

Burmester

OPERATION MANUAL

9II MK3 POWER AMPLIFIER



TOP LINE

Burmester



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 and maximum versatility.

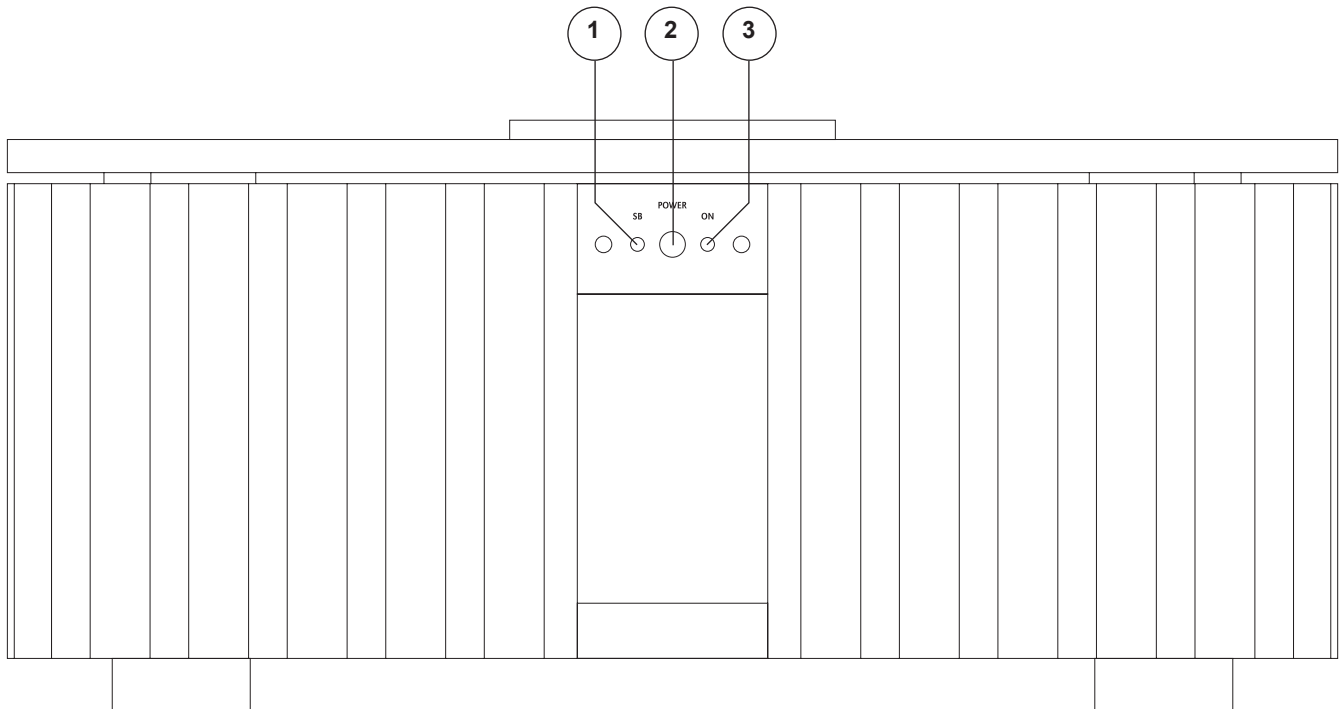
Before using the device for the first time, we recommend that you read through the entire manual at least once so that you can make full use of the capabilities of this exceptional audio device. Should you still have questions, please speak to your dealer or contact us directly.

We're always happy to discuss your special requests, no matter how unusual. We love a good technical challenge.

We wish you an exceptional listening experience.

