



# Innovation

Loving music

## User manual



### Innovation

Picture: Package with Clearaudio tonearm „TT3“ and Clearaudio cartridge „Titanium V2 “.

**Innovation Wood**  
Picture: Package with Clearaudio tonearm „Universal“ and Clearaudio cartridge „da Vinci V2 “.



## Pic. similar

## User manual

Dear **Clearaudio** customer,

Congratulations to your choice of the *Innovation / Innovation Wood* (in the following: *Innovation* named) turntable, a world class turntable, handmade in Germany by **Clearaudio** electronic GmbH.

Resonance minimizing chassis construction in a sandwich in combination with the innovative motor unit (low noise level and high turning moments), guarantees total isolation of resonances from the turntable chassis, providing the best music reproduction and authentic High End imaging. A high precision, maintenance free sinter bronze bearing is completing the analogue pleasure.

The **Clearaudio** patented CMB-Bearing-Technology, an inverted bearing with jewelled and polished ceramic bearing shaft and a bronzed liner, provides frictionless analog enjoyment.

Please read this instruction manual carefully, to avoid any damages or loss of warranty. This manual will help you for an easy setup and guarantees the highest pleasure for a long time.

We wish you a lot of musical enjoyments with your new **Clearaudio** *Innovation* turntable.

**Clearaudio** electronic GmbH



## 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 longer period of time.

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 *Innovation* is a turntable for playing records.

The intended use of the *Innovation* 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 [www.analogshop.de](http://www.analogshop.de) or from specialist retailers.

The bearing of the turntable platter can be lubricated every 2 years with the oil provided.

Put 1 or 2 drops of the oil into the bearing for lubrication.

## 6. Health information

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

## 7. Service

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

If, despite the high production standard, a service is necessary, the *Innovation* turntable must be sent to **Clearaudio** through your dealer.

## 8. Transport

Use the original packing material for further transportation of the *Innovation* 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 and cover the bearing with tape as well. Otherwise serious damage can occur.

Remove also the pulley from the motor axle to avoid any damage during transport.

**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



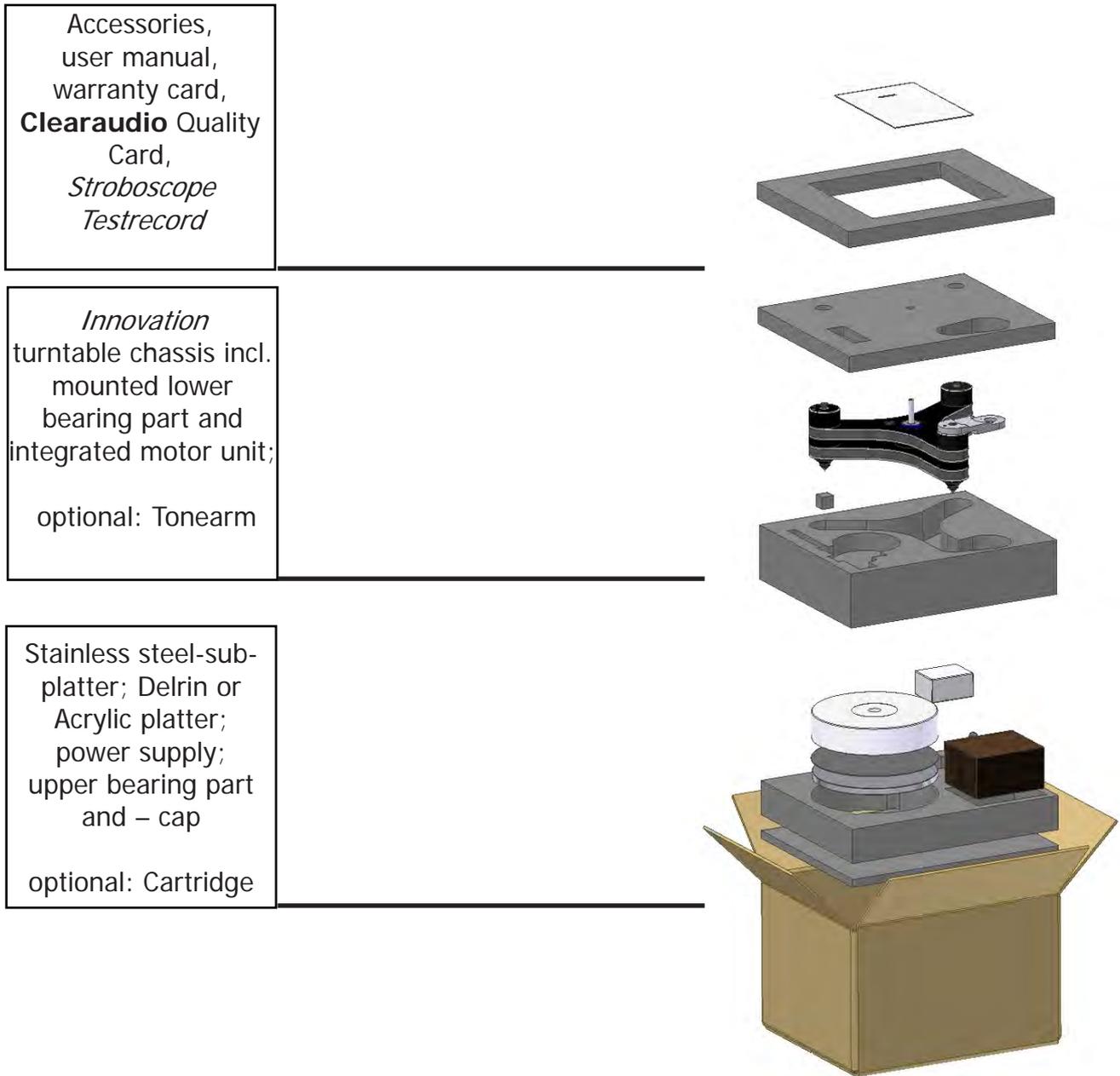
This electronic product corresponds to the applicable guidelines for obtaining the CE mark.



