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MAG Turntable DP DJ100, DP3000, DP DJ150

Instruction Manual

MAG TURNTABLE STYLUS, CARTRIDGE, AND HEADSHELL MOUNT

Model: DP DJ100, DP3000, DP DJ150 Compatible

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MAG Turntable Moving Magnetic Cartridge with Diamond Stylus Needle and Headshell Mount. This product is designed to deliver excellent sound quality and strong tracking ability for compatible Denon turntable models, including DP DJ100, DP3000, and DP DJ150.

2. Product Overview

The MAG Turntable cartridge system is a high-quality component for your turntable, ensuring accurate sound reproduction.

Key Features:

- Moving magnetic cartridge with diamond stylus needle.
- Excellent sound quality and strong tracking ability.
- Compatible with Denon DP DJ100, DP3000, DP DJ150 turntables.

What's in the Box:

- 1 x Stylus
- 1 x Cartridge
- 1 x Headshell mount

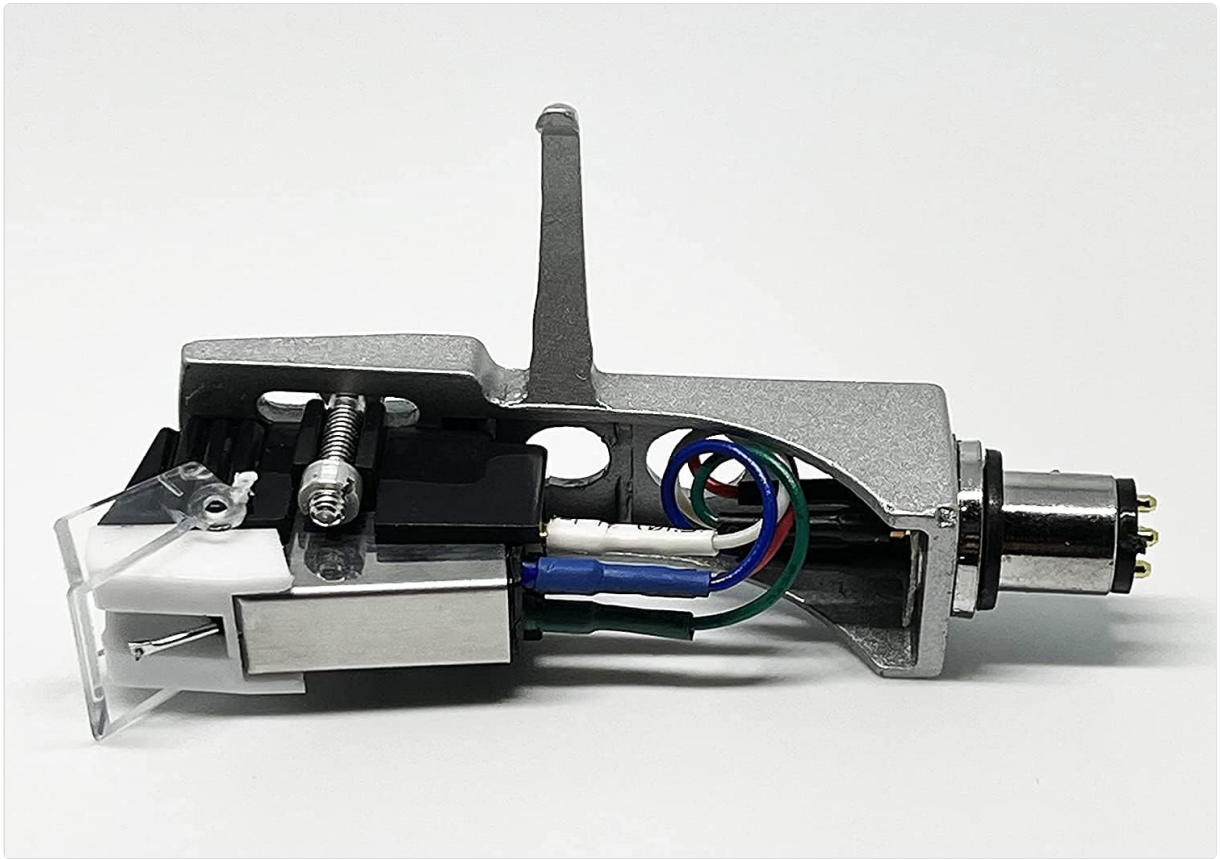


Figure 2.1: Assembled MAG Turntable Stylus, Cartridge, and Headshell Mount. This image shows the complete unit, including the silver headshell, the black cartridge body, and the clear stylus guard.



Figure 2.2: Top view of the MAG Turntable Headshell with the cartridge attached. This perspective highlights the mounting screws and the overall robust construction of the headshell.

3. Setup and Installation

Proper installation is crucial for optimal performance. Please follow these steps carefully.

1. Attach Cartridge to Headshell:

Carefully align the cartridge with the mounting holes on the headshell. Use the provided screws to secure the cartridge to the headshell. Do not overtighten.

