartridge:** Align the MAG M27BS cartridge with the mounting holes on your turntable's headshell. Use the provided screws to secure the cartridge. Do not overtighten, as this can damage the cartridge body.
- Connecting Wires:** Connect the four color-coded wires from the tonearm to the corresponding pins on the back of the cartridge. Typically, these are:
  - Red (Right Channel Signal)
  - Green (Right Channel Ground)
  - White (Left Channel Signal)
  - Blue (Left Channel Ground)

Ensure connections are firm and correct.

- Stylus Guard:** Keep the stylus guard in place until installation is complete to protect the delicate diamond tip.

5. **Tracking Force Adjustment:** Set the tracking force on your tonearm to 3.0 grams. The acceptable range for this cartridge is 2.5 to 3.5 grams. Refer to your turntable's manual for specific instructions on adjusting tracking force.
6. **Anti-Skate Adjustment:** Adjust the anti-skate setting on your tonearm according to your turntable's manual, typically matching the tracking force setting.



Image 1: The MAG M27BS cartridge shown with two mounting screws. The cartridge features a red and white body with a black base, designed for easy installation onto a turntable headshell.



Image 2: Rear view of the MAG M27BS cartridge, highlighting the four color-coded pins for connecting to the tonearm wires. This view assists in correct wire attachment during installation.

If you require further assistance with fitting, please refer to the Support section of this manual.

## OPERATING

---

Once installed, the MAG M27BS cartridge converts the physical vibrations from the record groove into electrical signals, which are then amplified by your turntable's pre-amplifier and audio system. Ensure your turntable is level and the tonearm is balanced correctly for optimal performance.

- **Playing Records:** Gently lower the tonearm onto the record using the cueing lever. Avoid dropping the tonearm directly onto the record, as this can damage the stylus and record.
- **Tracking Force:** The recommended tracking force of 3.0g ensures the stylus maintains proper contact with the record groove, reducing wear and improving sound quality.

## MAINTENANCE

---

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

### Stylus Care:

- **Cleaning:** Clean the stylus tip regularly using a soft stylus brush, brushing gently from back to front (in the direction of play). Do not brush from side to side or front to back, as this can damage the cantilever.
- **Dust:** Always replace the stylus guard when the turntable is not in use to protect the stylus from dust and accidental damage.
- **Replacement:** A diamond stylus has a finite lifespan. Replace the stylus when you notice a degradation in sound quality, increased surface noise, or visible wear on the stylus tip. Typically, a stylus should be replaced after approximately 500-1000 hours of play, depending on record condition and cleaning habits.

### Cartridge Care:

- Keep the cartridge body clean and free of dust. Use a soft, dry cloth.
- Avoid touching the cartridge pins or wires unnecessarily.

## TROUBLESHOOTING

---

If you experience issues with your cartridge, consider the following common problems and solutions:

- **No Sound or Weak Sound:**
  - Check all wire connections between the cartridge and tonearm for proper contact.
  - Ensure the turntable is correctly connected to your amplifier's phono input.
- **Distorted Sound or Skipping:**
  - Verify the tracking force is set correctly to 3.0g.
  - Check the anti-skate setting.
  - Inspect the stylus tip for dirt or damage. Clean or replace if necessary.
  - Ensure records are clean and free of debris.
  - Confirm the turntable is on a stable, level surface.
- **Humming or Buzzing Noise:**
  - Ensure all ground wires are properly connected (turntable to amplifier).
  - Check for interference from other electronic devices.

## SPECIFICATIONS

| Feature                            | Specification                        |
|------------------------------------|--------------------------------------|
| Cartridge Type                     | Moving Magnet (MM)                   |
| Stylus Type                        | 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 Hz ~ 20 kHz                       |
| Tracking Force                     | 3.0g (Recommended range: 2.5 ~ 3.5g) |
| Compatibility                      | BUSH M1, MP 370CD, MTT2              |

## WARRANTY INFORMATION

Your MAG M27BS cartridge is covered by a **6-month warranty** from the date of purchase, covering manufacturing defects. Additionally, a **14-day 'any reason' return policy** is offered from the date of receipt. Please retain your proof of purchase for warranty claims.

## SUPPORT

For further assistance with installation, troubleshooting, or any other inquiries regarding your MAG M27BS cartridge, please contact your retailer or the manufacturer's customer support. When contacting support, please have your product model (M27BS) and purchase details available.