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Introduction

**Dear music lover,
Congratulations on your purchase and
thank you for choosing Burmester.**

You have chosen a product that combines absolute fidelity and uncompromising quality with technical innovation. Before using the device for the first time, we recommend that you read through the entire manual at least once so that you can make full use of the capabilities of this exceptional audio device. Should you still have questions, please speak to your dealer or contact us directly. We're always happy to discuss any special requests you may have, no matter how unusual. We love a good technical challenge.

We wish you an exceptional listening experience.

The Burmester Team

About this Device

After more than 35 years of experience in the processing of finest audio signals, Burmester now crowns its series of successful phono preamplifiers with a record player. Recognisable as a typical Burmester even from the very first glance, the 175 record player makes use of characteristic design elements of the Reference Line. The integrated signal processing derived from the Burmester 100 phono preamplifier processes the fine phono signals at the highest level.

The 175 record player is driven by four motors located in the outer square around the sub-platter. This squaring of the circle and the use of multiple belts ensures that no irregular tension arises on the central bearing. The two-fold design of this arrangement shortens the ramp-up time and improves synchronisation. This simultaneously results in an improved sound and a fast starting time for the drive.

Alongside the mechanical system and the arrangement of the drive components, the control electronics and the motors are also crucial for a great audio experience. The AC synchronous motors used are driven by digital motor electronics which perform their task with a high-precision oscillator and perfect sine and cosine voltages. The electronics are completely immune to fluctuations in the mains voltage frequency. Due to the high level of efficiency of the electronics, driver stages and motors, the entire unit remains cool and free from heat-related impairments.

THE HIGHLIGHTS:

- Digital motor electronics with high level of efficiency
- Chassis from a solid aluminium block
- Multi-layer carbon arm tube
- Length of tone arm: 9 inches
- Exclusive Burmester MC cartridge
- Stylus: Shibata cut
- Magnetic damper in base plate for isolation

About this Operation Manual

This operation manual describes how to operate the 175 record player.

SYMBOLS AND MARKUPS USED

	Prerequisite
✓	Indicates a requirement that must be met before a subsequent action can be performed.
	Action
→	Indicates a single action.
1.	Sequence of actions
2.	Indicates a sequence of actions that must be performed in the given order.
3.	
	Result
↪	Indicates the result of an action.

Meanings of Warning Symbols and Words

The following warnings, symbols and warning words are used in this document:



The general danger symbol in combination with the warning words **CAUTION**, **WARNING** and **DANGER** warns of the risk of serious injury. Follow all of the subsequent instructions to avoid injury or death.



The lightning symbol, in conjunction with the warning word **DANGER**, warns of potentially fatal electrical voltage.



The word **ATTENTION** indicates a hazard that could damage or destroy the device.



The word **CAUTION** indicates a hazard that poses a low or moderate risk of injury.



The word **WARNING** indicates a hazard that could cause serious injury or death.



The word **DANGER** indicates a hazard that will lead directly to death or serious injury.

Please observe the following instructions:

- Read and follow the instructions in this manual, particularly the warnings and safety instructions.
- Keep this operation manual.



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Safety Instructions

Important Safety Instructions

- Please read the operation manual for your record player in full and keep it in a safe place.

GENERAL INSTRUCTIONS

Note the following points:

- Avoid exposure to direct sunlight.
- Avoid excessive heat, cold, moisture and dust.
- Do not expose the record player and the power supply to any drops or splashes of water, and do not put any containers containing liquid on the devices.
- The record player is not suitable for outdoor use.
- Only put the record player on horizontal surfaces that can support at least 75 kg.
- The device may only be connected to a power supply with protective earthing (Class I).



WARNING WEIGHT OF THE RECORD PLAYER

The record player and the turntable are heavy and, if they fell, could lead to serious injuries.

- The record player may only be unpacked and installed by a specialist who is experienced in handling heavy loads.

