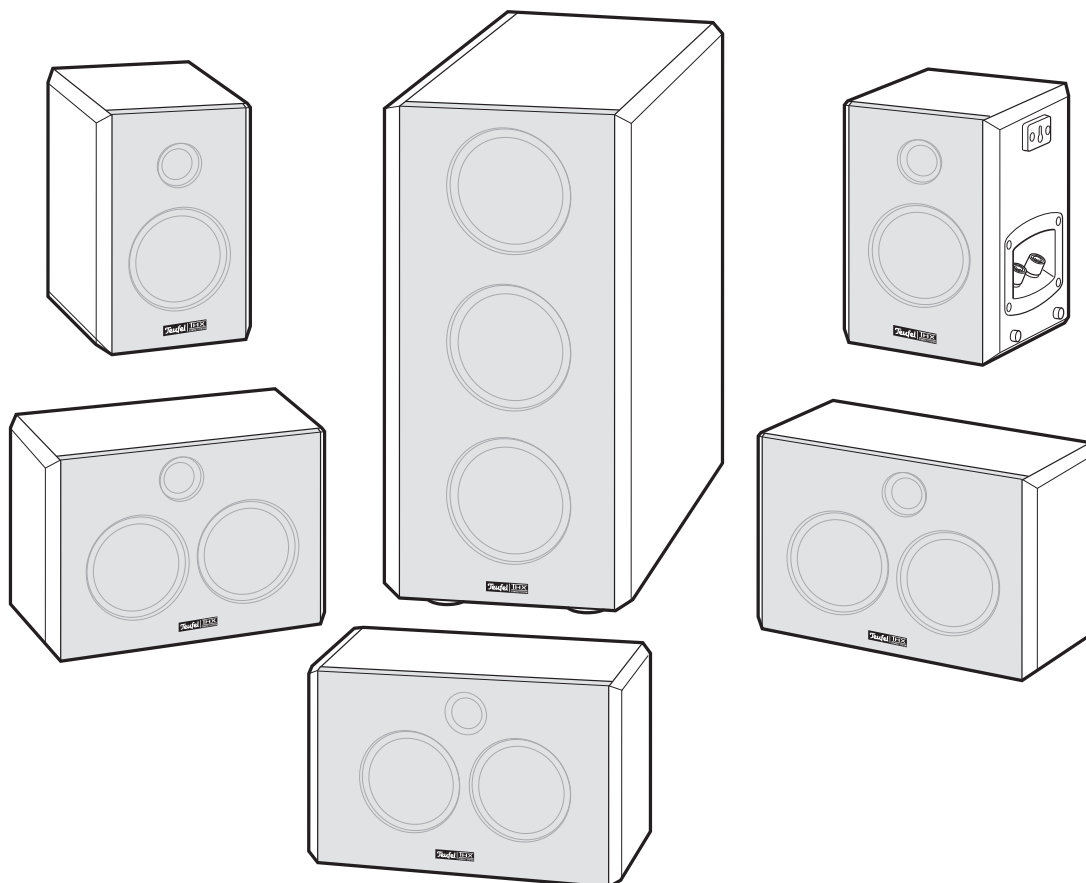


Technical Description and Operating Instructions



System 4

5.1 Home Cinema Speaker Set with
THX® Compact Speaker System™ certificate

Teufel

Contents

General notes and information	3
Notice.....	3
Trademarks	3
Original packaging	3
Complaints	3
Proper use	3
Safety notes	4
Caution icons	4
Safety notes	4
Overview	5
Checking the product contents.....	5
Explanation of symbols	5
Setup	6
Location tips.....	6
Center speaker.....	6
Front speakers	6
Subwoofer	6
Dipole rear speakers.....	6
Wall mounting	7
Wall bracket/speaker stand.....	7
Connecting	7
Speakers	8
Subwoofer – audio connection.....	8
Subwoofer – mains power connection.....	8
Use	9
Subwoofer connections and controls.....	9
Activating and deactivating.....	10
Automatic activation/deactivation	10
Adjusting the AV receiver and subwoofer	10
AV receiver settings	10
Subwoofer settings.....	10
When using this speaker set.....	10
When connecting other speaker sets (e.g. THX Select 2 or Ultra 2).....	10
Care and cleaning	11
Troubleshooting	11
Technical data	12
Declaration of Conformity	12
Disposal	13
Important information in accordance with the Electrical and Electronic Equipment Act (Germany: ElektroG).....	13

General notes and information

Notice

The information in this document may change without prior notice and in no way constitutes any liability on the part of Lautsprecher Teufel GmbH.

