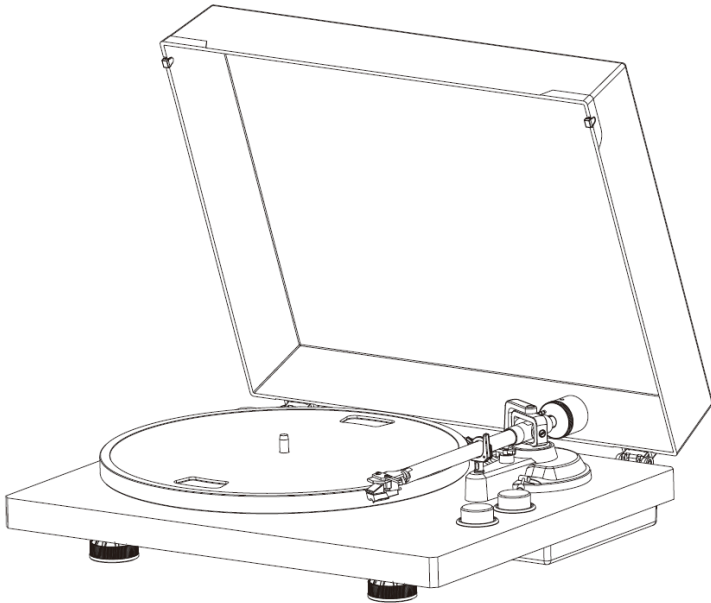# Lenco

Model: LBT-188 (V2) / LBT-189 / LBT-288

User manual
Turntable with bluetooth transmission

CAUTION:
Usage of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

PRECAUTIONS BEFORE USE

KEEP THESE INSTRUCTIONS IN MIND:
1. Do not cover or block any ventilation openings. When placing the device on a shelf, leave
   5 cm (2") free space around the whole device.
2. Install in accordance with the supplied user manual.
3. Keep the device away from heat sources such as radiators, heaters, stoves, candles and other heat-generating products or naked flame. The device can only be used in moderate climates. Extremely cold or warm environments should be avoided. Working temperature between 0° and 35°C.
4. Avoid using the device near strong magnetic fields.
5. Electrostatic discharge can disturb normal usage of this device. If so, simply reset and restart the device following the instruction manual. During file transmission, please handle with care and operate in a static-free environment.
6. Warning! Never insert an object into the product through the vents or openings. High voltage flows through the product and inserting an object can cause electric shock and/or short circuit internal parts. For the same reason, do not spill water or liquid on the product.
7. Do not use in wet or moist areas such as bathrooms, steamy kitchens or near swimming pools.
8. The device shall not be exposed to dripping or splashing and make sure that no objects filled with liquids, such as vases, are placed on or near the apparatus.
9. Do not use this device when condensation may occur. When the unit is used in a warm wet room with damp, water droplets or condensation may occur inside the unit and the unit may not function properly; let the unit stand in power OFF for 1 or 2 hours before turning on the power: the unit should be dry before getting any power.

10. Although this device is manufactured with the utmost care and checked several times before leaving the factory, it is still possible that problems may occur, as with all electrical appliances. If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the main power socket immediately.
11. This device must operate on a power source as specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
12. Keep away from animals. Some animals enjoy biting on power cords.
13. To clean the device, use a soft dry cloth. Do not use solvents or petrol based fluids.
To remove severe stains, you may use a damp cloth with dilute detergent.
14. The supplier is not responsible for damage or lost data caused by malfunction, misuse, modification of the device or battery replacement.
15. Do not interrupt the connection when the device is formatting or transferring files. Otherwise, data may be corrupted or lost.
16. If the unit has USB playback function, the USB memory stick should be plugged into the unit directly. Don't use an USB extension cable because it can cause interference resulting in failing of data.
17. The rating label has been marked on the bottom or back panel of the device.
18. This device is not intended for use by people (including children) with physical, sensory or mental disabilities, or a lack of experience and knowledge, unless they're under supervision or have received instructions about the correct use of the device by the person who is responsible for their safety.
19. This product is intended for non professional use only and not for commercial or industrial use.
20. Make sure the unit is adjusted to a stable position. Damage caused by using this product in an unstable position vibrations or shocks or by failure to follow any other warning or precaution contained within this user manual will not be covered by warranty.
21. Never remove the casing of this device.
22. Never place this device on other electrical equipment.
23. Do not allow children access to plastic bags.
24. Only use attachments/accessories specified by the manufacturer.

25. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as the power supply cord or the plug, when liquid has been spilled or objects have fallen into the device, when the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
26. Long exposure to loud sounds from personal music players may lead to temporary or permanent hearing loss.
27. If the product is delivered with power cable or AC power adaptor:
    - If any trouble occur, disconnect the AC power cord and refer servicing to qualified personnel.
    - Don't step on or pinch the power adaptor. Be very careful, particularly near the plugs and the cable's exit point. Do not place heavy items on the power adaptor, which may damage it. Keep the entire device out of children's reach! When playing with the power cable, they can seriously injure themselves.
    - Unplug this device during lightning storms or when unused for a long period.
    - The socket outlet must be installed near the equipment and must be easily accessible.
    - Do not overload ac outlets or extension cords. Overloading can cause fire or electric shock.
    - Devices with class 1 construction should be connected to a main socket outlet with a protective earthed connection.
    - Devices with class 2 construction do not require a earthed connection.
    - Always hold the plug when pulling it out of the main supply socket. Do not pull the power cord. This can cause a short circuit.
    - Do not use a damaged power cord or plug or a loose outlet. Doing so may result in fire or electric shock.
28. If the product contains or is delivered with a remote control containing coin/cell batteries:
    Warning:
    - "Do not ingest battery, Chemical Burn Hazard" or equivalent working.
    - [The remote control supplied with] This product contains a coin/button cell battery. If the battery is swallowed, it can cause severe internal burns in just
      2 hours and can lead to death.
    - Keep new and used batteries away from children.

- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

29. Caution about the use of Batteries:
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery cannot be subjected to high or low extreme temperatures, low air pressure at high altitude during use, storage or transportation.
- Replacement of a battery with an incorrect type that can result in an explosion or the leakage of flammable liquid or gas.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or that leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Attention should be drawn to the environmental aspects of battery disposal.

INSTALLATION
- Unpack all parts and remove protective material.
- Do not connect the unit to the mains before checking the mains voltage and before all other connections have been made.

COMPONENTS, FEATURES AND CONNECTIONS

1. Power & Bluetooth indicator
2. Power button
3. Counterweight
4. Anti-skating Stub
5. Turntable Platter
6. Tonearm lift lever
7. Tonearm rest
8. 33/45 selector
9. Tonearm
10. Stop/Start knob
11. Cartridge
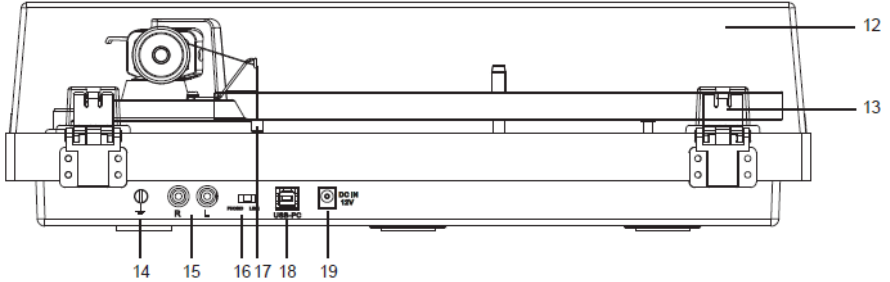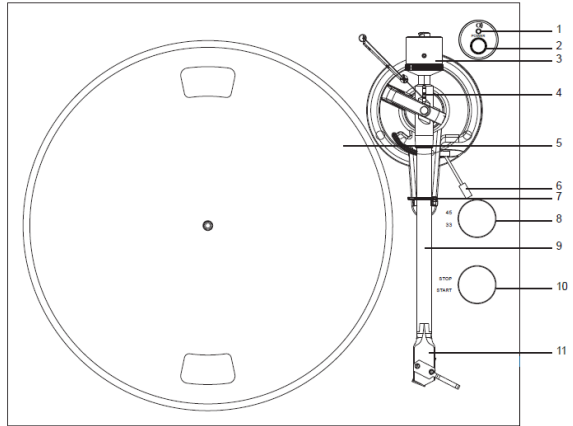
12. Lid
13. Lid Hinge
14. Ground Connector
15. PHONO & Line Out Jacks
16. PHONO & Line Out Switch