CONNECTION

- Switch off the amplifier before connecting it to the record player.

CHILDREN

The record player poses various injury risks if used improperly. Never leave your children unattended with the device.

SAFEGUARDS

If there is a temporary power supply interruption, the record player can switch the operation mode from ON to STANDBY. This is not an unexpected operation mode change, but rather to protect the device.

DISCONNECTING THE DEVICE PROPERLY FROM THE MAINS

To fully disconnect the 175 from the mains, use the easily accessible mains power switch on the rear of the external power supply and then disconnect the power cable from the device.

SCOPE OF DELIVERY

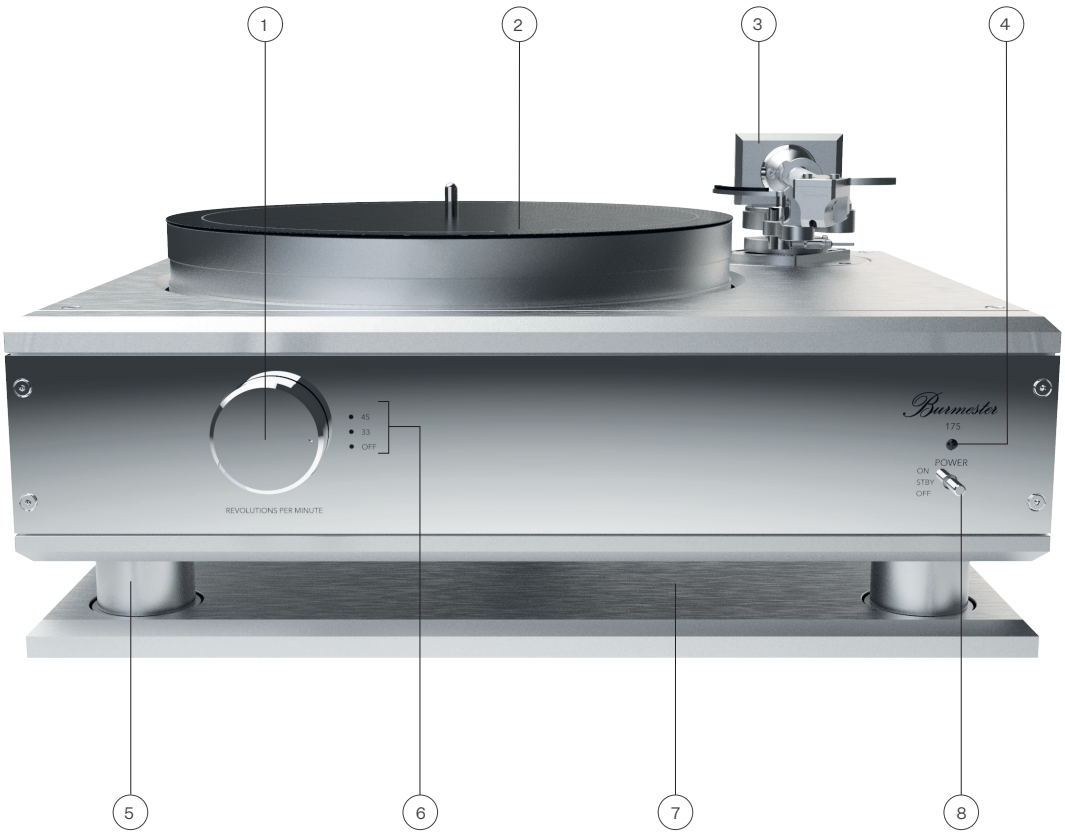
Please check the scope of delivery for completeness and damage.
Contact your authorised specialist dealer if parts of the delivery are missing.

