

Ambient

User Manual



Loving music

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DEAR AUDIO ENTHUSIAST

Thank you for your decision to purchase a *Ambient* turntable from clearaudio. This turntable is manufactured to the highest degree of tolerance and quality.

Please take a moment to read this owner's manual to ensure correct set up, to avoid any possible damage and to learn how proper care of your **clearaudio Ambient** turntable which will give you many years of musical enjoyment and pleasure.

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

Warnings

Do not expose the equipment to rain or moisture.
Do not remove the cover from the equipment.
Do not insert anything into the equipment through the ventilation holes.
Do not handle the mains lead with wet hands.
No naked flame sources, such as lighted candles, should be placed on the equipment.

CE-MARKING

CE The clearaudio *Ambient* conforms with the EMC directive and low voltage directive.

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 powered by 230 V AC only.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- Any subsequent statutory enactments and orders

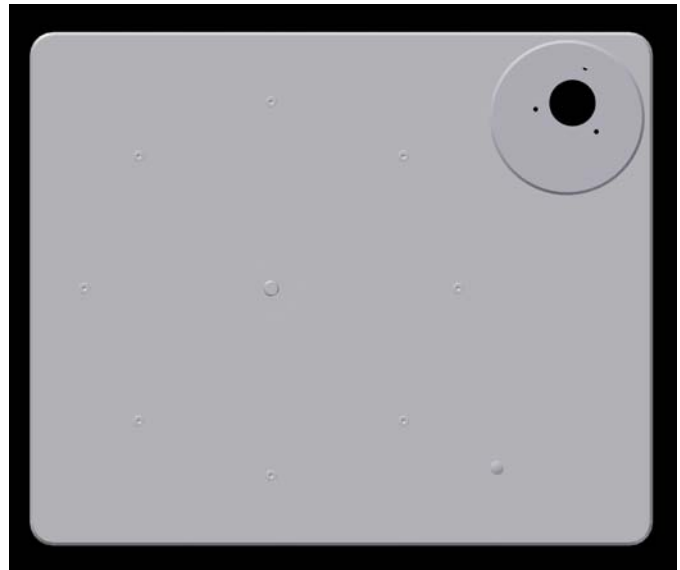
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Package view

1. floor:

Turntablechassis



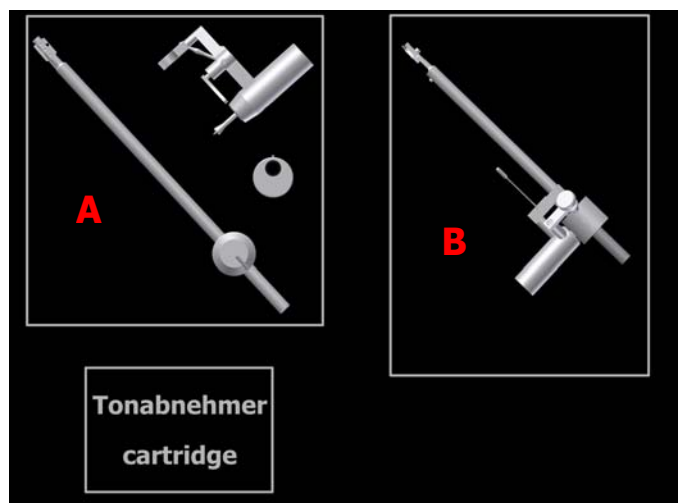
2. floor:

**Motorunit
Power supply unit
Platter incl. Upper part of bearing**



3. floor

**Optional, if the Ambient
is ordered in a package:
A: Unify tonearm
B: Satisfy tonearm
(according your order)
cartridge, accessories**





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1. Frontview

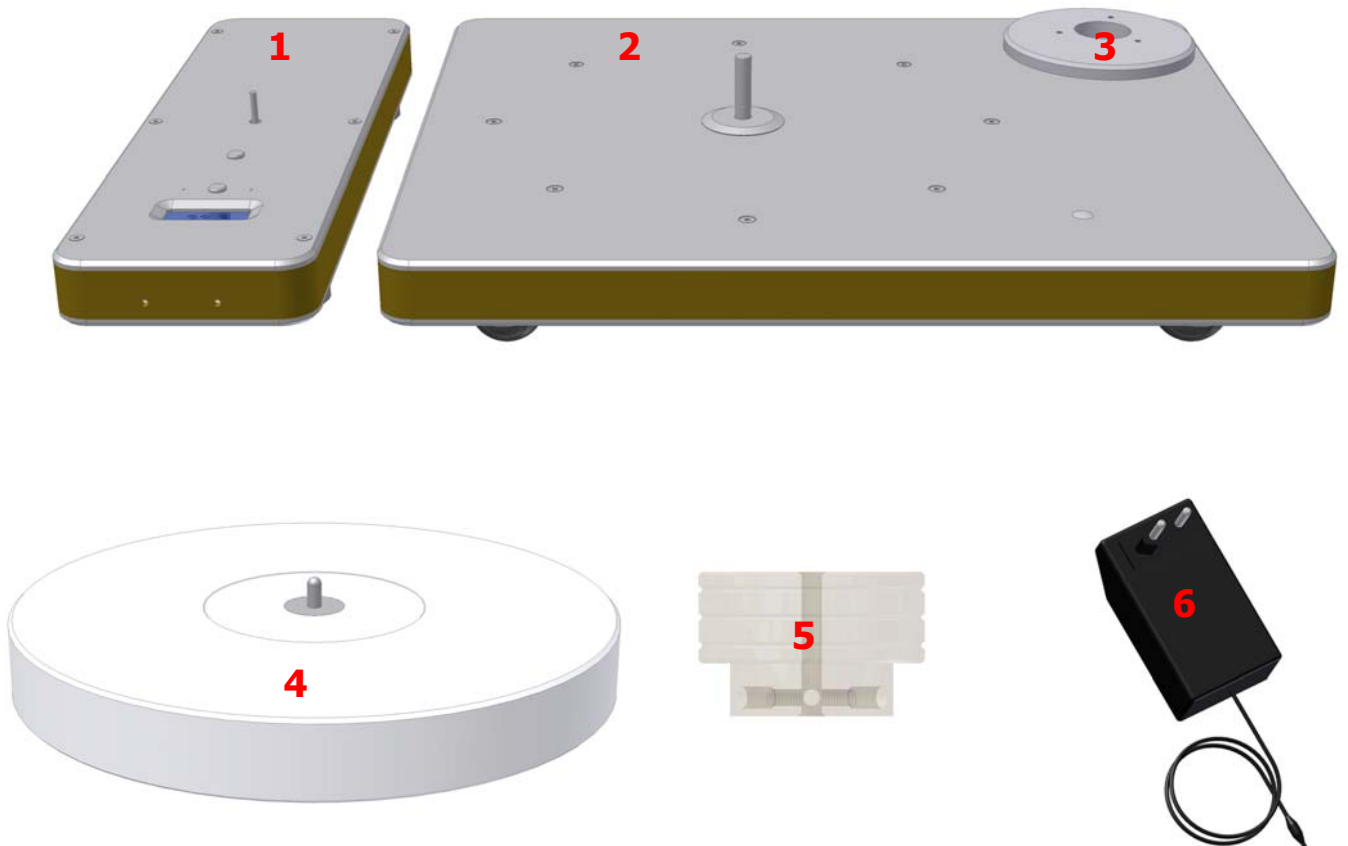
The photo below shows the **clearaudio Ambient** turntable assembled and set up with the **clearaudio Satisfy** tonearm and the **clearaudio Concerto** MC-cartridge. You can see the use of carefully selected materials and the resonance avoiding construction.



