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Introduction

Congratulations on your purchase and thank you for choosing 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 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

Burmester proudly presents this series model of its superlative mono power amplifiers – because exceptional sound is in our DNA. With a design inspired by the renowned amplifiers in our portfolio, we've updated the look of the 159 mono power amplifier to match the most modern design concepts and to highlight the technological advances contained within. After seven years of development, we've improved and harmonised the performance and control to unprecedented levels. The 159 is the happy result of Burmester's wealth of experience in power amplifiers and the latest innovations in analogue amplifier technology: a device with ground-breaking design and technology, while still remaining a "typical Burmester".

THE HIGHLIGHTS:

→ Variable damping factor for adapting to your loudspeaker
→ Fully symmetrical design
→ DC-coupled signal path without sound-distorting capacitors
→ Generously dimensioned power supply for high current delivery
→ Remote on/off via Burmester preamplifier
→ Analogue fault detection and processor-controlled fault diagnostics

Intended Use

This device is intended for use in home music systems.

PERMISSIBLE OPERATING CONDITIONS

Please take care to only ever use your Burmester device under the following conditions:

Maximum altitude	2000 m
Humidity	< 50 %
Temperature range	20–30° C

About this Operation Manual

This operation manual describes to the user how to operate the 159 mono power amplifier. It also provides information for skilled persons within the meaning of the EN 62368-1 standard.

Sections that concern skilled persons only are labelled accordingly:

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

159

Instructions

Instructions for Skilled Persons

Certain steps in this operation manual may only be performed by skilled persons. The work steps in question are presented in this manual with a blue background and marked with the following notice:

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

If you require help at a later point during your use of the device or when moving home, please contact your dealer.

Meaning of warning symbols and words

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

The general hazard symbol, in conjunction with the warning words **CAUTION**, **WARNING** or **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.

This warning symbol warns of high surface temperatures. You may get burned by touching these parts.

This warning symbol warns of bruising hazards.

ATTENTION:
indicates a hazard that could damage or destroy the device.

CAUTION:
indicates a hazard that poses a low or moderate risk of injury.

WARNING:
indicates a hazard that could cause serious injury or death.

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.

Important Safety Instructions

Please read the operation manual for your power amplifier in its entirety.
KEEP THIS OPERATION MANUAL IN A SAFE PLACE.

WARNING: SUFFOCATION HAZARD DURING UNPACKING

Your Burmester device is shipped in plastic bags to protect the surfaces.

→ Keep these bags out of reach of children in order to prevent suffocation.

ATTENTION: RISK OF INJURY TO CHILDREN

If used improperly, this device poses various injury risks to children. It is not intended for use by children.

→ Never leave your children unattended with the device.

ATTENTION: DANGER DUE TO IMPROPER INSTALLATION

Please observe the instructions on how to properly install the device on page 17

WARNING: HIGH DEVICE WEIGHT

Your Burmester device is very heavy and can cause serious injury if it tips over or falls.

→ The Burmester 159 may only be unpacked and installed by skilled persons with appropriate training.

ATTENTION: HAZARDOUS VOLTAGE

To fully disconnect the device from the mains, you have to unplug the mains plug.

ATTENTION: WHEN STARTING THE DEVICE

→ Switch off all devices in your hi-fi system before installation. Do not switch these devices on again until you are sure that all devices are completely and correctly connected.

→ Do not attempt to operate the device if it is obviously damaged or if liquid has gotten in it.

CAUTION: HEAT GENERATION

During operation, the housing of the 159 can heat up to 70° C at the places marked.

→ Be careful when touching the device.

ATTENTION: OPERATING THE DEVICE DURING THUNDERSTORMS

It is not sufficient to switch off the mains switch on the back of the device.

→ During thunderstorms or when there is a risk of lightning strikes, disconnect the device from the power supply by unplugging the power cable from the device or the mains socket. To be safe, also unplug all connected components from the power supply.

DANGER: OPENING THE DEVICE

There are dangerous voltages inside the housing, regardless of whether the power cable is connected or disconnected!

