



# Clearaudio Signature Turntable

*Signature*



Instruction Manual



## Clearaudio | Signature Turntable User Manual

Dear Clearaudio Customer,

The Clearaudio Signature is a special edition of the new Concept Signature, exclusively for the US market. It represents advancements in high-end performance with exceptional value. The Signature turntable celebrates Clearaudio's 46 years as the leader in vinyl playback and Musical Surroundings 33 1/3 years in analog distribution.

The Signature combines the technological and material science advancements from the entire Clearaudio turntable line, highlighted by the AiR 12v DC coreless motor with new speed control circuitry derived from our award-winning Reference Jubilee turntable.

The Signature incorporates a newly developed "Tacho-Speed-Control" that constantly monitors the rotational speed and provides real-time feedback to the control electronics, enabling the system to immediately respond to influences such as stylus drag, belt tension, friction, or temperature.

TSC performs automatic speed calibration at every start, derived from technology in our Reference Jubilee and Master Jubilee turntables. Manual calibration for musicians requiring speed/pitch matching can be accomplished via a control on the rear of the Signature turntable.

These advancements in speed accuracy and sound quality are made possible with the new AiR 12v DC coreless motor. It offers superior performance due to its low inertia, thus allowing high acceleration rates with no cogging torque.

A version of our O-Ring IMS (improved motor suspension), derived from our Jubilee turntables, isolates our AiR DC coreless motor, for enhanced vibration control.

The 30mm POM platter sits atop the precision-machined aluminum sub-platter, driven by a flat polished belt which communicates speed control via the TSC. The constrained layered plinth and platter bearing, a hardened steel shaft inside a sintered bronze sleeve with Teflon thrust pad, are derived from our Concept turntable.

Please read the instruction manual for easy setup and to discover how to care for your concept Signature turntable to enjoy music for many years. Follow the instructions carefully to avoid any potential damage. Not following our instructions could void your warranty.

We wish you a great musical experience with your new Clearaudio Signature turntable.



## SAFETY INSTRUCTIONS

### 1. General information

Check the turntable for any damage before using it. Do not connect the turntable if damaged!

Never connect the turntable if it has been dropped or gotten wet, contact your dealer to have the turntable checked. Never expose the turntable to rain or moisture.

Never touch the power cord of the device with wet hands.

Regular visual inspections for defective insulation on the connection cable are also recommended for your own safety. A damaged cable should be replaced immediately by a specialist!

Never pull on the power cord to unplug the device. Always pull directly on the plug!

The inside of the turntable is maintenance free. Never open the case or attempt to repair the unit yourself, since this can lead to loss of warranty!

We recommend disconnecting the power supply from the mains if you do not operate the device for a long period. The turntable does not feature an automatic shut-off mechanism.

Therefore, as soon as the stylus has reached the run-out groove, engage the tonearm lift and switch the turntable off.

Not suitable for children! Scope of delivery may contain small parts that can be swallowed.

### 2. Intended use

The Signature is a turntable for playing records. The intended use of the Signature in accordance with the information provided in the user manual only.

The power supply may only be operated with maximum permissible connection values according to the technical data. Any other use or modification of this product is not intended.

### 3. Location of installation

Avoid locations with direct sunlight, temperature fluctuations and high humidity.

Likewise, avoid placing electronic devices near heaters, heat lamps, or other devices that produce heat.

The device is designed for operation at room temperature.

No objects with an open flame may be placed on or near the device (burning candles or similar).

### 4. Overload

The product is designed to comply with all necessary safety regulations. However, you should not leave the device unattended under extreme loads.

### 5. Maintenance

Never use aggressive cleaning detergent. Do not use dry cloths for cleaning as this generates static electricity. Suitable cleaning and care products from Clearaudio are available from specialist retailers.

The bearing of the turntable platter can be lubricated every 2 years with a suitable oil (for example Clearaudio "bearing oil" Art. No. AC068). Put 1 or 2 drops of the oil into the bearing for lubrication.



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### 6. Health information

Permanently high volume can lead to various types of hearing damage. Use high volume responsibly!

### 7. Service

The Signature turntable should be repaired during the guarantee period by the manufacturer or authorized dealer only, otherwise the warranty claim expires. All Clearaudio products should only be serviced by specialist retailers.

If, despite the high production standard, if service is necessary, the Signature turntable must be sent through your dealer to Musical Surroundings

### 8. Transport

Use the original packing material for further transportation of the Signature turntable, otherwise serious damage could occur.

Be sure to pack the device exactly as it was shipped.