No part of these instructions may be reproduced in any form or be broadcasted in any way electronically, mechanically, by photocopy or recording without the written permission of Lautsprecher Teufel GmbH.

© Lautsprecher Teufel GmbH
Version 3.0
April 2022

Trademarks

® All trademarks are the property of their respective owners.

THX and the THX logo are trademarks of THX Ltd., which are registered in some jurisdictions. All Rights Reserved.

Original packaging

If you wish to exercise your right of return, we ask that you be absolutely sure to hold onto the packaging. We are only able to accept returned speakers in the ORIGINAL PACKING.

Empty boxes are not available!

Complaints

In case of complaint we will need the following information to process your enquiry:

1. Invoice number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543

2. Serial number or batch number

Located on the back side of the unit, e.g. serial number: S10....

Many thanks for your support!

Contact

Please contact our customer service with any questions, suggestions or criticism:

Lautsprecher Teufel GmbH

BIKINI Berlin

Budapester Str. 44

10787 Berlin (Germany)

Phone 00800 - 200 300 40 (toll-free)

Fax: +49 (0)30 / 300 930 930

Service: www.teufelaudio.com/service

Contact: www.teufelaudio.com/contact

Proper use

Only use the unit as described in these operating instructions. Any other use will be deemed as not in accordance with the instructions and may lead to damage of property or even persons.

The manufacturer accepts no liability for damage caused by use not in accordance with the instructions.

The unit is intended for private use.



Before operating the speakers please read the safety notes and operating instructions carefully. This is the only way to use all functions safely and reliably.

Keep the operating instructions safe and pass them on to anyone who may own the unit after you.

Safety notes

Caution icons

You will find the following caution icons in these instructions:

Danger**High risk!**

Failure to observe the warning may result in severe personal injury or death.

Attention**Moderate risk!**

Failure to observe the warning may result in property damage.

**Minor risk!**

Points which should be observed when handling the unit.

Safety notes

Danger**Risk of electric shock!**

Faulty installation of electrical equipment or mains voltage which is too high can cause electric shocks.

- The unit is suitable for connection to a mains voltage of 220V – 240V~ / 50Hz only. Make sure that the mains voltage is correct. For more information, refer to the nameplate.
- Check the unit regularly for damage.
If the unit's case or mains cable is defective or shows other signs of visible damage, disconnect the power plug / mains adapter immediately from the socket and do not operate the device.
- If the unit emits smoke or smells of burning or other unusual odours, disconnect it immediately from the power supply and do not operate it anymore.
- Never open the unit's housing.
Repairs may only be carried out by an authorised specialist workshop. Only parts which conform with the original unit specifications may be used in this case. There are electrical and mechanical parts in this unit which are necessary in order to avoid exposure to sources of danger.
- Use only accessories specified by the manufacturer.
- Do not insert any objects through the vent slots in the housing.
- Only use the unit in indoor areas.
- Do not operate the unit in damp areas and protect it from drops of water or splash water.
Also take care not to stand vases or other containers filled with liquid on or near the speaker in order to avoid liquid getting into the case. If water or other foreign objects should enter the unit, immediately disconnect the mains plug. Then send the unit to our service address.
- Never touch the mains adapter with damp hands.

Danger**Danger to children!**

Children can become trapped in the packing film when playing and suffocate.

- Do not allow children to play with the unit or the packing film. Danger of suffocation.
- Ensure that children do not remove small parts from the unit or take them off of the unit (e.g. control knobs or plug adapters). They could swallow the parts and choke.
Never allow children to operate electrical units unsupervised.

**Danger to hearing!**

Extended listening at high volumes may lead to hearing loss.

- To avoid damage to health, avoid extended listening at high volumes.
- When the volume is set high, always keep a certain distance from the unit and never place your ear directly on the speaker.
- Particularly when the subwoofer has been set to maximum volume and the unit is activated, very high noise pressure may suddenly be produced. This may have psychological consequences and also cause physical injury. Children and pets are particularly at risk. Set your signal source unit volume control to a low setting before turning on the power.

Danger**Danger of injury/damage!**

An unstable base may cause the unit to tip and injure or even kill persons, children are particularly at risk. You can prevent many accidents by taking the following precautions:

- Place the speakers in such a way that they cannot be knocked over unseen and make sure that the cables do not pose a trip hazard.
- Only place the subwoofer on the floor.
- If you want to use underframes or speaker stands, only use those recommended by the manufacturer.
- If mounting the speakers on the wall, make sure that the job is carried out by a professional.
- Only use suitable wall brackets for mounting. Verify the carrying capacity of the walls.
- Do not place the unit near sources of heat (e.g. heaters, ovens, other heat generating equipment such as amplifiers etc.).