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## 1. Packing overview

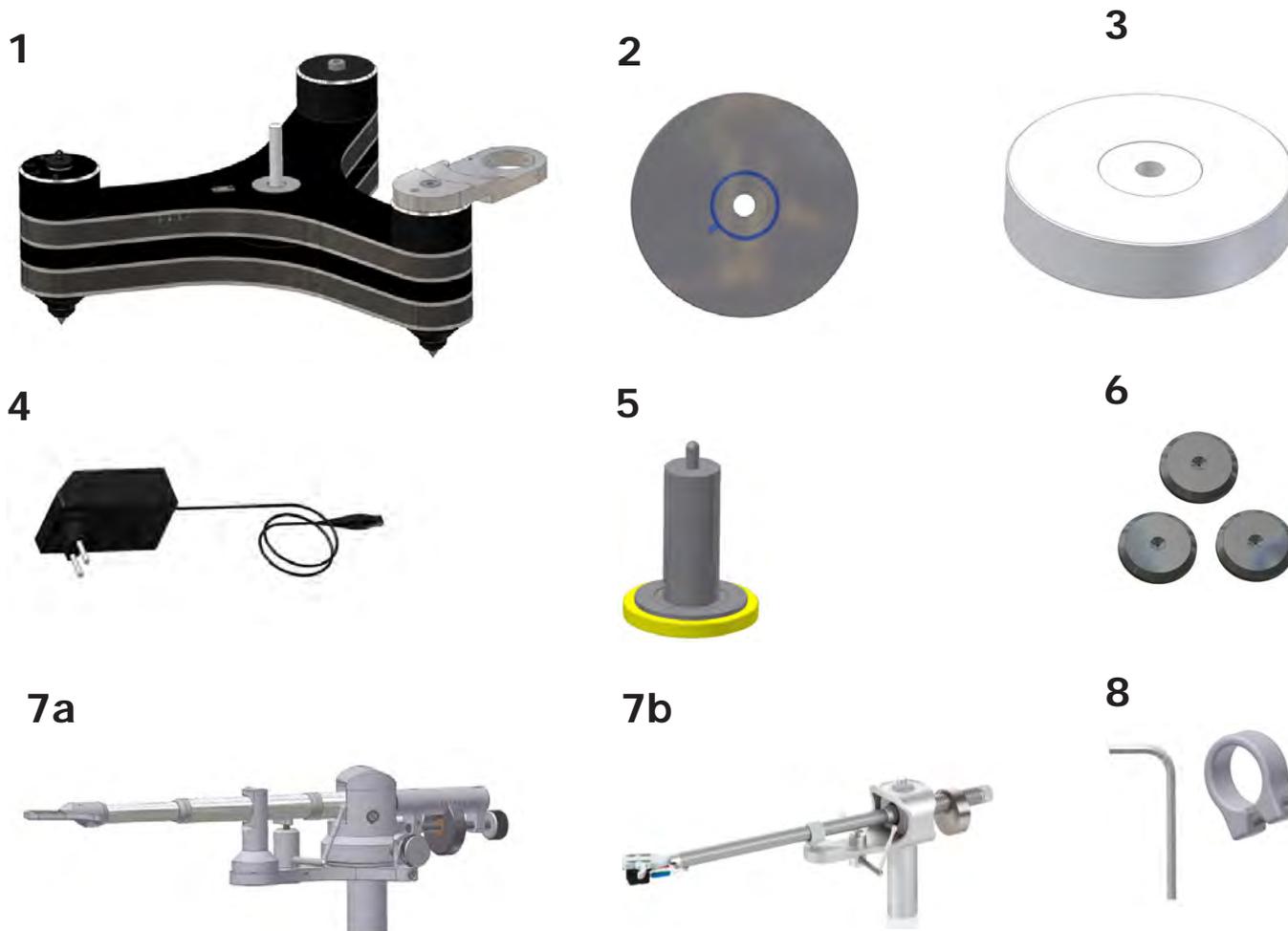


**Pic. 1:** Packing overview

## 2. List of components

**Clearaudio** has developed a special and secure packing for your *Innovation* turntable