

Burmester

OPERATION MANUAL

035 PREAMPLIFIER



CLASSIC LINE

Dear music lover,

Thank you for choosing this Burmester audio component. We sincerely appreciate your trust in us.

You have chosen a product that combines absolute fidelity and uncompromising quality with technical innovation and maximum versatility.

You have purchased a unit which excels in musical fidelity and combines uncompromising manufacturing quality with technical innovation and the highest degree of operating flexibility. We recommend reading this user manual at least once in its entirety before initial operation.

This will enable you to make full use of all capabilities of this outstanding audiophile instrument. Should you have any further questions, please contact your dealer or us directly.

You decide if we meet the demands of producing high-end components. We offer an additional service which also demonstrates high-end quality.

We wish you an exceptional listening experience.

Your Burmester team

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UNPACKING AND SETTING UP

PLEASE NOTE: To protect the surfaces, the preamplifier 035 is delivered packed in a plastic bag. Keep this plastic bag away from children to avoid the danger of suffocation.

Unpacking

To avoid damaging the housing, do not use any pointed or sharp objects to open the packaging.

Please make sure that the content of the box is complete. If something is missing or you notice any damage while unpacking do not hook up the unit.

Scope of delivery

The box should contain the following:

- 1 Preamplifier 035
- 1 AC power cord
- 1 set of warranty documents
- 1 remote control 067
- 1 Operation manual

Packaging

We recommend keeping the original packaging for future transport, moving, etc.

Setting up

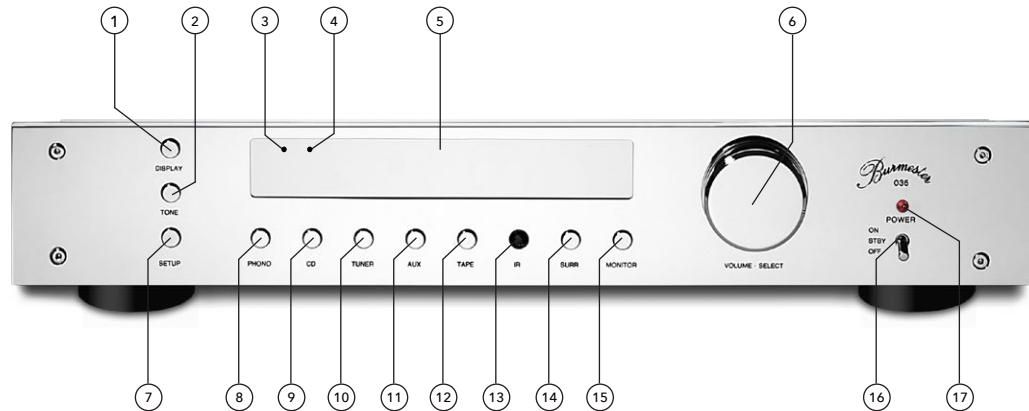
Carefully remove the unit from its packaging and set it up in an appropriate location. To protect the 035 from overheating make sure that the location offers sufficient air circulation around the unit.

Also, avoid excessive exposure to sun, dust and humidity. Ventilation ducts and openings in the housing serve to keep the unit cool. They must not be covered up with magazines, table cloth, curtains etc.

If the 035 has to be operated in an extremely warm environment it may be necessary to supply additional ventilation. Avoid operating the unit in an excessively humid environment like bath rooms etc.