17. Anti-skating Weight
18. USB-PC port
19. AC-DC Power Jack

Please check thoroughly and make sure you find the following items that come along with this package:

1) Unit
2) Adaptor with EU-UK plug-end
3) Counterweight
4) Platter with Belt
5) 45 RPM Adaptor
6) Turntable mat
7) Instruction Manual
8) Cartridge Alignment Protractor
9) USB-PC Cable
10) 2pcs lid spare rubber
11) Anti-skating Weight
12) Line out cable

This turntable is supplied with a factory fitted and adjusted cartridge.

**The following instructions for adjusting the cartridge are provided in case the cartridge is replaced by a different model at a later date.

Installing the Lid

Install the **Lid** carefully over the hinge prongs.

Turntable Platter and Belt Setup

1. Install the drive belt over the inner ring under the platter and make sure it won't fall off during the setup.
2. Place the platter through the turntable spindle, then rotate the platter until you see the drive motor pulley through the window at the top left corner.
3. Carefully grab the drive belt and put it around the slot of motor pulley.
4. Connect the power adapter to the turntable and power on the turntable.
5. Set the Motor Start/Stop switch to the Start position to see if the platter
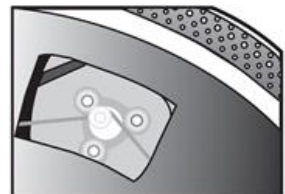
motor spins. If the platter does not spin, try the steps listed above again.

Cartridge Down force Adjustment

Counterweight
Downforce scale ring
Center line
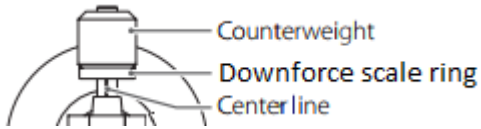
The **Counterweight** supplied is suitable for cartridges weighing between 3.0-6.0g.

- Gently push and turn the Counterweight onto the rear of the tonearm (with the scale facing toward the front of the turntable).
- Remove the cartridge protection cap.
- Lower the tonearm lift and position the cartridge in the space between tonearm rest and platter.
  Carefully rotate the **Counterweight** until the tonearm balances out. The tonearm should return to the balanced position if it is moved up or down. This adjustment must be done carefully.


- Once the tonearm is correctly balanced return it to its' rest. Hold the **Counterweight** without moving it, and gently rotate the **Down force Scale** ring until the zero is in line with black line on the rear of the **tonearm**. Check whether the arm still balances out.
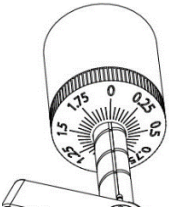
- Rotate the counterweight counter clockwise (seen from the front) to adjust the down force according to the cartridge manufacturer's recommendations. One mark on the scale represents 0.05g of down force.
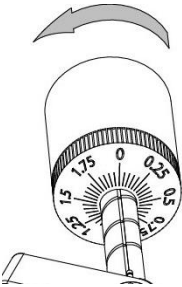
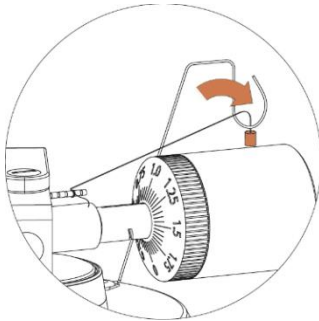**NOTE:** The recommended down force for the factory fitted cartridge is 3.0±0.5g.

