



## clearaudio Reference Jubilee Turntable User Manual

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### Reference Jubilee User manual



#### **Dear Clearaudio customer,**

Many thanks for choosing Clearaudio's Reference Jubilee turntable, a high-quality product made in Germany by Clearaudio Electronic GmbH.

This limited edition turntable, created to mark the occasion of the company's 40th anniversary, combines a raft of design highlights from recent decades with some exciting new technical developments.

Please read this instruction manual carefully to avoid any potential damage or loss of warranty.

The manual will help to ensure an easy setup, and enable the greatest listening pleasure for years to come.


Thank you for your confidence in us and we hope you enjoy your new Clearaudio Reference Jubilee turntable.  
**Clearaudio Electronic GmbH**

This section must be read before any connection is made to the main supply.

**Warnings**

Don't expose your turntable to rain or humidity.  
Don't handle the mains leads with wet hands. No naked flame sources, such as lighted candles, should be placed on the equipment.

**CE-MARKING**

 The Clearaudio Reference Jubilee meets relevant regulations concerning electromagnetic disturbance (EMC) and low-voltage appliances.

**EQUIPMENT MAINS WORKING SETTING**

Your Clearaudio product has been prepared to comply with the household power and safety requirements that exist in your area. This product can be connected to 230 V or 110 V AC (50 Hz and 60 Hz).

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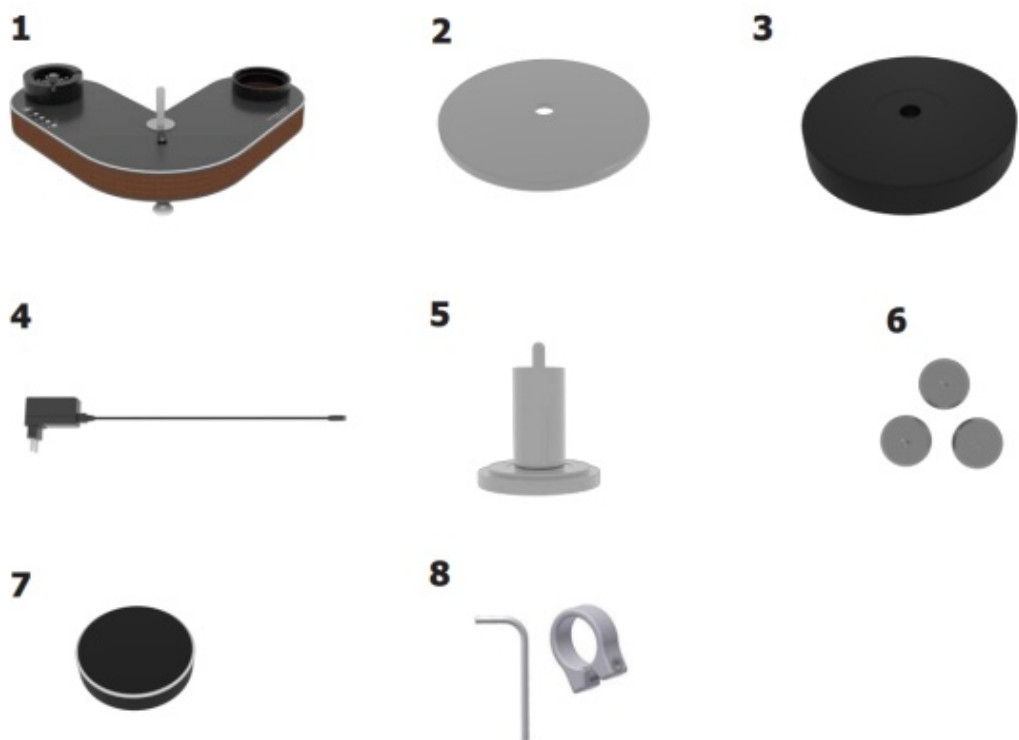
**Package contents overview**

**Clearaudio** has developed a special, secure packing for your Reference Jubilee turntable to ensure safe transportation. Please keep this original packing, if you need to ship the turntable.

Accessories, user manual, warranty card Clearaudio quality card
Reference Jubilee turntable chassis incl. mounted lower bearing part and integrated motor uni
Stainless steel sub-platter, POM platter, upper bearing part, motor cover, the optional folding base for TT2/TT3 tangential tonearm

List of components

Please use the list below to check that all components of your newly purchased Clearaudio Reference Jubilee turntable have been correctly supplied.