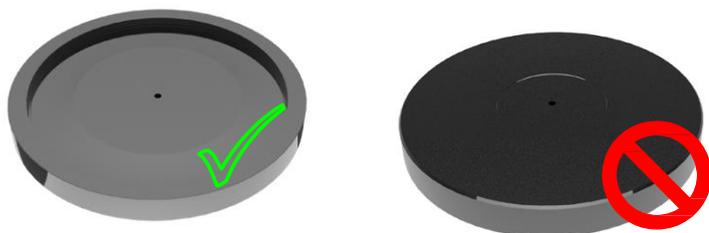
Safe transport is only guaranteed in the original packaging.

Proceed in reverse as described for assembly when packing.

Always remove the turntable platter and replace the foam securing the sub-platter as well as the tape securing the tonearm and the cartridge stylus protection. Otherwise, serious damage can occur.

Please also ensure that you fully retract the turntable feet.

For any transportation of the Signature turntable, please ensure that the platter is packed with the upper surface facing downwards into the packaging.



Clearaudio assumes no liability for any damage that may occur due to incorrect packing.



**9. Disposal** Do not dispose this product together with other waste.  WEEE Reg. No.: DE26004446

10. CE Marking This electronic product corresponds to the applicable guidelines for obtaining the CE mark.





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## 1. Packaging overview

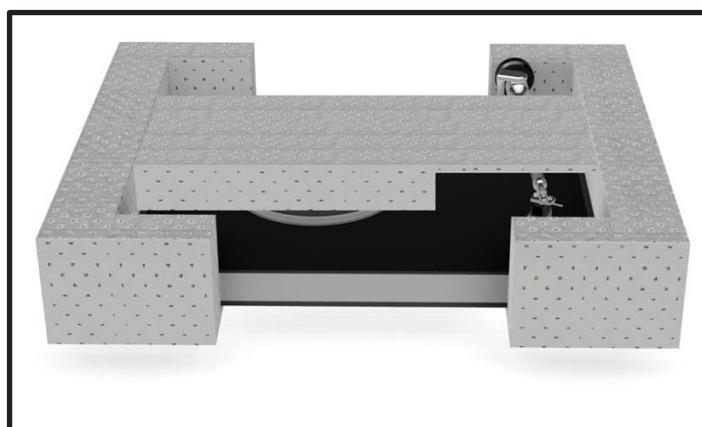
The Clearaudio Signature turntable is delivered in a customized packing to ensure its safe transport.

Please retain the original packaging for any future transportation and shipping.

Please see the list below to check the contents of your Clearaudio Signature turntable.

### First layer:

Signature turntable chassis including integrated motor unit and tonearm.



Layer 1: packaging overview

### Second layer:

Turntable platter, accessories box, user manual, warranty card



Layer 2: packaging overview

## 2. List of components

- 1) Turntable chassis with tonearm, and drive belt on sub-platter.
- 2) Turntable platter.
- 3) Accessories:

Level gauge, smart stylus force gauge, hex wrench (size 2 / 2.5), power supply incl. adapter, user manual, Clearaudio return delivery note, warranty card.

## 3 Set-up.

Setting up the Signature turntable is easy. The Signature turntable needs a set-up space of at least 17 x 14 inches.

### 3.1

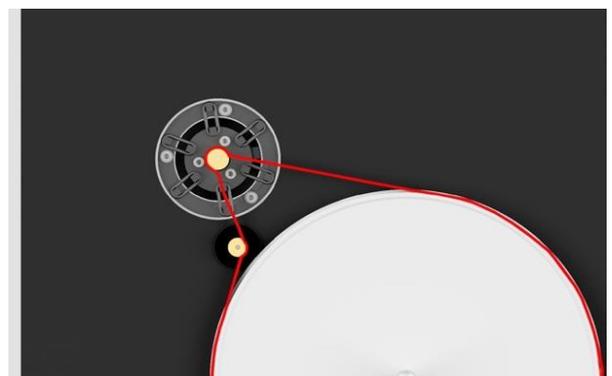
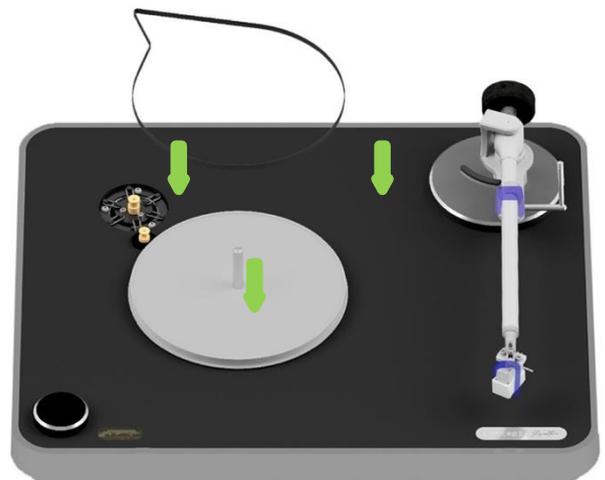
First take the Signature turntable chassis out of the package and place it on a suitable surface. Then remove the drive belt from the plastic bag.