→ Do not open the device.

REPLACING FAULTY FUSES

If you cannot switch on the device even though the mains voltage is connected, the reason might be a faulty fuse. This can have various causes.

→ Have the device checked by your dealer. Only authorized personnel are permitted to change the fuses.

237
215
197
182
169
157
148
139
131
124
POWER
STATUS

Unpacking and Setting Up the Device

Unpacking the Power Amplifier

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

To avoid damaging the housing, do not use any pointed or sharp objects to open the packaging.
Please check the delivery for completeness and damage.

SCOPE OF DELIVERY

The following is included with delivery:

2	Flight case with the 159 power amplifier
2	Protective covers for the 159
1	Lifting equipment for lifting the 159
1	Set-up instructions for using the lifting equipment
2	Mains cable, 2 m in length
2	Remote cable, 2 m
1	BurSync cable, 7.45 m in length
1	Operation manual
1	Set of warranty documents
1	Care kit

PLEASE CHECK THE DELIVERY FOR COMPLETENESS AND DAMAGE.

→ If parts of the delivery are missing or if you notice any damage when unpacking the device, please do not connect them and consult an authorised dealer instead.

WE RECOMMEND KEEPING THE ORIGINAL PACKAGING FOR FUTURE TRANSPORT, MOVING, ETC.

Setting Up the Power Amplifier

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

WARNING: HIGH POWER AMPLIFIER WEIGHT

The 159 is very heavy and can cause serious injury if it falls.

→ The power amplifier should only be unpacked and set up by skilled persons who are experienced in handling heavy loads.

→ Be sure to follow the separate installation manual for the 159!

→ Because of the power amplifier's high weight, we recommend consulting a structural engineer before setting it up.

ATTENTION: HIGH OR LOW TEMPERATURES CAN CAUSE DEVICE MALFUNCTIONS

→ After unpacking the device, leave it to sit in the room for a time before connecting and switching it on.

→ Carefully remove the device from the packaging and place it in a suitable location.

ATTENTION: IMPROPER INSTALLATION

Consider the following points when choosing where to position the device:

→ Avoid exposure to direct sunlight as well as excessive heat, cold, moisture and dust.

→ Ensure adequate ventilation. Never place the power amplifier on an enclosed shelf.

→ Do not cover the slots or openings on the device, as they are needed for ventilation.

→ Only place the device on level and load-bearing surfaces.

→ The device requires ventilation from below. This is ensured by the height of the adjustable feet. Place it only on firm surfaces, not on high-pile carpet.

→ Do not operate the 159 in the bottom half of the flight case it was transported in.

NOTE

The IR receiver receives the signals from the transmitter in the remote control and must not be covered by objects.

