

Burmester

OWNER'S MANUAL

036 2-CHANNEL POWER AMPLIFIER



CLASSIC LINE

Dear Audiophile,

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

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.

Talk to us about your special requests, even if they seem out of the ordinary. We happily accept technically reasonable challenges.

Enjoy your enhanced listening pleasure.

Your Burmester Team

CONTENTS

UNPACKING and SET-UP POSITION	1
VIEWS OF UNIT	2
CONNECTING	3
OPERATING CONTROLS	4
PROTECTIVE CIRCUITS	4
WIRING DIAGRAMS	5-7
STEREO operation	5
MONO operation	6
BI-AMPING operation	7
PRECAUTIONS	8
TECHNICAL DATA	9

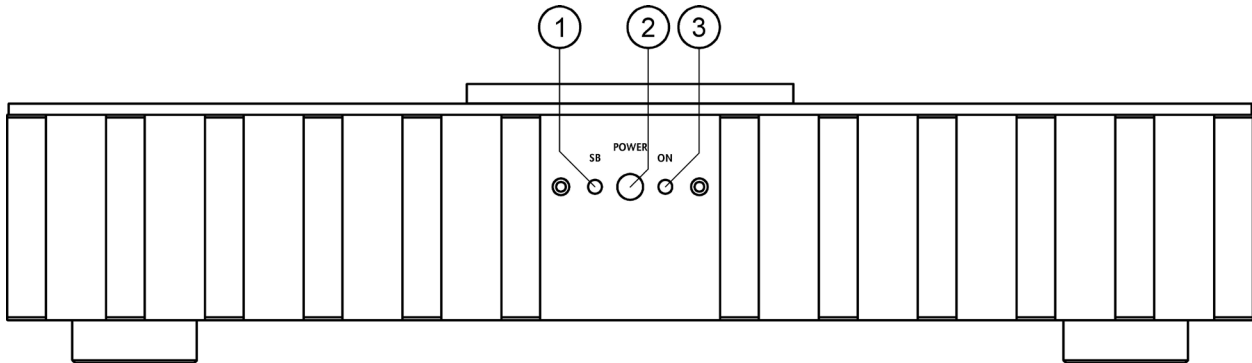
UNPACKING and SET-UP POSITION

PLEASE NOTE: The 2-channel power amp 036 weigh 25kg (55lbs). To avoid injury during unpacking and set-up, this should only be done by persons who are accustomed to handling such weights. The 2-channel power amp 036 is delivered wrapped in a plastic bag. Keep this bag away from children to avoid danger of suffocation.

Unpacking	To avoid damaging of the power amp's housing please do not use sharp or spiky objects for opening the packing case. Please check the completeness of delivery. If you miss something from the list below or should you discover damages to the power amp upon unpacking, please do not connect the power amp but contact your authorized dealer.
Contents of delivery	The shipping carton contains: • 1 packing carton with the 2-channel power amp 036 • 1 power cord • 2 adapter plugs (XLR – RCA) • 1 REMOTE cable • 1 owner's manual
Packaging	We recommend keeping the original packaging material in case of a move or future shipping.
Set-up position	Carefully remove the power amp from the packing carton and set it up in appropriate location. In particular, make sure that there is sufficient air circulation around the power amp. Avoid direct sunlight, dust and humidity to the power amp by choosing the final placement. Don't cover the slots of the unit's housing with magazines, blankets etc. If you operate your unit in extremely warm environment, additional air conditioning can be necessary. Don't operate the unit in extremely wet environment like bathrooms etc.