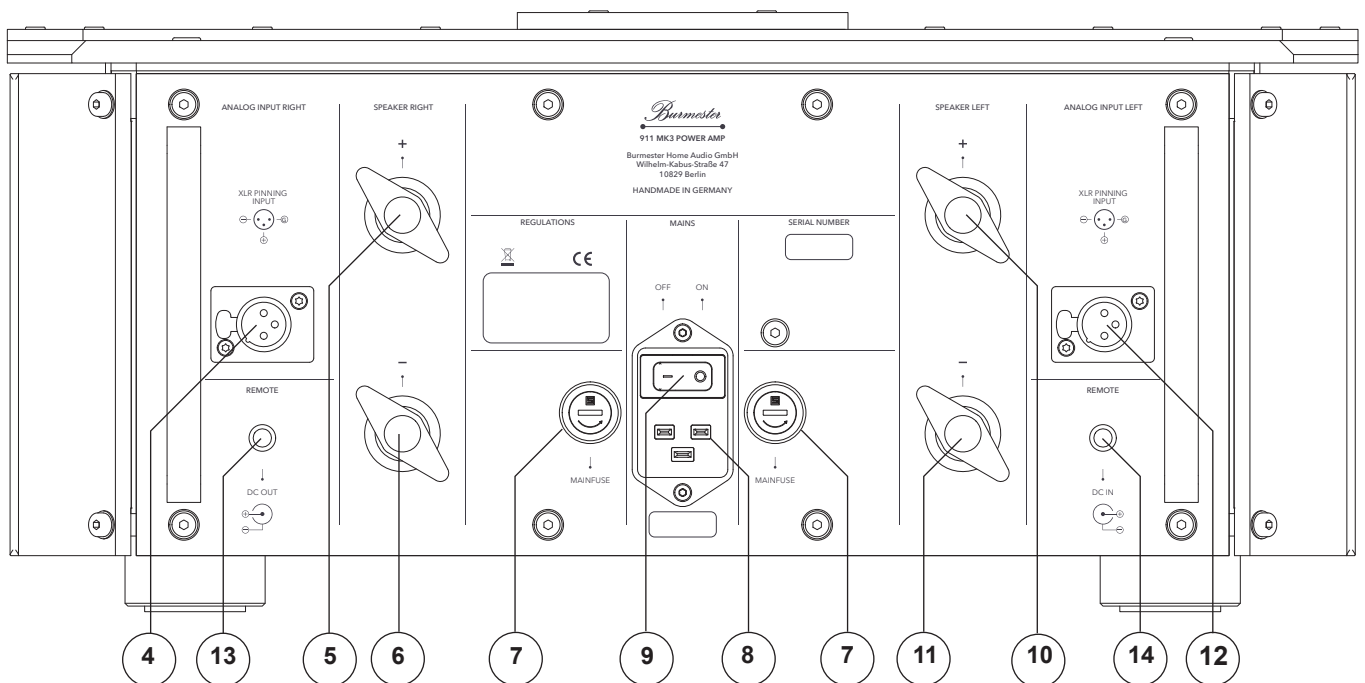
Your Burmester team

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

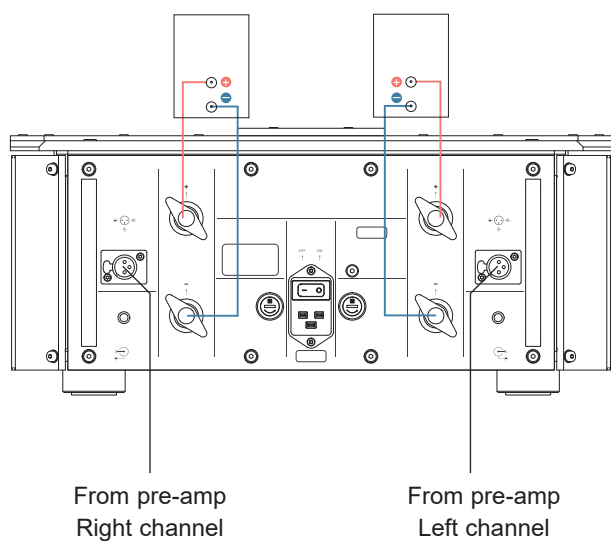
- (3) **POWER LED**



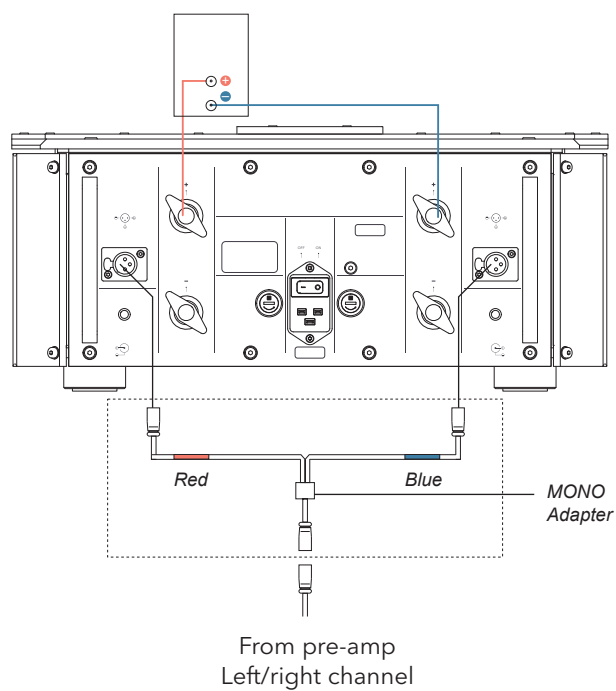
- (4) **Input, right channel**
(5) **Output, right channel, positive**
(6) **Output, right channel, negative**
(7) **AC voltage selector/fuse box**
(8) **AC input**

