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› AudioOrigin Moving Magnet Cartridge and Stylus Instruction Manual for Goodmans CRN2500, GSP400, GSP400S

AudioOrigin 4330368616 (Compatible with Goodmans CRN2500, GSP400, GSP400S)

AudioOrigin Moving Magnet Cartridge and Stylus Instruction Manual

For Goodmans CRN2500, GSP400, GSP400S Turntables

Model: 4330368616

1. INTRODUCTION

This manual provides instructions for the proper installation, use, and maintenance of your AudioOrigin Moving Magnet Cartridge and Stylus. This product is designed to deliver high-quality audio reproduction for compatible turntables, including the Goodmans CRN2500, GSP400, and GSP400S models.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- AudioOrigin Moving Magnet Cartridge with pre-installed Stylus
- Spare Stylus
- Brass Mounting Bolts (for improved isolation and mass)
- Stylus Guard

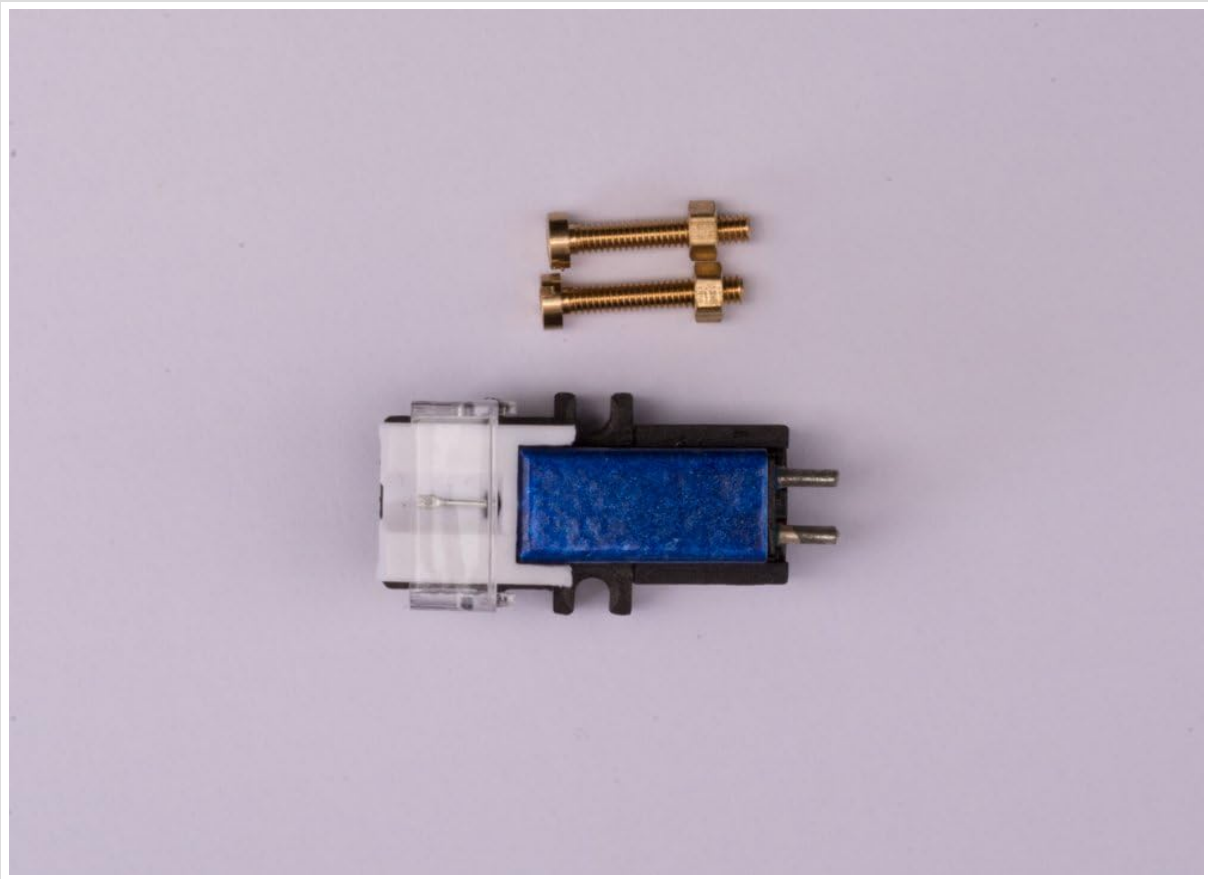


Image: The AudioOrigin Moving Magnet Cartridge shown with the included brass mounting bolts.

3. SETUP AND INSTALLATION

Important Safety Information

Before beginning installation, ensure your turntable is powered off and unplugged from the mains electricity. Handle the cartridge and stylus with care to avoid damage to the delicate components.