2. Connect Wires:

Connect the four color-coded wires from the headshell to the corresponding pins on the cartridge. Ensure correct polarity:

- Red (R+): Right Channel Hot
- Green (RG): Right Channel Ground
- White (L+): Left Channel Hot
- Blue (LG): Left Channel Ground

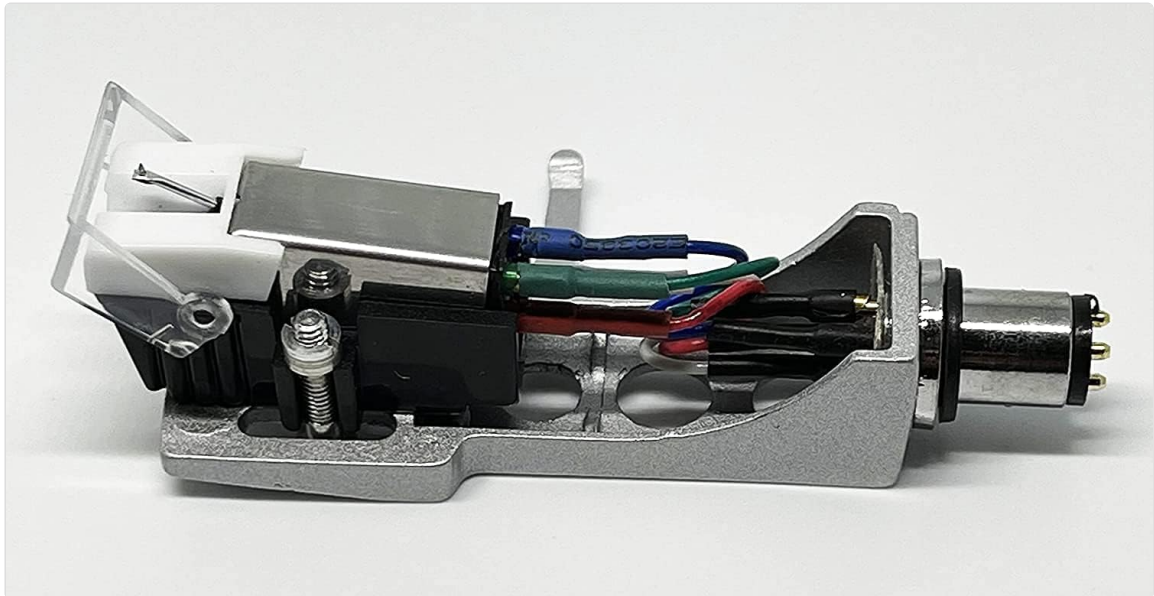


Figure 3.1: Close-up view of the cartridge wiring connections. This image shows the small, color-coded wires connecting the headshell to the cartridge pins, illustrating the proper connection points.

3. Mount Headshell to Tonearm:

Insert the headshell connector into the front end of your turntable's tonearm. Twist the locking collar on the tonearm clockwise until the headshell is securely fastened.

4. Balance Tonearm and Set Tracking Force:

Refer to your turntable's instruction manual for specific steps on balancing the tonearm and setting the tracking force. The recommended tracking force for this cartridge is **3.0g** (range: 2.5g ~ 3.5g).

5. Set Anti-Skate:

Adjust the anti-skate setting on your turntable to match the tracking force. This helps prevent the stylus from skipping and ensures even wear.

4. Operating Instructions

Once installed, your MAG Turntable cartridge system is ready for use.

- Ensure your turntable is properly connected to an amplifier with a phono input or a phono preamplifier.
- Place a record on the platter and start the turntable.
- Gently lower the tonearm onto the record's lead-in groove using the cueing lever. Avoid dropping the tonearm directly onto the record.
- After playback, use the cueing lever to lift the tonearm and return it to its rest.

5. Maintenance

Regular maintenance will prolong the life and performance of your cartridge and stylus.

- **Stylus Cleaning:** Gently clean the stylus tip regularly using a soft brush designed for stylus cleaning, brushing from back to front. Do not use excessive force or harsh chemicals.
- **Cartridge Body:** Keep the cartridge body free from dust and debris. Use a soft, dry cloth for cleaning.
- **Stylus Replacement:** The diamond stylus will wear over time. Replace the stylus when you notice a degradation in sound quality or after approximately 500-1000 hours of playback, depending on record condition and cleaning habits.

6. Troubleshooting

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

Problem	Possible Cause	Solution
No Sound or Low Volume	Incorrect wiring; Amplifier input not selected; Loose connections.	Check all wire connections (Red, Green, White, Blue). Ensure amplifier is set to "Phono" input. Secure all cables.
Distorted Sound	Incorrect tracking force; Dirty stylus; Worn stylus; Damaged record.	Verify tracking force (3.0g). Clean stylus. Inspect stylus for wear/damage; replace if necessary. Check record condition.
Skipping or Jumping	Incorrect tracking force; Insufficient anti-skate; Dirty stylus; Damaged record.	Adjust tracking force. Adjust anti-skate. Clean stylus. Inspect record for scratches or debris.
Humming Noise	Grounding issue; Interference.	Ensure turntable is properly grounded to the amplifier. Move turntable away from other electronic devices.

7. Specifications

Parameter	Value
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 ~ 20k Hz
Tracking Force	3.0g (2.5 ~ 3.5g)
Stylus Tip	Stereo spherical diamond tip
Included Components	Stylus, Cartridge, Headshell mount
Color	Silver
Style	Modern

Parameter	Value
Compatible Devices	Denon DP DJ100, DP3000, DP DJ150 Turntables

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact MAG Turntable customer service directly. Keep your proof of purchase for warranty claims.
