
AT-LP240-USB Direct-Drive Turntable (USB and Analog)



Installation and Operation

Direct-Drive Professional USB and Analog Turntable System

Safety instructions



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Where a mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
16. Please keep the unit in a good ventilation environment.
17. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on apparatus.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



Caution: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

Caution: To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Introduction

Thank you for purchasing the AT-LP240-USB Direct-Drive Turntable (USB and Analog). This extremely accurate high-quality turntable is designed primarily for music lovers to play records with their audio systems. As an added benefit, the turntable offers a USB output that allows direct connection to your computer for easy LP-to-digital conversion. The turntable also features a built-in switchable phono/line pre-amp that allows connection to a stereo system equipped with either a phono or line-level input.

The AT-LP240-USB Direct-Drive Professional USB and Analog Turntable System features the following:

- USB output—no special drivers required for direct connection to your computer
- Direct drive high-torque 16-pole motor
- Selectable 33/45/78 RPM speeds
- Selectable internal stereo phono pre-amplifier
- S-shaped tone arm assembly with:
 - Adjustable counterweight
 - Anti-skate adjustment
 - Tone arm height adjustment and lock
 - Tone arm lift with hydraulic action and lift lever
 - Tone arm rest with locking mechanism
- Dedicated ground lug for tone arm grounding
- Stroboscopic platter and speed accuracy indicator
- Damped cast aluminum record platter with slip mat
- Start/stop button
- Removable stylus target light
- 45-RPM adapter
- Adjustable feet for leveling
- Removable dust cover

To assure maximum satisfaction from this product, please read the information and follow the instructions presented in this manual. Please keep the manual in an accessible location for future reference.

Unpacking

Carefully unpack the turntable and verify that the following parts are included and intact:

- Slip mat (above the dust cover)
- Dust cover (above the turntable)
- Platter (under the turntable)
- 45 RPM adapter (accessory section)
- Counterweight (accessory section)
- Headshell (accessory section)
- Power cord (accessory section)
- USB cable
- Dual RCA (female) to 1/8" (3.5 mm) mini-plug (male) stereo adapter cable
- Dual RCA (female) to 1/8" (3.5 mm) mini-plug (female) stereo adapter cable
- Dual RCA (male) cable with integrated ground wire
- Stylus target light
- Audacity software (CD)

IT IS RECOMMENDED THAT ALL PACKAGING MATERIALS BE SAVED FOR POSSIBLE FUTURE STORAGE, MOVING OR SHIPPING.

Figure 1



1. **POWER DIAL**
Controls power to the unit.
2. **START/STOP BUTTON**
Engages and disengages the motor/platter.
3. **SPEED ACCURACY LEGEND**
Points out the largest strobe dot; the largest strobe dots on platter edge (5) should appear to be stationary if your turntable platter is rotating at the precise selected speed (33, 45 or 78 RPM).
4. **PLATTER SPEED BUTTONS**
Select 33 or 45 RPM platter speed. (Note: 78 RPM is selected by pressing the 33 and 45 buttons simultaneously.)
5. **PLATTER**
Cast aluminum platter mounts directly to center spindle/motor shaft.
6. **STROBE DOTS (on platter edge)**
Operate in conjunction with stroboscopic light located under the power dial (1) to provide visual indication of accurate platter speeds.
7. **CENTER SPINDLE**
Precision-machined platter mount on motor shaft.
8. **REMOVABLE STYLUS TARGET LIGHT**
Provides illumination directed at the stylus position for easier cueing in low light. Easily plugs into jack on top of turntable deck.
9. **ADJUSTABLE FEET**
Adjustable feet are provided to keep the platter level.
10. **HEADSHELL**
Standard, interchangeable stereo cartridge headshell.
11. **HEADSHELL LOCKING RING**
Rotate counter-clockwise (to the left) to draw the inserted headshell firmly into its seated, locked position. Rotate the ring a full turn to the right to permit removal of the headshell.
12. **TONE ARM**
S-shaped tone arm geometry reduces tracking error.
13. **TONE ARM ASSEMBLY HEIGHT ADJUST**
Raises and lowers the entire tone arm assembly to allow the tone arm to remain parallel to the record surface.
14. **TONE ARM LIFT**
Elevates tone arm above record surface.
15. **TONE ARM REST WITH LOCKING CLAMP**
Locking clamp secures tone arm during transport.
16. **TONE ARM LIFT CONTROL LEVER ("Cueing Lever")**
Controls action of tone arm lift. (Note: Lift mechanism is hydraulically damped to slow tone arm descent.)
17. **ANTI-SKATE CONTROL**
Applies a small outward force to the tone arm, counteracting the tendency of the tone arm to move inward toward the center of the record.
18. **TONE ARM ASSEMBLY HEIGHT LOCK**
(Hidden under counterweight in drawing)
Locks the tone arm height setting. (Always fully unlock before attempting to make a height adjustment.)
19. **COUNTERWEIGHT**
Balances the tone arm and provides adjustment for proper downward tracking force on the stylus.