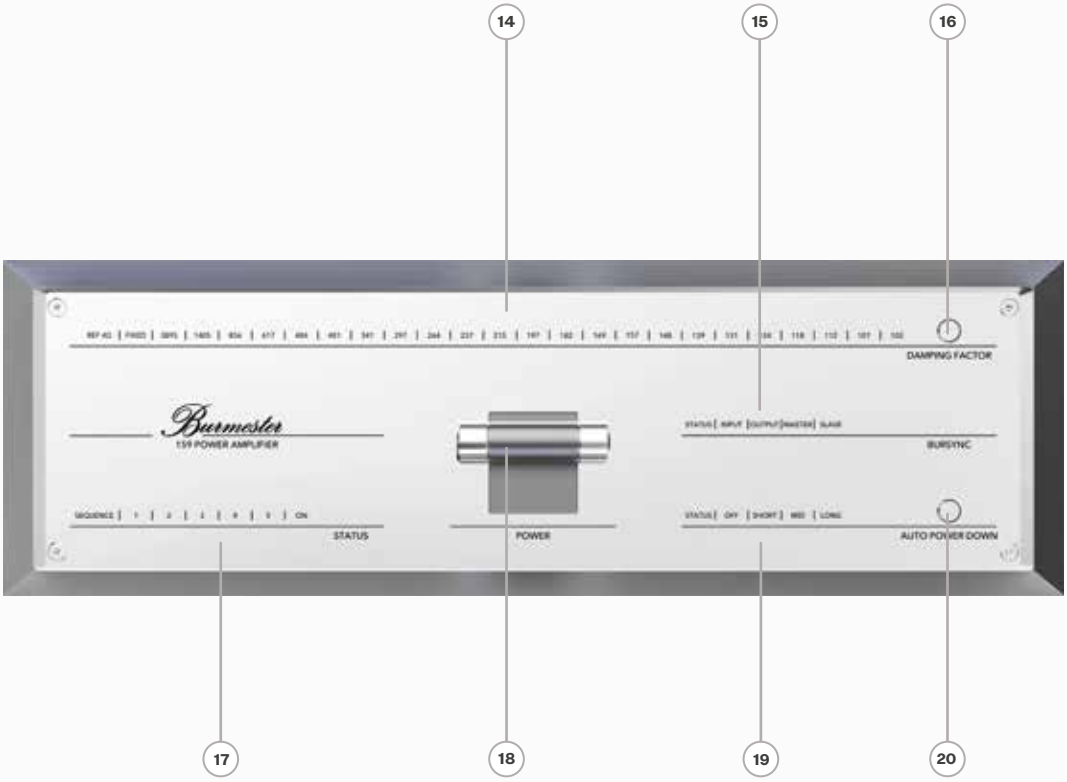
Overview of the 159

FRONT SIDE

1	LED (operation/standby) and infrared receiver
(LED off)	The power amplifier is switched off.
(LED steady orange)	Initiating start-up
(LED flashing green)	The power amplifier is starting up.
(LED steady green)	The power amplifier is in operation.
(LED flashing red)	The power amplifier is switching to standby mode.
(LED steady red)	The power amplifier is in standby mode.
(LED flashing orange)	An error has occurred (see page 41).
2	Control panel (under the movable cover)

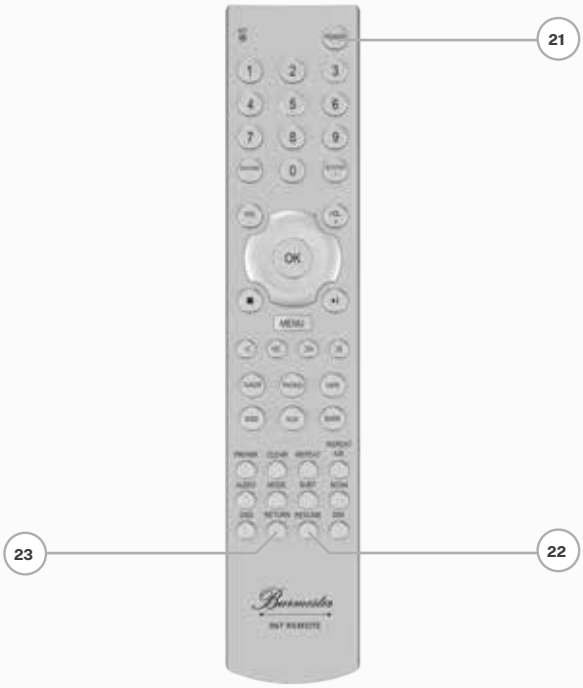
REAR SIDE

3	Balanced output
4	Damping factor adjustment knob
5	Balanced input
6	Remote control output
7	BurSync output
8	Loudspeaker output, positive
9	Power socket
10	Mains switch
11	Loudspeaker output, negative
12	BurSync input
13	Remote control input



CONTROL PANEL

14	Damping factor display
15	BurSync display
16	Toggle the damping factor
17	Status display
18	On/off switch
19	Auto power down indicator
20	Auto power down button



THE BURMESTER REMOTE CONTROL

(OPTIONAL)

21	Switch the device on or to standby mode.	
22	Toggle the damping factor between FIXED / VARIABLE	
23	Toggle through the different modes of the auto power down function:	
	OFF	Switched off
	SHORT	30 minutes
	MID	60 minutes
	LONG	120 minutes

CHOOSING THE COLOURS OF THE FRONT LED

You can use the remote control to adjust the colour scheme of the front LED (1) to your liking. You have 2 options:

1. Standby = red, ON = green
2. Standby = orange, ON = red

To change the colour scheme, the device must be switched on.
To change the colours, press the number combination “2 6 2 4” and then “OK” on the remote control.