that ensures a safe transportation. Please keep this original packing, if you need to ship the turntable.

Below you find the part list of the **Clearaudio** *Innovation* turntable:



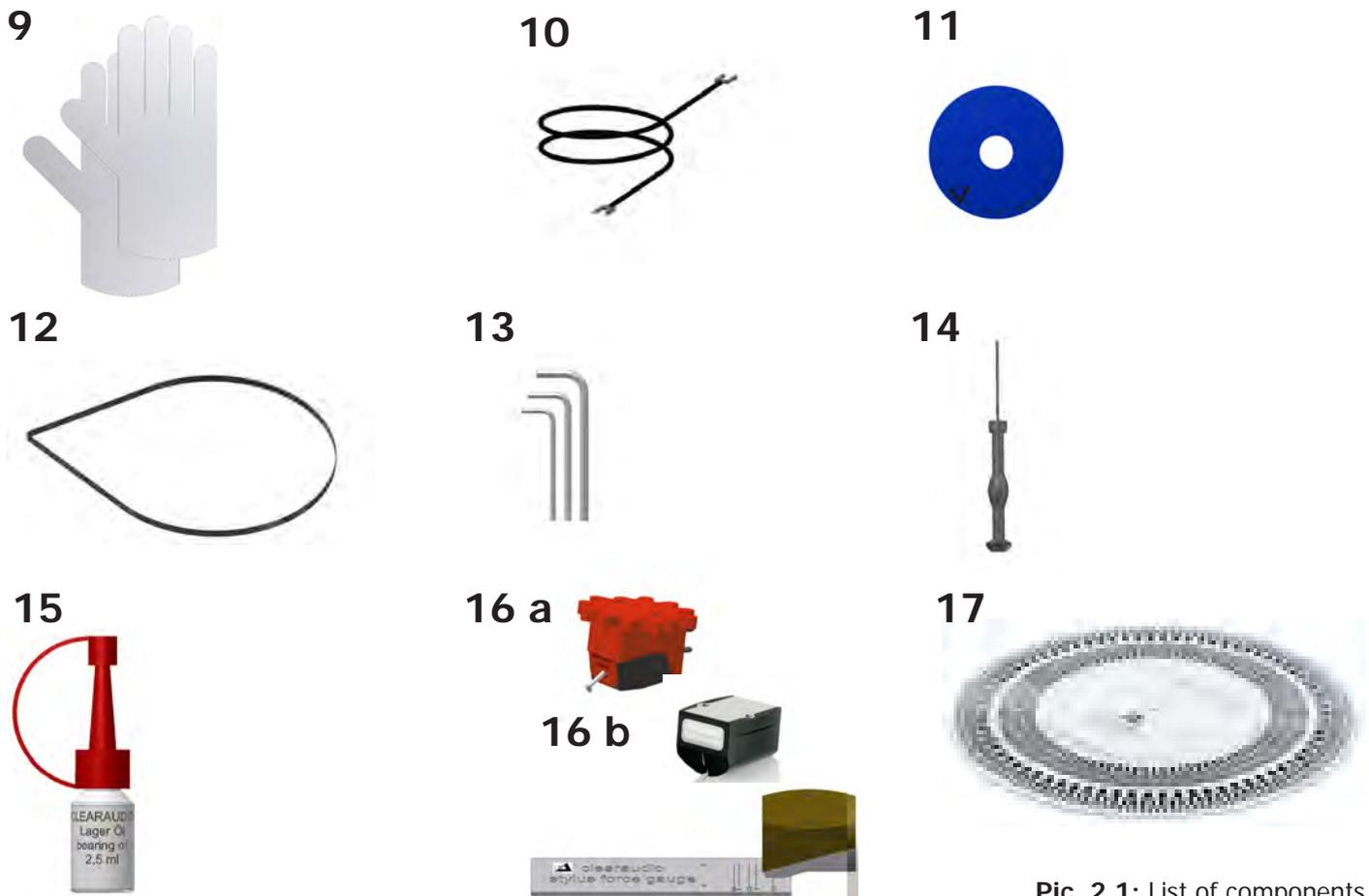
**Pic. 7a:** Clearaudio *Universal* tonearm