Pic. 2: List of components

1.	Turntable chassis with incl. lower bearing part	5.	Magnet bearing (upper part)
2.	Stainless steel sub-platter	6.	3x flat pad
3.	POM turntable platter	7.	Motor cover
4.	Power supply	8.	Mounting clip for stainless steel sub-platter and hex wrench

## Components list (continued)

9



10



11



12



13



14



15



**Pic. 2.1: List of components (continued)**

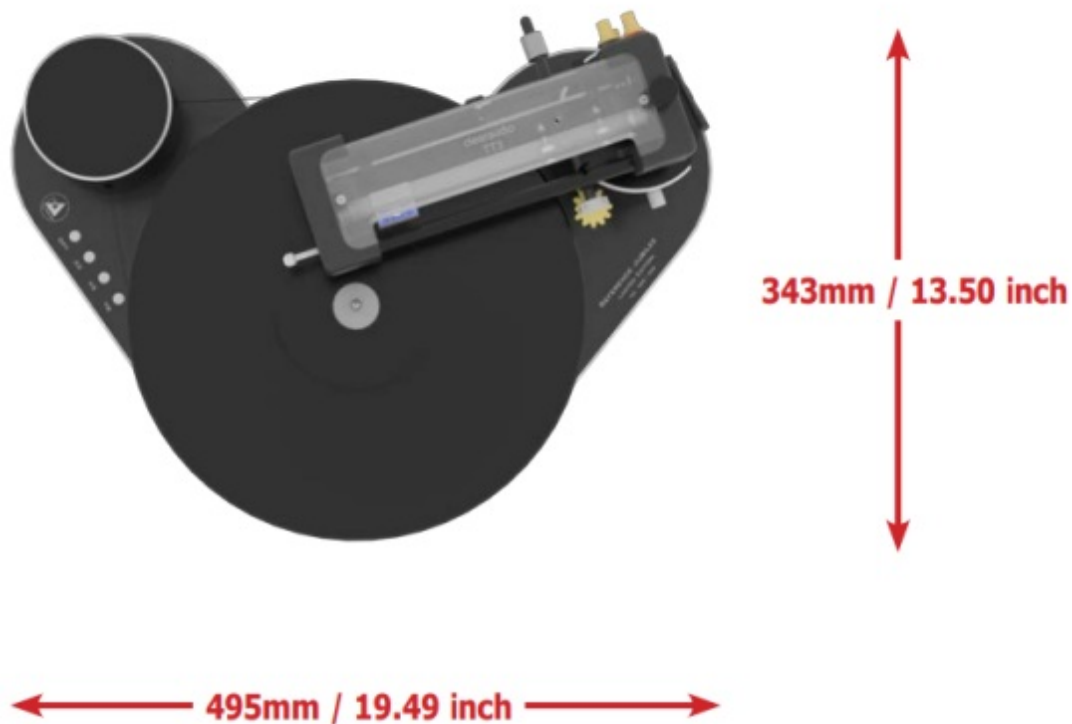
9.	1 pair of white gloves	14.	Screwdriver
10.	Grounding wire for the turntable	15.	Bearing oil for occasional use
11.	Level gauge for turntable alignment	16	Not shown: Tonearm base (depending on the tonearm ordered, this maybe included in delivery or pre-mounted)
12.	1x flat belt	17.	Not shown: Warranty card, Clearaudio quality card, return the delivery note
13.	5x hex wrench Sizes 1.5; 2; 2.5; 3; 7	18.	Not shown: User manual

### IMPORTANT NOTICE:

Please double-check the tightness of all bolts, hardware, and mounting pods, as temperature fluctuations during transit may have caused the hardware to become loose.

### Set-up

The set-up of the Reference Jubilee turntable is easy as the turntable chassis is pre-assembled and has been tested at the factory. Please use the white gloves enclosed in order to avoid scratches or unwanted fingerprints (platter). The Reference Jubilee turntable requires space for setup of at least 495 x 343mm (19.49-inch x 13.50 inches).



Pic. 3: Required set-up space Reference Jubilee

**Please follow the instructions step by step:**

**3.1)**

The top packaging level contains all accessories. Please take out the three black flat pads. Place these flat pads on your HiFi-rack or another suitable base, where the final position of your Reference Jubilee turntable will be.