Connecting the Power Amplifier

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

The connections are located on the rear of the 159. Before connecting the device, please also read the operation manuals for the signal source.

→ Switch off all devices in your hi-fi system before installation.

→ Do not switch these devices on again until you are sure that all devices are completely and correctly connected.

CONNECTING THE SIGNAL SOURCE

Connecting the signal source

1. Switch off all devices that you want to connect.
2. Connect the desired channel of the signal source to the input **(5)**.
3. Repeat the process for any additional power amplifiers.

CAUTION: HIGH-INTENSITY SOUND

Loud output signals can damage your hearing.

→ Only connect source components with volume control to this input.

CONNECTING AN ADDITIONAL POWER AMPLIFIER (BI-AMPING)

Connecting another 159 for bi-amping

1. Switch off all devices that you want to connect.
2. Connect the output **(3)** of the first power amplifier to the input **(5)** of the second power amplifier.

SYNCHRONIZING MULTIPLE POWER AMPLIFIERS (BURSYNC)

The BurSync function enables you to couple as many 159 power amplifiers as you like. The coupled devices automatically synchronise and exchange information with each other:

— Operation status (on/off)

— Auto power down status

— Information about damping factor

NOTE:

The order in which you connect the power amplifiers does not affect the sound. The first amplifier in the series automatically becomes the BurSync master.

COUPLING THE POWER AMPLIFIERS

1. Make sure that all power amplifiers to be connected are switched off.
2. Connect the BurSync cable to the BurSync output **(7)** on the first power amplifier and the BurSync input **(12)** on the second power amplifier.
3. Repeat the process for any additional power amplifiers.
   → Once you have connected all the desired power amplifiers, the devices will synchronise at the next start-up.

CONNECTING THE REMOTE CONTROL INPUTS

By connecting the remote control output **(5)** on the power amplifier to the remote control input on another Burmester device, you can switch this device on and off in parallel with the power amplifier.
Accordingly, if you connect the remote control input **(13)** to the remote control output on another Burmester device, this device will be switched on/off when the connected device is switched on/off.

NOTE:

If you are operating multiple 159 devices connected via BurSync, you need only connect one of the power amplifiers (via the remote control input (13)) to another Burmester device that you want to start together with the power amplifiers. All other power amplifiers are switched on/off via the BurSync connection.

CONNECTING THE LOUDSPEAKERS

WARNING: HAZARDOUS VOLTAGE AT THE BINDING POSTS

Hazardous voltages may be present at the binding posts during operation.

→ Before connecting the loudspeakers, switch off all components of your music system and do not switch them on until you have made all the connections properly.

→ Never operate the power amplifier without the binding post covers in place.

→ No live parts should be exposed once you have connected the loudspeaker.

SPEAKER CABLES

Burmester recommends using cables with a large cross-section to connect the loudspeakers to the power amplifier. A large cross-section ensures that you can maintain the power amplifier's damping factor for optimal control of the loudspeakers. The best results are achieved by using original Burmester speaker cables, which have the same electrical and tonal characteristics as the internal wiring of Burmester loudspeakers and amplifiers.

ATTENTION:

→ The insulation on your selected speaker cable must match that of the original Burmester loudspeaker cable and must have a flame rating of at least VW-1. If in doubt, contact your dealer.

→ The cables are connected with spade lugs, which requires you to use fully assembled cables.

CORRECT POLARITY

→ When connecting the loudspeakers, make sure that the connections have the correct polarity. It is important that you make all connections in phase:

— Positive output on power amplifier (+) = positive input on loudspeaker

— Negative output on power amplifier (–) = negative input on loudspeaker

NOTE:

Connecting the two channels out of phase causes poor bass and diffuse playback.