VIEWS OF UNIT

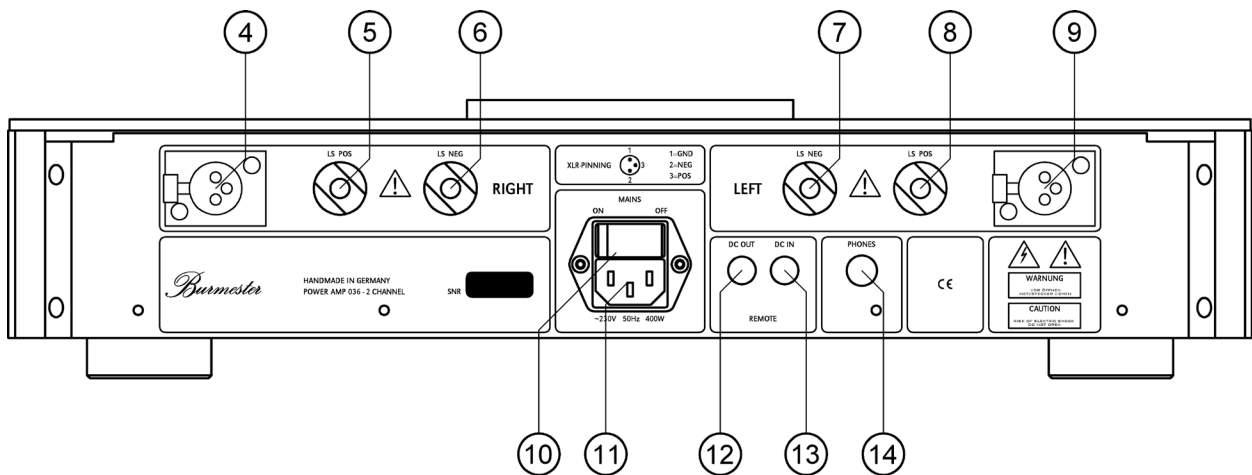
FRONT VIEW



- (1) **STAND BY LED**
(2) **POWER button**

- (3) **POWER LED**

REAR VIEW



- (4) **Input, right channel**
(5) **Loudspeaker output, right channel, positive**
(6) **Loudspeaker output, right channel, negative**
(7) **Loudspeaker output, left channel, negative**
(8) **Loudspeaker output, left channel, positive**
(9) **Input, left channel**

- (10) **AC mains switch**
(11) **AC mains input**
(12) **REMOTE output**
(13) **REMOTE input**
(14) **Phones jack**

CONNECTING

The connectors of the 2-channel power amp 036 are located on the rear panel. We strongly recommend leaving all components switched off while connecting the power amp. For optimal connections also pay attention to the manual of the driving unit.

AC mains input	Before connecting the power amp please check that the input voltage of the 036 is equal to the local voltage of your wall outlet. The AC mains input (11) is located on the rear panel. Make sure that the AC mains switch (10) is set to OFF. Connect the power cord with the AC mains input (11) and plug it into the wall outlet.
Inputs	The 036 offers two balanced Inputs (4) and (9), which will be connected to the corresponding outputs of your pre amplifier/surround processor. The pinning of the balanced inputs (XLR 3pin) is: PIN1=GND, PIN2=NEG, PIN3=POS. We strongly recommend using balanced connections to take full advantage of the extraordinary sound quality. If necessary, the inputs can be converted to unbalanced mode by using the supplied adapter plugs.
Binding posts	We utilize the same binding posts for our power amplifiers as for our loudspeakers. These high-grade terminals for speaker cables have proven their sonic excellence and functional convenience a thousand times over. Speaker cables can be connected via pure-copper spade lugs or via banana plugs. CAUTION: The binding posts of power amplifiers may carry dangerously high voltages. Do not touch them while the power amp is switched on.
Outputs	CAUTION: We strongly recommend leaving all components switched off while connecting the power amp. This will avoid shorting out cables that have not yet been completely hooked up. Connect the speaker cables to the power amplifiers only after ensuring that they are hooked up correctly to the speakers. Before turning the amp back on, make sure that all cables have been connected firmly and correctly with respect to polarity (POS, NEG) as well as frequency (LOW, HIGH/MID). After a new hook-up, we recommend increasing the volume slowly until you are sure that everything is connected correctly. IMPORTANT: Only connect the speaker cables to the intended binding posts of the power amp/loudspeakers. Never insert the speaker cables into a wall socket/AC mains.
Remote	Connecting DC OUT (12) to the corresponding DC IN-jack of another BURMESTER-unit offers to switch on or off this other unit simultaneous by the 036. In this case, 036 has the master function. Connecting DC IN (13) to the corresponding DC OUT-jack of another BURMESTER-unit offers to switch on or off the 036 simultaneous by the other unit. In this case, 036 has the slave function.
Phones jack	The phones jack PHONES (14) requires a 6.3mm stereo plug. When headphones are connected, the speakers are switched off automatically. When pulling the phones plug from the jack the speakers are being switched back on. Using the phones jack when the amplifier works in MONO or BI AMP operation, requires an adapter, which brings the two channels together.

OPERATING CONTROLS

The operating controls are located on the front panel except for the AC mains switch and the gain switch.