Ambient assembled and set up

2. Package contents

The **clearaudio Ambient** turntable is delivered in a special packaging to ensure its safe transport. Please check the contents as per list below:



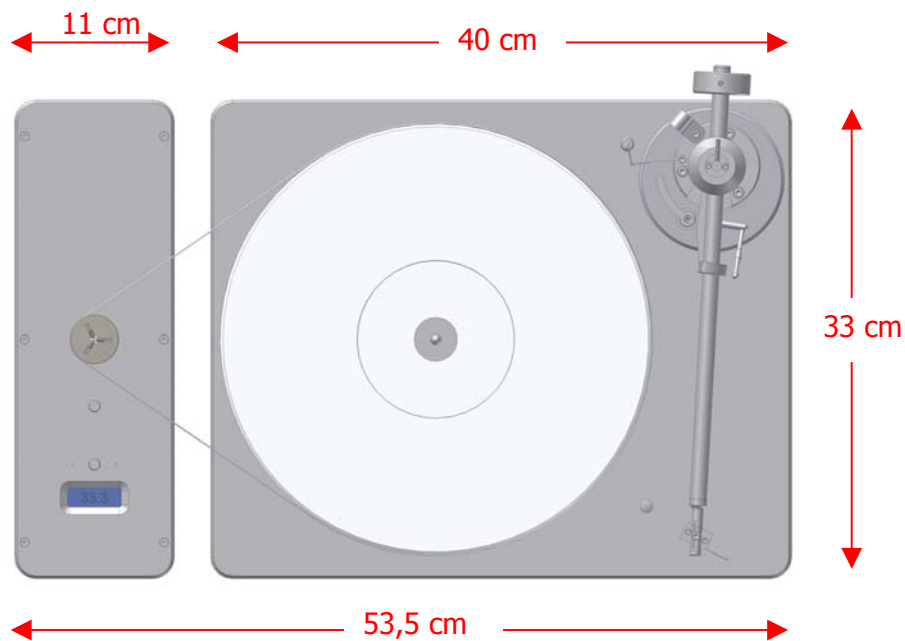
1	Motorunit with included „mini Syncro“ unit	2	Chassisplate 70-layers wood sandwich, silver anodised aluminum top & bottom plate
3	Tonearmbase (preassembled)	4	High-precision turntable platter made of solid silicon acrylic with patented, inverted bearing with ceramic ball bearing
5	Pulley made of acrylic including fixing screws	6	Power supply unit(incl. 3 different plug units; EU, USA and GB)



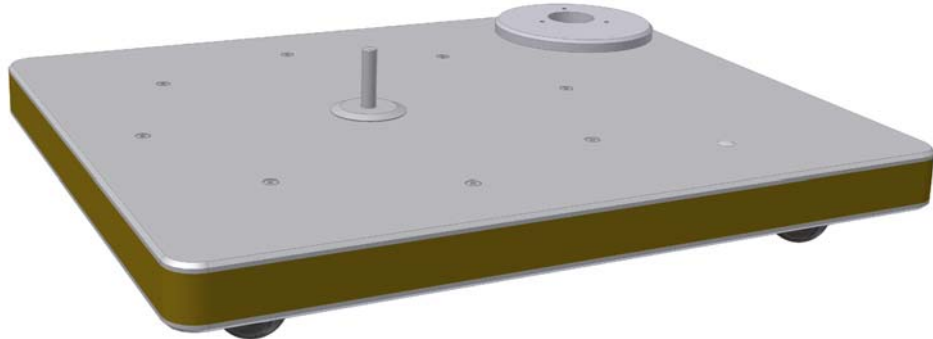
7	Optional tonearm: (A-Unify/B-Satisfy) incl. accessory	8	Groundingcable for the bearingscrew
9	Clearaudio Clever Clamp	10	Shynthetic bearing oil (5 ml)
11	Screwdriver (for fixing the pulley)	12	levelgauge
13	Silent Belt Ø 1mm (2 x, therefrom 1 x spare)	14	Pair of white gloves
15	hexkeywrench	16	Warranty card (not shown)

3. Assembly and Operation

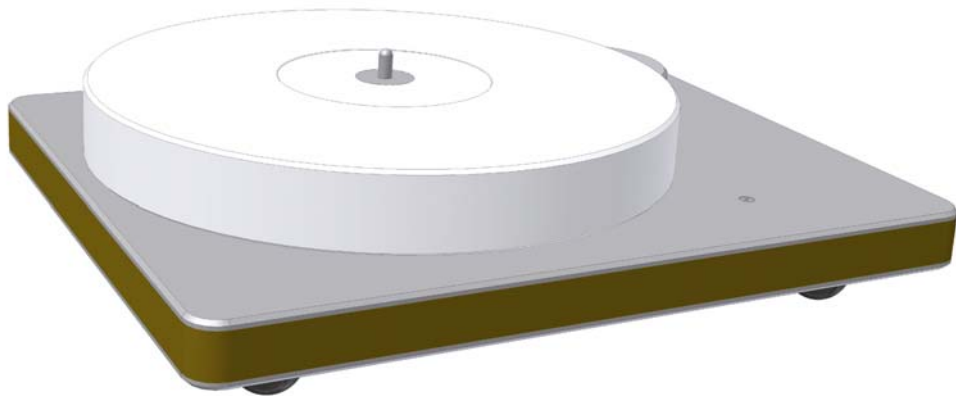
After you have checked the package contents as described in section 2, lay the parts out on a clean, safe flat surface for the **clearaudio Ambient** assembly. Assembly is fairly simple and straight forward as many parts have been preassembled at the factory. Please use the white gloves provided to prevent scratches and/or fingerprints during assembly. The smallest placing area for your **clearaudio Ambient** is 530 x 330 mm.