Attention Fire hazard!

Improper use may lead to damage or fire.

- Do not place open flames such as burning candles or similar on the unit.
- Ensure sufficient ventilation.
- Do not place the unit in direct sunlight.
- Do not cover the vents with curtains, blankets, newspapers or similar. Heat build-up inside the unit can shorten its lifetime.

Attention Risk of damage!

Power overload due to lightning strike may damage or destroy the unit.

- If the unit is unattended for a prolonged period (e.g. when on vacation) or in the event of an incoming storm, pull the power plug.
- If the device is subjected to warm temperatures after being cold (e.g. after transport), condensation may occur inside of it. In this case, wait at least 2 hours before you connect and activate it.

Explanation of symbols

	Safety category II Dual insulation
	Danger of electric shock – do not open casing. Disconnect power cord before changing fuse.
	Fuse T 1.6 AL / 250 V

Overview**Product contents**

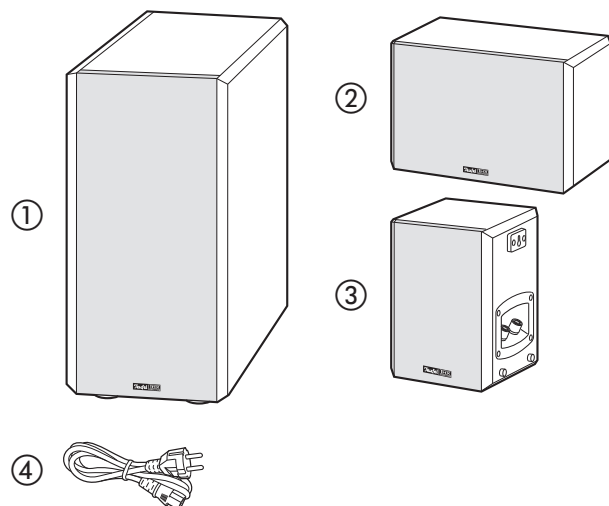
- ① 1 x active subwoofer S 4000 SW
- ② 3 x front speakers S 400 FCR
- ③ 2 x dipole rear speakers S 400 D
- ④ 1 x power cord for subwoofer S 4000 SW

**Connector cables**

Due to widely varying customer requirements, the System 4 series is supplied without connector cables. You will find suitable cables in our online shop (www.teuelaudio.com) under “Accessories”. Amongst other things, you will also find suitable speaker stands there.

Checking the product contents

- Check that all items have been delivered and that nothing is damaged.
- If the delivery is incomplete or you find damage sustained in transit, do not operate the unit but contact our service department (see page 3).



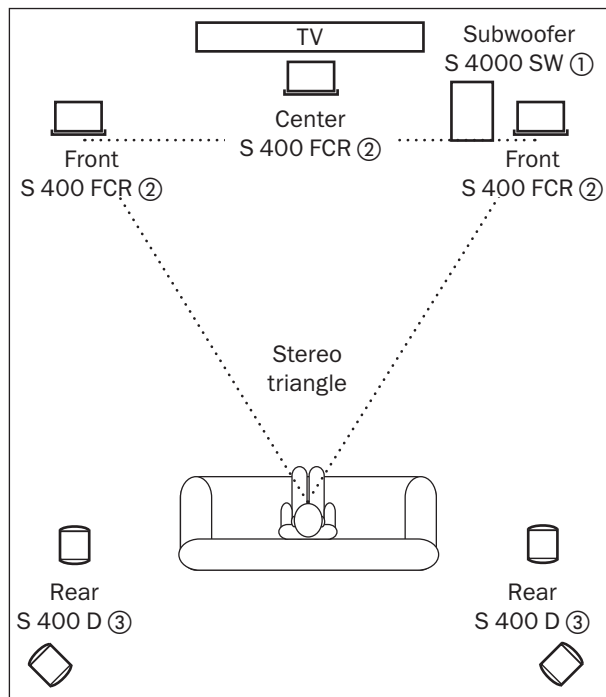
Setup

Location tips

- Select a stable, level base.
- Make sure that the environment is clean and free from dust.
- Avoid placing the unit close to sources of heat or in direct sunlight.
- Do not place any heavy objects on the cables or the speakers.
- You can find special assembly materials (cords, speaker stands, wall brackets and resonance dampers) adapted to these speakers in our webshop.
- On parquet, varnished wood and similar surfaces, you should stick felt gliders to the rubber feet of the subwoofer or put blankets or small carpets under them. This will prevent discolouration of the floor over the long term.