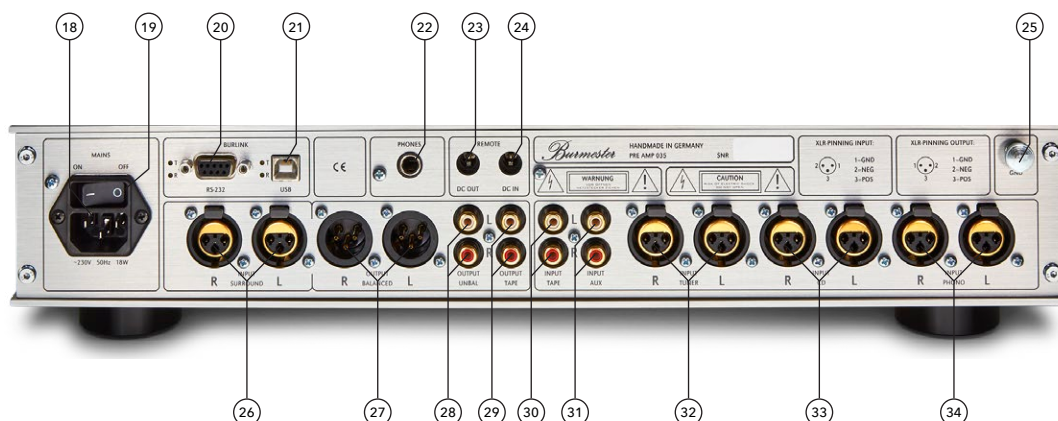
FUNCTIONAL OVERVIEW

Front panel



1	DISPLAY button for dimming of display
2	TONE button for activating, deactivating and adjusting the tone control
3	TONE LED lights up, when tone control is activated
4	STANDBY LED illuminates in standby mode
5	Alphanumeric display shows selected input
6	VOLUME knob / SELECT knob in SETUP mode
7	SETUP button for entering SETUP menu
8	Input select button PHONO
9	Input select button CD
10	Input select button TUNER
11	Input select button AUX
12	Input select button TAPE
13	IR receiver for remote control
14	Input select button SURR(ound)
15	MONITOR button to activate the monitor function
16	POWER switch for switching the unit on or off
17	POWER LED shows operating state of the unit

Rear panel



18	AC mains terminal
19	AC mains switch
20	BURLINK interface RS-232 with check LEDs
21	BURLINK interface USB with check LEDs for analog recording unit
22	Headphones jack
23	REMOTE output jack
24	REMOTE input jack
25	GND screw for PHONO frame ground
26	SURROUND input balanced
27	PREAMP output balanced
28	PREAMP output unbalanced
29	TAPE output unbalanced,
30	TAPE input unbalanced
31	AUX input unbalanced
32	TUNER input balanced
33	CD input balanced
34	PHONO input balanced

CONNECTIONS

Make sure the ground lead in your power outlet is working correctly.

PLEASE NOTE: Before connecting the unit, check that the voltage rating on the rear of the preamplifier below the mains socket matches the mains voltage available at the installation site. If you are unsure which mains voltage is available, please contact your responsible power supply company.

(9) Mains socket

Make sure the AC mains switch (19) on the rear of the unit is set to OFF. Connect the power cord to the AC mains terminal (18) and plug it into the wall outlet.

Inputs

To connect source components like CD-Player, FM-Tuner, Tape deck etc. the preamplifier provides two balanced inputs (XLR) named **INPUT CD (33)** and **INPUT TUNER (32)** and two unbalanced inputs (RCA) named **INPUT AUX (31)** and **INPUT TAPE (30)**. For the best sound we recommend using the balanced inputs whenever possible.

The pinning of the balanced inputs is: **PIN1=GND, PIN2=NEG, PIN3=POS.**

NOTICE: If necessary, the balanced inputs can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.

PHONO input

There are three options to operate the **INPUT PHONO (34)**:

- CD-SYM module

In the standard version the PHONO input is equipped with a CD-SYM module, which makes the PHONO input another balanced high level input.

- PHONO-MC module

With an implemented PHONO-MC module (accessory, available on request at your local dealer) the PHONO input becomes a balanced PHONO-MC input. If the PHONO-MC input is to be driven unbalanced, XLR-RCA adapters must be used. The PHONO-MC module and the XLR-RCA adapters can also be obtained later from your local dealer.

The 4-pole DIL switches on the PHONO-MC module serve to match the impedance to the pickup system. In OFF position the module has an input impedance of 100 Ohm. This value can be reduced by setting the DIL switches:

1 ON: 82 Ohm

2 ON: 39 Ohm

3 ON: 22 Ohm

4 ON: 10 Ohm

The ON position is marked on the switches.