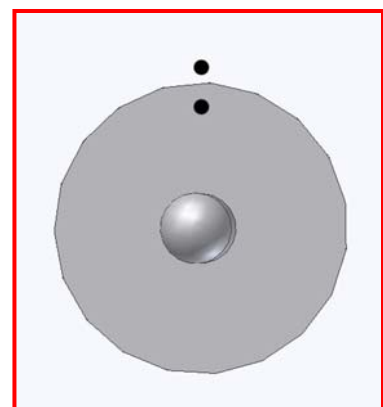
Place the premounted chassisplate on any good turntable rack area optimised for low sensitivity of acoustical feedback.



Unpack the turntable platter with the upper part of the platter bearing. Remove the protective security tape from the bearing housing and place this unit carefully over the spindle mounted in the turntable chassis. Do not use too much pressure for this step otherwise you will cause damage to the bearing. Caution: pay attention not to place any of the grease on the acrylic surface of the chassis.



Due to the high precision machining there could be left some air inside the bearing. The air will flow out after several turns of the platter. Please make sure that the two markings on the turntable platter and on the bearing are in one line (as shown in figure below). The correct position of these markings is very important, because they had been calibrated at the factory.



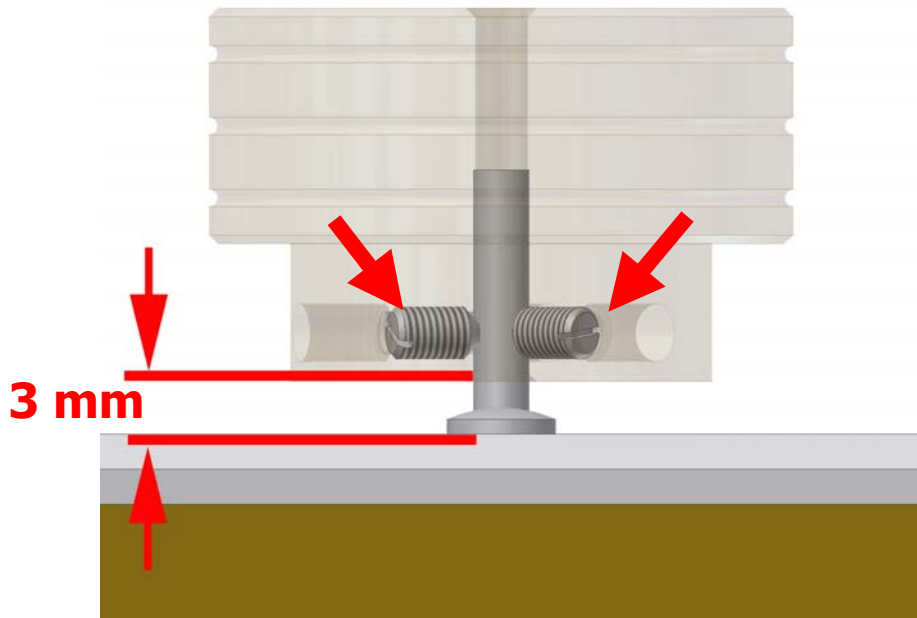


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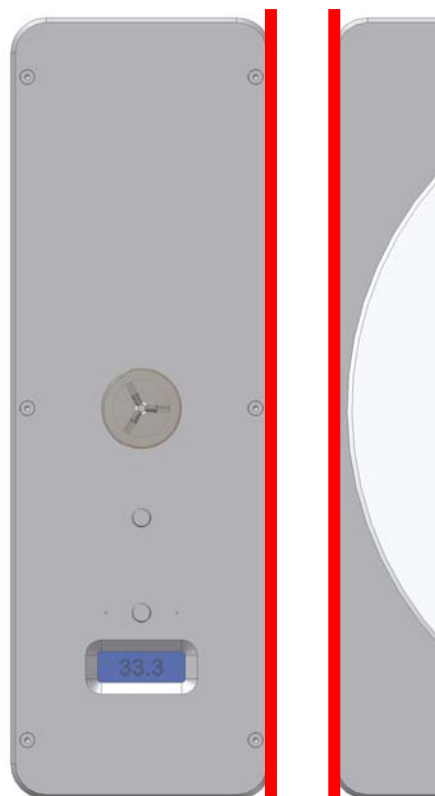
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Place the pulley on the motor spindle. The distance between the pulley and the motor housing should be approx. 1 mm. Tighten the three little screws inside the pulley with the aluminium screwdriver provided.



Place now the motorunit beside your Ambient turntable. The distance between the motorunit and the turntable should be **2 - 2,5 cm!**