**3.2)**

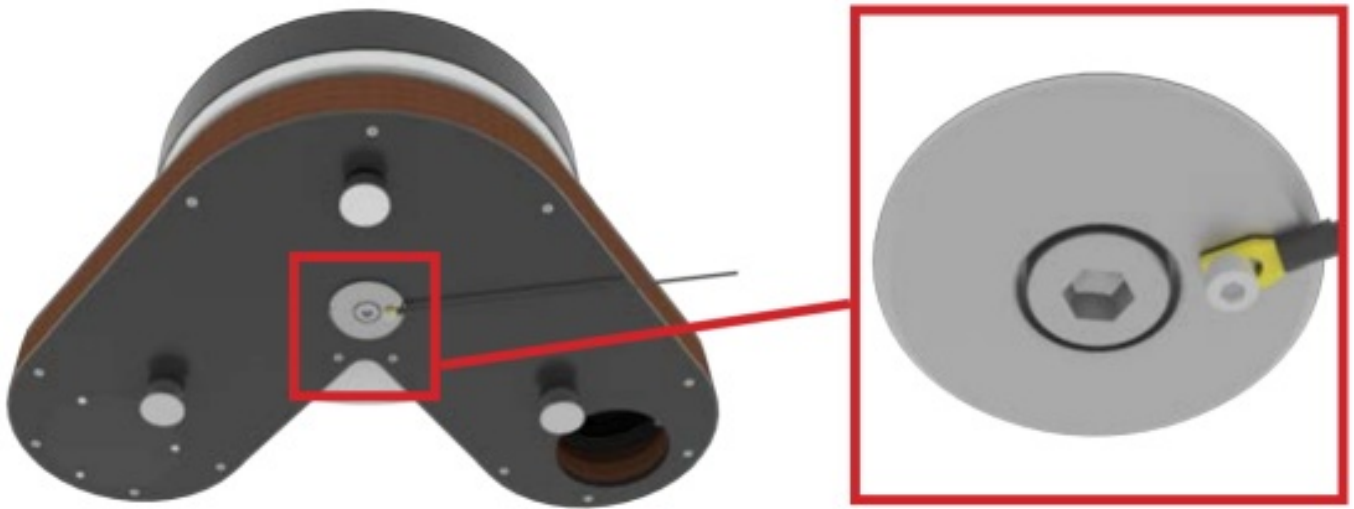
Remove the entire upper packaging level from the box. Take out the Reference Jubilee turntable body and place its pre-assembled feet (spikes) on the previously positioned flat pads.



Pic. 4: Reference Jubilee delivery condition

**3.3)**

To avoid hum noises we recommend grounding the bearing. To do so, attach the grounding wire supplied to the bearing cap with the screw provided.



Pic. 5: Grounding the Reference Jubilee

### 3.4)

Remove the protective security tape from the bearing housing. Place two drops of the synthetic bearing oil on the ceramic bearing shaft (also available at [www.analogshop.de](http://www.analogshop.de), Art. No. AC068).



Pic. 6: Oiling the bearing shaft

### 3.5

Remove the protective film from the sensor mounted in the turntable chassis. Please remove the protective film extremely carefully and avoid any soiling and scratches.

### 3.6.

Using both hands, carefully take the stainless steel sub-platter out of the box. Carefully remove the protective film from the sensor ring on the underside of the sub-platter. Again, please remove the protective film extremely carefully to avoid any soiling or scratches. Carefully slide the upper part of the bearing through the opening of the sub-platter and fix the upper part of the bearing using the mounting clip supplied. The lower side of the platter with the sensor ring must point downwards.



Pic. 7: Connection of sub-platter and bearing

**3.7)**

Place the sub-platter carefully and slowly on the axis of the pre-mounted magnet bearing on the turntable chassis.

**Please proceed very carefully!**

Make sure that the platter is positioned straight and level, so that it does not tilt and damage the bearing while it is being placed!



Pic. 8: Placing the stainless steel sub-platter

**3.8)**

Now you can remove the mounting clip with the hex wrench provided.



Pic. 9: Removing the mounting clip

**3.9)**

Take the second platter (made of POM) out of the packaging and slide it onto the bearing. The larger recess (for the record label) on the platter should point upwards. Please ensure that the platter is at least room temperature (approx. 20°C) while mounting to avoid any damage to the bearing.

Avoid major side forces to avoid any damages to the ceramic bearing!