- PHONO-MM module

With an implemented PHONO-MM module and a pair of XLR-RCA adapters (accessory, available on request at your local dealer) the PHONO input becomes an unbalanced PHONO-MM input. For technical reasons a balanced PHONO-MM input cannot be realized. The PHONO-MM module and the XLR-RCA adapters can also be obtained later from your local dealer.

The 4-pole DIL switches on the PHONO-MM module serve to match the impedance to the pickup system. In OFF position the module has an input impedance of 56pF//47 kOhm. This value can be increased by setting the DIL switches:

1 ON: 110pF

2 ON: 150pF

3 ON: 270pF

4 ON: 390pF

The ON position is marked on the switches.

The pinning of the PHONO input is: **PIN1=GND , PIN2=NEG , PIN3=POS .**

GND screw

By using the PHONO input as an unbalanced input for a turntable it is necessary to connect the GND wire of your turntable to the **GND screw (25)** . Loosen the GND screw, clamp the GND wire of your turntable between the two washers and tighten the GND screw.

Don't use any tools but your hand to tighten the GND screw!

SURROUND input

The front channels of a surround decoder are connected to the balanced **input INPUT SURROUND (26)**.

The signal at the SURROUND input is routed directly to the PREAMP outputs of the preamplifier, bypassing tone and volume control. Therefore connect only devices with their own volume control to this input. This mode allows surround components to be integrated easily into an existing hifi system without the inconvenience of re-plugging the connecting cables.

The pinning of the SURROUND input is: **PIN1=GND, PIN2=NEG, PIN3=POS.**

NOTICE: If your surround processor offers only unbalanced outputs, the balanced SURROUND input can be used for unbalanced connections by using XLR-RCA adapters. The required XLR-RCA adapters can be obtained from your local dealer.

PREAMP outputs

For the connection of power amps or active loudspeakers the preamplifier 035 provides two pairs of output jacks: OUTPUT BALANCED (27) and OUTPUT UNBALANCED (28).

These outputs provide the signal of the selected input PHONO, CD, TUNER, AUX, TAPE or SURROUND.

The pinning of the balanced output is: **PIN1=GND , PIN2=NEG , PIN3=POS**.

TAPE output

The output terminal **OUTPUT TAPE (29)** must be connected to the recording input of the taping device that has been hooked up with its outputs to the 035 INPUT TAPE (30).

The tape out terminal provides the signal of the selected input PHONO, CD, TUNER or AUX but not the signals from the inputs TAPE and SURROUND.

Volume and tone controls have no bearing on the signal at the TAPE output.

CAUTION: For technical reasons there is no signal at the TAPE output when the volume of the 035 is set to zero.

HEADPHONE OUTPUT

The headphones jack **PHONES (22)** requires headphones with a 6,3mm stereo plug and an impedance of 100 Ohm and more.

NOTICE: The **SETUP** menu offers you to choose whether the signal at the PREAMP outputs will break (HP OFF) while inserting a headphones plug into headphones jack or not (HP ON).

REMOTE

REMOTE Connecting DC OUT (23) to the corresponding DC IN-jack of another BURMESTER-unit offers to switch on or off this other unit simultaneously by the 035. In this case, 035 has the master function.

Connecting DC IN (24) to the corresponding DC OUT-jack of another BURMESTER-unit offers to switch on or off the 035 simultaneously by the other unit. In this case, 035 has the slave function.

BURLINK

To the BURmester-LINK interface **plugs (20), (21)** a CRESTRON®-System e.g. can be connected to the preamplifier 035. This system allows a comfortable control of your hifi system using an individual programmable touch panel.

OPERATING CONTROLS

With the exception of the AC mains switch all operating controls are located on the front panel. To operate the unit it must be connected to the AC supply.

