

THAKKER AD-WX 220 Kit

Thakker AD-WX 220 Belt Kit Instruction Manual

For Aiwa AD-WX 220 Cassette Decks

1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of the Thakker AD-WX 220 Belt Kit. This kit is designed as a direct replacement for worn or broken drive belts in compatible Aiwa AD-WX 220 cassette decks, restoring optimal performance.

2. COMPATIBILITY

The Thakker AD-WX 220 Belt Kit is specifically designed and compatible with the following model:

- Aiwa AD-WX 220 Cassette Deck

Ensure your device model matches the listed compatibility to guarantee proper fit and function.

3. PACKAGE CONTENTS

Upon opening your Thakker AD-WX 220 Belt Kit, please verify that all components are present and undamaged:

- 2 x Flat Belts
- 2 x Square Belts



Figure 1: Contents of the Thakker AD-WX 220 Belt Kit. The image displays the four replacement belts, consisting of two flat belts and two square belts, typically used in cassette deck mechanisms.

4. INSTALLATION GUIDE

Replacing cassette deck belts requires careful handling and attention to detail. If you are unsure about any step, it is recommended to seek professional assistance.

4.1. Preparation

1. **Disconnect Power:** Ensure the Aiwa AD-WX 220 cassette deck is completely unplugged from the power outlet before beginning any work.
2. **Access Internal Mechanism:** Carefully open the cassette deck's casing to gain access to the drive mechanism. This may involve removing screws from the bottom or rear panel. Refer to your specific deck's service manual if available.
3. **Identify Old Belts:** Locate the existing drive belts. They are typically rubber bands connecting motors to flywheels and capstans. Note their routing paths.

4.2. Belt Removal and Cleaning

1. **Remove Old Belts:** Gently remove all old, stretched, or broken belts. Be careful not to damage any surrounding components.
2. **Clean Pulley Surfaces:** Use isopropyl alcohol and a cotton swab or lint-free cloth to thoroughly clean all surfaces where the belts make contact (motor pulleys, flywheels, capstans). Old belt residue can be sticky and cause new belts to slip. Ensure surfaces are completely dry before proceeding.

4.3. New Belt Installation

1. **Install New Belts:** Carefully route the new flat and square belts according to the original configuration. Ensure they are seated correctly on all pulleys and flywheels without twists or kinks. The flat belts typically drive the main capstan, while square belts often handle counter or auxiliary functions.
2. **Verify Tension:** Once installed, gently rotate the flywheels by hand to ensure the belts move smoothly and have appropriate tension. They should be snug but not overly tight, and should not slip.

4.4. Reassembly and Testing

1. **Reassemble Casing:** Carefully reassemble the cassette deck's casing, ensuring all screws are tightened securely.
2. **Connect Power:** Plug the cassette deck back into the power outlet.
3. **Test Functions:** Insert a cassette tape and test all functions: Play, Fast Forward, Rewind, and Stop. Listen for consistent speed and smooth operation. If any issues arise, disconnect power and re-inspect the belt installation.

5. OPERATING CONSIDERATIONS (POST-INSTALLATION)

While this kit provides replacement parts, proper operation of your Aiwa AD-WX 220 cassette deck relies on the correct installation of these belts. After installation, observe the following:

- **Speed Consistency:** Ensure playback speed is consistent and does not fluctuate.
- **Smooth Transport:** Fast forward and rewind functions should operate smoothly without excessive noise or stalling.
- **No Wow or Flutter:** Listen for any audible variations in pitch (wow and flutter), which could indicate improper belt tension or installation.

6. MAINTENANCE

To maximize the lifespan of your new belts and the performance of your cassette deck:

- **Regular Inspection:** Periodically inspect the belts for signs of wear, cracking, or stretching. The lifespan of belts can vary depending on usage and environmental conditions.

- **Cleanliness:** Keep the internal mechanism of the cassette deck free from dust and debris. Dust can accumulate on pulleys and belts, leading to slippage or premature wear.
- **Avoid Extreme Temperatures:** Store and operate the cassette deck in a stable environment, avoiding extreme temperatures or humidity, which can degrade rubber components.

7. TROUBLESHOOTING

If you encounter issues after installing the belt kit, consider the following:

Problem	Possible Cause	Solution
Tape speed too slow or inconsistent	Belts not properly seated; residue on pulleys; incorrect belt routing.	Re-open deck, verify belt routing and tension. Clean pulleys again.
Fast Forward/Rewind not working	Specific FF/RW belt dislodged or not installed correctly.	Check the routing and tension of the square belts, which often handle these functions.
Squeaking noise from mechanism	Dry bearings or friction points; belt rubbing against casing.	Ensure belts are not rubbing. Lubricate moving parts if necessary (refer to deck's service manual).

8. SPECIFICATIONS

- **Brand:** THAKKER
- **Model Number (Manufacturer Reference):** 939
- **Kit Contents:** 2 x Flat Belts, 2 x Square Belts
- **Compatibility:** Aiwa AD-WX 220 Cassette Deck

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Thakker AD-WX 220 Belt Kit, please refer to the documentation provided by your retailer or contact THAKKER directly. Support for installation or technical issues related to the cassette deck itself should be directed to Aiwa or a qualified electronics technician.

For product inquiries or assistance with the belt kit, please contact the seller or manufacturer.