- AC mains switch** The **AC mains switch (10)** is located on the rear panel and connects the 036 from the AC supply when it is switched to ON.
When it is set to OFF the unit is completely disconnected and the LEDs on the front panel remains dark.
Switching to ON activates the stand by mode and the **Stand by LED (1)** on the front panel illuminates.
- POWER button** The **POWER button (2)** on the front panel switches the 036 into operating mode or back into stand by mode. In operating mode **Stand by LED (1)** and **POWER LED (3)** are illuminated. In stand by mode only **Stand by LED (1)** lights up.
After switching to operating mode the protective circuits of the 036 takes a few seconds to check all circuits of the power amp before enabling the speaker outputs.
- Gain switch** The 036 has a gain of 35.5 (**31dB**), equals gain switch position **0**. The gain can be set to a lower level of 11.2 (**21dB**), equals gain switch position **-6**. The switch for the gain setting is located inside the unit in the back part left of the rectangle stand by transformer and should be switched by a qualified technician only.
CAUTION: Before opening the unit please disconnect the AC cord.

PROTECTIVE CIRCUITS

The protective circuits of the 036 operates outside the signal path. When the amp is on, these circuits constantly check for errors with respect to temperature and DC offset.

- Temperature** In the event that one of the channels of the power amp exceed their maximum allowable temperature the overheat protection switches off the output relays and the **POWER LED (3)** goes out. The unit is switched into stand by mode. As a precaution, we recommend turning the volume down and waiting a while before turning back on the 036 by pressing the **POWER button (2)**. The 036 can only be switched back on after the temperature has fallen below the allowable limit.
- DC offset** If the DC voltage at the speaker outputs of the 036 exceeds the allowable limit, the speaker relays will be switched off. When this happens we recommend lowering the volume level. The 036 will re-enable the speaker outputs automatically as soon as the DC offset falls within the allowable limit.
- Overload** If the current, which is flowing through the power transistors of the 036, exceeds the allowable limit, the speaker relays will be switched off. When this happens we recommend lowering the volume level. The 036 will re-enable the speaker outputs automatically as soon as the current falls within the allowable limit.

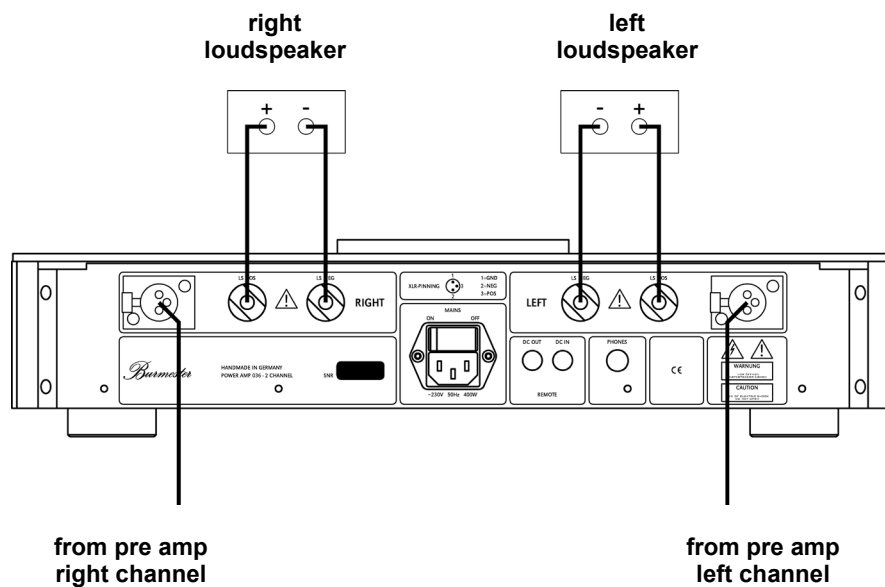
WIRING DIAGRAMS

STEREO operation

In STEREO mode each channel will be connected with the corresponding channel of the stereo signal.

To use the 036 in **STEREO** mode make the following connections:

- (4) input, right channel
- (5) positive loudspeaker binding post, right channel
- (6) negative loudspeaker binding post, right channel
- (9) input, left channel
- (8) positive loudspeaker binding post, left channel
- (7) negative loudspeaker binding post, left channel