SHORT-CIRCUITING THE SPEAKER OUTPUTS

Connecting the positive and negative terminals of the speaker's binding posts while the amplifier is on will cause a short circuit. In this event, the speaker outputs will automatically switch off to prevent damage to the device. The front LED **(1)** will flash orange. On the control panel, LED 1 in the status display **(17)** will light up orange.

To reset the protective function after a short circuit:

1. Switch off the power amplifier.
2. Check the connections to the loudspeakers.
3. Switch the power amplifier on again.
   → If the error persists, please contact your dealer.

Even though the protection circuit will prevent damage to the power amplifier, you should observe the following instructions to avoid a short circuit:

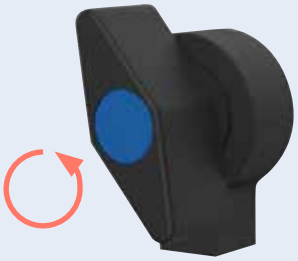
→ Switch off the power amplifier before connecting the speaker cables.

→ Connect the speaker cables to the loudspeakers first, then to the power amplifier.

→ Never connect the positive and negative terminals of the speaker's binding posts to each other or to other conductive parts, e.g. the housing of the power amplifier.

STEP 3

Rotate
anticlockwise



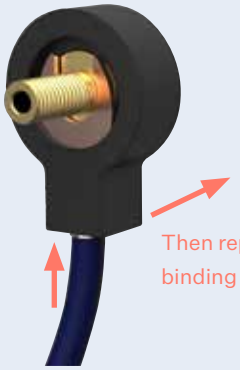
STEP 4

Remove binding
post cover

STEP 5

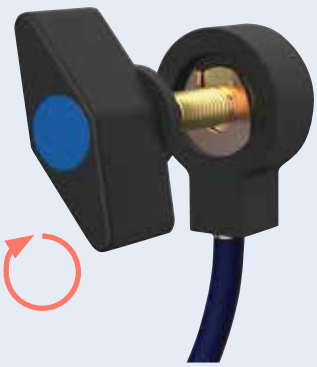
Place spade lug
on binding post

Then replace
binding post cover



STEP 6

Rotate
clockwise



Classic Connection

ARRANGE FOR A SKILLED PERSON TO CARRY OUT THIS STEP!

This is the most common connection method. With this method, each channel on the power amplifier is connected to a loudspeaker via a 2-pole cable. Two mono power amplifiers are therefore required for stereo playback.

CONNECT THE LOUDSPEAKERS AS FOLLOWS:

1. Switch off the power amplifier, if necessary.
2. Connect one end of the speaker cable to the negative terminal on the loudspeaker.
3. Completely loosen the negative binding post (**blue**) by turning it anticlockwise.
4. Remove the binding post cover.
5. Place the spade lug on the binding post and slip the post cover over the spade lug.
6. Fasten the negative binding post (**blue**) to the negative terminal (**–**) by turning it clockwise.
7. Connect the speaker cable to the positive terminal on the loudspeaker.
8. Completely loosen the positive binding post (**red**) by turning it anticlockwise.
9. Remove the binding post cover.
10. Place the spade lug on the binding post and slip the post cover over the post.
11. Fasten the positive binding post (**red**) to the positive terminal (**+**) by turning it clockwise.

Bi-amping

In bi-amping, woofers, mid-range drivers and tweeters are connected to separate power amplifier channels. Four mono power amplifiers are therefore required for this type of connection.

Please check with your dealer whether your loudspeakers are suitable for bi-amping and refer to the operation manual for your speakers.

9
10

Connecting the power cable

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

WARNING: MISSING OR FAULTY PROTECTIVE EARTH CONTACT
A missing or incorrectly connected protective earth contact poses a risk to life.

→ Before connecting the device, make sure that the protective earth contact in your mains socket is in operation.