175 record player
Base plate
Sub-platter
1 set of belts (4 pieces)
Turntable
Carbon slipmat
External power supply
Power cable
Multi-pole power supply cable
Burmester Reference Check record
Operation manual
Warranty certificate
Design drawing



Overview of the Record Player

The Record Player



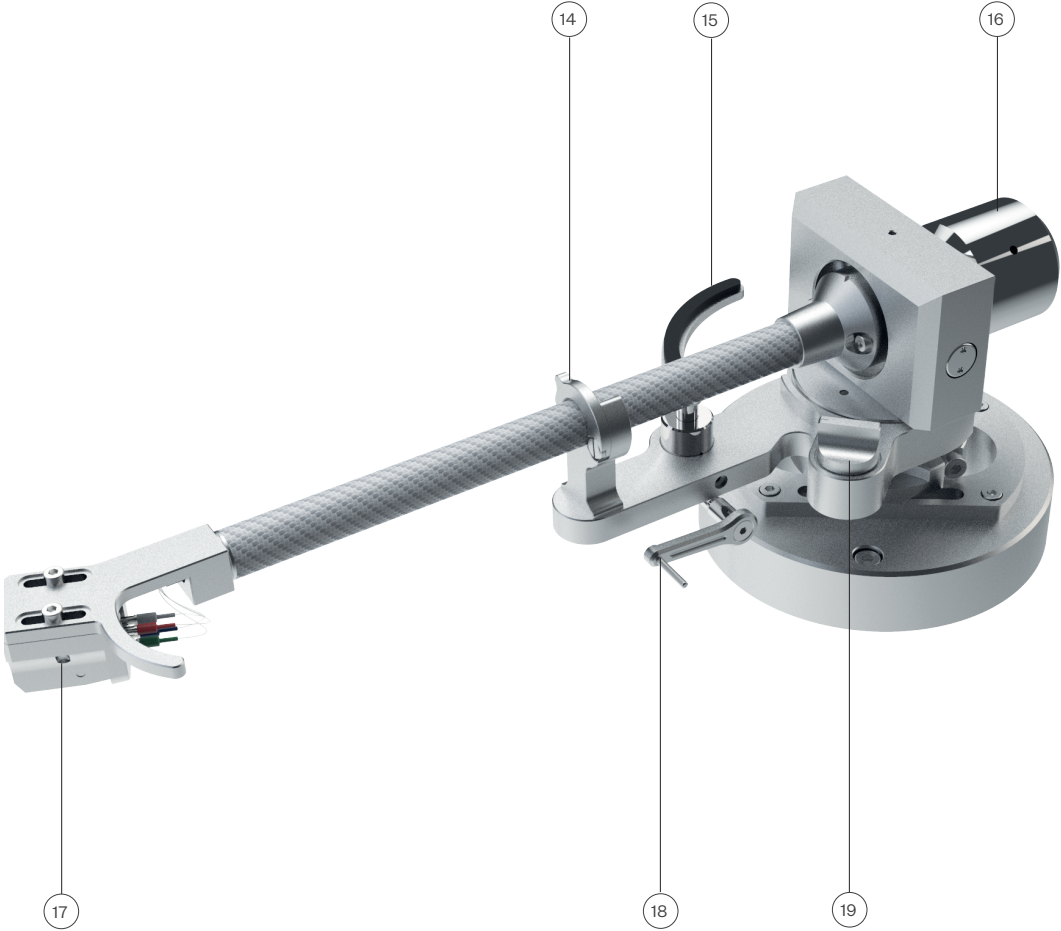
THE RECORD PLAYER

- 1. Speed setting
- 2. Turntable
- 3. Tone arm
- 4. POWER LED (operation/standby)
- 5. Adjustable feet
- 6. Speed display
- 7. Base plate
- 8. Power switch



BACK PANEL OF THE RECORD PLAYER

- 9. Auto power down switch
- 10. Impedance setting for cartridge
- 11. Phase switch
- 12. Balanced output
- 13. POWER SUPPLY socket



THE TONE ARM

- 14. Transport lock
- 15. Lift
- 16. Adjustable counterbalance
- 17. Cartridge
- 18. Cue control lever
- 19. Anti-skating setting



THE POWER SUPPLY

20. Power LED



THE BACK PANEL OF THE POWER SUPPLY

- 21. POWER SUPPLY socket
- 22. Mains switch
- 23. Mains socket





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Connection, Adjustments and Operation

Connecting the Record Player

→ Before connecting the device, please also read the operation manuals for the components you plan to connect.