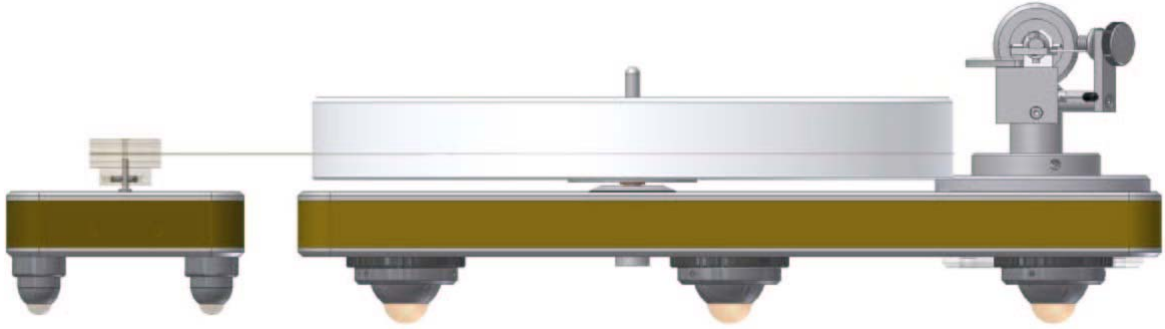


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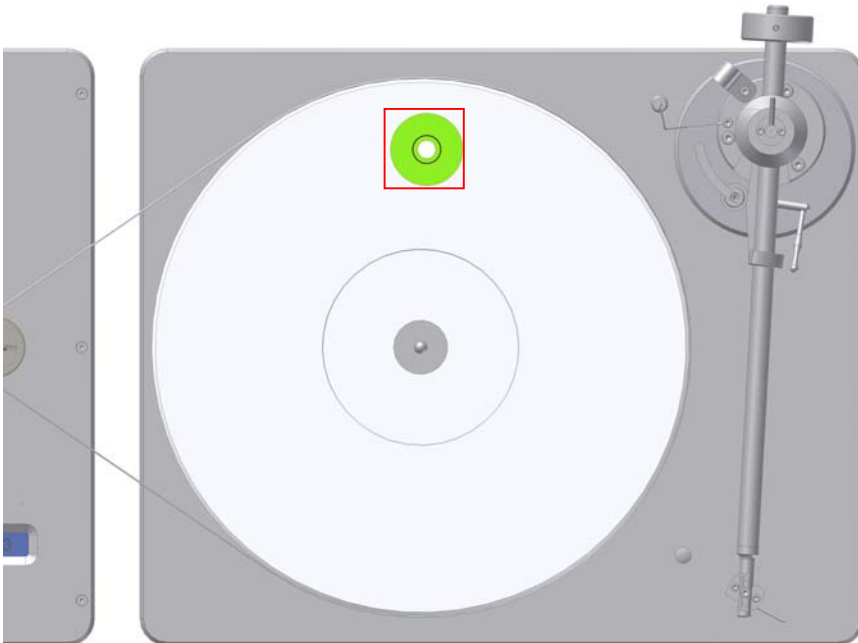
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Now place the belt, on the pulley of the motor unit. Please turn with your hand the platter some turns, that the belt is parallel.



The following adjustment is very important:

Should the air bubble in the level gauge not be in the black circle (see at the blow up), please ensure then that your underground so will be according aligned. Only if the turntable will be aligned you will receive the optimum on sound.





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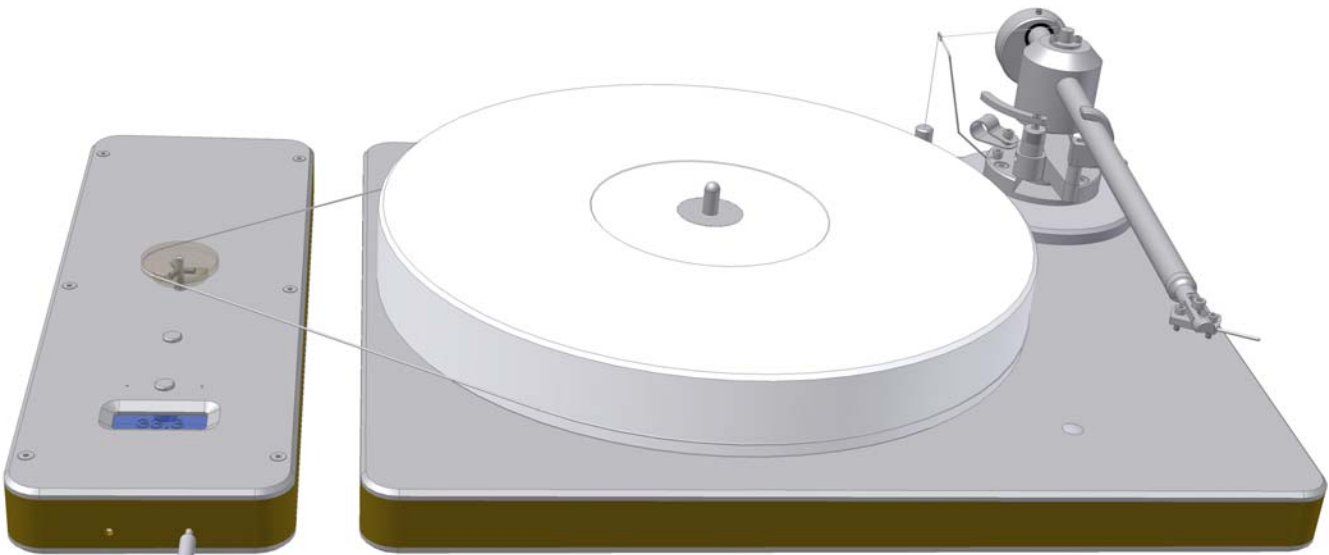
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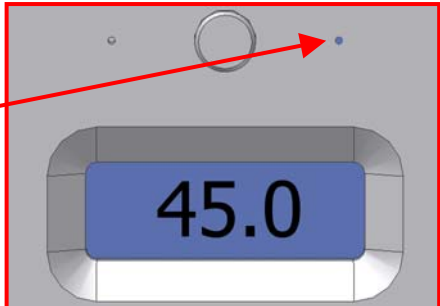
Connect now the power supply unit with the motorunit. After starting the motor unit, can you exact calibrate the turning speed with the included screwdriver (shown in the pictures below)!



Calibration for 33 1/3 rpm.
Exactly 33 1/3 rpm shows the display 33.3! (left LED is glowing at 33 1/3)



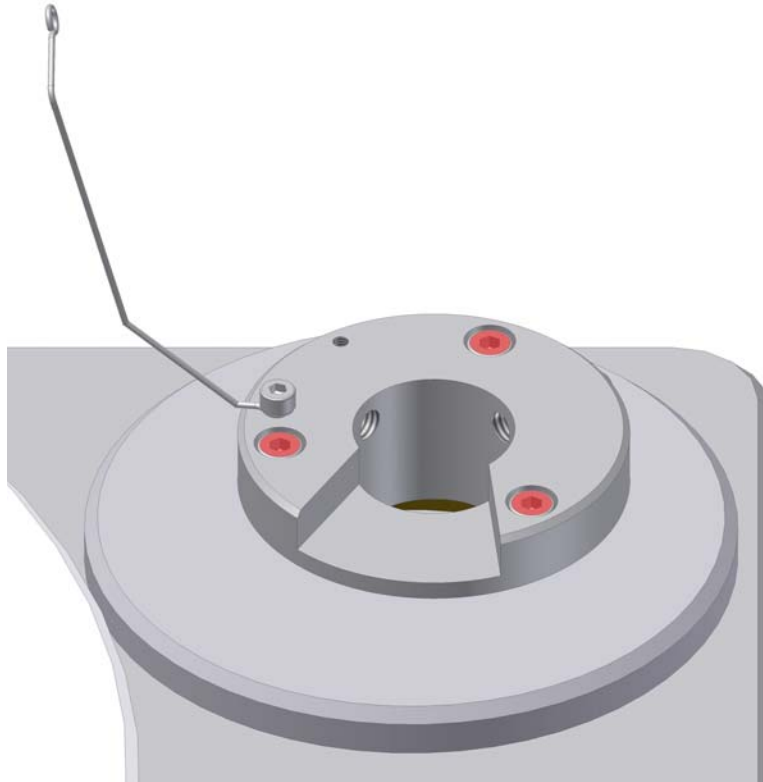
Calibration for 45 rpm.
Exactly 45 rpm shows the display 45.0! (right LED is glowing at 45)