- (9) **Mains switch**
(10) **Output, left channel, positive**
(11) **Output, left channel, negative**
(12) **Input, left channel**
(13) **REMOTE OUT jack**
(14) **REMOTE IN jack**

STEREO WIRING DIAGRAM

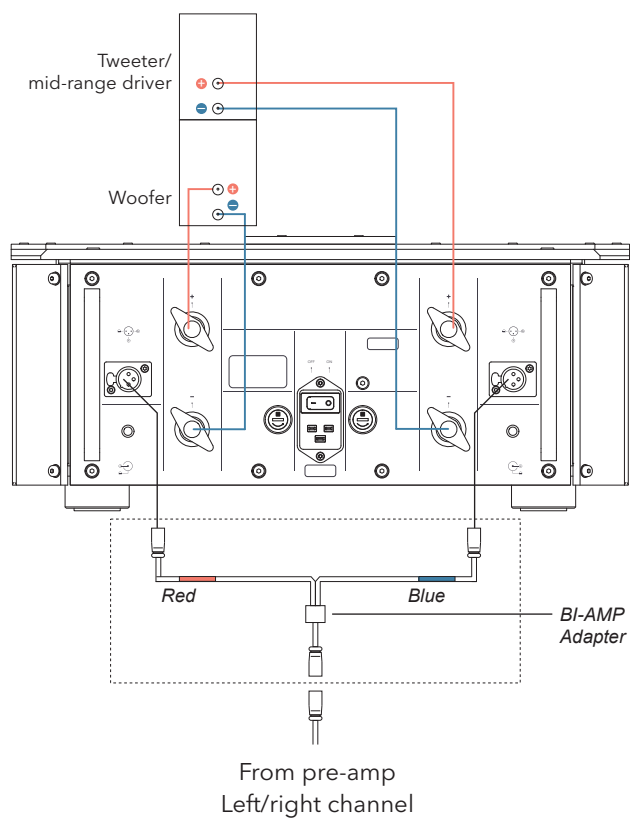


MONO WIRING DIAGRAM (bridged)



WIRING DIAGRAM FOR BI-AMPING

With split passive crossover in speaker



ACCESSORIES



Adapter plug
XLR-RCA

Required to connect unbalanced cables to the
balanced input jacks.

Included in scope of delivery



STARTING UP THE DEVICE

Scope of delivery	The scope of delivery for the device comprises the following items: • 1 package • 1 operation manual • 1 power cable • 2 XLR-RCA adapter plugs • 1 remote cable
Packaging	We recommend keeping the original packaging in case you need to transport the device again at a later date, e.g. if you move home.
Setup	Carefully remove the amplifier from the transport packaging and set the device up in an appropriate location. Choose a location that guarantees good air circulation around the device.

CONNECTING THE DEVICE

Before connecting the device, please make sure that the mains switch (9) is set to "OFF" and that the mains plug is not plugged in.

To avoid any mistakes, we strongly recommend following the connection procedure outlined here.