Locate the anti-skating weight

You will find a anti-skating weight with small fishing line from the package, please follow below steps to locate the anti-skating weight:

1. Slip the looped end of the fishing line over the anti-skating weight adjustment stub and into Groove 3rd (the correct anti-skating force for the factory-fitted cartridge).
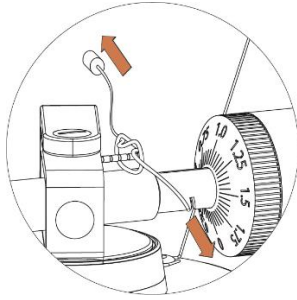
2. Pull the anti-skating weight slightly to let the tie of the fishing line move to the stub.

3. Lift the anti-skating weight over the anti-skating weight wire support. The anti-skating weight should now be dangling in free space to the left of support.

Slip the loop of the anti-skating weight's thread over the **3nd** groove of the stub to set the correct anti-skating force for the factory-fitted cartridge. Feed the thread through the loop of the wire support.

Anti-skating force adjustment

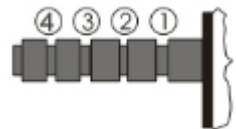The anti-skating force must be adjusted corresponding to the down force as follows:

Down force	Groove in the stub
2 - 2.5g	1 st from bearing rings
2.5 - 3g	2 nd " " "

| 3 - 3.5g | 3rd " " " |
| 3.5 - 4g | 4 th " " " |

Slip the loop of the anti-skating weight's thread over the **3rd** groove of the stub to set the correct anti-skating force for the factory-fitted cartridge. Feed the thread through the loop of the wire support.

Stereo System connection

RCA Jacks

· The RCA Jacks of this unit are shared as both the Phone output jacks and the Line output jacks. They are determined by the Phono/Line Switch.

· When used as a line output, the jacks output analog line-level signals and could be connected directly with a pair of active speakers or the appropriate input of your stereo system. When used as a Phono output, they should be connected to the phono pre-amplifier or the phono input of the stereo system.

· The Red plug connects with the Right channel and the White plug connects with the Left channel.

Note:

· If the Phono/Line switch is set at LINE position but RCA jacks connected to the stereo system's phono input, the sound might be distorted due to input overload and could damage your stereo system.

· If the Phono/Line switch is set at PHONO position but RCA jacks connected to the stereo system's line input, the volume will be very low due to lacking signal pre-amplification.

RCA Jack is not designed to be connected directly to the passive/unpowered speakers and if it does, the volume will be very low.

Main Power Connection

The power adaptor is in the foam packing material. Unpack the power adaptor and plug the small end into the **DC power jack** located at the back side of the turntable. Plug the power adaptor into your power outlet.

Operation

Turntable Operation

1. Connect the included power adapter to unit and Press the power button (2) to power ON the turntable.
2. Remove the needle cover from the cartridge.
3. Place the slipmat on the platter and place a record on the slipmat. If using 45 RPM records, put the 45 RPM adapter on the center spindle before placing the record on the platter.
4. Set the 33/45 RPM Selector according to the type of record.
5. Turn the Start/Stop dial to the Start position to begin spinning the platter.
6. Unlock the arm clip and set the Lift Lever to the up position.
7. Position the tonearm over the desired location (groove) on the record.
8. Move the tonearm lift lever to the down position to move the tonearm toward the record. Alternatively, place the needle over the desired location on the record.
9. Carefully lower the tonearm on the record.
10. When you are finished playing the record, raise the tonearm, return it to rest on the arm clip, and turn the Start/Stop dial to the Stop.
11. Press the power button to turn off the power.

Bluetooth Operation

This unit has a Bluetooth transmitter to send the sound to a Bluetooth speaker of headphone wirelessly.

1. Power on your Bluetooth speaker and ensure it is in pairing mode.
2. Power ON the turntable with the power button (2). The LED indicator (1) will

first light to RED and then will flash in blue during Bluetooth searching of the external speaker or headphone.

Note: if you want to disable the Bluetooth searching function you can press the Power button for 3 seconds, then the Led light indicator will light to RED.

3. When pairing, the Blue LED light will flash twice per second, then change to be long Lighting Blue when paired;

   Note: This unit will connect to the closest Bluetooth. If after 2 minutes no Bluetooth speaker can be found to pair with, the Bluetooth transmitter will become inactive and the LED color will turn to red.