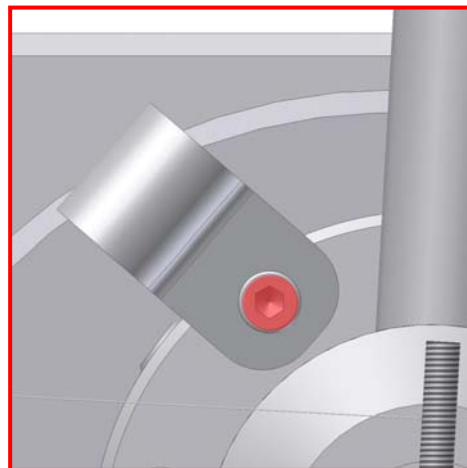
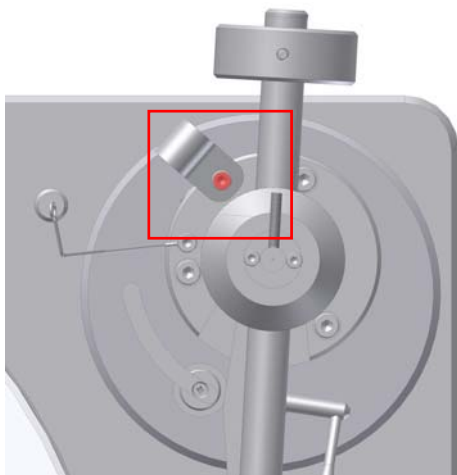
4 Tonearm mounting

4.1 Unify mounting

Mount tonearm base to Ambient armboard. Use the screws without nuts (M4x20) and place it like the red marked screws.



Carefully remove the security zip tie and unwrap the arm tube. **Caution:** *Once the security zip tie is removed not to inadvertently pull it out of the armwand.* Now, place the arm tube on to the pivot point and lock it into it's arm rest. Use the cable strain relief screw (M4x10) and washer (red marked screw in the picture below) to secure the cable to the tonearm base.





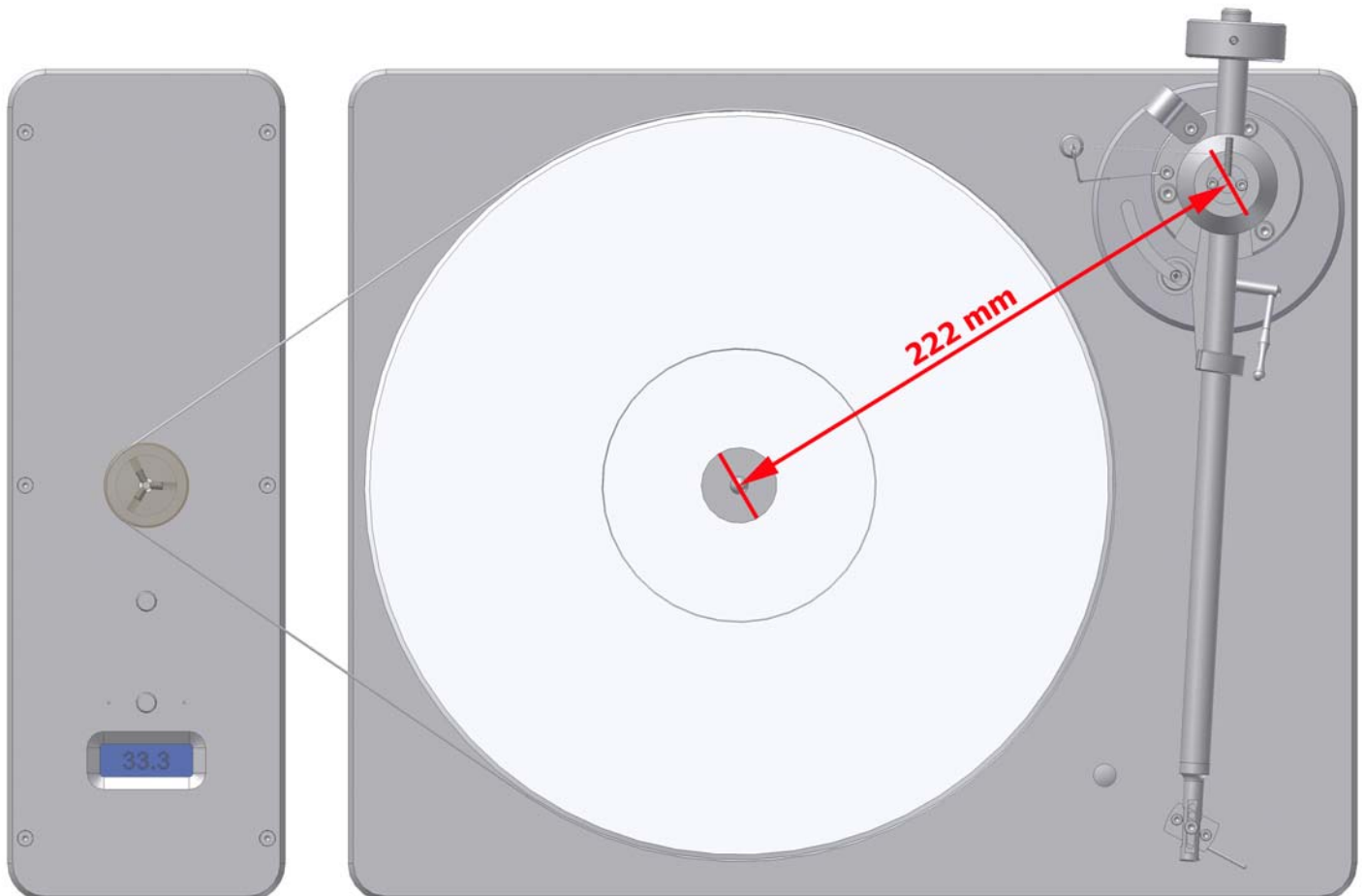
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Insure that the distance from the spindle to the pivot point of the tonearm is exactly 222 mm. Moving the armboard in one direction or another will allow you to locate the correct position. Once located, tighten the armboard down. Shown in the picture below. You can also use the optional clearaudio cartridge alignment gauge.

For the exact adjustemts should be the cartridge mounted! Please follow therefor the instructions of the cartridge user manual!