**Pic. 7b:** Clearaudio *Magnify* tonearm

**Pic. 2:** List of components

|    |  |    |  |
|----|--|----|--|
| 1. | Turntable body with mounted lower bearing part     | 5. | Bearing part   |
| 2. | Stainless steel sub-platter                        | 6. | 3 x Flat Pads  |
| 3. | Delrin or Acrylic (Wood version) turntable platter | 7. | Optional: <b>Clearaudio</b> <i>Universal</i> (7 a) or <i>Magnify</i> (7 b) tonearm with counterweight to adjust the tracking force |
| 4. | Power supply                                       | 8. | Mounting clip for stainless steel sub-platter and hex wrench   |

Continuation of components list



Pic. 2.1: List of components

|     |   |      |  |
|-----|---|------|--|
| 9.  | 1 Pair of white gloves  | 15.  | Bearing oil for occasional use   |
| 10. | Grounding - wire for the Innovation turntable (to connect in the bottom bearing part) | 16 a | Optional in package:<br><b>Clearaudio</b> MC cartridge <i>da Vinci</i>   |
|     |   | 16 b | <b>Clearaudio</b> MC cartridge <i>Talismann</i>  |
|     |   |      | <b>Clearaudio</b> <i>Smart Stylus Gauge</i>  |
| 11. | Level gauge for the turntable alignment   | 17.  | <b>Clearaudio</b> <i>Stroboscope Testrecord</i> (Art. No. AC038) to adjust the exact speed   |
| 12. | 1 pcs. flat belt  | 18.  | Optional in package:<br>Turntable + tonearm + cartridge<br>No illustration: <i>Cartridge alignment gauge</i> for <i>Unify</i> or <i>Universal</i> tonearm (optional) |
| 13. | 4 pcs. hex wrench; sizes: #1,5; #2,5; #3; #7  | 19.  | Not shown: warranty card, <b>Clearaudio</b> Quality Card, Sales return paper   |
| 14. | Screw driver  | 17.  | Not shown: User Manual   |

**IMPORTANT NOTICE:**

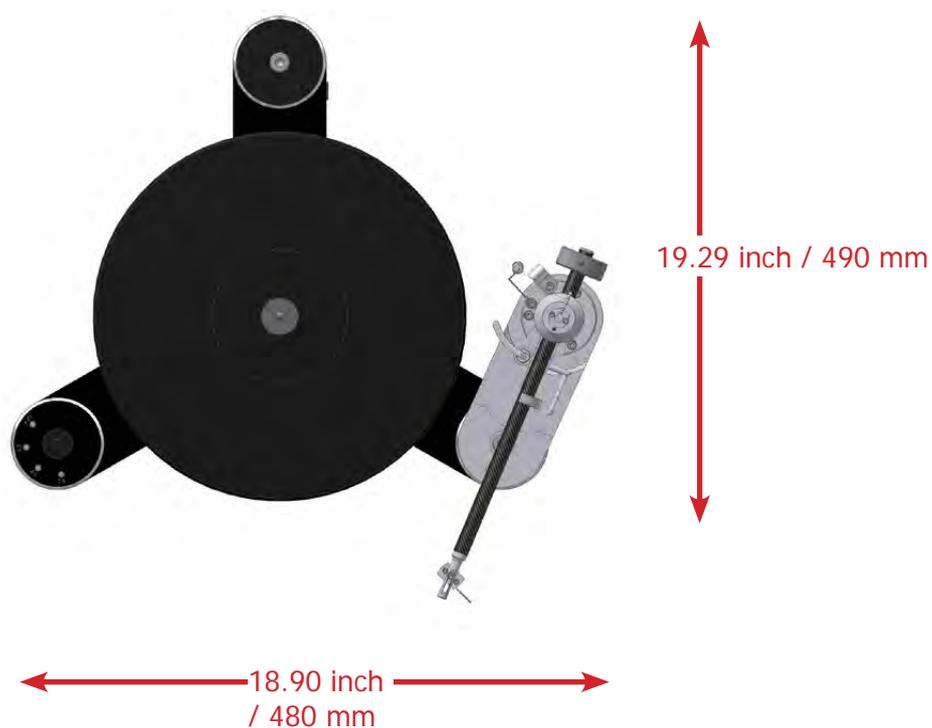
Please double check the tightness of all bolts, hardware, and mounting pods, as temperature fluctuations during transit may have caused the hardware to become loose.