4. To disconnect pairing, long press power button for 3 seconds or turn off Bluetooth pairing on your External Bluetooth speaker or headphone..

*"This product has a bluetooth **transmission** function, **you can not receive any bluetooth sound on it**: this means that you can transmit wirelessly a bluetooth sound signal to an external device like a bluetooth speaker, bluetooth headphone, audio system with bluetooth reception,…"*

Audacity software overview

Audacity is free software, licensed under the GNU General Public License (GPL). More information as well as open source code can be found on the web at https://www.audacityteam.org/download/

* Please ensure you have installed the software before starting.

Setting up your PC to work with Audacity

1. Connect an input source to the unit.
2. Connect the USB lead to your computer.
3. Install the Audacity recording software.
4. Open the Audacity program.

5. Select Preference from the Edit tab in the Audacity Menu.
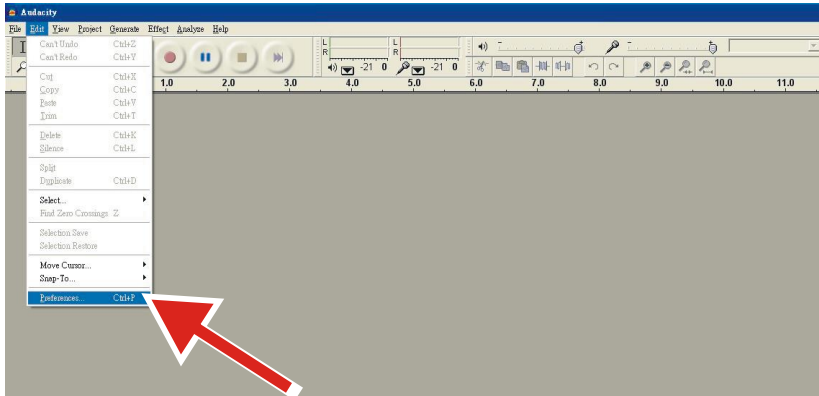
6. Select **Audio I/O** tab at the top left.
    - Under Playback, Device, select **your internal sound card**.
    - Under Recording, Device, select **USB Audio CODEC**.
    - Under Recording, Channels, select **2 (Stereo)**.
    - Check the box marked **Play other tracks while recording new one.**
    - Check the box marked **Software Playthrough**.
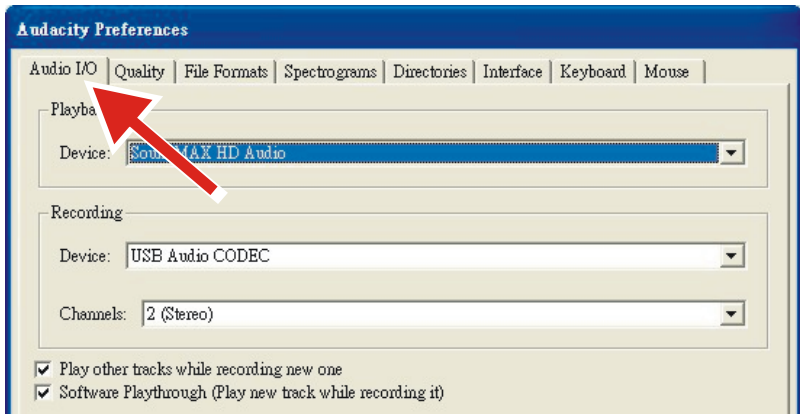
Recording Albums with Audacity