(8) Mains switch

The AC mains **switch (19)** which turns AC power to the unit on and off is located on the rear panel above the AC mains terminal. By switching to the ON position the transformer is powered up.

POWER switch

The **POWER switch (16)** turns the unit on and off provided the AC mains switch is in the ON position.

Whether the POWER switch is set to "OFF" all functions of the preamplifier are deactivated.

Turning the POWER switch from "OFF" to "STBY" position the **STANDBY LED (4)** will illuminate due to the fact the preamplifier stands in standby mode.

When the POWER switch is in "STBY" position the unit can be turned on and off by pushing up the POWER switch or pushing the POWER button on the BURMESTER remote control (accessory).

In operating mode (ON) the **POWER LED (17)** lights up and all functions of the preamplifier are activated.

PLEASE NOTE: Always switch off the 035 with the POWER switch first before bringing the AC mains switch into OFF position.

VOLUME knob

The **VOLUME knob (6)** controls the volume level in 61 steps from 00 (off) to 60 (full volume). The selected volume level will be shown in the alphanumeric **display (5)**.

The responsivity of the VOLUME knob can be selected in the **SETUP** menu.

The VOLUME knob also controls functions in the **SETUP** menu.

Input select

Inputs are selected by pressing the respective input select button **PHONO (8)**, **CD (9)**, **TUNER (10)**, **AUX (11)**, **TAPE (12)**. The alphanumeric **display (5)** indicates the selection.

SURROUND input

Pressing the button **SURR (14)** activates the **INPUT SURROUND (26)**. The signal from the SURROUND input is routed directly to the PREAMP outputs, bypassing tone control and volume control.

MONITOR function

Pressing the button labeled **MONITOR (15)** blocks the direct signal path during recording and switches to replaying the just recorded signal. When the monitor function is activated an -M is added to the selected input in the alphanumeric display.

The inputs TAPE and SURROUND have no monitor function.

DISPLAY button

Pushing the button labeled **DISPLAY (1)** varies the brightness of the alphanumeric display in four steps between "max. brightness" to "off".

If brightness is selected to "off", the display will light up only when any controls are used to change settings. After a few seconds it automatically switches off again.

In **SETUP** mode display lights up on "max. brightness" permanently.

SETUP MENU

The **SETUP** menu of the preamplifier 035 allows the easy programming of certain basic settings as well as a host of special functions.

NOTICE: While the **SETUP** menu is active the **VOLUME knob (6)** on the front panel of the 035 serve to change the settings of the various menu items. During this procedure the volume level of the 035 cannot be changed.

Activating SETUP

Press the button **SETUP (7)** on the front panel to get into the **SETUP** menu. The alphanumeric display shows **SETUP** (blinking) followed by the first menu item (see table below).

Select menu item

The different items on the setup menu are selected in the sequence specified in the table below by repeatedly pressing the **SETUP button (7)**.

The activated menu item is indicated on the left side of the alphanumeric **display (5)**.

Change settings

To change the setting of an activated menu item rotate the **VOLUME knob (6)** to the left to lower the set value or to the right to increase the set value.

The selected value of the menu item is indicated on the right side of the alphanumeric display (5).

The selected value of any menu item will be saved immediately.

Deactivating SETUP

The **SETUP** menu is closed automatically after a few seconds when no adjustment is made. The alphanumeric **display (5)** shows **SETUP-OK** (blinking) followed by the selected input and the volume level.

The selected value of any menu item will be saved immediately.

Menu items

The following table lists all items that can be adjusted using the **SETUP** menu. (Values set in brackets show the factory settings) Following to the table you'll find a detailed description of all menu items.