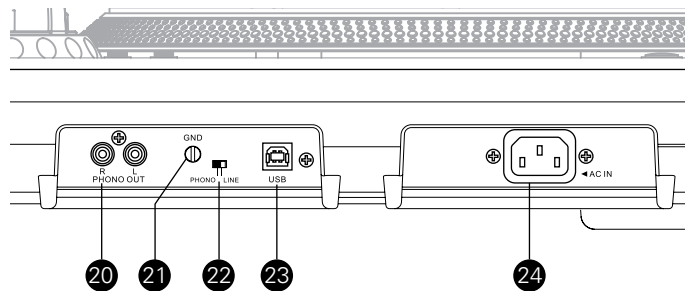
REMOVALBE DUST COVER (not shown)

Shields AT-LP240-USB from dust when the turntable is not in use.

Rear View Diagram

Figure 2

20. PHONO/LINE OUTPUT RCA JACKS
Allows connection to a stereo system equipped with either a phono- or line-level input
21. GROUND LUG (threaded thumb screw)
For connection to a pre-amp.
22. PRE-AMP SELECTOR SWITCH
Allows the internal stereo phono pre-amp to be bypassed when the turntable is used with equipment having magnetic phono inputs.
23. USB OUTPUT
Use this output to connect your turntable to the USB input of your computer. Please see included software guide for instructions.



24. AC POWER CORD CONNECTOR
Use to connect the included power cord.

Initial Setup

Assembling the Turntable

The AT-LP240-USB requires some assembly before first use. **IMPORTANT:** Do not connect the AC power cord until assembly is complete.

Setting the Pre-amp Selector Switch

For increased flexibility of use, this turntable has an internal stereo phono pre-amplifier. The pre-amp selector switch located in the rear panel of the turntable [See Figure 2, page 4, #22], selects the internal stereo pre-amplifier (LINE), or bypasses the pre-amp (PHONO) for use with systems having specialized magnetic phono input jacks. The audio output cable's Red RCA plug is the Right channel; the White plug is the Left channel.

If the system you are using has a PHONO input, set the pre-amp selector switch to the PHONO position and connect the turntable's output cables to the PHONO inputs on your system, observing Red for Right channel and White for Left channel.

If your system does not have a PHONO (magnetic phono) input, set the pre-amp selector switch to LINE and connect the turntable's output cables to the Auxiliary (AUX) or other high-level inputs on your system, observing Red for Right channel and White for Left channel.

When using the turntable with a computer sound card, set the switch to LINE and connect the turntable to the audio line input on the computer sound card. Note: An audio adapter (not included) may be required to interface the two RCA jacks of the turntable output cable to the computer sound card input.

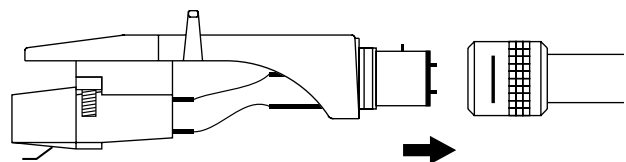
Assembling the Tone Arm

Note: A standard stereo cartridge headshell is supplied with the AT-LP240-USB. To mount your cartridge (not included) to the headshell, follow instructions included with your cartridge.

1. Remove the vinyl tie used to secure the tone arm during shipment. Temporarily secure the tone arm in the tone arm rest with the locking clamp. [Figure 1, page 3, #15.]
2. Mount your cartridge (not included) to the supplied headshell, follow instructions included with your cartridge.
3. Attach the headshell assembly by inserting it into the socket at the front of the tone arm [See Figure 3.] (It's good practice always to hold a headshell assembly by the left and right edges of the headshell to reduce the possibility of damaging the stylus or disrupting the cartridge wiring.)
4. While holding the headshell in position, rotate the headshell locking ring counter-clockwise (to the left). As the ring turns, it pulls the headshell into its seated position. (Rotate the ring a full turn to the right to permit removal of the headshell.)