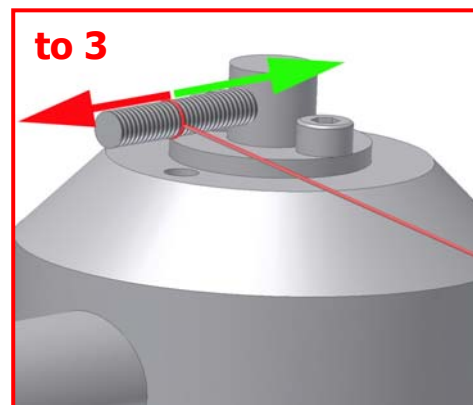
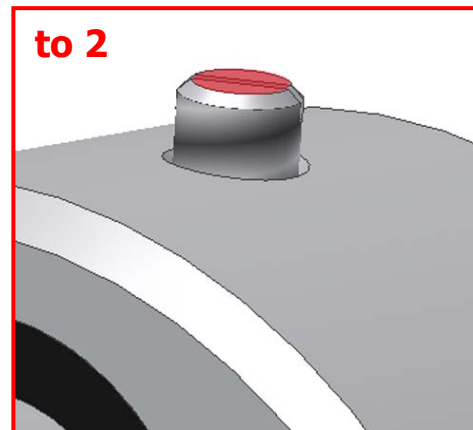
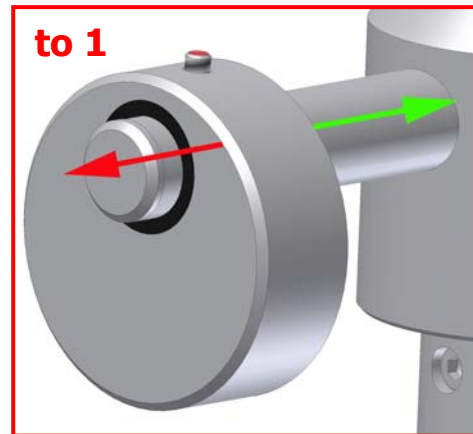
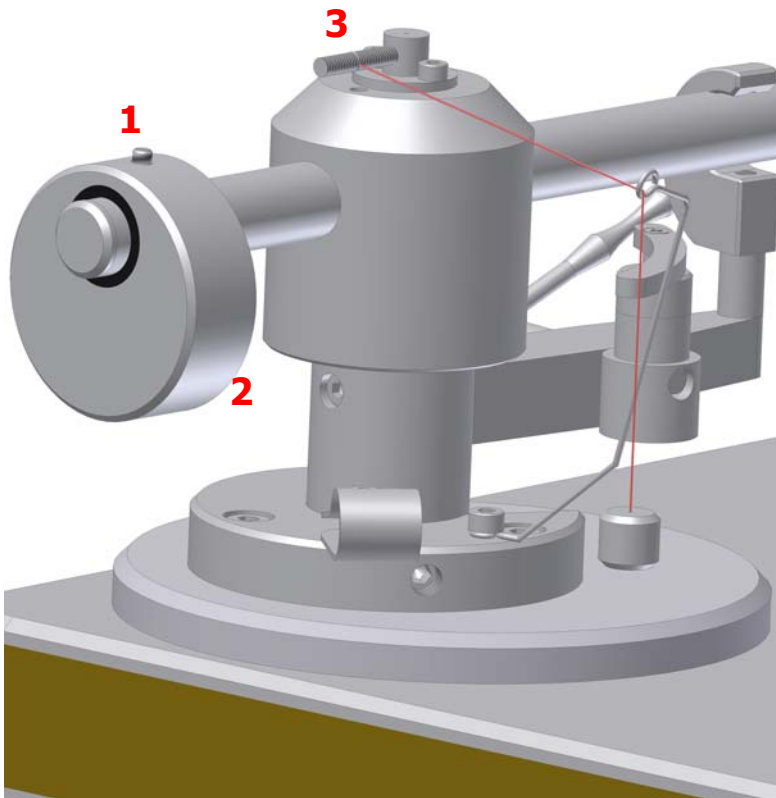


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Attach the clearaudio Turbo Weight on the end of the tonearm (1). Set tracking force using the clearaudio Exact stylus pressure gauge (see cartridge instructions for recommended tracking force range). Adjusting tracking force is accomplished by moving the weight towards or away from the pivot point on the shaft (to 1). **Note:** *When tightening the counter-weight, insure that the weight is perfectly vertical otherwise this may affect your cartridges azimuth settings.*



Feed the anti-skate weight through the anti-skate support wand and secure it to the threaded shaft at the top of the tonearm bell (to 3). **Note:** *Attaching the string to the position closest to the pivot point is equal to approx 0.5 grams of anti-skate. Each additional 1/8" out on the shaft will give you another 0.5 grams of anti-skate force with a maximum of 3.0 grams if affixed to the end of the shaft. (green arrow = lesser antiskating / red arrow = more antiskating).*

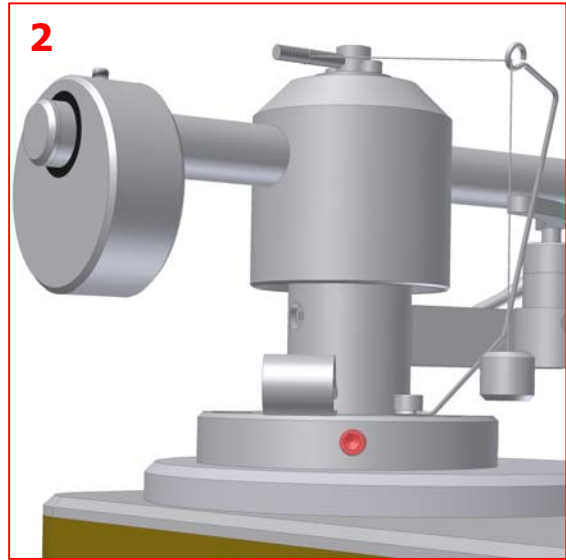
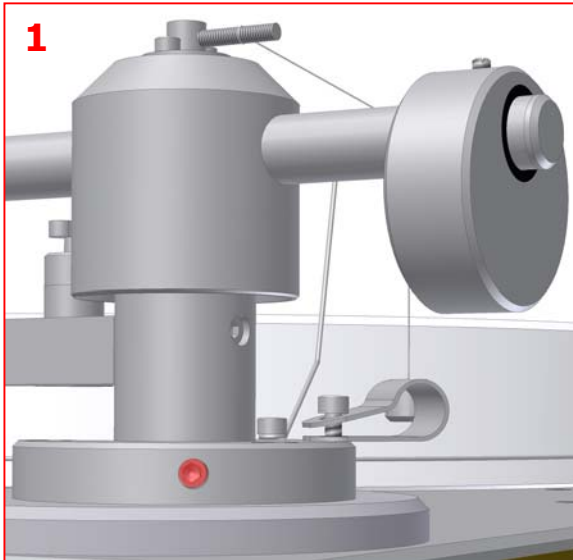


