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Audio-Technica AT-LP60X

Audio-Technica AT-LP60X Turntable System Instruction Manual

Model: AT-LP60X | Brand: Audio-Technica

INTRODUCTION AND OVERVIEW

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Audio-Technica AT-LP60X Fully Automatic Belt-Drive Stereo Turntable system. This bundle includes the AT-LP60X turntable, a pair of 2-Way 3.5-inch Near Field Studio Monitors, and a Vinyl Record Care System Package.

The AT-LP60X turntable is designed for ease of use, supporting both 33-1/3 and 45 RPM records. It features a built-in switchable phono pre-amplifier, allowing direct connection to various audio systems. Key design elements include a redesigned tonearm base and headshell for improved tracking and reduced resonance, and an external AC adapter to minimize noise. The turntable is equipped with an Integral Dual Magnet phono cartridge with a replaceable diamond stylus.



Image: The complete Audio-Technica AT-LP60X turntable system bundle, including the turntable, two studio monitors, and a vinyl record care kit.

SAFETY INFORMATION

Please read and understand all safety instructions before operating this product. Retain this manual for future reference.

- **Power Source:** Use only the supplied AC adapter. Ensure the voltage matches your local power supply.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.

- **Heat:** Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings.
- **Cleaning:** Unplug the unit from the wall outlet before cleaning. Use only a dry cloth.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Children:** Keep small parts and packaging materials away from children to prevent choking hazards.

PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer or Audio-Technica customer support.

- Audio-Technica AT-LP60X Fully Automatic Belt-Drive Stereo Turntable (Gunmetal)
- Dust Cover
- Platter with Drive Belt
- Felt Mat
- 45 RPM Adapter
- RCA Audio Cable (approx. 1.2 m / 3.9')
- AC Adapter
- 2-Way 3.5-inch Near Field Studio Monitor (PAIR)
- Vinyl Record Care System Package (includes Record Care Solution)



Image: The Audio-Technica AT-LP60X turntable with its dust cover and felt mat.



Image: A pair of 2-Way 3.5-inch Near Field Studio Monitors included in the bundle.



Image: The vinyl record care system package, including a record brush and cleaning solution.

SETUP

1. Turntable Assembly

1. **Place the Platter:** Carefully place the aluminum platter onto the center spindle. Ensure it sits flat.
2. **Install the Drive Belt:** Locate the drive belt on the underside of the platter. Align the belt with the motor pulley (a small brass or plastic cylinder) located in the top-left corner of the turntable base. Use the red tab to pull the belt over the motor pulley.
3. **Place the Felt Mat:** Lay the felt mat on top of the platter.
4. **Install the Dust Cover:** Insert the hinges of the dust cover into the slots at the back of the turntable base.

ANTI-RESONANCE

EVERYTHING YOU NEED TO
RECORD.