5. With its black dial toward the front, use a screwing motion to attach the counterweight to the arm extending back from the tone arm pivot [Figure 1, page 3, #19]; the counterweight will engage the spiral groove in the rear arm section and move forward.

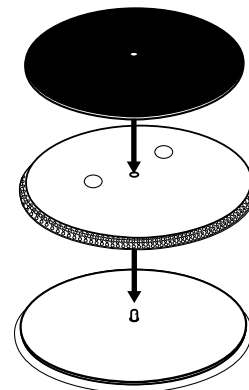
Figure 3 – Headshell



Assembling the Turntable Platter and Slip Mat

1. Carefully place the turntable platter on the center spindle, making certain the platter is fully seated on the spindle. [See Figure 4.]
2. Place the soft black slip mat on top of the platter.

Figure 4 – Platter and Slip Mat



The Dust Cover

The dust cover sits on top of the turntable without a hinge. It is not intended to be used while playing records.

To place the dust cover on the turntable, carefully lower it onto the turntable so that the Audio-Technica logo is facing the front of the unit. To remove the dust cover from the turntable, carefully lift straight up until the cover is clear of the unit.

Setting Tone Arm Balance and Tracking Force

To allow the cartridge to properly track in a record, the tone arm balance and tracking force must be carefully set to the cartridge manufacturer's specifications. Failure to properly set up the tone arm assembly can cause damage to the cartridge stylus and/or records.

(Note: Once the tone arm locking clamp has been released, *take extreme care not to damage the stylus*. Do not allow it to drag or scrape across the slip mat.)

Tone Arm Setup:

1. Raise the tone arm lift.
2. Set the anti-skate adjustment to "0". [Figure 1, page 3, #17.]
3. Remove the protective stylus cover guard.
4. While gently holding the headshell to stabilize the tone arm, release the tone arm locking clamp. At this point, the tone arm is unbalanced and free to swing.
5. While gently holding the headshell, carefully rotate the counterweight until the tone arm is horizontally balanced and hovers freely just above the platter without touching the platter surface.
6. Lock the tone arm back into the tone arm rest.
7. While holding the counterweight steady, and without any rotation, carefully rotate only the black stylus force gauge ring (which turns independently of the counterweight) until the "0" on the gauge ring lines up with the centerline marked along the top of the rear arm.
8. Refer to the cartridge manufacturer's specifications for recommended tracking force. Rotate the entire counter-weight counterclockwise without touching the black gauge ring, moving the counterweight forward, until the desired value on gauge ring lines up with the centerline marked on the rear arm. Refer to the specifications section for tracking force value for the cartridge that shipped with the turntable.

Setting Anti-skate

A small outward "anti-skating" force can be applied to the tone arm to compensate for the "skating" force that pulls the arm toward the center of the record. For best performance during normal turntable use, set the anti-skate control knob [Figure 1, page 3, #17] to the same setting as the tracking force dial. Refer to the specifications section for tracking force value of your cartridge.

Setting Tone Arm Assembly Height

The tone arm assembly height adjustment allows for the tone arm to be positioned parallel to the record surface, when using extra-tall cartridge bodies, thick slip mats or thick records (i.e. old 78's). To raise or lower the tone arm assembly: First, loosen the height lock [Figure 1, page 3, #18]; then rotate the height adjust dial [Figure 1, page 3, #13] located at the base of the tone arm assembly. The scale is calibrated in millimeters (mm). When finished, tighten the height lock to secure the adjustment.

Connections

Connecting to Audio Source

Connect the included dual RCA (male) interconnect cable to the RCA jacks on the back of the turntable. Connect the other end of the RCA interconnect cable to the appropriate input jacks on your mixer, amplifier, soundcard or other device based on the setting of the pre-amp selector switch. (See Setting the Pre-Amp Selector Switch, page 4.) Firmly connect the Red RCA plug to the right channel input and the White RCA plug to the left channel input. Note: Adapter plugs might be required to connect the turntable to computer sound cards and other devices.

Ground Wire

To isolate ground loops or low-level hum from your system, connect the provided ground wire between the AT-LP240-USB turntable and your receiver, pre-amp, phono pre-amp, computer, or other connected equipment.

Note: The ground wire is a small black wire terminated with a spade lug; it is incorporated with the provided dual RCA (male) interconnect cable. The ground wire connection point is the silver ground lug (threaded thumb screw) on the back of the turntable to the right of the RCA inputs.