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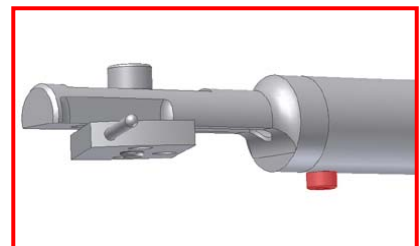
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VTA adjustments are accomplished by loosening the two lock screws on the side of the armboard base (shown in picture 1 and 2). Once loose, you can move the arm up or down to achieve the desired VTA. Tighten both screws when finished. Re-check tracking force after adjusting VTA.



Azimuth adjustments are facilitated through the small (1,5 mm) Allen screw (red marked screw) on the bottom side of the armwand where the headshell enters the carbon fiber. Once you loosen this screw, you'll be able to rotate the headshell a small amount in either direction. Be sure to tighten the screw when done.





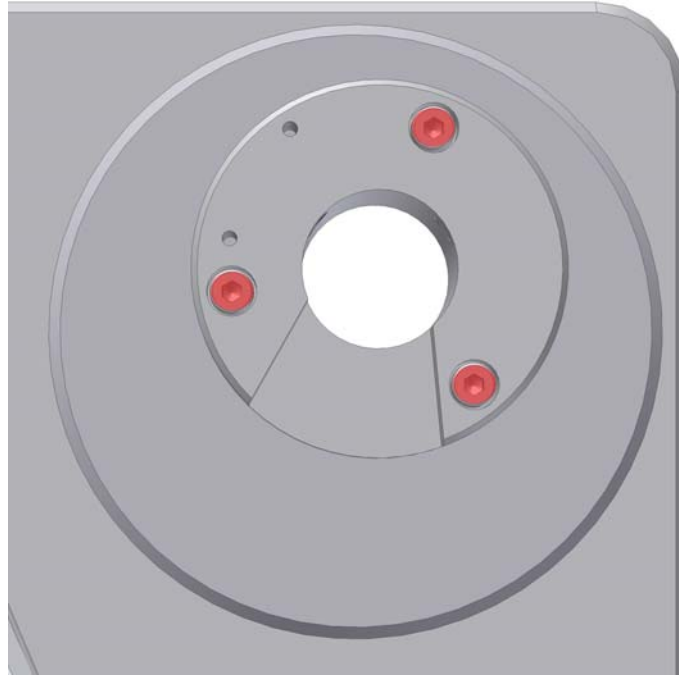
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4.2 Satisfy mounting

Mount tonearm base to Ambient armboard. Use the screws without nuts (M4x20) and place it like the red marked screws.



Please put careful the cables and the tonearm through the armboard, pay attention that no wire will be damaged! Now fix the tonearm with the 2 screws on the right and the left side, not to much, so that you can adjust it in the next steps!





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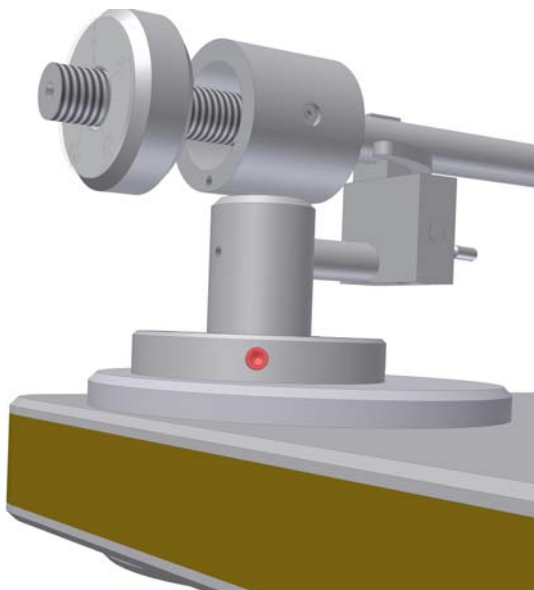
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Insure that the distance from the spindle to the pivot point of the tonearm is exactly 222 mm. Moving the armboard in one direction or another will allow you to locate the correct position. Once located, tighten the armboard down. Shown in the picture below. You can also use the optional clearaudio cartridge alignment gauge.
For the exact adjustments should be the cartridge mounted!

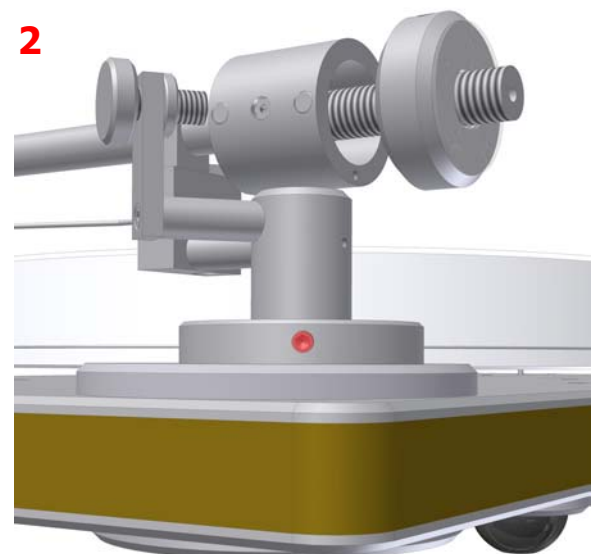


VTA adjustments are accomplished by loosening the two lock screws on the side of the armboard base (shown in picture 1 and 2). Once loose, you can move the arm up or down to achieve the desired VTA. Tighten both screws when finished. Re-check tracking force after adjusting VTA.