### 3. Installation and set up

The setup of the *Innovation* 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 *Innovation* turntable requires a space for setup of at least 18.90 inch x 19.29 inch.



**Pic. 3:** Required set - up space

Please follow the description step by step:

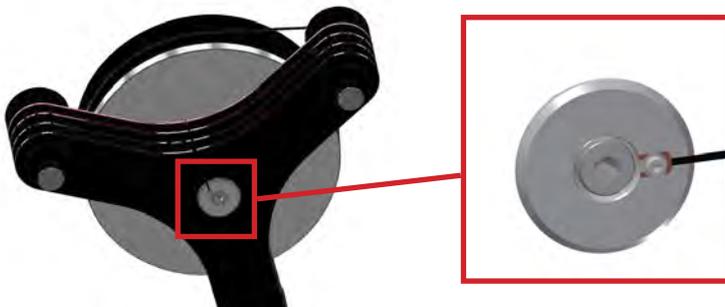
1.)  
First take out the three black flat pads out of the accessory bag.  
Place these flat pads on your hifi-rack or another suitable base, where the final position of your *Innovation* turntable will be.

2.)  
After that, take the *Innovation* turntable body of the next packing layer and place the spikes of the turntable on the flat pads.



Pic. 4: *Innovation* with tonearm base

3.)  
To avoid hum noises we recommend to ground the bearing. For that attach the supplied grounding wire to the bearing cap with the existing screw.



Pic. 5: Grounding the bearing of the *Innovation*

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

## User manual

### 5.)

Take the stainless steel platter with both hands carefully out of the box.  
Remove the lamination of the scale ring on the lower side of the turntable.

**Please remove the lamination extreme carefully and avoid any soiling and scratches.**

Push the delivered bearing part carefully through the hole in the stainless steel sub-platter and mount the bearing part with the sub-platter by using the mounting clip.



**Pic. 7:** Connection sub-platter and bearing upper part

### 6.)

In the next step remove the lamination of the sensor, mounted on the turntable chassis (picture 6: red frame).

**Please remove the lamination extreme carefully and avoid any soiling and scratches.**



**Pic. 8:** Removing the lamination

### 7.)

With both hands you can place the stainless steel platter carefully onto the bearing.  
Through a lightly (!! ) up and down movement the platter will slip onto the bearing upper part (picture 8).

Make sure with gentle pressure that the platter is applying on the complete surface of the bearing.

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



**Pic. 9:** Setup stainless steel platter with upper bearing part

### 8.)

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



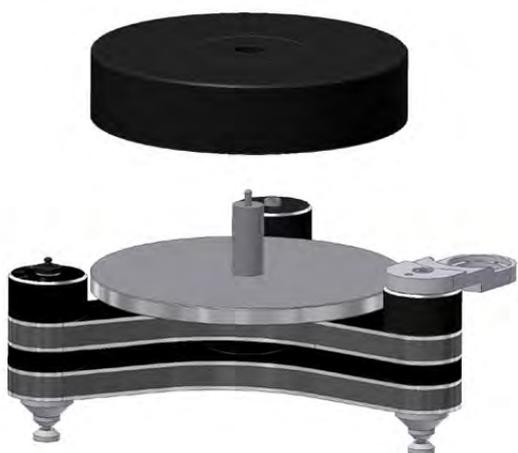
Pic. 10: Removing of the mounting clip

### 9.)

Take the Delrin platter with both hands out of the box and set the platter carefully onto the bearing.