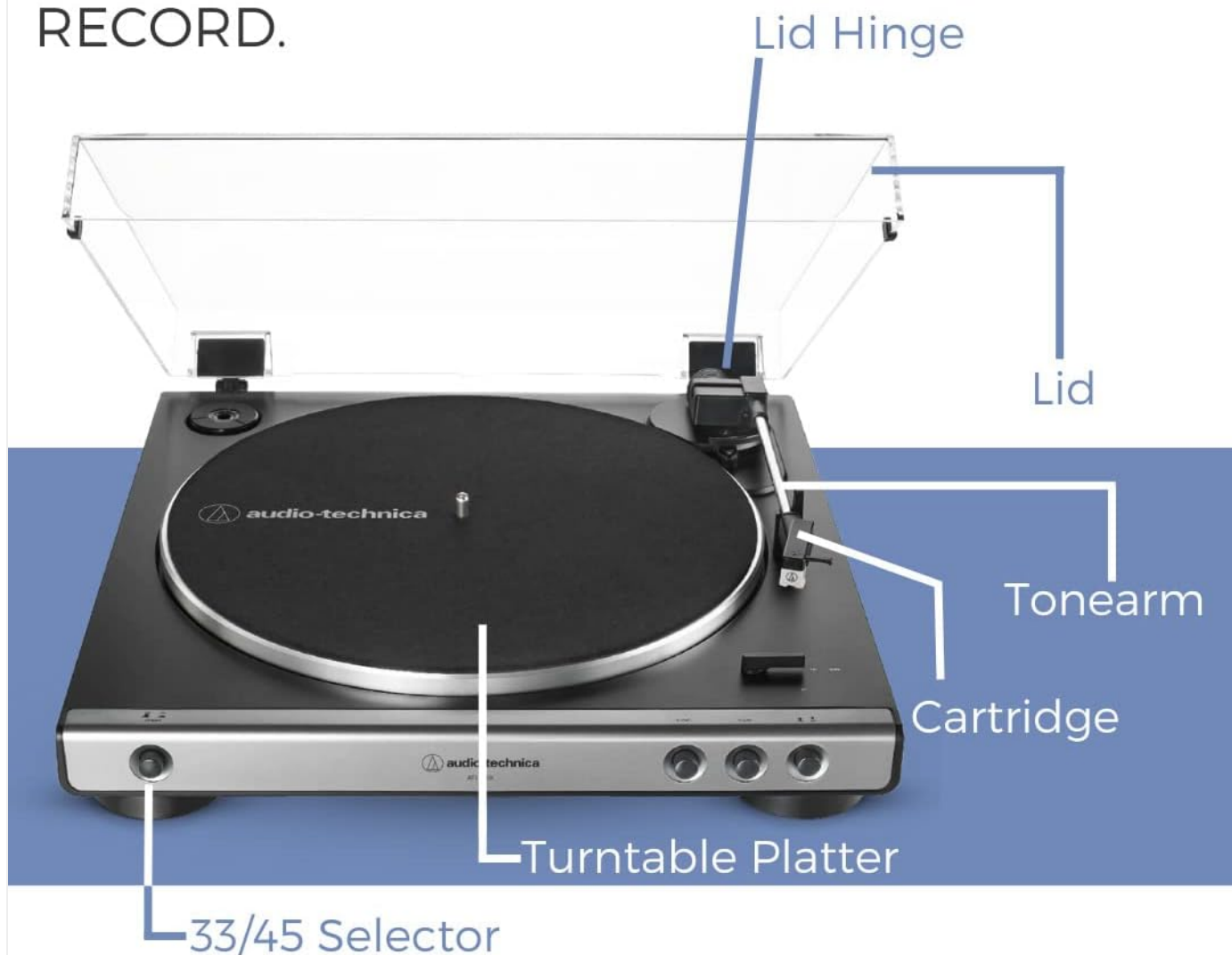


Image: Diagram showing key components of the AT-LP60X turntable, including the Lid Hinge, Lid, Tonearm, Cartridge, Turntable Platter, and 33/45 Selector.

2. Connecting the Turntable to Audio System

The AT-LP60X has a built-in phono pre-amplifier, allowing it to be connected directly to various audio inputs.

- **PHONO/LINE Switch:** On the back of the turntable, locate the PHONO/LINE switch.
 - Set to **PHONO** if connecting to an amplifier with a dedicated PHONO input.
 - Set to **LINE** if connecting to an amplifier, powered speakers, or other audio device with a LINE, AUX, or CD input.
- **RCA Connection:** Connect the supplied RCA audio cable from the turntable's RCA output jacks to the corresponding input jacks on your amplifier or powered speakers. Match red to red (right channel) and white to white (left channel).

3. Connecting the Studio Monitors

The included studio monitors are powered and can be connected directly to the turntable's LINE output (when the PHONO/LINE switch is set to LINE).

1. Connect the RCA audio cable from the turntable's LINE output to the RCA input jacks on the active (powered) studio monitor.
2. Connect the passive studio monitor to the active monitor using the speaker cable provided with the monitors.
3. Connect the power cable of the active studio monitor to a wall outlet.

4. Power Connection

Connect the supplied AC adapter to the DC input jack on the turntable, then plug the adapter into a wall outlet.

OPERATING INSTRUCTIONS

1. Playing a Record

1. **Power On:** Ensure the turntable and connected audio system/monitors are powered on.
2. **Select Speed:** Set the 33/45 RPM selector switch on the turntable to match the speed of the record you wish to play. Use 33 for LPs and 45 for singles. For 45 RPM singles with a large center hole, place the 45 RPM adapter on the center spindle.
3. **Place Record:** Place the record on the felt mat, centering it on the spindle.
4. **Start Playback:**
 - Press the **START** button. The platter will begin to rotate, the tonearm will automatically move to the lead-in groove of the record, and the stylus will lower.
 - Alternatively, you can manually lift the tonearm using the tonearm lift lever, position it over the desired track, and then lower the lever to gently drop the stylus onto the record.
5. **Adjust Volume:** Adjust the volume on your connected amplifier or studio monitors.

SUPERIOR SOUND



The AT-LP60X Stereo Turntable is powered by a DC servo-controlled motor. With the built-in phono pre-amplifier you can connect to your favorite audio devices to get the sweet sound of vinyl from anywhere.

Image: Close-up view of the turntable's tonearm and stylus positioned over a vinyl record, highlighting the precision of the audio playback.

2. Stopping Playback

- **Automatic Stop:** When the record finishes playing, the tonearm will automatically return to its rest position, and the platter will stop rotating.
- **Manual Stop:** To stop playback mid-record, press the **STOP** button. The tonearm will lift, return to its rest, and the platter will stop. You can also manually lift the tonearm and place it back on its rest.

3. Using the Studio Monitors

- **Power:** Use the power switch on the active monitor to turn them on or off.
- **Volume:** Adjust the volume knob on the active monitor to control the output level.
- **Inputs:** Ensure the audio source (turntable) is connected to the correct input on the active monitor.