1. Make sure that the amplifier you are connecting to the record player is turned off.
2. Insert any end of the multi-pole power supply cable into the **power supply socket (11)** of the record player (observe guide slot).
3. Connect the other end of the cable to the **power supply socket (21)** of the external power supply unit (observe guide slot).
4. Make sure that the **power switch (22)** on the back of the external power supply is switched to **OFF**.
5. Check that the voltage provided by your mains matches the voltage specifications for the external power supply.

Note: You can find information about the required mains voltage below the **Power socket (23)**.

6. Connect the power cable to the **AC input (23)** and plug the mains plug into the mains socket.
7. Connect the balanced **output (10)** with the desired **line-level input** of your system.



ATTENTION DAMAGE TO THE RECORD PLAYER OR AMPLIFIER

The record player has its own phono amplifier that cannot be deactivated. The connected amplifier or the record player can be damaged if they are connected to the phono input of the amplifier.

→ Never connect the record player to a phono input.

8. Switch the **power switch (22)** to **ON**.

Tuning the Record Player

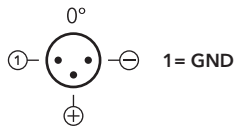
SWITCHING THE PHASE

It is possible to align the **pin assignment of the balanced output (10)** to your music system.

Switching the phase to 0°

→ Turn the **phase switch (9)** to position **0°**.

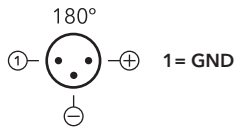
↳ The pin assignment is set to 0°.



Switching the phase to 180°

→ Turn the **phase switch (9)** to position **180°**.

↳ The pin assignment is set to 180°.



ADJUSTING THE IMPEDANCE OF THE CARTRIDGE

You can adjust the impedance to your cartridge. For the pre-installed Burmester cartridge, the optimal value is already set (4.7 kΩ).

→ Select the optimal setting for your cartridge:

- 1: 4,7 kΩ
- 2: 1,0 kΩ
- 3: 470 Ω
- 4: 330 Ω
- 5: 220 Ω
- 6: 100 Ω

SETTING THE ANTI-SKATING MECHANISM

With anti-skating, you can set the counterforce to balance the force of the tone arm. This will ensure you can enjoy the perfect sound experience.

✓ The record player is turned off.

1. Place the Burmester Reference Check record on the turntable with Side A facing upwards, and switch on the record player.
2. Turn the **speed setting (1)** to 45.
↳ The record will start to spin.
3. If necessary, undo the **transport lock (14)**.
4. Raise the tone arm using the cue control lever (18).
5. Move the **tone arm (3)** to the centre of the open space.
6. Lower the tone arm using the **cue control lever (18)**.
↳ The cartridge must maintain its position without drifting either inwards or outwards.

If the cartridge does not maintain its position:

7. Slowly turn the **anti-skating adjustment mechanism (19)** clockwise.
8. If the drifting becomes more pronounced, turn the adjustment mechanism back in the opposite direction.
9. Turn the adjustment mechanism in the required direction until the cartridge maintains its position.

Note: Setting the anti-skating mechanism up in a way that allows the tone arm to drift outwards slightly may help improve the sound of your system.



CHANGING THE COLOUR OF THE POWER LEDS







You can change the colour of the **POWER LEDs**. Two different colour schemes are available. Each colour scheme applies globally, i.e. for the record player as well as the power supply unit.

In the delivery state, the **POWER LEDs** light up red in standby mode. When the device is switched on, they light up green. When the device is off, the **POWER LEDs** are not illuminated.