Mains voltage	At the factory, the mains voltage is set to the national standard for the country in which you purchased your Burmester device. If you intend to operate your 911 power amplifier at a different mains voltage to that set at the factory, you will need to send your 911 power amplifier to our Sales team or our factory in Berlin so that the mains voltage can be adjusted accordingly. If you are uncertain of the mains voltage at your installation site, please make sure you check with your authorised Burmester dealer prior to installation.
Inputs	The 911 has two balanced inputs (4) and (12) , which can also be operated in unbalanced mode using the two adapter plugs included in the scope of delivery. However, in order to make full use of the device's sonic capabilities, we recommend using the balanced connections.
Outputs	The speaker cable is connected to the binding posts at the speaker outputs (5), (6), (10) and (11). To ensure unimpeded signal flow, we recommend terminating the speaker cables with copper spade lugs. We strongly advise against using banana plugs of any kind. The speaker cables must be connected correctly to the speakers before they are connected to the outputs of the 911. PLEASE NOTE: The speaker outputs of power amps like the 911 may conduct potentially fatal voltages.
Remote	If you connect the REMOTE OUT (13) jack to the corresponding REMOTE IN jack on a BURMESTER device, you will be able to switch this on and off remotely when switching the 911 power amplifier on and off. In this case, the 911 power amplifier will act as the master device. If you connect the REMOTE IN (14) jack to the corresponding REMOTE OUT jack on a BURMESTER device, you will be able to switch the 911 power amplifier on and off remotely when switching the device in question on and off. In this case, the 911 power amplifier will act as the slave device.



OPERATING THE DEVICE

- AC input** Make sure the **mains switch (9)** is set to OFF. Connect the power cable to the **AC input (8)** and plug the mains plug into the mains socket.
- Mains switch** The **mains switch (9)** on the rear panel of the device disconnects the 911 from the mains power supply.
When the switch is in the OFF position, the device is completely cut off from the power supply and the LEDs on the front panel will all be off. When the switch is in the ON position, the device is in stand-by mode and the **STAND BY LED (1)** on the front will be lit up.
- POWER button** The **POWER button (2)** on the front panel is used to switch the 911 from stand-by into operational mode, or back into stand-by. When the device is in operational mode, the **STAND-BY LED (1)** and the **POWER LED (3)** will light up. When the device is in stand-by mode, only the **STAND-BY LED (1)** will be lit up. When the 911 is switched into operational mode, the monitoring circuitry will check all its functions. Because of this, it always takes a few seconds before the speaker outputs come on.

CONNECTION OPTIONS

- STEREO mode** For **STEREO** mode, the 911 must be connected as follows:
(See STEREO wiring diagram)
- (4) Input, right channel
 - (5) Speaker output, positive, right channel (red binding post)
 - (6) Speaker output, negative, right channel
 - (12) Input, left channel
 - (10) Speaker output, positive, left channel (blue binding post)
 - (11) Speaker output, negative, left channel
- MONO mode** For **MONO** mode, the 911 must be connected as follows:
(See MONO mode wiring diagram):
- (4) **MONO ADAPTER**, red side
 - (5) Speaker output, positive (red binding post)
 - (6) Must not be connected
 - (12) **MONO ADAPTER**, blue side
 - (10) Speaker output, negative (blue binding post)
 - (11) Must not be connected
- BI-AMP mode** For **BI-AMPING** mode, the 911 must be connected as follows:
(See wiring diagram for BI-AMPING mode):
- (4) **BI-AMP ADAPTER**, red side
 - (6) Speaker output, positive, woofer
 - (5) Speaker output, negative, woofer
 - (12) **BI-AMP ADAPTER**, blue side
 - (10) Speaker output, positive, tweeter/mid-range driver
 - (11) Speaker output, negative, tweeter/mid-range driver

If you are not sure whether you have connected your 911 correctly for the desired operating mode, please contact your Burmester dealer.



THE PROTECTION CIRCUIT

The protection circuitry of the 911 operates outside of the signal path. It constantly monitors the 911's operating status for overheating, DC offset at the outputs and peak current.

Temperature	If the temperature in one or both channels of the device exceeds the permitted maximum, the speaker outputs will automatically be switched off and the POWER LED (3) will go out. The device will also switch to stand-by mode at the same time. If this happens, we recommend turning the volume on the preamplifier or the system all the way down as a precaution. After the necessary cooling-off period, the 911 can be switched back on using the POWER button (2). The 911 will not allow you to switch it back on until the temperature has dropped below the maximum permissible limit.
DC offset	If DC offset at the speaker output terminals of the 911 exceeds the tolerance limit, the speaker outputs will automatically be switched off. If this happens, we recommend turning the volume on the preamplifier or the system all the way down as a precaution. The 911 will activate the speaker outputs again once the DC voltage has dropped below the maximum permissible limit.
Peak current	If the peak current at the speaker output terminals of the 911 exceeds the maximum tolerance limit, the speaker outputs will automatically be switched off. If this happens, we recommend turning the volume on the preamplifier or the system all the way down as a precaution. The 911 will activate the speaker outputs again once the current has dropped below the maximum permissible limit.