→ Contact a professional if you are in any doubt.

TO CONNECT THE POWER CABLE:

1. Make sure that the **mains switch (10)** is in the 0 position.
2. Connect the power cable to the **power socket (9)**.
3. Check that the voltage provided by your mains matches the voltage specifications.

NOTE:

You can find information about the required mains voltage under the power socket (9).

4. Insert the mains plug into the mains socket.
5. Switch the **mains switch (10)** to ON.

Operating the Power Amplifier

Push the cover backwards
to change the settings

Accessing the Control Panel

WARNING: BRUISING CAUSED BY THE COVER.

The cover can cause hand injuries when closing.

→ Make sure that your hands or other limbs are not in the opening when closing the cover.

The control panel is hidden under the movable cover. Slide the cover back to adjust settings or to turn the device on or off.

Switching the Device On and Off

THE DEVICE HAS TWO CONTROLS FOR SWITCHING IT ON AND OFF:

— The mains switch **(10)** is located on the rear of the device. Toggling the mains switch connects or disconnects the standby power supply to/from the mains.

— The on/off switch **(18)** is located on the control panel on top of the device. Toggling the on/off switch switches the device between standby mode and operational mode.

WARNING: HIGH-INTENSITY SOUND

Loud output signals can damage your hearing.

→ Before switching on the power amplifier, reduce the volume on your preamplifier to a low level and only increase the volume after switching on the power amplifier.

→ To prevent hearing loss, avoid listening at high volumes for long periods of time.

TO SWITCH THE DEVICE FROM OFF TO STANDBY:

→ Move the mains switch **(10)** on the rear of the device to the **I** position.

→ The device switches to standby mode. The LED **(1)** lights up red.

TO SWITCH THE DEVICE ON FROM STANDBY MODE:

→ Pull the on/off switch **(18)** on the control panel towards you or press the POWER button **(21)** on the remote control.

→ The LED **(1)** flashes green while the device is starting up.

→ Once start-up is complete, the LED **(1)**remains steadily green.

→ The power amplifier is now ready for operation.

TO SWITCH THE DEVICE FROM OPERATIONAL TO STANDBY MODE:

Pull the on/off switch **(18)** on the control panel towards you or
press the POWER button **(21)** on the remote control.

→ The LED **(1)** flashes red while the power amplifier is switching to standby mode.

→ Once this process is complete, the LED **(1)**remains steadily red.

→ The power amplifier is now in standby mode.

The mains switch **(10)** can remain in the **I** position. This allows you to conveniently switch on the device using the on/off switch **(18)** or the remote control.
Very little power is consumed in standby mode because only the standby power supply is active.

TO DISCONNECT THE DEVICE FROM THE MAINS:

1. Switch off the device using the on/off switch **(18)**.
2. Switch the mains switch **(10)** to **O**.

NOTE:

Always switch the device off using the on/off switch before switching the mains switch to **O**.

Configuring Auto Power Down

The device has an auto power down function. When this function is activated, the device automatically goes into standby mode if there is no signal for a configured amount of time.
If your power amplifiers are connected via BurSync, all connected power amplifiers follow the settings of the BurSync master, which is the first 159 in the network.

CONFIGURING AUTO POWER DOWN

Press the auto power down button **(20)**.

→ This switches the auto power down function to the next value:
Off › Short › Mid › Long › Off ›...

Off	Auto power down is deactivated.
Short	The device switches to standby mode after 30 minutes of inactivity.
Mid	The device switches to standby mode after 60 minutes of inactivity.
Long	The device switches to standby mode after 120 minutes of inactivity.

Adjusting the Damping Factor

The variable damping factor enables you to adjust the sound of the 159 to your preferences. Changing the damping factor affects the bass response of the 159 in particular. The higher the damping, the more precisely your speakers will be controlled by the amplifier.
Take the time to find the setting that works best with your speakers. You can switch between your chosen value and the fixed maximum damping factor of 4,006 at any time from the control panel **(16)** or with the optional remote control **(22)**.

