

Manual for **BRINKMANN** turntable **BALANCE**

design + service

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Legal regulation of the European Community :

This turntable had been designed and tested according to the guidelines EN55013 and EN55020, and it meets the safety requirements EN60065.

Informations for Safety :

The turntable BALANCE is only to be used in dry rooms with an average temperature and is only allowed for 220-240V, 50...60Hz alternating current.
The power supply is only to be connected to grounded wall sockets.

Please connect or disconnect only when the mains plug is not connected to the mains.
Always disconnect the power supply from the mains when the turntable is not used for a longer period of time (during holidays etc.) ! Never leave the power supply unattended while it is connected to the mains !

Always keep the turntable away from wet, heat and open fire ! Never expose it to the blazing sun ! Never place receptacles with fluids on the turntable or power supply !

Power supply:

Never open the casing while the power supply is connected to the mains !
Attention, dangerous voltage !

The power supply is equipped with a temperature limiter that switches off at about 65°C ; to guarantee a flawless function please make sure to have a free space for air circulation measuring 30cm above the power supply and 10cm on each side. The heatsinks are never to be covered !

After disconnecting from the mains, the turntable can be cleaned with a dry cloth or a brush, do not use wet cleaning, wet cleaning can cause damages !

Repairs, modifications etc. are only to be carried out by the company **BRINKMANN** itself or by specially authorized workshops !

The glass cover of the platter can be cleaned with multipurpose screen and surface wipes and a dry cotton cloth.

Never use solvent or sprays!



Technical details :

The turntable consists of three independent parts : the chassis (plinth) with the bearing and the tonearm base(s) drilled according to the customers needs, the motor and the power supply. The motor drives the platter via a round belt of gum. In the following, the three parts are specified as turntable, motor and power supply.

TURNTABLE :

The turntable features chassis (plinth), platter and bearing as well as the tonearm base.



The bearing heater is integrated in the chassis and ensures the constant temperature of the platter bearing (bearing clearance). It is connected to the power supply with a two pole socket plug. The electronical circuit is installed on a printed board, completely enclosed in the metal of the chassis.

MOTOR :

The motor of the turntable is a separate device, independent from chassis and platter. The motor can be connected via a three core line wire and a three pole plug with the matching socket at the power supply. A cap screw on the plug prevents an unintended unplugging during operation.

POWER SUPPLY :

The casing of the power supply consists of metal, it is completely closed. The power supply features a three pole socket for the connection with the motor, equipped with a cap screw ensuring impossible unintended removal of the plug.

Set up procedure for BALANCE turntable :

we recommend to use a ground base made from black granite stone (nero assoluto) of at least 60 cm by 42 cm (centimeters), or 23.6 by 16.5 inch.

First, the plinth complete with tonearm base is placed on top of the ground base, the bearing for the platter should be in the center of the base, with the tonearm base right hand. The spikes are adjusted to just get in contact with the ground base surface (screwdriver No. 3). The chassis should not lift from the ground.

The screw that fixes the tonearm base is unscrewed a little and the base is turned until the effective length of the tonearm is correct. The tonearm should align with the right edge of the ground base when rested in its armrest.

Next the psu for the heater of the bearing is connected at the back of the plinth, but not yet switched on. Bearing and platter must have the same temperature when the platter is laid on.

Therefore you hold the platter above the bearing, look through the center hole of the platter and look for the axle of the turntable. Then lay down the platter carefully, only the last two centimeters the platter will be exactly centered by the subplatter of the bearing. Here the platter must be lowered exactly vertical to place it without getting stuck.

Possibly the ground plate will get out of horizontal balance by the weight of the platter, please control the balance on the platter surface again.

The motor is placed opposite the tonearm base on the left hand side, the distance to the platter should be about 1cm. Then the belt is tied around platter and motor pinion, the motor is moved back or forward to have the switch buttons freely accessible.

The motor is connected to the transistorized psu, or, if you have the tubed psu, directly to its 3-pole socket. The transistor supply remains for the heater circuit of the bearing.

The speed adjustment is located behind the motor, 33 is left from front view and 45 is right. For this adjustment please place a stroboscope plate on the platter and adjust with the help of the small screwdriver. We recommend to do this adjustment after at least 3 hours, when the turntable is warmed up. During these 3 hours please let the motor run to break in the belt and the bearings.

After connecting the preamp with the ground cable (between output sockets) and interconnects you can start playing records.

For this the small center plastic ring is pushed over the axle, place the record on the platter, hold it with one hand at the outer rim to prevent it from moving on the glass surface, and screw the record clamp on the axle until the record is flat on the surface of the platter. Don't screw down completely as the record will come up at the outer rim again.

The surface of the platter should be cleaned carefully as any dirt could cause clicks and pops on the record (please read the part Informations for safety). Never use solvent ! We strongly recommend to use a record cleaning machine for best results.

The BALANCE turntable will be delivered with following components :

Chassis (plinth)	+ screwdriver No. 6 for tonearmbase, + screwdriver No. 3 for adjustable spikes,
Tonearmbase	+ cable for ground connection, + screws for tonearm,
Motor + switch	+ screwdriver for speed adjustment,
Record platter	+ drive belt, + small center plastic ring for record
Record clamp	
Transistor psu	+ power cord, for motor and for heater of bearing,
Datasheet	+ brush for cleaning

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