GENERAL INSTRUCTIONS

Please read the operation manual for your device carefully and keep it in a safe place. If you have any questions, please contact your dealer.

Operating temperature	An operating temperature that is too high or too low may cause the device to malfunction. As such, we recommend letting the device sit for a while after unpacking and before connecting and operating it.
Setup	When choosing a place for your device please observe the following guidelines: - Avoid direct sunlight - Do not subject the device to excessive heat, cold, humidity or dust - Provide adequate air circulation; do not place the device on an enclosed shelf - The slots and openings in the device are designed for ventilation. They must not be covered. - Please make sure that the device is not exposed to dripping or splashing water, and do not place containers of liquid on your device. - Open flames such as candles should not be placed on top of the device.
Mains voltage	Before putting the device into operation, check to see if the mains voltage specified on the back panel of the device below the AC input matches the mains voltage for your household. If this setting needs to be changed, this may only be done by a trained professional. Always use the 3-wire power cable supplied with the device to connect it to the power supply. The protective earth contact must never be disabled. Furthermore, the device must be connected to a mains socket with a properly functioning protective earth connection.

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Start-up	Switch off all devices in your home audio system before installation. Do not switch the devices on again until you are sure that all the devices are completely and correctly connected. Do not attempt to operate the device if it is obviously damaged or if liquid has got in it.
Connections	Never touch the pins of the connecting terminals on the back panel of the device using your fingers. Static discharges may damage the electronic circuitry inside the device.
Connection cables	We supply both balanced and unbalanced interconnect cables and speaker cables of any length to ensure optimum sound quality. The impedance of our cables is optimised for use with all BURMESTER components. For the cleanest power supply, we recommend using our triple-shielded BURMESTER-POWER cable.
Hot components	Be careful when touching the device – the housing may get quite warm during operation.
Resetting	If the device does not respond when you use the controls, it can be reset to normal operation by switching it off and back on again using the mains switch on the back.
Lightning strikes	During the summer months, malfunctions often occur due to overvoltage in the mains power lines caused by lightning strikes. Completely unplugging the power cable from the mains socket offers the only effective protection from lightning strikes. It is not sufficient to simply switch off the mains switch, as overvoltages are able to "arc" over contacts that are not closed.
Fuses	The fuses are located inside the device and should only be changed by qualified technicians.
Warranty	We provide a three-year warranty on this device. In order for the warranty to be valid, the device must have been connected properly without overloading, the mechanical integrity of the device must not have been compromised, and the warranty application must have been submitted properly. 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.



This symbol on your device indicates important operating instructions that can be found in the operation manual.



This symbol on or inside your device warns of dangerously high voltage.



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.



Care Never wipe the housing with a wet cloth, and do not use chemical agents when cleaning. Ensure that no liquids get into the device.

PLEASE NOTE: The device should only ever be opened by qualified professionals. By opening the device, you risk coming into contact with dangerously high voltage. The power cable must always be unplugged before opening the device.

Available accessories MONO adapter cables (14) for MONO operation of the 911
BI-AMP adapter cables (15) for BI-AMPING operation of the 911

TECHNICAL SPECIFICATIONS

Dimensions (WxHxD)	482 mm x 216 mm x 482 mm
Weight	Approx. 31 kg
Power output at 4 Ω	Stereo: 2 x 350 W/Mono: 1 x 770 W
Damping factor	2750
Signal-to-noise ratio	> 103 dB
Input sensitivity	770 mV for full level control
Power frequency response (-3 dB)	<10 Hz - 220 kHz
Voltage ranges	
911MK-100	100 V~, 50/60 Hz
911MK-120	110-120 V~, 50/60 Hz
911MK-220	220 V~, 50/60 Hz
911MK-230	230 V~, 50/60 Hz

8 selected power transistors per channel
Extra-large power supply unit with 130,000 μ F filter and 750 VA toroidal transformer
(Custom design)

CONNECTION OPTIONS

Balanced input (stereo/mono)
Unbalanced input using supplied adapter
10 V DC Input/Output for Remote on/off via Burmester devices
Speaker outputs (stereo/mono)

VERSIONS

Standard version with chrome brackets, engraved chrome triangle, anodised silver housing. Custom versions (e.g. black) available on request.



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