DAMPING FACTOR DISPLAY

You can check the configured value on the damping factor display **(14)** on the control panel:

— The power amplifier's damping factor is indicated by a green LED.

— If multiple power amplifiers are connected via BurSync and their configured values differ, these values are indicated by one or more orange LEDs, as necessary. This enables you to check if all power amplifiers are set to the same value by looking at the control panel of any power amplifier.

ACTIVATING THE VARIABLE DAMPING FACTOR:

The damping factor display **(14)** shows the value **FIXED**.

→ Press the damping factor toggle **(16)**.
or
Press the **RESUME** button **(22)** on the remote control.
— The damping factor display **(14)** changes to the configured value.

ACTIVATING THE FIXED DAMPING FACTOR:

The damping factor display **(14)** shows a value other than **FIXED**.

→ Press the damping factor toggle **(16)**.
or
Press the **RESUME** button **(22)** on the remote control.
— The damping factor display **(14)** changes to **FIXED**.

ADJUSTING THE DAMPING FACTOR:

Set the damping factor control knob **(4)** to the desired value.

NOTE

You can see the set value through the opening.

USING THE REMOTE CONTROL

The Burmester remote control toggles the settings for auto power down and the damping factor for all 159 devices within range. The devices' settings are only synchronised if you are using BurSync.

If you want to control your 159 device with the remote control but do not want to connect it with BurSync, first set the same values for the auto power down function and the damping factor status directly on all 159 devices.

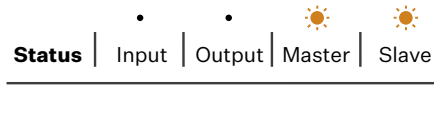
Troubleshooting

The 159 is equipped with extensive protection circuits that protect it and the connected speakers from damage in the event of a fault.

If an error occurs, this is indicated by the LED **(1)** on the front of the 159. It flashes orange in the event of an error.

MORE DETAILS ABOUT THE ERROR WILL BE FOUND ON THE CONTROL PANEL.

BURSYNC – ERROR

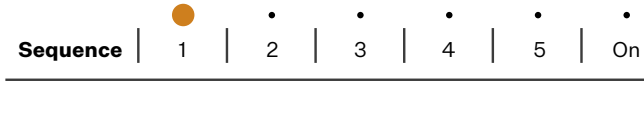


Description:
The BurSync output on the last power amplifier was connected to the BurSync input on the first power amplifier. This results in a ring connection.

Troubleshooting:

1. Switch off all power amplifiers.
2. Remove the BurSync cable connecting the last power amplifier to the first.

SHORT CIRCUIT ERROR OR TEMPORARY OVERLOAD



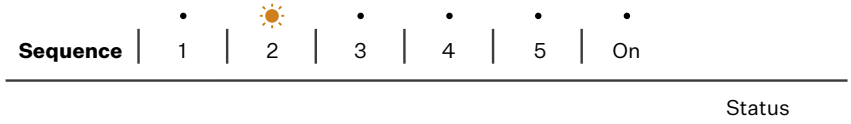
Description:
There is a short circuit in the cables, or the power amplifier was temporarily overloaded.

Troubleshooting:

1. Switch off the power amplifier.
2. Check the cables between the power amplifier and the speakers.
3. Correct any faults in the cables.
4. Switch the power amplifier on again.

If the error is still displayed, contact your dealer.

TEMPERATURE – WARNING

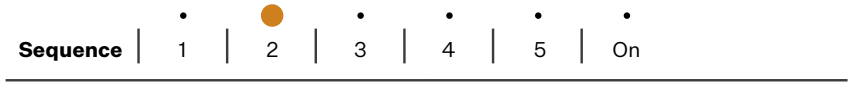


Description:
The power amplifier has reached a critical temperature.

Troubleshooting:
1. Reduce the volume until the LED switches off.
2. Lower the room temperature.