1. **Saving a project**

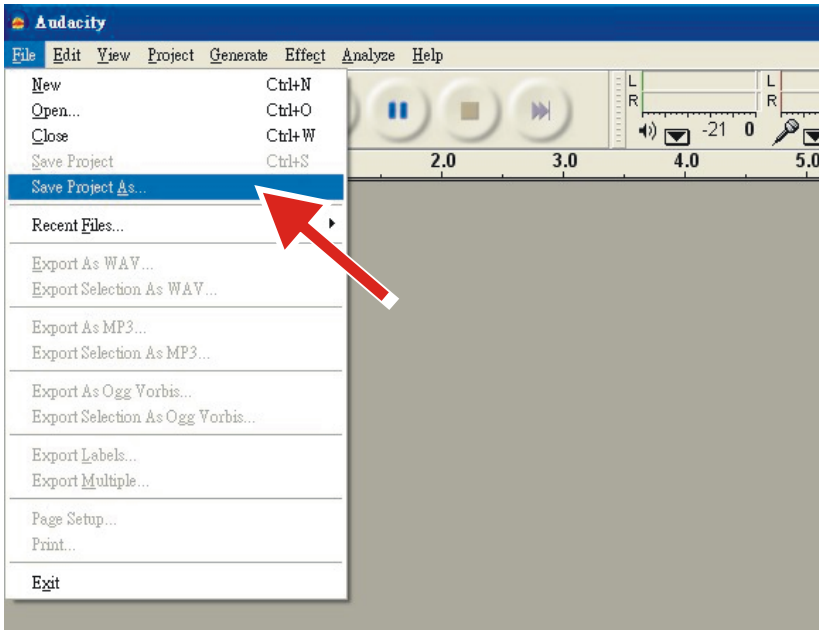   • Audacity writes all the changed and recorded audio to a directory called **Projectname_data**, which is located right where you saved the project file itself.

   • Thus, select **Save Project as** from your Audacity File tab and choose a location and filename for your project.

   • Please note that when you startup Audacity fresh, only the **"Save As..."** menu option is available.

2. **How to record**

   • Set your USB turntable up to play the song or album you want to record.

   • Click on the red Record button to begin recording.

- Lower tone arm on USB turntable onto album and track you want to record.

- Click on the blue Pause button to pause the recording. Press it again to continue.

- Click on the yellow Stop button.

That's it. You can now play around with your recording and explore the editing capabilities of Audacity. Remember that you can use the Undo function almost without limits while the project is open.

NOTE: CD's cannot be burned directly from the Audacity application. Other CD burning applications should be used.

Maintenance and Cleaning

Your turntable requires little of no regular maintenance. Remove dust with a slightly damp antistatic cloth. Never use a dry cloth, this will create static electricity and attract more dust! Antistatic cleaning agents are available at specialist stores, but must be applied sparingly to avoid damage to rubber parts. It is recommended to install the needle cover before cleaning or maintenance is carried out to avoid damage.

If the turntable is not used over a long period of time, the drive belt should be removed to prevent unequal stretching.

NOTE: Always disconnect the record player from the power supply as a precaution before maintenance!

Useful Tips

The turntable should be positioned on a low-resonance surface such as wood or multiple layer ply board to avoid structural vibrations disturbing playback.

Cartridge Replacement

1. Before replacement, put the stylus protector back on the stylus to prevent damage to the stylus during the replacement process.
2. Carefully remove the wire leads from the original cartridge.
3. Loosen the two screws on the headshell that are securing the cartridge and then remove the original cartridge.
4. Mount the new cartridge to the headshell and tighten it lightly. Do not completely tighten the screws at this moment.
5. Connect the wire leads to the new cartridge's terminals. The wire lead color codes are as below:
   White Left channel positive (L+)
   Black Left channel negative (L–)
   Red Right channel positive (R+)
   Black Right channel negative (R-)
6. Adjust the cartridge's position to make sure it is precisely aligned on the headshell so that the stylus will be tracking the grooves in parallel perfectly.
   To achieve this, place the included paper cartridge alignment protractor over the turntable spindle, carefully lift the tone arm and place the tip of the stylus on the points marked 130mm and 250mm respectively. Fine tune the cartridge's position on the headshell until the cartridge is perfectly in parallel with the reference lines at both points.
7. Tighten the screws completely once the perfect alignment is achieved.

NOTE: If you are unfamiliar or uncomfortable with completing this procedure, we recommend consulting with a professional to perform the installation.

