Performance DC

User manual

Black with silver chassis

Silver with black chassis

Silver with silver chassis

Black with black chassis

Made in Germany

Hi-Fi Components Clearaudio electronic® GmbH

Spardorfer Str. 150 • D-91054 Erlangen • Tel. +49 9131 40300100 • FAX + 49 9131 40300119
www.clearaudio.de • www.analogshop.de • info@clearaudio.de
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Dear Clearaudio customer,

You have purchased a State-Of-The-Art turntable, the Performance DC, a world class product of Clearaudio electronic GmbH. Congratulations on your purchase!

The main chassis consists of a complex sandwich of materials: aluminum and HDF material. The powerful and smooth-running DC motor is integrated within and is effectively decoupled by the main chassis. The motor is hidden beneath the platter and drives the precision machined aluminum sub-platter via a precision machined POM main platter are supported by Clearaudio’s patented CMB Ceramic Magnetic Bearing. The drive system is operated by four blue illuminated buttons, ergonomically integrated into the front left of the chassis. Almost any commercially available 9 inch tonearm can be fitted by virtue of the easily interchangeable armboards.

Please read this user manual carefully so that you can enjoy all the advantages of your Performance DC turntable. All information given will help to generate the best performance and avoid any possible damages.

We hope you will enjoy your new Clearaudio Performance DC turntable.

Clearaudio electronic GmbH

Please read the warnings before connecting your Performance DC turntable to the mains supply.

<table>
<thead>
<tr>
<th>WARNINGS</th>
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<tr>
<td>Don’t expose your turntable to rain or humidity.</td>
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<tr>
<td>Don’t handle the mains leads with wet hands.</td>
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<tr>
<td>Don’t place or insert anything into the equipment or through ventilation holes.</td>
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<tr>
<td>No naked flame sources, such as lighted candles, should be placed on the equipment.</td>
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<table>
<thead>
<tr>
<th>CE-MARKING</th>
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<td>The Clearaudio Performance DC meets the regulations concerning electromagnetic disturbance (EMC) and low-voltage appliances.</td>
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<tr>
<th>COPYRIGHT</th>
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<td>- Performers Protection Acts 1963 and 1072,</td>
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<td>- Any more recent legal regulations.</td>
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1. Packaging overview

The Clearaudio Performance DC turntable is delivered in specially designed custom packaging.

Please check the contents according to the following list before you set up your new Clearaudio Performance DC turntable.

1. Layer (top):

   Top of bearing, belt, fittings and accessories (Quality and warranty card, bearing oil, hex keys)
   sub-platter, power supply

   If ordered as set:
   Tonearm and/or pickup

2. Layer (middle):

   Turntable chassis

3. Layer (bottom):

   Platter

**IMPORTANT NOTICE**: Please double check the tightness of all bolts and armboard mounting hardware, as temperature fluctuations during transit may have caused the hardware to become loose.
2. Set-up and operation

The *Performance DC* turntable consists of several components, as described in No 1 (Packaging overview). The set up is easy, as some of the components are pre-assembled at the factory. Please make use of the white gloves enclosed in order to avoid scratches or unwanted fingerprints (e.g. on the platter).

Please follow the instructions step by step:

The *Performance DC* requires a space of at least 16.54 inch x 12.99 inch for positioning.

![Setting up space](image)

**Pic. 2:** Setting up space
2.1

Place the pre-mounted chassis on your hifi-rack or another suitable surface.

![Performance DC chassis](image)

Pic. 3: Performance DC chassis

2.2

To avoid hum noises it can be necessary to ground the bearing. For that please plug in the provided ground cable into the hole of the screw from the bearing at the bottom side of the turntable.

![Grounding the bearing of the Performance DC](image)

Pic. 4: Grounding the bearing of the Performance DC

2.3

Please remove the protective seal from the bearing shaft and place two drops of the synthetic bearing oil on the ceramic bearing shaft. Slip the bearing top onto the bearing shaft of the turntable (also available through [www.analogshop.de](http://www.analogshop.de) Art. No. AC068).

![Bearing oil](image)

Pic. 5: Bearing oil
2.4

Now you can set the bearing upper part carefully onto the bearing. To avoid damages make sure you slide the bearing upper part slowly and carefully on the polished ceramic shaft.

Pic. 6: Fitting the bearing upper part

2.5

Now you can set the sub-platter carefully onto the bearing (see Pic. 7).
To avoid any damage, make sure you slide the sub-platter slowly and carefully onto the bearing.

After that, take the included belt and place it around the motor and the sub-platter (see Pic. 7.1). At this point the sub-platter will be higher than the pulley. This is normal, as the CMB requires the weight of the platter to fully engage it.

Pic. 7: Setting the sub-platter

Pic. 7.1: Placing the belt
2.6

Now you can set the platter carefully onto the bearing. To avoid damage, make sure you slide the platter slowly and cautiously on the sub-platter/ bearing assembly. Hold the platter securely, so the platter does not slip or fall on your turntable.

![Pic. 8: Setting the platter onto the bearing](image)

2.7

Please check with the bubble level gauge, if your *Performance DC* 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.

Please note:
Through turning the feets clockwise you will raise the turntable, by turning counter clockwise the turntable will lower.

![Pic. 9: Adjustment of the level position](image)

![Pic. 9.1: Adjustment of the height](image)
2.8

If the *Performance DC* turntable was purchased as a package together with the *Clarify* tonearm, please follow the below described installation of the tonearm.

1. Insert carefully first the cable and then the tonearm feet through the hole of the tonearm base.
2. Now adjust the tonearm height.
3. At the end secure the tonearm with the screws with are already integrated at the front of the mounting base.
4. For tonearm and cartridge mounting please refer to the user manual of the respective manufacturer.
If you purchased the **Clearaudio Performance DC** as package with tonearm and cartridge, you received also a Smart Stylus Gauge as accessories, which allows you to adjust the tracking force of the cartridge.