Pic. 10: Mounting the POM platter

### 3.10)

Place the flat belt around the platter and the motor pulley. Make sure that the belt runs in the cutouts of the motor housing. To ensure that the belt does not come off when it is started up for the first time, we recommend holding the flat belt in position with your finger and turning the platter by hand until the belt remains in the correct position.



Pic. 11: Mounting the belt

Close the motor unit with the supplied motor cover. Make sure that magnets are on top of each other.





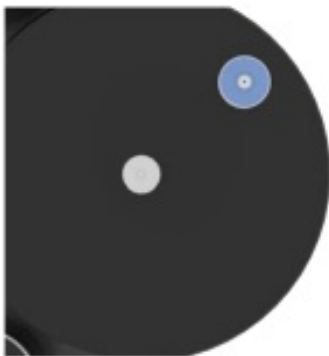
Pic. 12: Placing the motor cover

**3.11)**

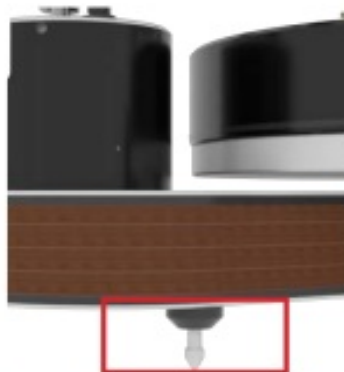
**The following final adjustment is very important:**

Please check, using the bubble level gauge, that your Reference Jubilee turntable is in a level position. You can adjust each of the turntable's feet to achieve this.

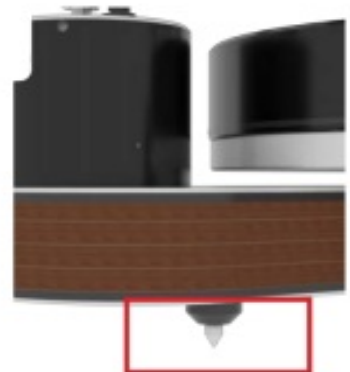
You will only get the best results with your Reference Jubilee turntable if it is in a level position.



**Pic. 13 a:** Alignment of the turntable



**Pic. 13 b:** Adjustment of the turntable feet



**3.12)**

Please connect the mains plug to your power supply.



Pic. 14: Connection power supply and motor

## Mounting of tonearm and cartridge

### 4.1)

When ordering the Reference Jubilee turntable in combination with a Clearaudio radial tonearm, the required tonearm base is already pre-assembled. For final assembly and adjustment of the tonearm base and tonearm, proceed as described in the tonearm user manual.

### 4.2)

When ordering the Reference Jubilee turntable in combination with a Clearaudio tangential tonearm, you will find the required folding base in the bottom packaging layer.

Place the folding base on the opening provided, making sure that the cut-out points outwards. Then fix the three grub screws of the tonearm base mount to continue the tonearm mounting.



Pic. 15: Mounting the folding base

For the final assembly and adjustment of the tonearm, proceed as described in the relevant tonearm user manual. Please note that you will need to slightly loosen the grub screws of the tonearm base mount for setting the tangential alignment (TT2 / TT3 user manual, point 7.3).

### 4.3)

For mounting and adjustment of the cartridge, please proceed as described in the relevant cartridge user manual. **Clearaudio** offers a selection of professional setting tools for your turntable. Please contact your dealer/distributor for more information.

## Initial start and calibration of the speed

### 5.1)

To start operating the turntable at the desired speed, press the relevant labeled button on the motor housing. We recommend letting the turntable run in for about 15-30 minutes when using it for the first time.



**Pic. 16: Control panel *Reference Jubilee***

### 5.2)

Thanks to the newly developed motor control, the Reference Jubilee turntable calibrates itself automatically in order to always maintain the perfect speed. However, manual calibration is also possible. We recommend this if the turntable has not been in use for a long time, if parts (e.g. the belt) have been replaced, or if the turntable is set up again

after moving. If you would like to start the calibration manually, please proceed as follows to recalibrate all three speeds. This process takes about 5 minutes.

Hold down the OFF button until the 33 button flashes and the platter begins to turn.

> The speed 33rpm is now calibrating.

When the 33 button lights up continuously and the 45 button starts to flash.

> The 33rpm speed is calibrated and the turntable is now calibrating 45rpm.

When the 45 button lights up continuously and the 78 button starts to flash.

> The 45rpm speed is calibrated and the turntable is now calibrating 78rpm.