Installation Steps

1. **Remove Old Cartridge (if applicable):** Carefully disconnect the four color-coded wires from the pins on your existing cartridge. Note their positions (typically Red-Right Hot, Green-Right Ground, White-Left Hot, Blue-Left Ground). Unscrew the mounting bolts and remove the old cartridge.
2. **Attach New Cartridge:** Align the AudioOrigin cartridge with the headshell. Use the provided brass mounting bolts to secure the cartridge. Do not overtighten, as this can damage the cartridge body or headshell.
3. **Connect Wires:** Carefully connect the four color-coded wires from the tonearm to the corresponding pins on the new cartridge. Ensure a firm connection without bending the pins.
4. **Stylus Guard:** Ensure the stylus guard is in place during installation to protect the delicate stylus tip from accidental damage.
5. **Balance and Tracking Force:** Refer to your turntable's manual for instructions on balancing the tonearm and setting the correct tracking force. The recommended downforce for this cartridge is **2.5-3.5 grams**.
6. **Alignment:** For optimal sound quality and to prevent premature record wear, proper cartridge alignment (azimuth and overhang) is crucial. Consult your turntable's manual or an alignment protractor for precise adjustment.

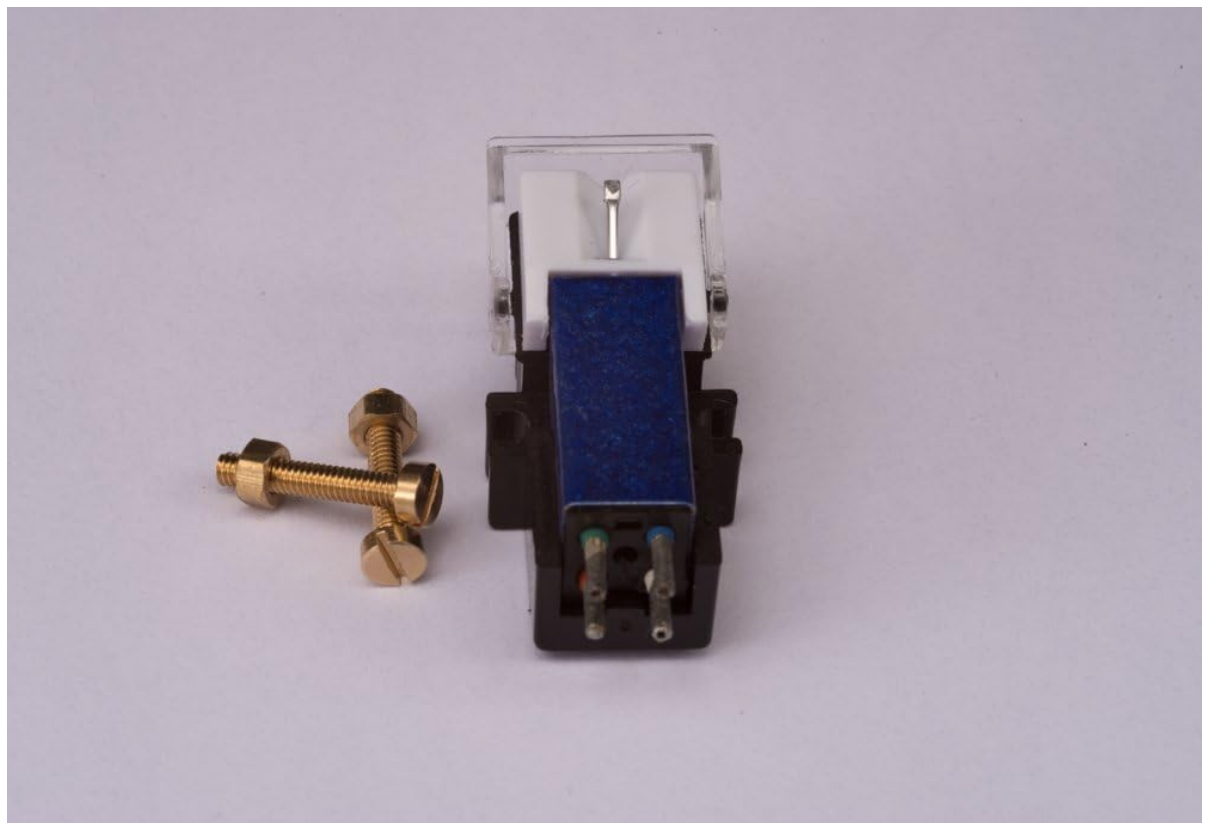


Image: Top view of the AudioOrigin cartridge with brass mounting bolts, illustrating the mounting points.

4. OPERATION

Once installed and properly aligned, the cartridge operates as an integral part of your turntable system. Follow these guidelines for optimal performance:

- **Playing Records:** Gently lower the tonearm onto the record's lead-in groove using the tonearm lift mechanism. Avoid dropping the tonearm onto the record.
- **Stylus Care:** Always ensure the stylus is clean before playing. Dust and debris can degrade sound quality and damage records.
- **Stylus Guard:** Always replace the stylus guard when the turntable is not in use or when moving the tonearm to prevent accidental damage to the stylus.

5. MAINTENANCE

Stylus Cleaning

Regularly clean the stylus tip to maintain optimal sound quality and extend the life of your records. Use a dedicated stylus cleaning brush or fluid. Brush gently from the back of the stylus towards the front. Never brush from side to side or front to back, as this can damage the cantilever.