The flat side of the platter should face to the stainless steel platter and the side with the cut-out (for the record) should face up.

To avoid any damages on your bearing, the Delrin platter should have room temperature before the setup begins (approx. 20 ° Celsius).



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

Pic. 11: Setup Delrin platter and bearing cap

You will find suitable adjustment equipment under [www.clearaudio.de](http://www.clearaudio.de) or [www.analogshop.de](http://www.analogshop.de).

### 10.)

To install the tonearm, please follow the user manual of the manufacturer.

## 11.)

To mount and adjust a cartridge, please follow the user manual of the manufacturer.

If you purchased your **Clearaudio Innovation** turntable as a package with tonearm and cartridge, you will find a *Smart Level Gauge* in your accessory, which will help you to adjust the tracking force of the cartridge:

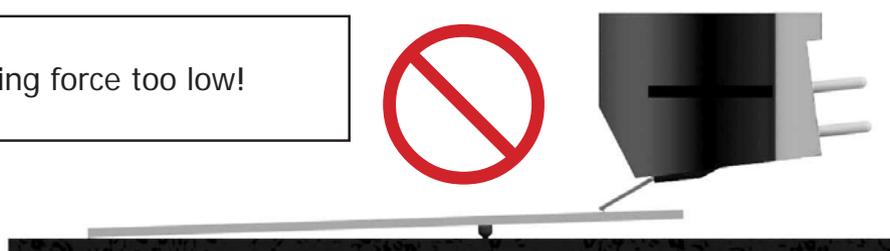
This position of the diamond correlates to a tracking force of 20 mN (2.0g).



tracking force too high!



tracking force too low!



**Pic. 12:** Use of Smart Stylus Gauge

12.)

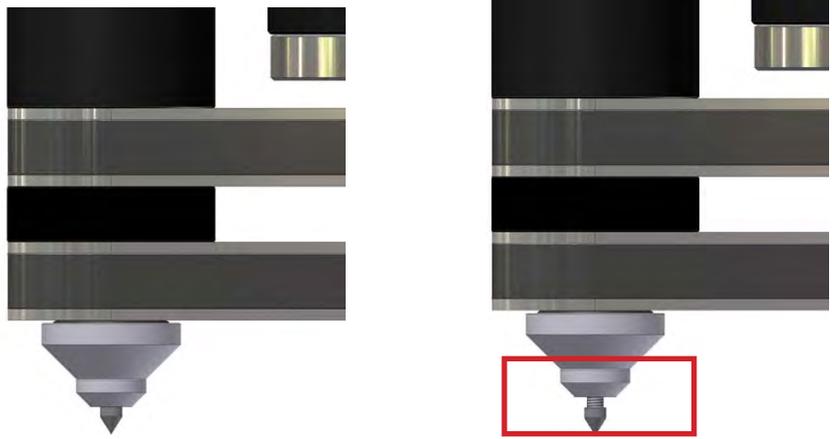
**The following final adjustment is very important:**

**Please ensure that your turntable rack is in a levelled position.**

Please check with the bubble level gauge, if your *Innovation* turntable is in a levelled position. You can adjust each of the turntables feet to get the turntable levelled. Only if the turntable is in a levelled position you will get the best results with your *Innovation* turntable.



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



**Pic. 13 b:** Adjustment of the turntables` feet

13.)

Please connect the mains plug to your power supply.



**Pic. 14:** Connection power supply and motor

14.)

Place the flat belt around the platter and around the motor pulley.

By pushing the sensor-switch, marked with "33 1/3" on the motor, the turntable starts to spin until 33 1/3 rpm is reached.

After the initial setup we recommend to let the turntable spin for at least 15 to 30 minutes. This ensures a smoother break in.

## 4. Fine adjustment of the *Innovation* motor

### 1.)

The motor adjustment is already pre set at the factory. Through the transport or through soiling on the sensor or the sensor ring some small speed deviations can occur.

Please check the speed before using the turntable for the first time.

For the correct adjustment of the speed please put the recommended **Clearaudio Stroboscope Testrecord** on the platter. Follow hereby the instruction of the *Stroboscope Testrecord* user manual. To check the speed with highest accuracy please use the **Clearaudio Speed Light** (Art. No. AC039, [www.analogshop.de](http://www.analogshop.de)).