**Pic. 11: Use of the Smart Stylus Gauge**

Diese Position der Nadel entspricht einer Auflagekraft von 20 mN (2,0g).

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

---

tracking force too high! / Auflagekraft zu hoch!

tracking force too low! / Auflagekraft zu niedrig!
Now you can connect the *Performance DC* turntable with the main supply.

![Connection to the main supply](pic12)

**Pic. 12: Connection to the main supply**

### 2.9 Speed fine adjustment

As the motor adjustment is already pre-set at the factory, you don’t have to check the speed before using the turntable for the first time.

If you want to check the speed of your turntable by yourself over the time, we recommend to use a Stroboscope Testrecord. To adjust the speed so perfectly and precisely as possible, we recommend the **Clearaudio** Stroboscope Testrecord (Art. No. AC038) and the **Clearaudio** “Speed Light” (Art. No. AC039, both available at [www.analogshop.de](http://www.analogshop.de)).

On the backside (close to the power supply input) of your turntable there are three setting trimmers:

- Left trimmer = setting 78 rpm (near power supply jack)
- Middle trimmer = setting 45 rpm
- Right trimmer = setting 33 1/3 rpm

![Speed fine adjustment](pic13)

**Pic. 13: Speed fine adjustment**

**Urgent:**
Don’t use a metal screw driver. Only use screw driver made out of synthetic or ceramic material, to avoid circuit damage.

Now you are finally ready to play your vinyl records!

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

We wish you a lot of pleasure with your new *Performance DC* turntable.
3. Special notes

3.1 Maintenance

- If the Performance DC turntable is a longer time not in use, please disconnect the motor from the main supply.
- Every two years you can lubricate the bearing of the turntable platter with the delivered oil. In this case it is enough to put 1 or 2 drops of the oil into bearing.
- Please take special caution to any damages of the power cord. Any damages should be repaired only by authorized personal. A damaged power cord must be exchanged immediately!

**Caution!**

Please use only non alcoholic fluids and only fluids specially used for acrylic, to clean the Performance DC turntable. Otherwise damage on the material or the surface can occur!

Don’t use try cloths for cleaning because of the electrostatic charging. Suitable cleaning fluids will be available at Clearaudio (www.analogshop.de) or your Hifi dealer.

3.2 Transportation

Send / ship the Performance DC turntable always and only in the original packing!!! Only in the original packing Clearaudio can provide the warranty.

If you repackage the turntable, please make all steps inverted like at installation and set-up (chapter 2).

- If any transportation of the Performance DC 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 needs to be covered as well.

3.3 Service

In case of any necessary, service for all Clearaudio products should be done by authorized personal only.

In case of any repair, the Clearaudio Performance DC turntable needs to be send to your nearest authorized Clearaudio distributor, dealer or directly to the Clearaudio factory.

Clearaudio electronic GmbH

Sparдорfer Str. 150
91054 Erlangen
Germany

Phone.: +49 9131 40300 100
Fax: +49 9131 40300 119
www.clearaudio.de
www.analogshop.de
info@clearaudio.de

To achieve the full Clearaudio warranty (for the Performance DC turntable 5 years), 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.
## 4. Technical Data

| **Construction:** | Resonance-optimised turntable, highly compressed wood chassis in sandwich construction embedded between two aluminum plates. Tonearm recommendation: **Clearaudio Magnify** or in package with **Clarify** tonearm and **Virtuoso V2** MM cartridge. |
| **Speed ranges:** | 33 1/3, 45 und 78 RPM |
| **Drive unit (motor):** | Decoupled and resonance damped DC motor, drive belt and plug-in power supply unit designed for worldwide use with all networks and power frequencies. |
| **Rumble:** | DIN IEC 98 by method A / 92 dB |
| **Bearing:** | Cut and polished ceramic shaft in a sintered bronze bushing, **Clearaudio ceramic magnetic bearing** (CMB) |
| **Platter:** | CNC precision-machined black coloured POM platter, 40 mm thickness |
| **Speed variation:** | +/- 0.03 % |
| **Weight:** | Approx. 11.5 kg incl. motor |
| **Dimensions:** | In mm approx: 420 x 330 x 145  
| Width/Depth/Height | in inch approx: 16.54 x 12.99 x 5.71 |
| **Power consumption:** |  
| Max. consumption: | 3.3 Watt |
| Consumption in operation: | 1.6 Watt |
| Stand by mode: | < 0.5 Watt |
| Off mode: | 0.0 Watt |
| **Warranty*:** | 2 years (5* years) |

* Only if the warranty card is filled out correctly and sent back in time to Clearaudio.
The warranty time for the Performance DC turntable is 2 years.
To achieve the full Clearaudio warranty of 5 years, it is necessary that you fill out and send the corresponding part of the warranty registration certificate/card back to Clearaudio, within two weeks after purchase. Only if the product is returned in its original packing Clearaudio can provide the warranty of 5 years.

ENGLISH
WARRANTY
For warranty information, contact your local clearaudio distributor.

RETAIL YOUR PURCHASE RECEIPT
Your purchase receipt is your permanent record of a valuable purchase.

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 sur 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 auf dem Tonarm sowie in der beigelegten Garantie-Registrierkarte.

NEDERLANDS
GARANTIE
Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke clearaudio.

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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, verwijziging bijv. in verbond met verzekering of bij correspondentie met clearaudio.

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ESPÁNOL
GARANTIA
Para obtener información acerca de la garantía póngase en contacto con su distribuidor clearaudio.

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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.

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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.