Stylus Replacement

The stylus is a consumable part and will wear out over time, typically after 500-1000 hours of play, depending on record condition and tracking force. A worn stylus can damage records and significantly degrade sound quality. Replace the stylus when signs of wear appear or sound quality diminishes. A spare stylus is included with your purchase.

To replace the stylus, gently pull the old stylus assembly forward and down from the cartridge body. Insert the new stylus assembly by pushing it upwards and backwards until it clicks securely into place.

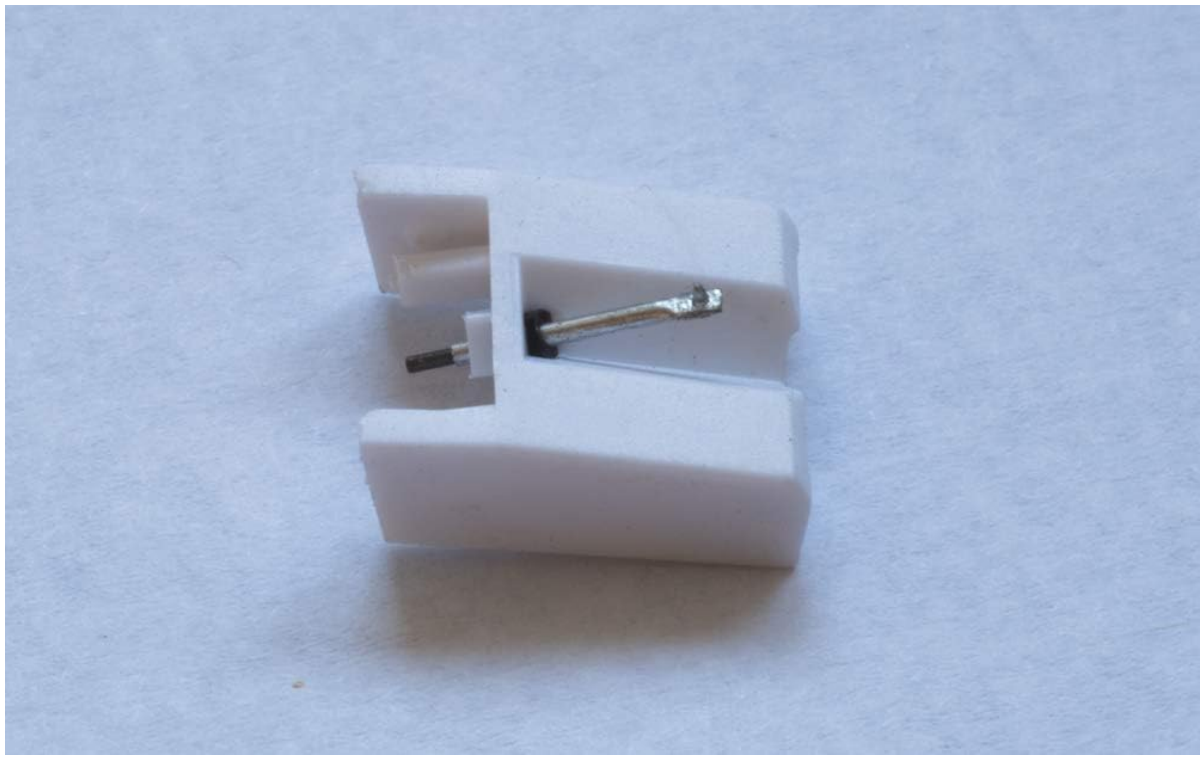


Image: Close-up view of the AudioOrigin stylus, highlighting the needle tip.

6. TROUBLESHOOTING

No Sound or Weak Sound

- Check all wire connections between the cartridge and tonearm. Ensure they are secure and correctly matched (color-coded).
- Verify that the amplifier/receiver input is set to "Phono" and not "Aux" or "Line."
- Confirm the stylus is properly seated in the cartridge body.

Distorted Sound or Skipping

- Re-check tracking force. It might be too light or too heavy.
- Verify cartridge alignment. Incorrect alignment can cause distortion and premature record wear.
- Inspect the stylus for damage or excessive wear. Replace if necessary.
- Ensure the record is clean and free of dust or debris.

Hum or Buzzing Noise

- Check the grounding wire connection from the turntable to the amplifier.
- Ensure all audio cables are properly shielded and not running parallel to power cables.
- Verify cartridge connections are secure and not loose.

7. SPECIFICATIONS

- **Type:** Moving Magnet Cartridge
- **Frequency Response:** 20-20,000 Hz
- **Channel Separation:** > 15dB at 1kHz
- **Recommended Downforce:** 2.5-3.5 grams

- **Compatibility:** Goodmans CRN2500, GSP400, GSP400S
- **Model Number:** 4330368616

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your AudioOrigin Moving Magnet Cartridge and Stylus, please refer to the AudioOrigin website or contact your retailer. It is recommended to keep your proof of purchase for any warranty claims.