Changing the colour scheme:

The device is switched on.

- 1. Set the **speed setting (1)** to **45**.
- 2. Press the **power switch (8) upwards** for **15** seconds.
 - ↳ The colour of the LEDs changes.
 - ↳ The basic unit and the power supply are changed to the other colour scheme.

Scheme	Switched on	Standby	Switched off
1	 green	 red	 off
2	 red	 orange	 off

CONFIGURING AUTO POWER DOWN

The device has an auto power down function. If this is activated, the device automatically goes into standby mode after 20 minutes of inactivity (the **speed setting (1)** must be set to **OFF**).

Activating auto power down

- ✓ The auto power down switch (8) is set to OFF.
- Switch the **auto power down switch (8)** to **ON**.
 - ↳ Auto power down is activated.

Deactivating auto power down

- ✓ The **auto power down switch (8)** is set to **ON**.
 - Switch the **auto power down switch (8)** to **OFF**.
 - ↳ Auto power down is activated.

Operating the Record Player



CAUTION HIGH-INTENSITY SOUND

Loud output signals can damage your hearing.

→ Set the connected amplifier to a low volume before switching it on.

SWITCHING THE RECORD PLAYER ON AND OFF

Switching the device on

- ✓ The **power switch (22)** is set to I (**ON**).
- ✓ The **POWER LED (4)** is not illuminated.
- 1. Switch the power switch (8) on the front of the device to the middle position.
 - ↳ The **POWER LED (4)** lights up.
- 2. Briefly flick the **power switch (8)** up into the **ON** position.
 - ↳ The **POWER LED (4)** changes colour.

Switching the device to standby mode

- ✓ The device is switched on.
- ✓ The **POWER LED (4)** is lit up.
- Briefly flick the **power switch (8)** up into the **ON** position.
 - ↳ The record player switches to standby mode.
 - ↳ The **POWER LED (4)** changes colour.

Switching the device off completely

- ✓ The device is switched on or in standby mode.
- ✓ The **POWER LED (4)** is lit up.
- Briefly flick the **power switch (8)** down into the **OFF** position.
 - ↳ The device switches off.
 - ↳ The **POWER LED (4)** is not illuminated.

SETTING THE SPEED

✓ The device is switched on.

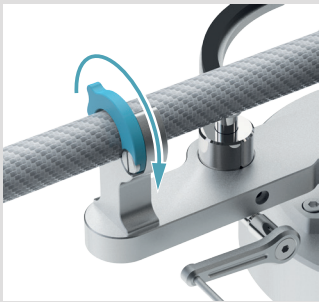
Turn the **speed setting (1)** to the required setting.

45	Generally used for maxis and singles.
33	Generally used for LP records.
OFF	The turntable does not turn.

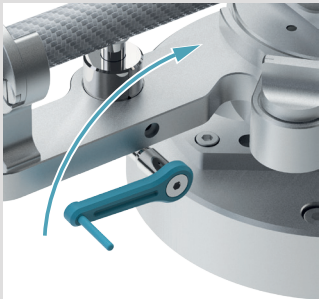
RAISING AND LOWERING THE TONE ARM

Raising the tone arm

1. If necessary, undo the **transport lock (14)**.



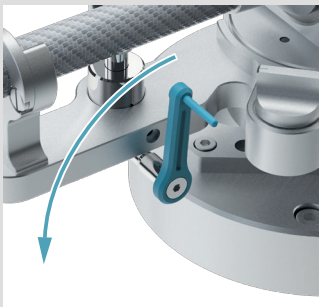
2. Move the **cue control lever (18)** back.



↪ The tone arm will raise.

Lowering the tone arm

Move the **cue control lever (18)** forwards.



↪ The tone arm will lower.

