

**AT 4330367152**

## Instruction Manual: AT Cartridge and Stylus

For Sanyo TP 240, TP 440 Turntables

### 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your new AT Cartridge and Stylus, specifically designed for Sanyo TP 240 and TP 440 turntables. This high-quality Japanese Genuine Audio Technica product ensures excellent sound reproduction.



Figure 1: The AT Cartridge and Stylus assembly, including the fixing bolt and clear stylus guard.

### 2. SETUP AND INSTALLATION

Proper installation of the cartridge and stylus is crucial for optimal performance and to prevent damage to your records or turntable. Please follow these steps carefully.

## 2.1 Unpacking and Inspection

- Carefully remove the cartridge and stylus from its packaging.
- Inspect all components for any visible damage. The package should include:
  - One AT Cartridge
  - One AT Stylus (pre-installed or separate)
  - One fixing bolt with nut
  - One clear stylus guard
  - One spare stylus



Figure 2: Top view of the AT Cartridge, showing the connection pins and the fixing bolt.

## 2.2 Cartridge Mounting

1. **Power Off:** Ensure your turntable is powered off and unplugged from the mains.
2. **Remove Old Cartridge (if applicable):** Carefully disconnect the four color-coded wires from the old cartridge. Note their positions (usually Red-Right Hot, Green-Right Ground, White-Left Hot, Blue-Left Ground). Unscrew and remove the old cartridge.
3. **Attach New Cartridge:** Align the new AT cartridge with the headshell of your turntable's tonearm. Use the provided fixing bolt to secure the cartridge to the headshell. Do not overtighten.
4. **Connect Wires:** Reconnect the four color-coded wires to the corresponding pins on the new AT cartridge. Ensure a firm connection.

**Red:** Right Channel Hot

**Green:** Right Channel Ground

**White:** Left Channel Hot

**Blue:** Left Channel Ground

5. **Stylus Guard:** Keep the clear stylus guard on the stylus during mounting to prevent accidental damage.

## 2.3 Tracking Force Adjustment

After mounting, it is essential to set the correct tracking force for optimal sound quality and stylus longevity. The recommended downforce for this AT cartridge is **1.0-1.5 grams**.

1. Refer to your turntable's instruction manual for specific instructions on how to adjust the tonearm's tracking force.
2. Typically, this involves balancing the tonearm to a neutral position, setting the tracking force dial to zero, and then rotating the counterweight to the desired tracking force (e.g., 1.25 grams).
3. If you have a stylus force gauge, use it for precise measurement.

## 3. OPERATING INSTRUCTIONS

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Once installed and adjusted, your AT cartridge and stylus are ready for use. Always handle your turntable and records with care.

- **Record Placement:** Place your vinyl record carefully on the turntable platter.
- **Stylus Guard Removal:** Gently remove the clear stylus guard before playing a record. Store it in a safe place.
- **Lowering the Tonearm:** Use the tonearm lift lever to gently lower the stylus onto the record's lead-in groove. Avoid dropping the tonearm manually, as this can damage the stylus or record.
- **Playing:** The stylus will track the grooves, and sound will be produced through your audio system.
- **Lifting the Tonearm:** At the end of a side, or when you wish to stop playback, use the tonearm lift lever to raise the tonearm from the record.
- **Stylus Guard Replacement:** Always replace the stylus guard when the turntable is not in use to protect the delicate stylus from dust and accidental contact.

## 4. MAINTENANCE

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Regular maintenance will extend the life of your stylus and ensure consistent sound quality.

### 4.1 Stylus Cleaning

Dust and debris can accumulate on the stylus tip, affecting sound quality and potentially damaging records. Clean the stylus regularly.

- Use a soft stylus brush, specifically designed for this purpose.
- Brush gently from back to front (from the base of the cantilever towards the stylus tip). Never brush side-to-side or front-to-back, as this can damage the cantilever.
- For stubborn dirt, a specialized stylus cleaning fluid can be used sparingly with the brush.

### 4.2 Stylus Replacement

The stylus is a consumable part and will wear out over time, typically after 500-1000 hours of playback, depending on care and record condition. A worn stylus can damage your records and degrade sound quality. This product includes a spare stylus for your convenience.



Figure 3: The green replacement stylus, showing the delicate cantilever and diamond tip.

1. **Power Off:** Ensure the turntable is powered off and unplugged.
2. **Remove Stylus Guard:** Remove the clear stylus guard from the cartridge.
3. **Gently Remove Old Stylus:** Hold the cartridge firmly with one hand. With the other hand, grasp the plastic housing of the stylus and gently pull it downwards and forwards away from the cartridge body. It should slide off.
4. **Install New Stylus:** Align the new stylus with the slot on the cartridge body. Gently push it upwards and backwards until it clicks securely into place. Do not force it.
5. **Re-check Tracking Force:** After replacing the stylus, it is good practice to re-check and adjust the tracking force.

## 5. TROUBLESHOOTING

If you experience issues with your cartridge and stylus, consult the following table before seeking professional assistance.

Problem	Possible Cause	Solution
No sound or very low sound from one or both channels.	<ul style="list-style-type: none"><li>• Loose or incorrect wire connections.</li><li>• Damaged stylus.</li><li>• Incorrect input selection on amplifier.</li></ul>	<ul style="list-style-type: none"><li>• Check and re-secure all four wire connections to the cartridge.</li><li>• Inspect stylus for damage; replace if necessary.</li><li>• Ensure amplifier is set to "Phono" input.</li></ul>
Distorted or muffled sound.	<ul style="list-style-type: none"><li>• Dirty stylus.</li><li>• Incorrect tracking force.</li><li>• Worn stylus.</li><li>• Damaged record.</li></ul>	<ul style="list-style-type: none"><li>• Clean the stylus thoroughly.</li><li>• Re-adjust tracking force to 1.0-1.5 grams.</li><li>• Replace the stylus.</li><li>• Try a different record.</li></ul>

Problem	Possible Cause	Solution
Skipping or jumping.	<ul style="list-style-type: none"><li>• Incorrect tracking force (too light or too heavy).</li><li>• Turntable not level.</li><li>• Dust/debris on record or stylus.</li><li>• Damaged record.</li></ul>	<ul style="list-style-type: none"><li>• Adjust tracking force.</li><li>• Ensure turntable is on a stable, level surface.</li><li>• Clean record and stylus.</li><li>• Inspect record for scratches or warps.</li></ul>

## 6. SPECIFICATIONS

Key technical specifications for the AT Cartridge and Stylus:

- **Frequency Response:** 20-22,000 Hz
- **Channel Separation (1kHz):** > 22dB
- **Recommended Downforce (Tracking Force):** 1.0-1.5 grams
- **Compatibility:** Sanyo TP 240, TP 440 Turntables
- **Manufacturer:** Audio-Technica
- **Model Number:** 4330367152

## 7. WARRANTY AND SUPPORT

This product is manufactured by Audio-Technica. For specific warranty information, please refer to the documentation provided with your original purchase or contact Audio-Technica customer support directly. General return policies may apply as per the retailer's terms.

For technical support or further inquiries, please contact the manufacturer or your point of purchase.