

USER MANUAL

Belt Drive Turntable **PE 800**





CONTENTS:

1. SAFETY INFORMATION	3
2. UNPACKING	4
3. SET-UP AND ASSEMBLY	4
4. CONNECTIONS	5
A.) POWER SUPPLY	5
B.) RCA CONNECTION	5
5. TONE ARM AND PICK-UP CARTRIDGE	5
A.) TRACKING FORCE	6
B.) ANTI-SKATING	7
7. OPERATION	9
8. TECHNICAL SPECIFICATIONS	10
9. SERVICE INFORMATION	11

Dear music lover,

Congratulations on the purchase of your new Perpetuum Ebner (PE) turntable. This product has been designed and manufactured with the greatest care.

Please take note of the enclosed safety information and read the operating instructions carefully before you set up and operate the device.

1. SAFETY INFORMATION

PLEASE READ CAREFULLY BEFORE OPERATING YOUR UNIT!

CAUTION:

To reduce risk of electric shock, do not remove the cover. There are no user-serviceable parts inside.



This product was tested and complies with all the requirements for the CE Mark.

IMPORTANT: Disposal of waste equipment by users in private households in the European Union.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



2. Unpacking

We have developed a high-quality packaging, so that the product arrives you safe and protected. Carefully remove the unit and accessories from the packaging and check the contents for completeness.

Items delivered:

- ✓ Chassis with pre-assembled tonearm
incl. pick-up cartridge
- ✓ Sub-platter, platter
- ✓ Dust cover
- ✓ Flat rubber drive belt
- ✓ RCA cable with ground wire
- ✓ Plug-in power supply and connection cable

Please keep the original packaging in order to protect the device in case you ever need to ship it or transport it.

3. Set-up and assembly

Your new Perpetuum Ebner turntable is designed to provide you a great sound experience. For optimum use of its musical sound qualities you should always place the device on a flat and stable surface.

The subplatter is already plugged into the bearing bush and the belt is already installed around the motor pulley. Hence, you simply need to place the platter on the subplatter.

In doing so, please make sure that the belt is not twisted. The belt wraps around the lower part of the subplatter.

Your PE 800 is equipped with a damping felt mat by the manufacturer.

4. Connections

a.) Power supply

We equip the PE 800 turntable with a high quality plug-in power supply. Moreover, we provide a suitable connection cable.

b.) RCA connection

Your new PE 800 turntable is equipped with RCA sockets as well as a ground wire.

Use the provided connection cable to connect the turntable to the phono input of your amplifier, or phono-preamplifier. In doing so, make sure the polarity is correct (R, red, for right, L, black, for left) when connecting the device. The separate earth wire establishes the ground connection. Connect the ground wire of the turntable to the ground wire of your amplifier, or phono-preamplifier.

With these connection possibilities, the sound quality of your turntable can be further improved at any time with the high-quality cables available in specialist shops.

5. Tone arm and pick-up cartridge

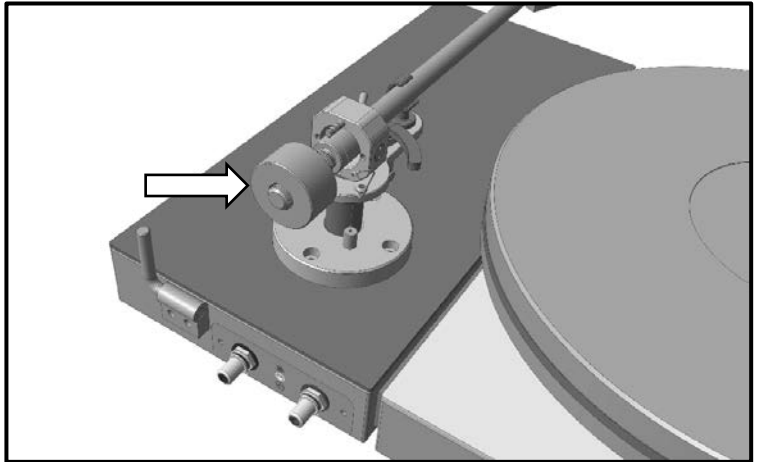
The PE 800 is delivered with a preinstalled tone arm Perpetuum Ebner TO 2017, as well as with an installed ORTOFON Moving Magnet (MM) pickup.

All settings have already been made at the factory. The tonearm weight and the anti-skating weight have been removed for transport and are located at the bottom of the foam packaging. You will find more information in the following chapters.

a.) Tracking force

You can adjust the tracking force by rotating the weights of the tone arm.

The tracking force increases, the more you turn the weights forward towards the tone arm (see fig. F 1).



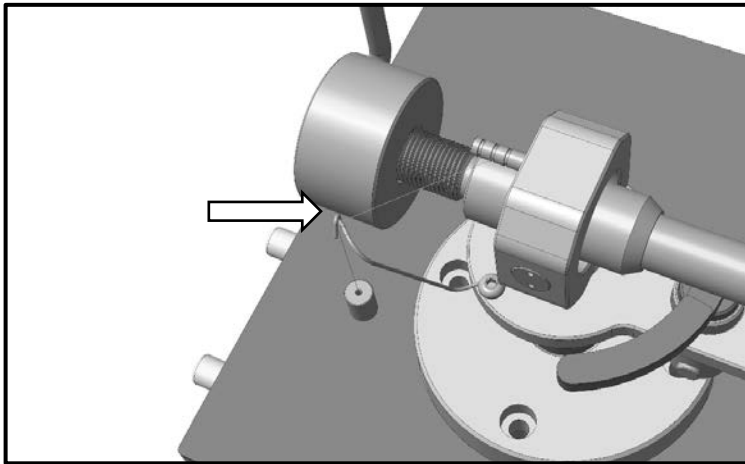
F 1 – Adjusting the tracking force

You can optimally adjust the tracking force with the help of a tone arm scale (available in specialist shops). For this, move the tone arm, with lowered tone arm lift, over the platter and carefully lower it so that the stylus rests on the tone arm scale. In doing so, it is absolutely necessary to remove the protective cover of the cartridge. Please be extremely careful in order to not damage the stylus.

