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> Audio Technica AT Cartridge and Stylus Instruction Manual for Sansui P900, PE350, PD11, PD15, PD21, PD31, PL35, PL41, PL45, PL55, PM55 Turntables

AT 4330367140

Audio Technica AT Cartridge and Stylus Instruction Manual

Model: 4330367140

1. SETUP AND INSTALLATION

This Audio Technica AT Cartridge and Stylus is designed for compatibility with various Sansui turntable models, including P900, PE350, PD11, PD15, PD21, PD31, PL35, PL41, PL45, PL55, and PM55. Proper installation ensures optimal sound quality and longevity of your equipment.

1.1 Unpacking and Components

Carefully unpack the cartridge and stylus. Ensure all components are present, including the cartridge body, stylus assembly, and any included mounting hardware.

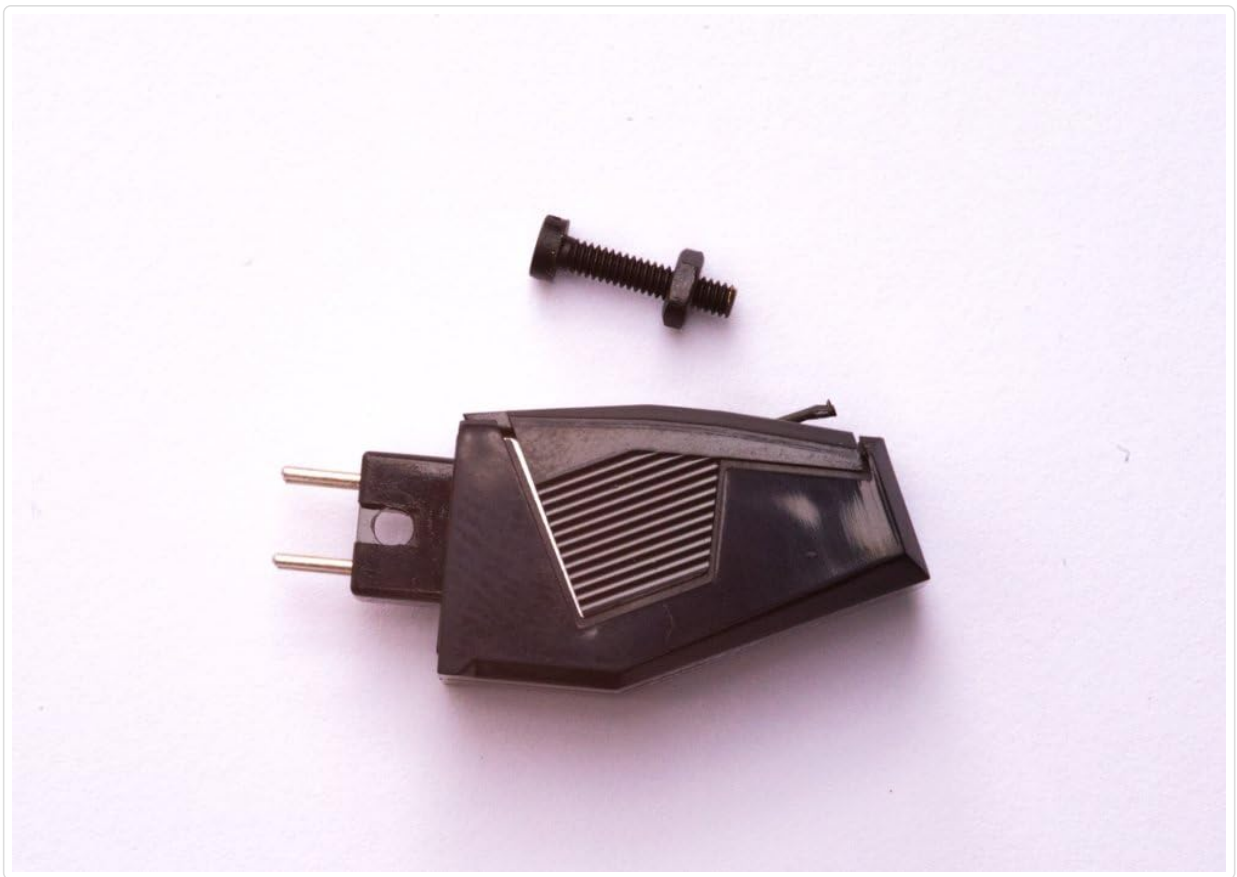


Image 1.1: The Audio Technica AT Cartridge shown with its included mounting bolt and nut. This image displays the black cartridge body with electrical contacts at the rear and a small, threaded bolt with a nut, used for securing the cartridge to a headshell.