TEMPERATURE – ERROR

or



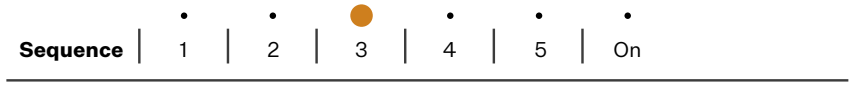
or

Description:
The temperature is too high.

Troubleshooting:
1. Switch off the power amplifier.
2. Wait 30 minutes.
3. Switch the power amplifier on again.
4. If the error is still displayed, contact your dealer.

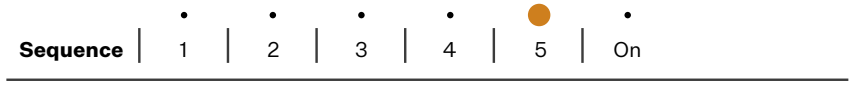
SERVICE ERROR

If one of the following errors occurs, you cannot correct it yourself.
It requires attention from Burmester service.
In this event, please switch off the power amplifier and disconnect it from the mains by unplugging the power cable from the mains socket. Contact your dealer for further steps.



or

or



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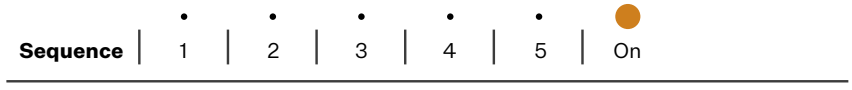

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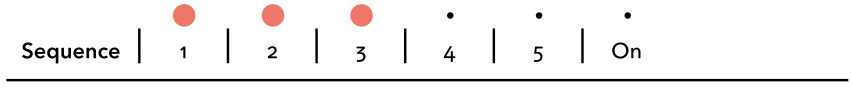

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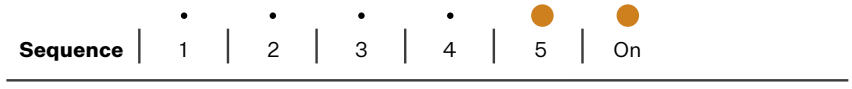

DESCRIPTION:

An error has occurred that requires Burmester service.

MAINTENANCE, REPAIR AND CARE

ATTENTION: DAMAGE TO THE SURFACE

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

→ Use the enclosed care kit to clean the 159.

→ Ensure that no liquids get into the device.

→ Do not use chemical agents when cleaning.

ATTENTION: REMOTE CONTROL (OPTIONAL)

The optional remote control contains button cells.

→ These batteries can only be replaced by your dealer.

WARRANTY

We provide a two-year warranty on this device.
If you send in the completed warranty certificate papers within four weeks of purchase, the warranty will be extended to three years. For the warranty to be valid, the device must have been correctly connected without overloading and retain its mechanical integrity.
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.

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.

Specifications

Technology	Mono amplifier / full bridge, Class A/B
Width	523 mm
Height	415 mm
Depth	660 mm
Weight	approx. 180 kg
Power output	1,400 W (4Ω) according to IEC 62368
Pulse power	2,600 W (4Ω) according to CEA
Power consumption when ON	Max. 2.5 kW
Power consumption when OFF	0 W
Power consumption in standby	< 0.5 W
Continuous current	6.6 A
Voltage range (Model 159-120)	100 – 120 V ~, 50/60 Hz
Voltage range (Model 159-240)	220 – 240 V ~, 50/60 Hz
Damping factor	102 – 3,895 in 23 steps
Fixed damping factor (100 Hz at 4Ω)	> 4,000
Unweighted signal-to-noise ratio for 1 kHz at 1,200 W with 4Ω	> 116
Input sensitivity	750 mV
Power bandwidth	410 kHz (-3 dB)
Slew rate	160 V/µs
THD+N at 1 kHz (50 W / 4 Ω / 22 kHz)	0.0008%
Amplification	39.4 dB

Subject to technical changes without notice

CE

VERSION: BA_159_EN_1-1_2109

BURMESTER HOME AUDIO GMBH

Wilhelm-Kabus-Straße 47
10829 Berlin
Germany

www.burmester.de