The calibration for 78rpm is complete when all 3-speed options and the OFF button flash alternately. A longer press on OFF (speed options stop flashing) saves the calibration of all three speeds.

**To stop the calibration process you can press any button.**

### 5.3)

In order to adapt the standard speed to your own preferences, you can also adjust the basic speeds manually. To adjust the speed for example for 33 1/3rpm, hold down the button for 33 until it flashes. The remaining buttons now function as + and – to gradually reduce or increase the speed. The respective key assignment can be found in the table below.

Speed	–	+
33 1/3rpm	45rpm	78rpm
45rpm	33 1/3rpm	78rpm
78rpm	33 1/3rpm	45rpm

If you want to reset this setting, proceed as described in point 5.2.

### Special instruction

## **6.1) Maintenance**

- If the Reference Jubilee turntable is not used for some time, please disconnect the motor from the main supply.
- Every two years you can lubricate the bearing of the turntable platter with the oil provided. In this case, it is enough to put 1 or 2 drops of the oil into bearing.
- Please take special caution regarding any damage to the power cord. Any damage should be repaired only by authorized personnel. A damaged power cord must be exchanged immediately!

## **6.2) Transport**

The Reference Jubilee turntable must only ever be shipped in its original packaging. This is a condition of the Clearaudio warranty. If you repack the turntable, please follow all steps given for installation and setup, in reverse.

- If any transportation of the Reference Jubilee turntable should be necessary, please always remove the turntable platter and the shaft holder. Otherwise, serious damage can occur!
- To avoid any dust coming into the bearing, the bearing hole also needs to be covered.

## **6.3) Service**

Servicing of all Clearaudio products should be done by authorized personnel only. In case of any repair, the Clearaudio Reference Jubilee turntable should be sent to your nearest authorized Clearaudio distributor or dealer.

## **Technical data**

Construction details:	<ul style="list-style-type: none"> <li>• Resonance-optimised chassis shape</li> <li>• Made of laminated wood and aluminum with precision CNC machined surface</li> <li>• All turntable feet are fine adjustable</li> <li>• Optical Speed Control (OSC)</li> <li>• Playback of one tonearm possible</li> <li>• IMS – „Innovative Motor Suspension“ (Suspension design of the motor using 18 O-rings)</li> </ul>
Speed options:	Comfortable speed change, 33 1/3rpm, 45rpm, 78rpm
Drive unit:	<ul style="list-style-type: none"> <li>• High torque 24V DC motor with belt drive</li> <li>• Fully automatic self-calibration of the speed by a push of a button</li> <li>• Hybrid engine control: A high-resolution 12-bit digital-to-analog converter (DAC) generates the purely analog motor control. Automatic compensation of friction and temperature change remains in the perfect range at all times.</li> </ul>
Bearing:	Clearaudio CMB ceramic magnetic bearing in main platter / upper drive platter assembly.
Platter:	50mm / 1.97-inch main platter, made out of synthetic material with high density and excellent dimension. 15mm / 0.59-inch stability, precision CNC machined dynamically balanced.
Speed accuracy measured):	+/- 0.05%
Power consumption: Max. consumption: Consumption in operation: Off mode:	5.0 watts 2.1 watts 1.8 watts
Total weight:	approx. 22kg (without tonearm and power supply)
Dimensions (w x d x h):	approx. 495 x 343 x 160mm approx. 19.49 x 13.50 x 6.30 inch (without tonearm base, without tonearm)
Manufacturer warranty:	2 years*

\* Provided that the warranty card is correctly completed and returned to Clearaudio, or your product is registered online at <https://clearaudio.de/en/service/registration.php>, within 14 days of purchase. The full, extended warranty period for the Reference Jubilee turntable is 2 years. To receive this full Clearaudio warranty, you must either complete and return the relevant section of the warranty registration card to Clearaudio, or register your product online at <https://clearaudio.de/en/service/registration.php>, within 14 days of purchase. Otherwise only the legal warranty of 1 year can be considered. The full 2-year warranty can only be honored if the product is returned in its original packing.

## WARRANTY

For warranty information, contact your local Clearaudio distributor.

### 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.

### FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

## Handmade in Germany

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## Documents / Resources

	<p><a href="#">clearaudio Reference Jubilee Turntable</a> [pdf] User Manual Reference Jubilee Turntable, Reference Jubilee, Turntable</p>
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