Image 1.2: A close-up of the green stylus assembly for the Audio Technica AT Cartridge. The image highlights the delicate needle tip extending from the green plastic housing, which is designed to be detachable from the cartridge body.

1.2 Attaching the Cartridge to the Headshell

1. Gently attach the cartridge to your turntable's headshell using the provided screws and nuts. Ensure the cartridge is securely fastened but do not overtighten.
2. Connect the four color-coded wires from the headshell to the corresponding pins on the cartridge.
Typically:
 - Red: Right Channel Hot (R+)
 - Green: Right Channel Ground (RG-)
 - White: Left Channel Hot (L+)
 - Blue: Left Channel Ground (LG-)
3. Once the cartridge is mounted, carefully slide the stylus assembly onto the cartridge body until it clicks into place.

1.3 Headshell and Cartridge Installation Demonstration

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Video 1.3: This video demonstrates the installation of a black headshell with an AT-3600L magnetic cartridge and stylus. It shows the process of attaching the cartridge to the headshell and then mounting the entire assembly onto a turntable's tonearm, providing a visual guide for users.

2. OPERATING YOUR TURNTABLE WITH THE AT CARTRIDGE

The Audio Technica AT Cartridge and Stylus are designed to accurately read the intricate grooves of your vinyl records, converting physical vibrations into electrical signals that your amplifier can process into sound.

2.1 How Analog Records Work

Understanding the basic principles of analog record playback can enhance your listening experience. The stylus tip traces the microscopic modulations in the record's groove, which represent the audio waveform. These movements are then converted into electrical signals by the cartridge.

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Video 2.1: This video provides an in-depth lecture by a Japanese sound engineer on analog records. It covers the fundamental mechanisms of how analog audio is recorded and played back, including the interaction between the stylus and the record groove, and the differences between analog and digital sound reproduction.

2.2 Stylus Types and Performance

The AT Cartridge is compatible with various stylus types, each offering different performance characteristics:

- **Conical Stylus:** A basic, robust stylus shape that offers good all-around performance and durability.
- **Elliptical Stylus:** Features a finer tip radius that allows for better tracking of high-frequency information in the record groove, resulting in improved detail and clarity.
- **Microlinear/Shibata Stylus:** Advanced stylus profiles designed to trace the record groove more accurately, reducing wear on both the stylus and the record, and providing superior high-frequency response and detail.

The choice of stylus can significantly impact the sound quality and the lifespan of your records. Consider upgrading your stylus for enhanced audio fidelity.

3. MAINTENANCE AND STYLUS REPLACEMENT

Regular maintenance of your stylus is crucial for preserving sound quality and extending the life of your vinyl collection. A worn or dirty stylus can cause damage to records and degrade audio performance.

3.1 When to Replace Your Stylus

Stylus wear is dependent on the stylus type and the tracking force applied. As a general guideline:

- Elliptical styli (like the one included) typically last around 300 hours of playback.
- Conical styli may last 300-500 hours.
- Advanced profiles like Shibata or Microlinear can last 800-1000 hours or more.

If you notice a decrease in sound quality, increased distortion, or skipping, it may be time for a replacement.

3.2 Replacing the Stylus Assembly

The stylus assembly is designed for easy replacement without needing to remove the entire cartridge from the headshell.

1. Gently grasp the sides of the stylus protector (if present) or the stylus housing.
2. Slowly pull the stylus assembly down and off the cartridge body using a slight rocking motion.
3. Align the new stylus assembly with the cartridge body and carefully press it into place until it clicks firmly.

3.3 Stylus Replacement Demonstration

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Video 3.3: This video provides a quick demonstration on how to change the stylus needle on a turntable cartridge. It visually guides the user through the simple steps of removing the old stylus and installing a new one, ensuring a secure fit.

4. TROUBLESHOOTING

If you encounter issues with your Audio Technica AT Cartridge and Stylus, consider the following common troubleshooting steps:

- **Poor Sound Quality / Distortion:** Check if the stylus is clean and free of debris. Ensure the stylus is not worn out (refer to replacement intervals). Verify that the tracking force is set correctly according to the specifications.
- **Skipping:** Confirm the tracking force is correctly set. Check for any physical damage to the stylus tip. Ensure the record is clean and free of dust or scratches.
- **No Sound / Weak Sound:** Double-check all wiring connections from the cartridge to the headshell and from the headshell to the tonearm. Ensure your amplifier's phono input is selected and functioning.

5. SPECIFICATIONS

Feature	Value
Frequency Response	20-22,000 Hz
Channel Separation (1kHz)	> 22dB
Downforce	1.0-1.5 gr

Feature	Value
Product Dimensions	7.32 x 5.51 x 11.81 inches
Color	Black
Item Model Number	4330367140

6. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.