MENU ITEM	DESCRIPTION	DISPLAY VALUE	
Volume	Selecting initial volume	VOL	00 to 20 (01)
PHONO	Input level adjustment for PHONO input	L-PH	-6 to +6 (0)
CD	Input level adjustment for CD input	L-CD	-6 to +6 (0)
TUNER	Input level adjustment for TUNER input	L-TU	-6 to +6 (0)
AUX	Input level adjustment for AUX input	L-AUX	-6 to +6 (0)
TAPE	Input level adjustment for TAPE input	L-TP	-6 to +6 (0)
Output amplification	Output amplification low (LOW) or high (HIGH)	OUT	LOW / HIGH (LOW)
Headphones	PREAMP output if headphones are plugged in	HP	OFF / ON (OFF)
Volume control	Responsivity of VOLUME knob	VC	DYN / SLOW / MID / FAST (FAST)
Serial number	Show the serial number after switching on the unit	SNR	OFF / ON (OFF)
Default	Loading of factory settings		

Volume

This menu item allows you to preset the volume level when the 035 is switched on.

The setting range extends from 0 to 20 in steps of 1.

Input level

The input level adjustment feature serves to avoid big jumps in volume when switching between signal sources with different output levels.

The setting range extends from -6 to +6 in steps of 1.

Output level

To achieve the best match with your power amps or active loudspeakers the output level of the amplification stages may be adjusted.

OUT HIGH stands for high amplification, OUT LOW accordingly for low amplification.

We recommend to choose the setting LOW when using BURMESTER power amps.

Headphones

This menu item offers you to choose whether the signal at the PREAMP outputs will break (HP OFF) while inserting a headphones plug into headphones jack or not (HP ON).

Volume control

The responsivity of the VOLUME knob can be selected in this menu item.

DYN stands for dynamic control, i.e. turning the volume knob slowly produces a step-by-step change of volume, while turning it faster produces a larger step size of the volume change.

SLOW stands for low responsivity.

MID stands for medium responsivity.

FAST stands for high responsivity.

Serial number

If you would like to see the serial number of the unit after switching on the preamplifier, choose (ON).

Defaults

If you want to load the factory settings of the unit, incl. display brightness and tone control, turn the volume knob to the right when this menu item is activated.

The display will show CHANGED!, if reset is done.

TONE CONTROL

The tone controls allow increasing or decreasing bass output in 2dB steps from plus to minus 10dB and treble output from plus to minus 14dB. A setting of 0 (0dB) corresponds to neutral setting.

If you don't wish tone controls, please deactivate it (see below).

Adjusting the tone controls

Pressing and holding the key labeled **TONE (2)** switches into the tone control menu. The menu items bass and treble can be called up sequentially by briefly pressing the TONE key.

BASS ADJUSTMENT:

The display shows BASS

Use the **VOLUME knob (6)** to adjust the bass between -10dB and +10dB.

TREBLE ADJUSTMENT:

The display shows TREB

Use the **VOLUME knob (6)** to adjust the treble between -14dB and +14dB.

The tone control mode is automatically terminated after a few seconds without any adjustment. The selected settings are retained when leaving the tone control menu. The tone control will be switched into the signal path after terminating the menu and the TONE LED (3) lights up.

Activating / Deactivating the tone controls

In normal operation the signal path by-passes the tone control completely.

To switch the tone controls into the signal path press the key labeled **TONE (2)** briefly. The **TONE LED (3)** illuminates when the tone controls are activated.

To switch the tone controls off press the key labeled **TONE (2)** briefly again and the **TONE LED (3)** will go out.

REMOTE CONTROL

The 067 remote control is delivered with the 035. By definition the keys on the remote control labeled POWER, TUNER, PHONO, TAPE, AUX, SURR have the same functions as the corresponding control buttons on the front panel of the preamplifier 035.

The DISC key has the same function as the CD button on the front panel of the 035.

The DIM key has the same function as the DISPLAY button on the front panel of the 035.

The keys VOLUME + and VOLUME - control the volume level of the output.

All other keys on the remote control have no functions with respect to the 035.

Warning! Danger due to included batteries

The Burmester remote control contains batteries. Do not expose them to excessive heat.

Improper use poses a risk of overheating, fire, explosion and the production of smoke and gas.

Have the batteries replaced by your dealer.

Swallowing the batteries can be fatal! Always keep children away from small parts that can be swallowed.