1



2





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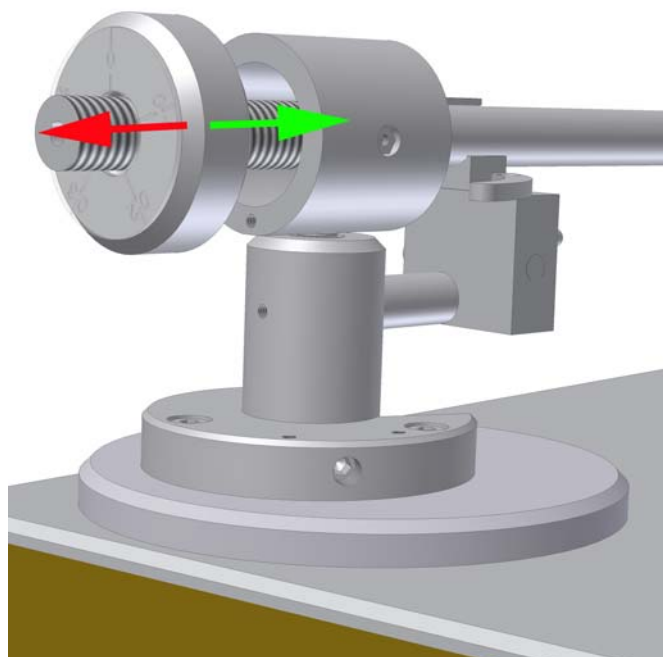
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Azimuth adjustments are facilitated through the small (1,5 mm) Allen screw (red marked screw) on the bottom side of the armwand where the headshell enters the carbon fiber. Once you loosen this screw, you'll be able to rotate the headshell a small amount in either direction. Be sure to tighten the screw when done.



Wind the counterweight on the tonearm-tube. You can adjust the tracking force of your cartridge by turning the counterweight (shown in the picture below) (**green arrow = more tracking force / red arrow = lesser tracking force**).



Now you are ready for the antiskating adjustment. This also depends on the tracking force of the cartridge and the diamond shape.

<u>alignment of the antiskating</u>		<u>tracking force</u>		<u>position of the antiskating-screw</u>
minimal antiskating	→	10 – 15mN	→	see illustration 1
medium antiskating	→	15 – 20mN	→	see illustration 2
maximum antiskating	→	20mN and more	→	see illustration 3

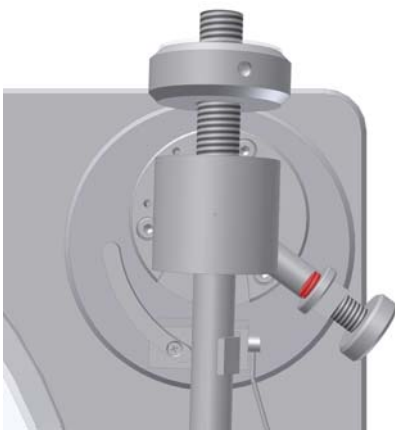


Illustration 1
(minimal Antiskating)

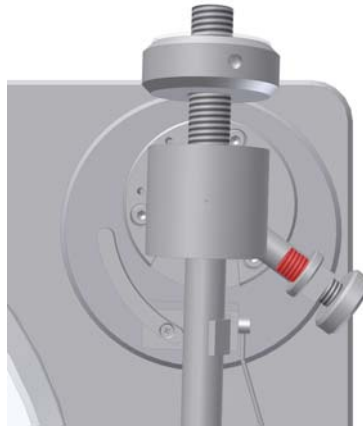


Illustration 2
(medium Antiskating)

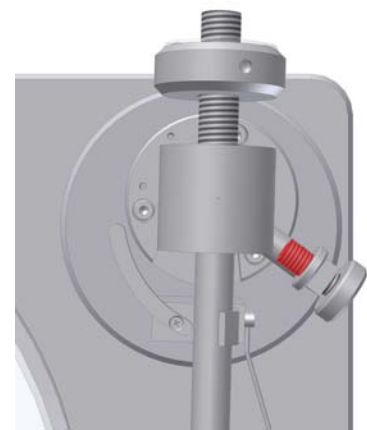


Illustration 3
(maximum Antiskating)

The general set-up is now finished.

Connect your *Satisfy*-tonearm now with the phono input of your phono-preamplifier. (More information on adequate phono-preamplifiers and interconnects you can find on our Website www.clearaudio.com).

You can now place a record on the platter, affix it with the enclosed clever-clamp and finish your cartridge adjustments.



Now you are finally ready to play your vinyl records.
We wish you a lot of pleasure with your new *Ambient*-turntable.



5. Special information

To achieve the full **clearaudio** warranty, it is necessary that you fill out and send the corresponding part of the warranty registration card back to clearaudio, within two weeks after purchase. Only if the product is returned in its original packing **clearaudio** can provide the warranty.

Transportation advice: If any transportation of the *Ambient*-turntable should be necessary, please always remove the turntable platter. Otherwise serious damage can occur! The bearing hole needs to be covered as well, to avoid any dust coming into the bearing. Always take of the pulley of the motor unit as well, to prevent the motor shaft from any damages.

If the *Ambient*-turntable is a longer time not in use, please disconnect the motor from the mains supply.

Every two years you can lubricate (only if you will recognize speed variations) the bearing of the turntable platter with the delivered oil. In this case it is enough to put 4 or 5 drops of the oil into bearing.

Please take special caution to any damages of the power cord. Any damages should only be repaired only by authorized personal. A damaged power cord must be exchanged immediately!

6. Service

If any service or repair on all **clearaudio** products is necessary, please contact your dealer / distributor or contact **clearaudio** directly. We will inform you about your nearest service location.

PLEASE RETAIN ALL ORIGINAL PACKAGING. You will need it if this unit has to be transported and/or shipped. Any further questions you may have about this turntable should be directed to the distributor or directly to **clearaudio** at

clearaudio electronic GmbH

Spardorfer Str 150
91054 Erlangen
Germany

Tel/Phone: +49-(0)1805/059595

www.clearaudio.de
info@clearaudio.de



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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 an Ihren clearaudio-Händler.

HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungswecke oder bei Korrespondenz mit clearaudio angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muss der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

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 verband 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

GARANTIA

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.



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7. Technical Data

Construction princip:	Resonance optimised chassis's shape, belt driven, 70-layers wood sandwich, silver anodised aluminum top & bottom plate
Speed possibilities:	33 1/3 U/min oder 45 U/min (optional mit anderem Pulley 78 U/min)
Drive unit:	Decoupled synchronous motor, Riemenantrieb
Rumble:	DIN IEC 98 procedure A / 83 dB
Bearing:	Patented, inverted bearing with polished ball inside
Platter:	Silicon acrylic, surface absolutely plain, 40 mm
Speed variation:	+ - 0,1 %
Weight:	approx 12 kg, incl. motor
Dimensions:	approx 535 mm x 330 mm x 150 mm
Warranty:	5 years* (see chapter 5)

* Only if the warranty card is filled out correctly and sent back to clearaudio.
Please see Point 5!

July 06