The following data refers to an “ideal home cinema”, in which the viewer or listener sits in a central position at sufficient distance in front of the television or screen (see graphic to the right) and no objects (tables or the like) are located in between. Unfortunately, the room, furnishings or other circumstances do not always allow for optimum arrangement.

Modern AV receivers offer many ways to compensate for any deficiencies in placement. The following general rule applies: You can always experiment on what works best in your listening room in terms of sound and appearance based on our recommendations. Let your ears (and eyes) decide!



Center speaker

- Place one of the three front speakers ② directly under the screen in the centre, ideally on an arc curved slightly towards the screen.

Front speakers

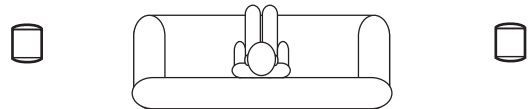
- The two remaining front speakers ② are set up to the right and left of the screen.
- They should be at approximately the same height as the center speaker and as far as possible should form an equilateral triangle with the listener – known as the stereo triangle (distance to listener = distance between the speakers).
- The speakers should project sound directly into the room or slightly towards the listener.

Subwoofer

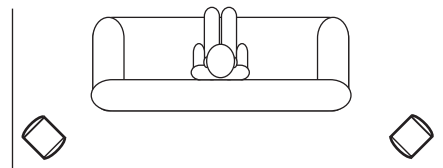
- The location of the subwoofer can be freely selected and does not influence the other speakers. However, do not place it in the corner of the room as this may result in irregular frequency overloads. A location between the front speakers is often ideal.

Dipole rear speakers

There are two possible arrangements for these speakers:



Normally, the dipole rear speakers are set up or hung up at head height (140 to 210 cm) to the side of the listener. The rear speakers emit sound both to the front and back. The distance to the rear wall should be no less than 10 cm.



The second arrangement possibility is suitable for narrow rooms. In this case, the rear speakers are placed at a height of 140 to 210 cm behind the listener and situated at a 45 degree angle. This will cause the speakers to emit sound towards the walls and generate the desired diffuse effect. The distance to the walls should not be less than 10 cm in this case.

Wall mounting

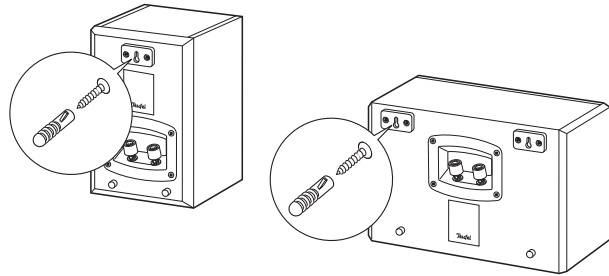
If you choose to mount your speakers on the wall please note the following:

Attention Risk of damage!



Unsuitable fixing may cause damage.