The recommended tracking force for the supplied device is 18mN (corresponds to a tracking force of 1.8g).

b.) Anti-skating

Skating arises in connection with radial tone arms. Due to the offset between the cartridge's axis and the tone arm's pivot, the force applied (through friction) by the rotating disc to the cartridge tends to draw the tone arm toward the center of the record. To prevent this, the so-called anti-skating force is applied at the tone arm. At the PE 800, this was realized by a weight hanging on a thread. The thread of the anti-skating force is guided through an eyelet and hung on a pilot pin on the tone arm. The pin has three grooves for hanging the weight. The farther the weight is hung on the outside, the



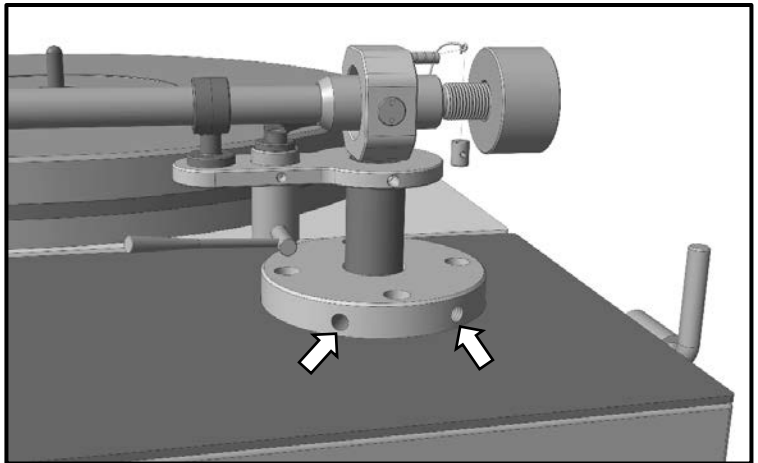
F 2 – Anti-skating

greater the anti-skating force. The required anti-skating force is dependent on the tracking force and on the pickup used. With the pre-installed Ortofon tonearm the thread should be positioned in the middle groove (see fig. F 2).

When using other pickup cartridges or other platter covers than the felt mat provided the height of the tone arm may be adjusted. To this, you can loosen both screws at the tone arm socket using a hex key SW3, and adjust the height of the tone arm.

Please hold the tonearm in place after having loosened the screws in order to make sure that it does not slide down into the chassis.

Slightly tighten the bolt after having adjusted the height (see fig. F 3).

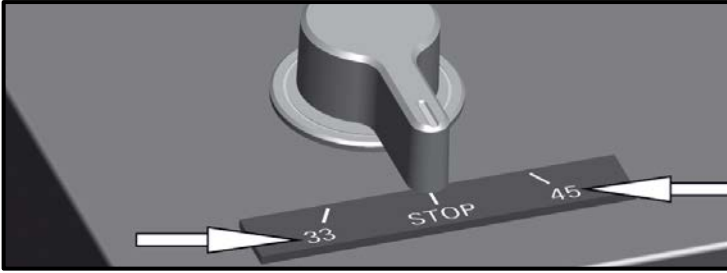


F 3 – Adjusting the tone arm height

7. Operation

The lever switch (33 / STOP / 45) on the left front side of the device starts the turntable with the corresponding speed (see fig. F 4).

F 4 - Start/Stop – Speeds, drive 33 - 45



After switching from the speed 33.33 rpm to 45 rpm go over the stop function and not directly from 33, 33 rpm to 45 rpm.

Then, the tone arm is released from its rest, the tone arm lift is raised and the cartridge is positioned above the lead-in groove of the record or above the desired piece/track to be played and lowered on the record using the lift.

This turntable does not feature an automatic end-of-record shut-off facility. As soon as the stylus has reached the lead-out groove, the tone arm has to be lifted up manually and put back into the tone arm rest. You turn of the device with the switch setting "STOP".

We recommend to leave the dust cover open when enjoying music because of so-called microphonic effects, i.e. vibrational stimulation of sound in resonance bodies over the pick-up cartridge.

8. Technical specifications

PE 800

(Belt Drive made in Germany)

- Manual sub-chassis turntable with internal belt drive via sub-platter
- Massive, two-part 38mm MDF (medium-density fiberboard) chassis with platter board and arm board
- DC motor with electronic control and speed selection (33 / 45) electronically switchable
- 2.5 kg aluminum platter with damping mat
- External power supply
- Tone arm Perpetuum Ebner TO 2017 with cardan bearing, aluminum arm tube and anti-skating (thread)
- Effective length: 232.8mm (9.1")
- Overhang: 15 mm (variable)
- Offset angle: 23.6° (fixed)
- Dynamic mass: approx. 11 g
- Moving Magnet cartridge, ORTOFON 2M series
- Physical dimensions (width / depth / height): approx. 470 mm x 340 mm x 175 mm (incl. Dust cover)
- Weight: approx. 8 kg

9. Service information

If you have any questions regarding your new turntable, or in the event of problems your PE dealer shall be pleased to assist you.

You will find the addresses on our website:

www.perpetuum-ebner.de

Subject to technical modifications



PERPETUUM EBNER

By WE **AUDIO** SYSTEMS

Schrambergerstraße 22
D-78112 St. Georgen im Schwarzwald

www.perpetuum-ebner.de

User manual PE 800 | © copyright PERPETUUM EBNER 2018