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Audio-Technica ATLP120USB

Audio-Technica AT-LP120USB Direct Drive Professional USB Turntable Instruction Manual

Model: AT-LP120USB | Brand: Audio-Technica

1. Introduction

The Audio-Technica AT-LP120USB is a direct-drive, high-torque professional turntable designed for music enthusiasts. It features a selectable internal stereo phono preamplifier and a USB output for direct connection to a computer, allowing for digitization of vinyl records. The S-shaped tone arm assembly includes an adjustable counterweight, anti-skate adjustment, tone-arm height adjustment, and a lift lever. The turntable supports 33-1/3, 45, and 78 RPM speeds with a quartz-controlled pitch lock and variable pitch adjustment. Visual aids include a pop-up stylus target light and a stroboscopic platter speed indicator. Forward and reverse play options are also available. The unit comes with a cast-aluminum record platter, a slip mat, and a pre-installed AT95E professional cartridge and headshell. Adjustable, anti-vibrational feet ensure stable playback.

Image: The Audio-Technica AT-LP120USB turntable in black, featuring its S-shaped tonearm, platter, and controls, with the clear dust cover open.

2. Setup

2.1 Unboxing and Initial Assembly

Carefully remove all components from the packaging. Ensure all protective materials are removed from the turntable and its parts. Place the platter onto the spindle. Install the headshell with the pre-installed AT95E cartridge onto the tonearm. Balance the tonearm and set the tracking force and anti-skate according to the detailed instructions in the included manual.

2.2 Connecting to an Audio System

The AT-LP120USB offers versatile connectivity:

- **RCA Output:** Connect the included dual RCA output cable to your stereo receiver or amplifier. Use the PHONO/LINE switch on the rear of the turntable to select the appropriate output level. Select PHONO if connecting to a phono input on your receiver, or LINE if connecting to an auxiliary input or powered speakers.
- **USB Output:** Connect the turntable directly to your computer using the included USB cable. This allows for the digitization of your vinyl records using compatible software like Audacity (included).

2.3 Tone Arm Adjustment

Proper tonearm adjustment is crucial for optimal sound quality and record longevity. Refer to the detailed

instructions in the included manual for precise adjustment of the counterweight, anti-skate, and tonearm height. These adjustments ensure the stylus tracks the record grooves accurately.

3. Operating Instructions

3.1 Power On/Off

To power on the turntable, rotate the power knob located on the left side of the unit clockwise. To power off, rotate it counter-clockwise until it clicks.

3.2 Speed Selection

Select the desired playback speed using the dedicated buttons: 33-1/3 RPM, 45 RPM, or 78 RPM. The corresponding indicator light will illuminate.

3.3 Pitch Adjustment

The pitch adjustment slider allows for fine-tuning of the platter speed. Use the +/-10% or +/-20% buttons to select the desired pitch range. The QUARTZ button engages a quartz lock for stable, accurate speed.

3.4 Playing a Record

1. Place a record on the platter and ensure the correct speed is selected.
2. Press the START/STOP button to begin platter rotation.
3. Raise the tonearm using the cueing lever.
4. Carefully position the tonearm over the desired groove on the record. The pop-up stylus target light can assist in low-light conditions.
5. Lower the tonearm gently using the cueing lever.
6. To stop playback, raise the tonearm, return it to the tonearm rest, and press the START/STOP button.

3.5 Reverse Play

The turntable supports reverse play. Refer to the full manual for specific instructions on engaging this feature.

4. Maintenance

4.1 Dust Cover

The turntable includes a removable hinged clear plastic dust cover to protect the unit when not in use. Regularly clean the dust cover with a soft, dry cloth to prevent dust accumulation.

4.2 Stylus Care

The AT95E cartridge is pre-installed. Regularly clean the stylus using a soft brush in a back-to-front motion. Replace the stylus when sound quality degrades or after approximately 300-500 hours of use to prevent damage to your records.

4.3 General Cleaning

Wipe the turntable chassis and platter with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.

5. Troubleshooting

5.1 No Sound or Low Volume

- Ensure the PHONO/LINE switch on the rear is set correctly for your audio system.
- Check all audio cable connections.
- Verify your amplifier or receiver input selection and volume levels.

5.2 Skipping or Distortion

- Check tonearm balance, tracking force, and anti-skate settings.
- Ensure the record is clean and free of dust or debris.
- Verify the stylus is clean and not worn. Replace if necessary.
- Ensure the turntable is on a stable, level surface.

5.3 Bluetooth Connection Issues

If experiencing issues with Bluetooth connectivity (on models supporting Bluetooth), ensure the turntable is in pairing mode and within range of the receiving device. Consult the Bluetooth pairing instructions in the full manual.

6. Specifications

- **Product Dimensions:** 13.86 x 17.72 x 6.1 inches
- **Item Weight:** 23.5 pounds
- **Connectivity Technology:** Wired
- **Maximum Rotational Speed:** 78 RPM
- **Special Feature:** Direct-Drive, Internal Stereo Phono Preamplifier, USB Output, Variable Pitch Control with Quartz Speed Lock
- **Material:** Aluminum
- **Included Components:** Turntable, Manual, Headshell/Cartridge, AC Line Cord, Dual RCA (Female) to 3.5 mm (1/8") Mini-Plug (Male) Stereo Adapter Cable, Dual RCA (Female) to 3.5 mm (1/8") Mini-Plug (Female) Stereo Adapter Cable, 45 RPM Adapter, USB Cable, Recording Software

7. Official Product Video Overview

Your browser does not support the video tag.

Video: An official overview of the Audio-Technica AT-LP120USB Direct-Drive Professional Turntable, highlighting its features and capabilities.

8. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Audio-Technica website. Keep your purchase receipt for warranty claims.

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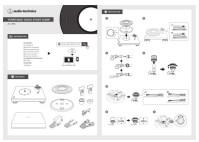
Related Documents - ATLP120USB

	Audio-Technica AT-LP5X Direct-Drive Turntable User Manual User manual for the Audio-Technica AT-LP5X Direct-Drive Turntable, covering setup, operation, and maintenance.
	Audio-Technica AT-LP120XBT-USB User Manual: Setup, Operation, and Specifications Comprehensive user manual for the Audio-Technica AT-LP120XBT-USB direct-drive turntable. Learn about setup, component identification, operation, Bluetooth connectivity, record playback, maintenance, and troubleshooting.
	Audio-Technica AT-LPA2 Belt-Drive Turntable: Quick Start Guide Quick start guide for the Audio-Technica AT-LPA2 belt-drive turntable. Learn how to set up, connect, play records, and clean your turntable with step-by-step instructions and detailed descriptions of diagrams.
	Audio-Technica AT-LP5X Turntable Quick Start Guide A concise guide to setting up, connecting, playing, and cleaning the Audio-Technica AT-LP5X direct-drive turntable. Includes essential steps for initial use and basic maintenance.
	Audio-Technica AT-LP70XBT Automatic Wireless Turntable Quick Start Guide This guide provides essential steps for setting up and operating the Audio-Technica AT-LP70XBT automatic wireless turntable. It covers preparation, wired and wireless connections, playback, auto and stop functions, cleaning, and stylus replacement, ensuring a smooth user experience.
	Audio-Technica AT-LP60XBT User Manual: Automatic Wireless Turntable Setup and Operation Comprehensive user manual for the Audio-Technica AT-LP60XBT automatic wireless turntable. Learn about setup, operation, Bluetooth connectivity, troubleshooting, and specifications.