Technical Specifications:

Nominal Speeds	33 1/3 & 45RPM
Speed Variance	±1%
Wow and Flutter	≤0.15%
Signal to Noise	55dB
Down force Range	3.0-6.0g
Effective Tonearm Length	8.6" (218.5mm)
Overhang	0.73in
Power Consumption	5W (Max)
Outboard Power Supply	12V/500mA AC-DC
Dimensions (W x H x D)	420 x 360 x 125mm
Weight	4.8kgs

Technical Specifications: AT-3600L (audio-technica)

Frequency response	20Hz-20kHz
Recommended load resistance	47kohms
Channel balance	<2.5dB
Amplifier connection	MM - input
Channel separation	>18dB
Recommended tracking force	3.0±0.5g
Output voltage	2.5mV
Weight	5g

Potential Incorrect Use and Fault Conditions

These turntables are manufactured to the highest standards and undergo strict quality controls before leaving the factory. Faults that may possibly

occur are not necessarily due to material or production faults but can sometimes be caused by incorrect use or unfortunate circumstances. Therefore the following list of common fault symptoms is included.

The platter doesn't turn although the unit is switched on:
- The unit is not connected to the main power supply.
- No power at the outlet.
- Drive belt is not installed or has slipped off.
- The unit automatically switched in standby mode, power ON again.

No signal through one or other channel or both channels:
- Phone input not selected at amplifier.
- Amplifier not switched on.
- Amplifier or speakers muted.
- No connection to the speakers.
- No connection between turntable and amplifier.
- Wire leads not connected the cartridge.

Strong hum on phono input:
- No ground connection from cartridge, arm, or arm cable to amplifier or ground loop.
- Turntable too close to speakers.

Distorted of inconsistent sound from one or both channels:
- Turntable is connected to wrong input of amplifier.
- Needle or cantilever damaged.
- Drive belt overstretched or dirty.
- Platter bearing without oil, dirty or damaged.
- Dust on stylus.
- MM/MC switch on pre-amplifier set incorrectly.

Remark: Due to the ErP Stage 2 requirements for power saving measures, a unit which is connected to the mains power will switch itself to standby mode automatically if no music has been playing for about 20 minutes.

If your unit switches off regularly, this is no defect.

Power supply adaptor

Manufacturer: BRIGHTPOWER OPTOELECTRONIC TECHNOLOGY CO., LTD
Model number: SW1200500-FM
Input voltage: 100-240V
Input AC frequency: 50/60Hz
Output voltage: DC 12V
Output current: 0.5A
Output Power: 6W
Average active efficiency: 79.62%
Efficiency at low load (10%): 70.40%
No load Power consumption: 0.073W
Use only the power supply listed in the user instructions

Guarantee

Commaxx B.V. offers service and warranty in accordance with the European law, which means that in case of repairs (both during and after the warranty period) you should contact your local dealer.
Important note: It is not possible to send products that need repairs to Commaxx B.V. directly.
Important note: If this unit is opened or accessed by a non-official service center in any way, the warranty expires.
This device is not suitable for professional use. In case of professional use, all

warranty obligations of the manufacturer will be voided.

Disclaimer

Updates to Firmware and/or hardware components are made regularly. Therefore some of the instruction, specifications and pictures in this documentation may differ slightly from your particular situation. All items described in this guide for illustration purposes only and may not apply to particular situation. No legal right or entitlements may be obtained from the description made in this manual.

Disposal of the Old Device

This symbol indicates that the relevant electrical product or battery should not be disposed of as general household waste in Europe. To ensure the correct waste treatment of the product and battery, please dispose them in accordance to any applicable local laws of requirement for disposal of electrical equipment or batteries. In so doing, you will help to conserve natural resources and improve standards of environmental protection in treatment and disposal of electrical waste (Waste Electrical and Electronic Equipment Directive).

DECLARATION OF CONFORMITY

Hereby, Commaxx declares that the radio equipment type [Lenco LBT-188 (V2) / LBT-189 / LBT-288] is in compliance with directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://commaxx-certificates.com/doc/lbt-188_doc.pdf

Type RF	Frequency range (MHz)	Power (dBm)
Bluetooth	2402-2480	<6

Service

For more information and helpdesk support, please visit www.lenco.com

Commaxx B.V. Wiebachstraat 37, 6466 NG, Kerkrade, The Netherlands.