Placing the turntable

### 3.2

Place the drive belt around the sub-platter and around the motor pulley and the tachometer.



Mounting the drive belt

### 3.3

Take the platter out of the package and carefully place it with both hands onto the shaft. Make sure that the hollowed side faces down toward the sub-platter.



Placing platter

### 3.4

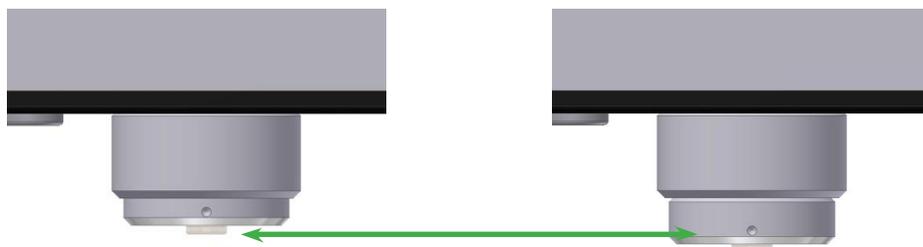
Please check with the bubble level gauge if your Signature turntable is in a level position. You can adjust each of the turntable's feet to get the turntable level. Only if the turntable is in a level position you will get the best results with your turntable.



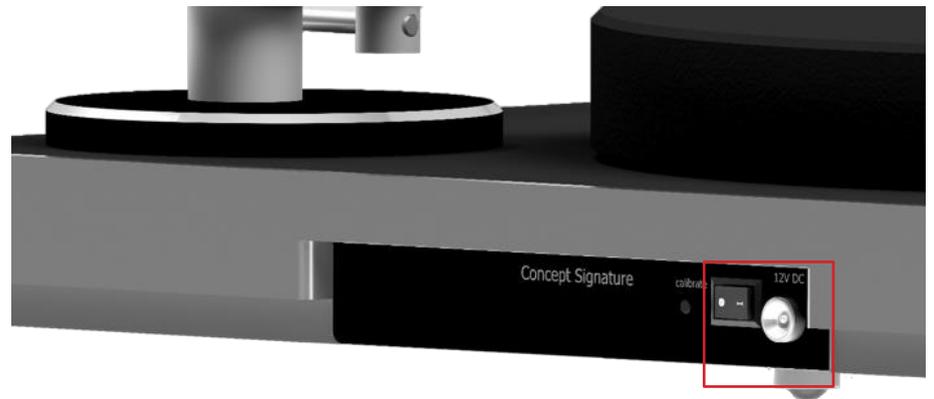
Adjustment of level position

#### **Please note:**

Through turning the feet clockwise you will raise the turntable, by turning counterclockwise the turntable will lower.



Adjustment of height



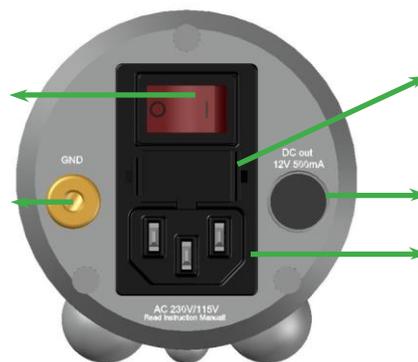
Turntable power input terminal

### 3.5 Professional Power 12v

Connect one end of the Professional Power 12v power supply provided to the power input terminal on the rear of the Signature turntable. Connect the Professional Power 12v with supplied IEC power cable to a live AC outlet.



Front view



Rear view

1	ON/OFF/Standby button with LED	4	Cover of the fuse
2	Main switch	5	Built-in power cable
3	Grounding socket (for optional grounding)	6	IEC socket



### 3.6 Initial start

Clearaudio has developed a special packaging for your Professional Power 12V to ensure a safe transportation.

Please keep this original packing if you need to ship the unit.

Take the device out of the box and set it up at the desired location.

Before connecting the device to the power supply, make sure that the main switch on the back is set to "0" (=OFF).