MONO operation

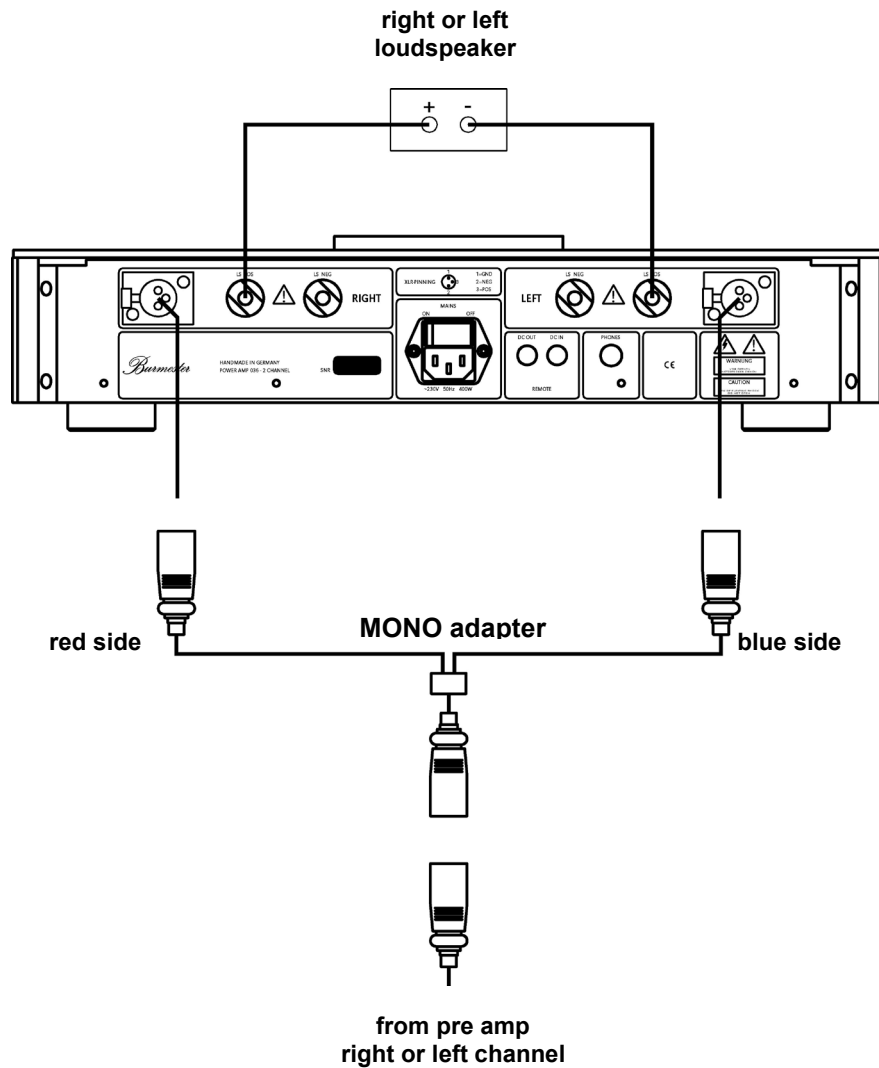
In MONO mode a MONO adapter is required which is available on request at your local dealer.

To use the 036 in **MONO** mode make the following connections:

- (4) MONO adapter, red side
- (5) positive loudspeaker binding post
- (6) not connected
- (9) MONO adapter, blue side
- (8) negative loudspeaker binding post
- (7) not connected

TO ATTEND:

The **phones jack (14)** offers only the MONO signal in this operation mode.