Connecting to Computers with USB Input

Note: When using the USB cable, always set the AT-LP240-USB turntable's Pre-amp Selector Switch to the "LINE" position. (Switch is located on the back of the turntable.)

The USB cable (included) connects your AT-LP240-USB turntable to your computer without need for special drivers. Refer to included software guide (also available online at www.audio-technica.com) before connecting the turntable to your computer.

Connecting to Computers or Audio Devices with 3.5 mm Input

Note: When using either RCA adapter cable, always set the AT-LP240-USB turntable's Pre-amp Selector Switch to the "LINE" position. (Switch is located on the back of the turntable.)

The AT-LP240-USB connects without adapters to devices equipped with RCA connectors. For maximum flexibility, we have included two adapter cables to fit other popular audio inputs.

The first of these adapter cables – dual RCA (female) to stereo 3.5 mm mini-plug (male) – is designed to fit most popular computer audio inputs. It may also be used to connect the turntable's RCA output to other equipment, including:

- a stereo/boombox equipped with a 3.5 mm minijack
- input powered speakers equipped with a 3.5 mm minijack
- input a mixer or PA system equipped with a 3.5 mm minijack

The second included adapter cable – dual RCA (female) to stereo 3.5 mm mini-plug (female) – permits connection of the turntable output to amplified speakers or similar devices. The 3.5 mm stereo minijack on the cable adapter accepts stereo mini-plugs.

To use either adapter cable, connect the turntable's red and white RCA plugs to the cable adapter's RCA jacks.

Note: If connection is desired to a mono amplifier/speaker, make certain to use a stereo-to-mono adapter, available from your dealer or an electronic parts store. Inserting a mono plug in the stereo jack will disable one of the stereo channels. Other adapter cable configurations will be available from dealers and parts stores for connecting to devices needing different terminations.

Connecting AC Power Cord

Finally, after all other connections are made, attach the included AC power cord to the turntable; note that the small connector only goes in one way. Then connect the power cord's plug to a convenient AC outlet.

Operation

For best results, do not install or operate this unit near conditions of heat, moisture, dust, or heavy vibrations. (Note: Bright fluorescent lights may affect the visibility of the speed-indicating strobe dots. If this is a problem, simply cover the area with your hand, an album cover, etc.)

Preparing to Play

1. If there is a stylus guard on your stylus assembly, remove it; unlock the tone arm rest if it is locked.
2. Turn the power dial to the ON position. The speed selector and strobe illuminator will light up.
3. If desired, plug in the stylus target light for illumination of the stylus tip position on the record.
4. Place a record on the slip mat, lining up its center hole with the center spindle. For 45 RPM records, place the 45 RPM adapter on the center spindle before placing the record on the platter.
5. Set the platter rotation speed (33/45/78) to match that of the record. (Note: To set the platter speed for 78 RPM, push both the 33 and 45 RPM buttons simultaneously.)

Playing the Record

1. Press the start/stop button; the platter begins to rotate.
2. Raise the tone arm by lifting the tone arm lift control lever to the UP position.
3. Position the tone arm over the desired location (groove) on the record.
4. Lower the tone arm by moving the tone arm lift control lever to the DOWN position. The tone arm descends slowly onto the record and play begins.

– or –

Use the finger-lift on the headshell assembly to position the tone arm over the desired location on the record. Carefully lower the tone arm to the record surface.

Using Speed Accuracy Sensor

1. As illuminated by the blue light coming from beneath the power dial, observe the strobe dots on the edge of the platter. If the largest strobe dot appears to be stationary, the platter is moving at the precise rated speed. If the dot appears to be moving to the right, the platter is moving below rated speed; if the dot appears to be moving to the left, the platter is moving above rated speed.
2. This indicator is provided to visually assure you that your turntable is operating properly at the speed that you've selected. If at any time the speed accuracy indication shows incorrect speed, please contact Audio-Technica Service for further assistance.

Suspending or Ending Play

1. To suspend play, lift the tone arm with the cueing lever.
2. When play is finished, raise the cueing lever, move the tone arm to the rest position and secure the tone arm with the tone arm locking clamp.
3. If using the stylus target light, turn it off by removing it from the jack.
4. Press the start/stop button to apply the brake and stop the platter rotation.
5. Turn the power dial to the OFF position.

Troubleshooting

Turntable operates but emits no sound or not enough sound.