1. Connect the device to the mains with the enclosed power cord.
2. Then connect your turntable and the Professional Power 12V with the built-in power cable instead of the standard plug-in power supply.
3. Now you can turn the main switch on the back to „I“ (=ON).
4. The LED light on the front panel of the Professional Power 12V starts to flash for approx. 40 seconds, while the device starts up and the output voltage stabilizes.
5. When the LED light shines continuously, the device is ready (ON mode) and you can start the turntable.

## 4. Operating modes

### 4.1 Standby

The "Standby" mode is characterized by:

1. The output is deactivated (the turntable is not supplied with power).
2. The LED light is off

### 4.2 ON

The "ON" mode is characterized by:

1. The output is activated (the turntable is supplied with power).
2. The LED light shines continuously.

### 4.3 Dimming the LED

The LED light on the front panel can be darkened or lightened by one level by long pressing the ON/OFF/Standby button on the front panel.

Refer to your tonearm and cartridge manuals for specific mounting and use instructions.

Your Signature turntable is now completely assembled and ready to play.

## 5. Initial operation and calibration of speed



Control unit of the Signature

### 5.1 Initial operation

If the Signature is in standby, press the button once to put the drive into operation at the basic speed of 33 1/3 rpm. Press again to change the speed to 45 rpm. Another press puts the drive back into standby mode. We recommend letting the turntable run in for around 15-30 minutes when using it for the first time.

### 5.2 Calibration of speeds

Thanks to the newly developed motor control, the Signature calibrates itself to always maintain the perfect speed.

However, manual calibration is possible. This is particularly recommended if the turntable has not been in use for a long time, wearing parts (e.g. belts) have been replaced or the drive is being repositioned after moving, for example.

If you would like to start the calibration manually, please proceed as follows to recalibrate both speeds. This process can take up to 10 minutes.



Calibration of the concept Signature

The turntable has to be in standby mode to start the calibration. On the back of the turntable, you will find the calibration button next to the "On/Off" switch.

Since this is recessed in the chassis, you need a narrow screwdriver or alternatively a ballpoint pen or something similar to press the button.

Hold this down for approx. 5 seconds. As the turntable calibrates itself, the platter rotates, and the display quickly changes between 33 (=33 1/3) and 45.

After calibration is complete, the turntable stops and switches to standby mode by





## 6. Troubleshooting – Signature turntable

If you have a problem with your Signature turntable, first check the possible causes to rule out incorrect operation.

If the error persists, please contact your dealer!

**Never try to open the device and/or repair it yourself, this will void the warranty!**

Error	Cause	Measure
<b>Device does not work</b>	Is the power cord plugged in?	Check the connection.
	Is the power switch in the correct position?	Check the switch on the back of the device.
<b>No sound</b>	The tonearm and phono stage are not properly connected.	Check the cable connection between the tonearm and the phono stage.
	Is the amp turned on?	Check the power supply to the amplifier.
	The volume on the amplifier/loudspeaker is set too low or on „mute“.	Check the volume settings.
	Is the cartridge protective cap still attached?	Remove the cartridge's protective cap.
	Is the tonearm in the raised position?	Lower the tonearm into the lead-in groove.
	Is the stylus damaged?	Check the stylus and have the cartridge checked by a specialist if necessary.
<b>Bad sound / noise</b>	Is the record or the stylus dirty or damaged?	Clean the record / or the cartridge. <b>Clearaudio</b> offers many helpful accessories for care and cleaning. In the event of damage, we recommend an assessment by a specialist and if necessary, an exchange.
	Is the cartridge properly mounted into the tonearm?	Check the installation using the relevant user manual and correct them if necessary.
	Has the tracking force been set too high or too low?	Adjust the tracking force.
	Is the correct operating mode (MM / MC) set on the amplifier?	Check the settings of your phono stage.
	The pre/amp does not have enough gain.	Check the settings of your phono stage.
	Pre/amp is mismatched.	Swap the plugs of the turntable that are connected to the left and right outputs.