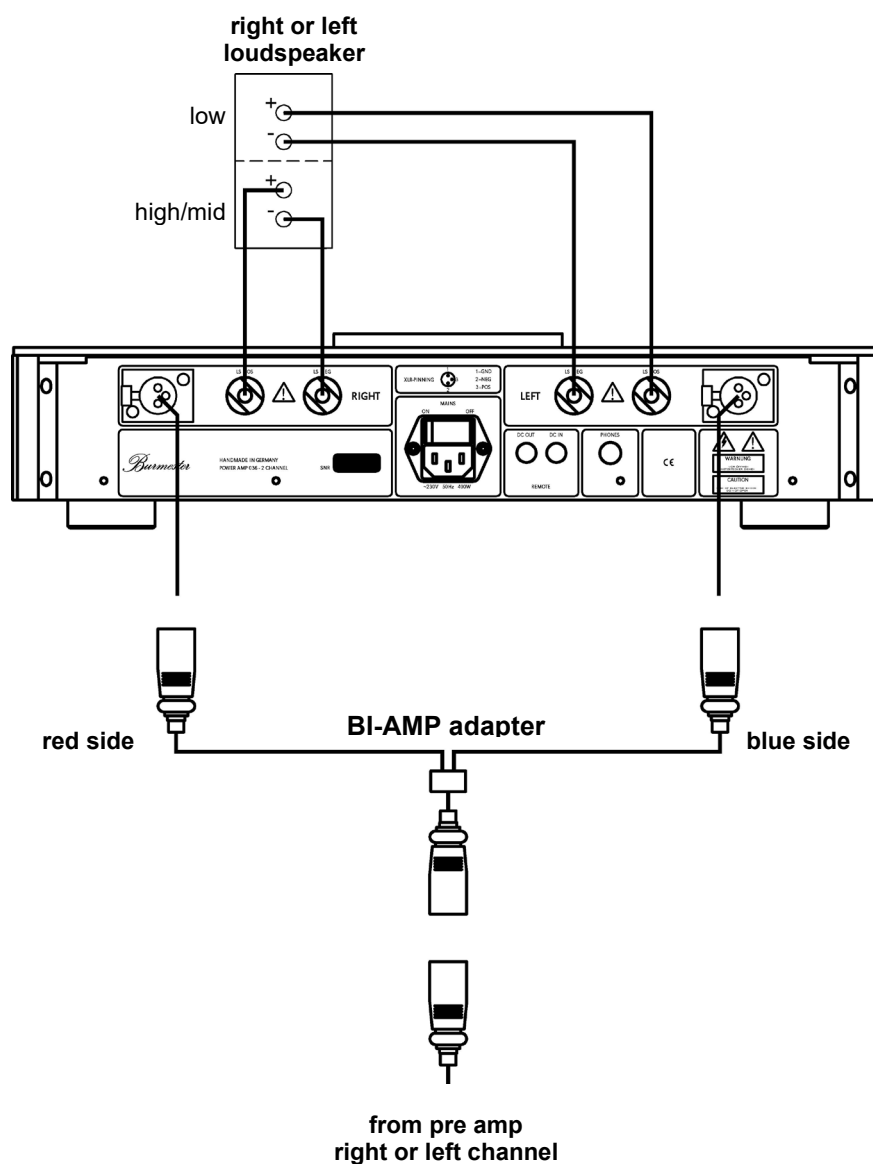


BI-AMPING operation In BI-AMPING mode a BI-AMPING adapter is required which is available on request at your local dealer.

To use the 036 in **BI-AMPING** mode make the following connections:

- (4) BI-AMPING adapter, red side
- (5) positive loudspeaker binding post, high/mid
- (6) negative loudspeaker binding post, high/mid
- (9) BI-AMPING adapter, blue side
- (8) positive loudspeaker binding post, low
- (7) negative loudspeaker binding post, low

TO ATTEND: The **phones jack (14)** offers only the BI-AMP signal in this operation mode.



PRECAUTIONS

Terminals	The pins of the connecting terminals on the back panel should not be touched by fingers under any circumstances. Static discharges may damage the electronic circuitry inside the unit. CAUTION: During operation the speaker terminals of the 2-channel power amp 036 carry high voltage. Therefore, it is strictly prohibited to touch these terminals during operation.
Heat development	Be careful by touching your component because the housing becomes warm during operation.
Reset	If the 036 does not react when control keys are pushed it must be reset by switching it off and back on using the AC mains switch on the back panel.
Lightning strikes	During the summer month, malfunctions often occur due to voltage spikes in the power lines after lightning strikes. Completely unplugging the power cord offers the only effective protection. Merely switching the 036 off using the AC mains switch 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. For the cleanest power supply we recommend our shielded BURMESTER power cord.
Fuses	The fuse are located inside the unit and must be changed by a qualified technician only.
Voltage selection	The bridge for selecting the correct voltage is located inside the housing. If the voltage setting needs to be changed, we recommend contacting your dealer.
Cleaning	Only use a humid or dry cloth to clean the housing. Never use a wet cloth or chemical liquids to clean the housing
Caution:	There are dangerous voltages inside the housing, regardless of whether the power cable is connected or disconnected! Do not open the device.

TECHNICAL DATA

Dimensions	Width x Height x Depth	480 x 101 x 482mm (18.9 x 4.0 x 19.0 inches)
Weight		19 kg (42 lbs)
Mains voltage and fuses	for 200V – 254V 50/60Hz	2 x slow 3.15A E 1 x slow 100mA E
	for 100V – 127V 50/60Hz	2 x slow 6.3A E 1 x slow 100mA E
Power consumption	max.	400W
	idling	60W
	stand by	4W
Output power	at 4Ohm	1 x 350W
	at 4Ohm	2 x 170W
Gain		31.1dB

PLEASE NOTE: The dimensions do not include the length of binding posts and the space needed for plugs of interconnect cables.

The technical data and design of this product are subject to change without notice.

Burmester Home Audio GmbH
Wilhelm-Kabus Straße 47 · 10829 Berlin, Germany
www.burmester.de

BA_o36_en_1-3_2605