On the front side of your turntable there are three setting trimmers (see Pic. 15).



- Left trimmer = setting 33 1/3 rpm  
(near turntable motor)

- Middle trimmer = setting 45 rpm

- Right trimmer = setting 78 rpm  
(near turntable bearing)

**Pic. 15:** Fine adjustment of the motor (on the backside)

If you like to adjust the speed 33 1/3 rpm, take the Aluminum screw driver (see accessories) and turn the left trimmer until you have reached the right speed according to the Stroboscope Testrecord (see user manual "Stroboscope Testrecord").

- Turning the trimmer counter clockwise = reduces the turntable speed
- Turning the trimmer clockwise = raises the turntable speed

Please proceed with the speed adjustment for 45 rpm and 78 rpm in the same way!

### **Please note:**

If the turntable does not reach the correct speed, the sensor or the scale ring could be dirty or dusty. To clean the sensor, please take off the platter very carefully!

Clean the sensor and the scale ring with a little isopropyl alcohol and a cotton bud.

Be careful and avoid any scratches on the sensor or the scale ring!

If the motor has further more speed variations please contact your nearest authorized **Clearaudio** dealer or directly the **Clearaudio** factory (address on page 14).

**If the turntable is not in use, disconnect the unit completely from the power supply by removing the main plug from the socket.**

Now you are finally ready to play your vinyl records.

We wish you a lot of pleasure with your new *Innovation* turntable.

## 5. Troubleshooting

If you have a problem with your *Innovation* 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.  |
| <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?                            | 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?  | Adjust the tracking force.  |
|   | Is the record deformed or scratched?   | Use a record clamp or replace the record.   |
|   | Is the turntable level?  | Check the alignment of the turntable and adjust if necessary.   |
| <b>Platter does not turn</b>                  | Is the drive belt properly attached?   | Check the position of the drive belt.   |
|   | Is the power cord connected properly?  | Check the connection.   |
|   | No speed was selected / speed selection in position „0“/“OFF“.                           | Select a speed and start the turntable.   |
| <b>Noisy sound</b>                            | Is the drive belt properly attached?   | Check the position of the drive belt. Is it too loose and needs to be changed?  |
| <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.   |
|   | Metal housing acts as an antenna and catches hum.  | It can be helpful for conductivity to connect the metal parts of the turntable to the ground of the (phono) preamplifier. The turntable provides a grounding terminal for this purpose. Use a sufficiently thick wire to establish the ground connection. |
|   | 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.   | Adjust the speed according to the operating instructions.   |

## 6. Technical data

|                                   |   |
|-----------------------------------|---|
| <b>Construction details:</b>      | <ul style="list-style-type: none"> <li>• Resonance-optimised chassis shape</li> <li>• Made of bullet proof wood and aluminium with precision CNC machined surface</li> <li>• All turntable feet are finely adjustable</li> <li>• Playback with two tonearms possible</li> </ul> |
| <b>Speed options:</b>             | 33 1/3, 45, 78rpm   |
| <b>Drive unit:</b>                | <ul style="list-style-type: none"> <li>• High torque 24V DC motor exclusively made for <b>Clearaudio</b>; Optical Speed Control (OSC) in real time through infrared sensor</li> <li>• Decoupled DC motor in chassis; resonance damping device; belt-drive</li> </ul>            |
| <b>Bearing:</b>                   | <b>Clearaudio</b> CMB ceramic magnetic bearing in main platter / upper drive platter assembly. Inverted bearing in lower drive platter.   |
| <b>Platter:</b>                   | 70mm / 2.75 inch main platter, made out of synthetic material with high-density and excellent dimension stability, precision CNC machined surface, solid stainless steel sub-platter, dynamically balanced  |
| <b>Speed accuracy (measured):</b> | < ± 0.05%   |
| <b>Power consumption:</b>         | Max. consumption: 9.3 watts<br>Consumption in operation: 2.5 watts<br>Standby mode: 2.5 watts<br>Off mode: 0.0 watts  |
| <b>Total weight:</b>              | Approx. 24kg (without tonearm and power supply)   |
| <b>Dimensions (W/D/H):</b>        | Approx. 18.11 x 19.09 x 8.66 inches<br>(with tonearm base, without tonearm)   |
| <b>Dimensions (W/D/H):</b>        | Approx. 460 x 485 x 220mm<br>(with tonearm base, without tonearm)   |
| <b>Manufacturer's warranty:</b>   | 5 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.