<b>Needle bounces or slides across record</b>	Is the record or the stylus dirty or damaged?	Clean the record / or the cartridge. <b>Clearaudio</b> offers many helpful accessories for care and cleaning. In the event of damage, we recommend an assessment by a specialist and, if necessary, an exchange.
	Has the tracking force been set too high or too low?	Adjust the tracking force.
	Is the record deformed or scratched?	Use a record clamp or replace the record.
	Is the turntable leveled?	Check the alignment of the turntable and adjust if necessary.
<b>Platter does not turn</b>	Is the antiskating set too high/low?	Contact your dealer to have the setting checked and corrected if necessary.
	Is the drive belt properly attached?	Check the position of the drive belt.
	Is the power cord connected properly?	Check the connection.
	Is the power switch in the correct position?	Check the switch on the back of the device.
<b>Noisy sound</b>	The turntable is still in standby mode.	Activate the drive by pressing the button.
	Is the drive belt properly attached?	Check the position of the drive belt. Is it too loose and needs to be changed? Please note: After changing the belt, we recommend recalibrating the turntable.
<b>Humming noises</b>	Contact problems with the signal connections (e.g. cinch plugs, adapters for extensions)	Check all connections; reduce the level on the (pre-)amplifier to a low volume for acoustic checking of gross errors.
	The pickup pins are mixed up, not connected correctly or defective.	Check the pin assignment of the pickup.
<b>The music doesn't sound like usual</b>	Wrong speed selected.	Check the record for recommended speed. There are also records in LP format (30 cm) that have to be played at 45 rpm ("maxi singles") and small records in single format (17 cm) that have to be played at 33 rpm (so-called "EP's").
	The turntable is spinning too fast/too slow.	Start the self-calibration using the operating instructions.

## 7. Technical data – Signature turntable

<b>Construction details:</b>	<ul style="list-style-type: none"> <li>• Resonance-optimised turntable.</li> <li>• Upper layer incorporates high-tech satined plastic compound.</li> <li>• Chassis comprises medium-density wood fiber with a satin black finish.</li> <li>• Bottom plate medium-density wood fiber</li> <li>• Height-adjustable turntable feet.</li> </ul>
<b>Speed options:</b>	33 1/3, 45rpm
<b>Drive unit:</b>	<ul style="list-style-type: none"> <li>• Decoupled and resonance damped AiR 12V DC motor.</li> <li>• Flat belt-drive</li> <li>• Professional Power 12v linear power supply unit.</li> <li>• „IMS light – Innovative Motor Suspension“ (Suspension design of the motor using O-rings)</li> <li>• „TSC“ Tacho speed control (speed monitoring)</li> </ul> <p>Automatic compensation of friction and temperature changes on platter bearings and belts</p>
<b>Bearing:</b>	Polished and tempered steel spindle in a sintered bronze bushing, running on a teflon thrust-pad.
<b>Platter:</b>	30mm / 1.18 inch main platter, made out of synthetic material with high-density and excellent dimension / precision CNC machined aluminium sub-platter.
<b>Speed accuracy (measured):</b>	± 0,05%
<b>Power consumption:</b>	<p>Max. consumption: 3.6 watts            Consumption in operation: 1.92 watts            Standby: 0.74 watts            Off mode: 0.0 watts (switched off at the rear)</p>
<b>Total weight:</b>	Approx. 7.5kg (incl. tonearm and cartridge)
<b>Dimensions (W/D/H):</b>	ca. 420 x 350 x 125 mm (mit Tonarm)
<b>Dimensions (W/D/H):</b>	Approx. 16.54 x 13.78 x 4.92 inches (with tonearm)
<b>Manufacturer's warranty:</b>	2 years*



## 7. Technical data – Professional Power 12

<b>Power supply:</b>	110V AC 60Hz, max. 200mA (time delay fuse)
<b>Output:</b>	12V, max. 500mA; fused (time delay fuse)
<b>Power consumption:</b>	In operation (LED on): 0 rpm > 1,1 watts 33,3 rpm > 1,4 watts 45 rpm > 1,5 watts 78 rpm > 1,7 watts  Standby (LED off) = 1 watts  Off mode: 0.0 watts (turned off at rear panel "0")  Ripple voltage = 50 $\mu$ VPP
<b>Total weight:</b>	Approx. 813g
<b>Dimensions (W/D/H):</b>	Approx. 73 x 145 x 76mm
<b>Dimensions (W/D/H):</b>	Approx. 28,74 x 57,09 x 29,92 inches
<b>Manufacturer's warranty:</b>	2 years*



Loving music



## ENGLISH WARRANTY

For warranty information, contact your local **Clearaudio** distributor, **Musical Surroundings:**  
**website:** MusicalSurroundings.com **email:** info@musicalsurrroundings.com **phone:** 510-547-5006

## PLEASE REGISTER YOUR CLEARAUDIO PRODUCT AT OUR DISTRIBUTORS WEBSITE:

<https://musicalsurrroundings.com/product-registration/>

## RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with **Clearaudio**.

## IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

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