PLAYING A RECORD

- ✓ The device is switched on.
- ✓ The **speed setting (1)** is set to **OFF**.
- 1. Place the record you wish to hear on the **turntable (2)**.
- 2. Turn the **speed setting (1)** to the required setting.
 - ↳ The record begins to turn at the set speed.
- 3. If necessary, undo the **transport lock (14)**.
- 4. Raise the tone arm using the **cue control lever (18)**.
- 5. Move the **tone arm (3)** to the desired position.
- 6. Lower the tone arm using the **cue control lever (18)**.
 - ↳ Playback begins.

Warranty

We at Burmester have crafted a product that meets the highest standards. Every detail is carefully thought out and consciously conceptualised. All used components and materials are handpicked, tested and incorporated by us that the best achievable product quality and a long service life are ensured.

We hereby guarantee that your Burmester product has successfully passed an extensive checkout routine and has left our factory in perfect shape.

We provide a three-year warranty on your Burmester device. In order for the warranty to be valid, the device must have been connected and operated properly, the mechanical integrity of the device must not have been compromised, and the device must have been registered. The warranty will expire if the device is tampered with in any way or if parts of the housing or the tone arm are dismantled.

Please register your product with the serial number in the warranty certificate at www.burmester.services/warranty and activate your warranty extension.

Service, Repairs and Maintenance



ATTENTION DAMAGE TO THE SURFACE

Liquids and chemical agents can damage the surface of the housing.

- Ensure that no liquids get into the record player.
- Do not use chemical agents when cleaning.

Disposal

German law stipulates that this device and its accessories must not be disposed of with household waste (grey bin, yellow bin, compost bin, paper or glass). Instead, they must be handed in at municipal collection points or to voluntary recycling programmes.



Technical Data of the 175

RECORD PLAYER	
Weight	60.8 kg
Width	450 mm
Height (including base plate)	250 mm
Depth	395 mm
Analogue outputs	XLR
IP degree of protection	IP20
Drive	Belt drive
Motors	4 synchronous motors
Turntable	Turntable with CLD design Aluminium/brass/aluminium
Turntable speeds	33 RPM, 45 RPM
PHONO PREAMPLIFIER	
Frequency response (+0.2 dB / -3 dB)	16 Hz – 102 kHz (subsonic filter at 16 Hz)
Intrinsic noise at output	-71 dBV (unweighted 22.4 kHz)
Input impedance (MC)	4.7 kΩ, 1.0 kΩ, 470 Ω, 330 Ω, 220 Ω, 100 Ω
Total harmonic distortion at 1 kHz / 0.5 mV	0.0018 %
Amplification at 1 kHz	70 dB
Channel offset	0.1 dB
TONE ARM	
Type	Multi-layer carbon arm tube
Effective length	238.2 mm
Overhang	16.2 mm
Azimuth setting	Via clamp screws
Weight setting	With fine thread
Tone arm weight	0.7 kg
Effective mass	12.8 g

CARTRIDGE	
Type	MC
Stylus	Nude Shibata on Sapphire cantilever
Cartridge weight	15.9 g
Compliance	14 μm/mN
Internal resistance	5 Ω
Load impedance	Greater than 40 Ω
Frequency response: at -3 dB	20 – 25.000 Hz
Channel offset	≤ ± 1 dB
POWER SUPPLY	
Weight	8.6 kg
Width	450 mm
Height	97 mm
Depth	316 mm
Mains voltage	175-115 model: 100–120 V~, 50 Hz/60 Hz 175-230 model: 220–240 V~, 50 Hz/60 Hz
Fuses	175-230 model: F2, F4, F6 175-115 model: F1, F3, F4, F5, F7 F1, F2, F3: T160mA H F4: T1.0A H F5, F6, F7: T200mA H
Power consumption	ON: 52 W STBY: < 1 W OFF: < 0.5 W
IP degree of protection	IP20

Subject to technical changes without notice.

* The dimensions do not include the lengths of the plugs used for connection.



VERSION: BA_175_en_1-3_2401

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