Loving music

## User manual

The full, extended warranty period for the *Innovation* turntable is 5 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 can be considered.

The full 5 year warranty can only be honoured if the product is returned in its original packing.

### ENGLISH 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.

### FRANÇAIS GARANTIE

Pour des informations sur la garantie, contacter le distributeur local **Clearaudio**.

#### **CONSERVER L'ATTESTATION D'ACHAT**

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec **Clearaudio**.

#### **IMPORTANT**

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

### DEUTSCH GARANTIE

Bei Garantiefragen wenden Sie sich bitte zunächst an Ihren **Clearaudio** Händler. Heben Sie Ihren Kaufbeleg gut auf.

#### **WICHTIG!**

Die Angaben auf Ihrer Quittung erlauben uns die Identifizierung Ihres Gerätes und belegen mit dem Kaufdatum die Dauer Ihrer Garantie-Ansprüche. Für Serviceleistungen benötigen wir stets die Gerätenummer. Diese finden Sie auf dem Typenschild auf der Rückseite des Gerätes oder auch in der beige-fügenden Garantie-Registrierkarte.

### NEDERLANDS GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke **Clearaudio**.

#### **UW KWITANTIE, KASSABON E.D. BEWAREN**

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verbend met verzekering of bij correspondentie met **Clearaudio**.

#### **BELANGRIJK**

Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

### ITALIANO GARANZIA

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose. Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente. La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

### ESPAÑOL GARRANTIA

Para obtener información acerca de la garantía póngase en contacto con su distribuidor **Clearaudio**.

#### **GUARDE SU RECIBO DE COMPRA**

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con **Clearaudio**.

#### **IMPORTANTE**

Cuando solicite el servicio otorgado por la garantía el usuario tiene la responsabilidad de demostrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

# Stroboscope Testrecord



The **Clearaudio Stroboscope Testrecord** satisfies the highest demands for an exact speed adjustment for turntables. Dramatic sound improvements can be reached only with exact calibrated speeds.

## - Optimal adjustment for turntables -



To adjust the exact speed, please choose the side for 50 / 60 Hz, or the other side for the use with the speed light first. If you choose the side without the speed light source, you can use the regular light source for the installation, either 50 Hz (outer scales) or 60 Hz.

The scales are graduated in three different reading options: 33.3 Hz, 45 Hz and 78 Hz (starting from the outer diameter).

Please place the *Stroboscope Testrecord* on your turntable platter and start the engine of your turntable. The big advantage of the **Clearaudio Stroboscope Testrecord** is, that you can place your cartridge onto the *Stroboscope Testrecord*, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances.

If you have the impression that the horizontal lines move on the scale, you should set or readjust the speed of the motor again.

- If the lines move clockwise, the speed is too fast.
- If the lines move counter clockwise, the motor speed is too slow.

Please correct the speed on your motor or turntable until you have the impression that the lines stopped moving. After that you have reached the exact speed and you can enjoy the full potential of your vinyl collection again.



If you use the *Speed Light* (Art. No. AC039) you can reach an even higher or more accurate adjustment, completely independent of the power line or frequency of your country. As well, the 300 Hz calibrated light, used as an external light source is completely independent from possible power line fluctuations, which could influence the result by regular light. The 300 Hz of the *Speed Light* are generated by a stabilized quartz oscillator and permit a very exact adjustment. Please put the *Stroboscope Testrecord* with the fine lines upward on your turntable. Here you also have the possibility to choose between

two different speeds.

With the outside scale you can detect the speed of 33 Hz and with the inside scale you can detect the speed of 45 Hz. Again, the big advantage of the **Clearaudio** *Stroboscope Testrecord* is, that you can place your cartridge onto the *Stroboscope Testrecord*, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances.

Press the button of the speed light source and place it parallel over to the scale and adjust the motor or turntable speed until the horizontal lines do not move anymore.

### - Tip -

As more accurate your turntable speed is adjusted, as better the overall sonic appearance of the record playback will be!

It is mandatory to check the speed several times through out the year, to ensure that other influences are not minimizing the sound quality.

### Technical Data:

#### *Speed Light*

**Light source:** blue LED / 300 Hz precision light source (calibrated)

**Battery:** V23GA – 12 V – Alkaline (Art. No.: AC039/B)

(Technical changes are subject without notification)

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Loving music

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