BURLINK

Connections

Connecting to the **BURLINK** interface can be done either with the 9 pin D-SUB connector (RS-232) or with the USB 2.0 connector. A USB device driver needs to be installed when using the USB 2.0 connector.

System requirements for using the USB software are either WINDOWS 2000 or WINDOWS XP operating system.

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COMMANDS

The commands for operating the preamplifier 035 are listed below:

POWON switches the unit on

POWOFF switches the unit to standby mode

PHONO activates the PHONO input

TUNER activates the TUNER input

CD activates the CD input

TAPE activates the TAPE input

AUX activates the AUX input

SURR activates the SURROUND input

VOLUP increases the volume for one step

VOLDN decreases the volume for one step

MONITOR changes between monitor loop on or off

MONITOROFF switches the monitor loop off

MONITORON switches the monitor loop on

TONE changes between tone control on or off

TONEOFF switches the tone control off

TONEON switches the tone control on

BASSUP increases the bass volume for one step (2dB)

BASSDN decreases the bass volume for one step (2dB)

TREBLEUP increases the treble volume for one step (2dB)

TREBLEDN decreases the treble volume for one step (2dB)

DIM0 switches the display brightness to maximum

DIM1 switches the display brightness to middle

DIM2 switches the display brightness to low

DIM3 switches the display to off mode

DIM advances one brightness level with each command (0,1,2,3,0,1,2....)

GENERAL INSTRUCTIONS

Operating temperature

An operating temperature that is too high or too low may cause malfunction. We therefore recommend letting the 035 sit for a while after unpacking and before connecting and operating it.

Connections

Do not touch the pins on the rear connections of the device with your fingers under any circumstances. Static discharges can damage the electronics inside the device.

IR receiver

The **IR receiver (13)** receives the signals from the remote control and should not be covered by objects.

Heat generation

Take care when touching the device, as the housing may become warm during operation.

Reset

If the unit does not react when pressing the control keys it may be reset to normal operation by switching it off and back on using the AC mains switch in the back.

Lightning strikes

In summer, faults frequently occur due to overvoltages in the mains caused by lightning. The only solution is to unplug the mains plug. Merely switching the 035 off does not suffice since voltage spikes are able to arc over separated contacts.

Interconnects

We supply custom-made balanced as well as unbalanced interconnect cables and speaker cables of any length to ensure highest-quality signal paths for our components. The impedance of our cables is ideally matched to all BURMESTER components.

Fuses

The fuses are located inside the unit and should be changed only by a qualified technician.

Voltage

Check before operating the 035 to see if the voltage setting shown on the back panel below the AC mains input conforms to voltage of your household power supply. Any change should only be done by an expert.

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 so 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 without overloading, the mechanical integrity of the device must not have been compromised, and the device must have been registered. The warranty expires if the device has been tampered with in any way or if parts of the housing, connections or terminals have been dismantled.

Register your product using the serial number provided in the warranty certificate at www.burmester.services/warranty to activate your warranty extension.

Care

Never wipe the housing with a wet cloth or use chemical cleaning agents, and make sure that no liquid gets into the unit.

PLEASE NOTE: Before opening the housing or changing the fuses always unplug the unit from the wall outlet. Danger of electric shock!

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 SPECIFICATIONS

Dimensions	Width x Height x Depth	482 x 96 x 336 mm
Weight	Unit	8 kg
Mains voltage and fuses		
Models:	035-120:	100-120 V~, 50/60Hz, 2x T 500mA E/H
	035-240	220-240 V~, 50/60Hz, 2x T 250mA E/H
Power consumption (ON)	ON	18W
Frequency response	-3dB	< 10 Hz – 200 kHz
Input impedance	sym	22 kOhm
	asym	22 kOhm
Warranty	upon submission of the warranty documents	3 years



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

Technical specifications subject to change without notice

Maximum altitude: 2000 m

Humidity < 50 %

Temperature range: 20-30 ° C



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