4. Using the Vinyl Record Care System

Regular cleaning of your records helps maintain sound quality and prolong the life of your stylus.

1. Place the record on the turntable (do not start playback).
2. Apply a small amount of the record care solution to the cleaning brush or cloth.
3. Gently wipe the record surface in a circular motion, following the grooves. Avoid applying excessive pressure.
4. Allow the record to dry completely before playing.





Image: Bottle of Audio-Technica record care solution, essential for maintaining vinyl records.

MAINTENANCE

1. Cleaning the Turntable

- **Dust Cover and Cabinet:** Wipe gently with a soft, dry cloth. Do not use benzene, thinners, or other chemical cleaners.
- **Stylus:** Use a soft brush, like the one included in the care kit, to gently brush the stylus from back to front. Do not brush side to side. Clean regularly to prevent debris buildup.
- **Platter and Mat:** Remove the felt mat and wipe the platter with a dry cloth. The felt mat can be gently brushed or shaken to remove dust.

2. Stylus Replacement

The stylus (needle) is a consumable part and should be replaced after approximately 300-500 hours of use, or sooner if you notice a degradation in sound quality or visible damage.

1. Gently pull the old stylus unit downwards and forwards to remove it from the cartridge body.
2. Align the new replacement stylus (Audio-Technica ATN3600L or compatible) with the cartridge body and push it upwards and backwards until it clicks into place.
3. Avoid touching the stylus tip.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or very low sound.	<ul style="list-style-type: none"> • Incorrect PHONO/LINE switch setting. • Cables not connected properly. • Amplifier/speaker volume too low or off. • Speakers not powered on. 	<ul style="list-style-type: none"> • Ensure PHONO/LINE switch matches your amplifier input (PHONO for phono input, LINE for AUX/CD/Line input). • Check all RCA and power cable connections. • Increase volume on amplifier/speakers. • Ensure studio monitors are powered on.
Distorted sound.	<ul style="list-style-type: none"> • Dirty or worn stylus. • Dirty record. • Incorrect PHONO/LINE switch setting. • Turntable not on a stable surface. 	<ul style="list-style-type: none"> • Clean the stylus. Replace if worn. • Clean the record using the care system. • Verify PHONO/LINE switch setting. • Place turntable on a flat, stable surface away from vibrations.
Platter not rotating.	<ul style="list-style-type: none"> • Power cable not connected. • Drive belt dislodged or broken. • START button not pressed. 	<ul style="list-style-type: none"> • Check AC adapter connection to turntable and wall outlet. • Check if the drive belt is properly seated around the platter and motor pulley. Re-seat if necessary. • Press the START button.
Skipping or repeating.	<ul style="list-style-type: none"> • Dirty or damaged record. • Dirty or damaged stylus. • Turntable not level. 	<ul style="list-style-type: none"> • Clean the record. Inspect for scratches. • Clean the stylus. Replace if damaged. • Ensure the turntable is on a perfectly level surface.

SPECIFICATIONS

Feature	Detail
Model Name	AT-LP60X
Brand	Audio-Technica
Turntable Type	Fully Automatic, Belt-Drive
Motor Type	DC Servo-controlled
Speeds	33-1/3 RPM, 45 RPM
Cartridge Type	Integral Dual Magnet
Stylus	Replaceable Diamond Stylus (ATN3600L equivalent)
Pre-amplifier	Built-in Switchable Phono Pre-amp (PHONO/LINE)
Output Connectors	RCA (L/R)
Power Supply	AC Adapter (external)
Product Dimensions (Turntable)	24 x 18.1 x 16.3 inches (approximate, as per bundle dimensions)
Item Weight (Bundle)	19.1 pounds
Material	Plastic (Turntable chassis)
Color	Gunmetal (Turntable), Black (Monitors)
Compatible Devices	Speakers, Amplifiers, Receivers

WARRANTY INFORMATION

Audio-Technica products are manufactured to high quality standards and are warranted against defects in materials and workmanship. The specific warranty period and terms may vary by region and product.

For detailed warranty information, including coverage, duration, and how to make a claim, please refer to the warranty card included with your product or visit the official Audio-Technica website. Keep your proof of purchase for warranty service.

SUPPORT

Should you encounter any issues or require further assistance with your Audio-Technica AT-LP60X turntable system, please utilize the following resources:

- **Official Audio-Technica Website:** Visit www.audio-technica.com for product manuals, FAQs, software downloads, and support contact information.
- **Customer Service:** Contact Audio-Technica customer support directly for technical assistance or service inquiries. Contact details can typically be found on their official website under the "Support" or "Contact Us" section.
- **Retailer Support:** For issues related to your purchase, contact the retailer from whom you purchased the product.

When contacting support, please have your product model number (AT-LP60X) and purchase date readily available.