1. The stylus guard is still in place. Remove the stylus guard.
2. The tone arm is in the lift position. Lower the tone arm.
3. Mixer/amplifier (system) controls are set incorrectly: wrong input selected, tape monitor on, speakers switched off, etc. Verify proper control settings.
4. Stylus is broken or missing. Check the stylus assembly and replace if necessary.
5. The stylus assembly may not be fully seated in the cartridge body. Check the cartridge and adjust if necessary.
6. The turntable pre-amp selector switch is set in the wrong position. Verify that it is set for proper output to match mixer/amplifier input.
 - No sound/very weak sound: Phono setting into an Aux/Line input.
 - Very loud/distorted sound: Line setting into a Phono input.

Note: If using in USB or line mode, the pre-amp selector switch must be in the Line position.

Turntable operates but stylus "skips" across record.

1. The stylus guard is still in place. Remove the stylus guard.
2. The tracking force is set too light. Set tracking force per cartridge manufacturer's recommendation.
3. The tracking force is set too heavy (stylus assembly is bottoming out on record). Set tracking force per cartridge manufacturer's recommendation.
4. The anti-skate control is set improperly. Verify anti-skate is set for same value as cartridge tracking force.
5. Turntable is picking up excessive vibrations from floor, walls, or nearby speakers. Reduce vibrations or place turntable on sturdy/solid surface.

Record sounds too fast or too slow.

1. Turntable is set for wrong speed. Make proper speed selection for record type being played with platter speed buttons.

Strobe dots are difficult to see and/or stylus illuminator is very dim.

1. Excessively bright or fluorescent light interferes with strobe indicator. Hold hand, record jacket, etc. over strobe indicator to shield it from bright light.

- When lifting or replacing the turntable cover, handle it gently.
- Do not touch the stylus tip with your fingers; avoid bumping the stylus on the turntable mat or a record's edge.
- Clean the stylus tip frequently, following the stylus manufacturer's cleaning instructions.
- If you use a stylus cleaning fluid, use it **sparingly**, while referring to the manufacturer's cleaning instructions.
- Wipe the dust cover and turntable housing gently with a soft cloth. Use a slightly damp cloth to clean the turntable and dust cover.
- **Never** apply harsh chemicals or solvents to any part of the turntable system.
- Prior to moving the turntable, always unplug it from the AC outlet and lock the tone arm on the tone arm rest.

Specifications†

Type	3-Speed, fully manual operation
Motor	16-pole, 3-phase, brushless DC motor
Drive method	Direct drive
Speeds	33-1/3 RPM, 45 RPM, 78 RPM
Turntable platter	332 mm dia. die-cast aluminum
Starting torque	>4.5 kgf.cm
Braking system	Electronic brake
Wow and flutter	< 0.1% WRMS (JIS WTD) with 33 RPM
Signal-to-noise ratio	> 55 dB (DIN-B)
Output level	
Pre-amp "PHONO"	2.5 mV nominal at 1 kHz, 5 cm/sec (HP-4005)
Pre-amp "LINE"	150 mV nominal at 1 kHz, 5 cm/sec (HP-4005)
RIAA	20-20kHz, +1/-3dB (In: 1.5mV 1kHz)
Tone arm type	Static balanced S-shaped tone arm with detachable headshell
Effective arm length	230 mm
Overhang	15 mm
Height of tonearm adjustment range	0-6 mm
Tracking error angle	Less than 3 degrees
Applicable cartridge weight	
Without headshell	3.5 - 8.5 g
With headshell	13 - 18 g
Anti-skating range	0-3 g

USB function	A/D, D/A Computer interface	16 bit 44.1 kHz or 48 kHz USB selectable USB 1.1 Compliant Windows XP or above or MAC OSX or above
Power supply requirements		120V AC, 60 Hz
Power consumption		11W
Dimensions		450.0 mm (17.72") W x 353.0 mm (13.90") D x 166.5 mm (6.56") H
Weight		12.2 kg (26.9 lbs.)
Accessories included		Slip mat; dust cover; platter; 45 RPM adapter; counterweight; headshell; power cord; USB cable; dual RCA (female) to 1/8" (3.5 mm) mini-plug (male) stereo adapter cable; dual RCA (female) to 1/8" (3.5 mm) mini-plug (female) stereo adapter cable; dual RCA (male) cable with integrated ground wire; stylus target light; Audacity software (CD)

† Specifications are subject to change without notice.

Register your product online at www.audio-technica.com

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