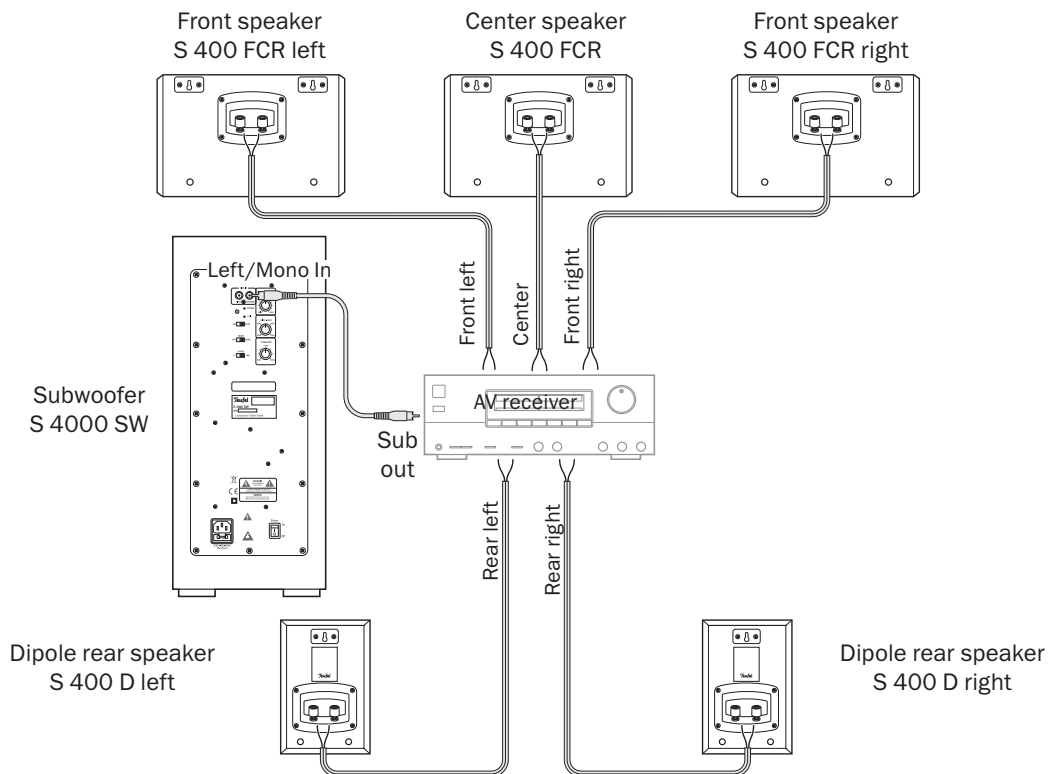
- If mounting the speakers on the wall, make sure that the job is carried out by a professional.
 - Before drilling the holes use a metal detector to ensure that there are no electrical or plumbing runs in the wall within the drilling area.
 - Use only suitable screws and wall plugs for fixing. Verify the carrying capacity of the walls.
-
- Hang the speakers on the wall using the keyhole slot(s) on the speaker back side and the previously mounted screw(s).



Wall bracket/speaker stand

- The keyhole slot(s) and the threaded holes on the bottom of the speakers are also intended for fixing the speakers to a wall bracket or speaker stand. You will find suitable items in our online shop.

Connecting



Danger **Danger of injury/damage!**



Arrange the cables so that they do not pose a trip hazard.

- Unplug the mains plug of your AV receiver from the mains power supply so that it cannot be switched on by accident.

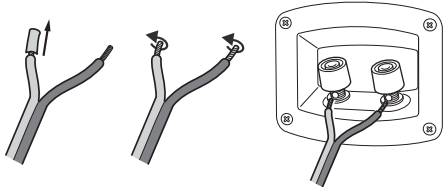
Speakers

- Lay speaker cable from your AV receiver to each speaker. Use a high-quality double wire speaker cable with marked strands for this. The cable should have a diameter of at least 2.5 mm².
Little hint: label the cables at the receiver end – this will help if you ever need to disconnect and reconnect the receiver.
- On the back of each speaker is a connection terminal with two clamps. Here you can connect the speaker cables directly or using pin plugs. Direct connection only is described here.
- The terminals are each marked red (+) and black (–).



Make sure the polarity is correct!

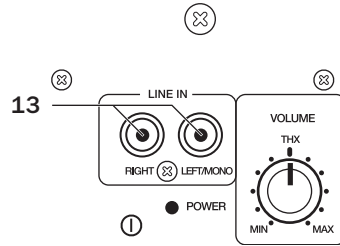
Connect the like coloured terminals. Otherwise the sound quality will suffer. The speaker connections on your AV receiver should be similarly marked. The strands of the speaker cables are marked with different colours or shapes.



- Split the wire down by approx. 30 mm on both ends and remove approx. 10 mm of insulation each. Twist the wire so that no strands are protruding.
- Turn the connector terminal counterclockwise until loose. Run the stripped cable end into the now visible hole. Close the terminal by turning it counterclockwise. The cable has now been clamped in place.
- Connect all the cables to the speakers in the same way.
- Connect the other ends of the speaker cables to your AV receiver. You should be able to find corresponding notes in the operating instructions of your device.

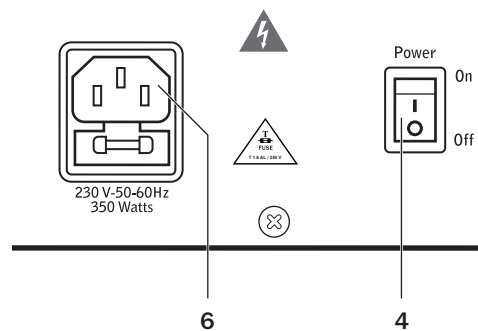
Subwoofer – audio connection

The subwoofer is connected to the subwoofer output of the AV receiver using a mono cinch cable (not supplied).



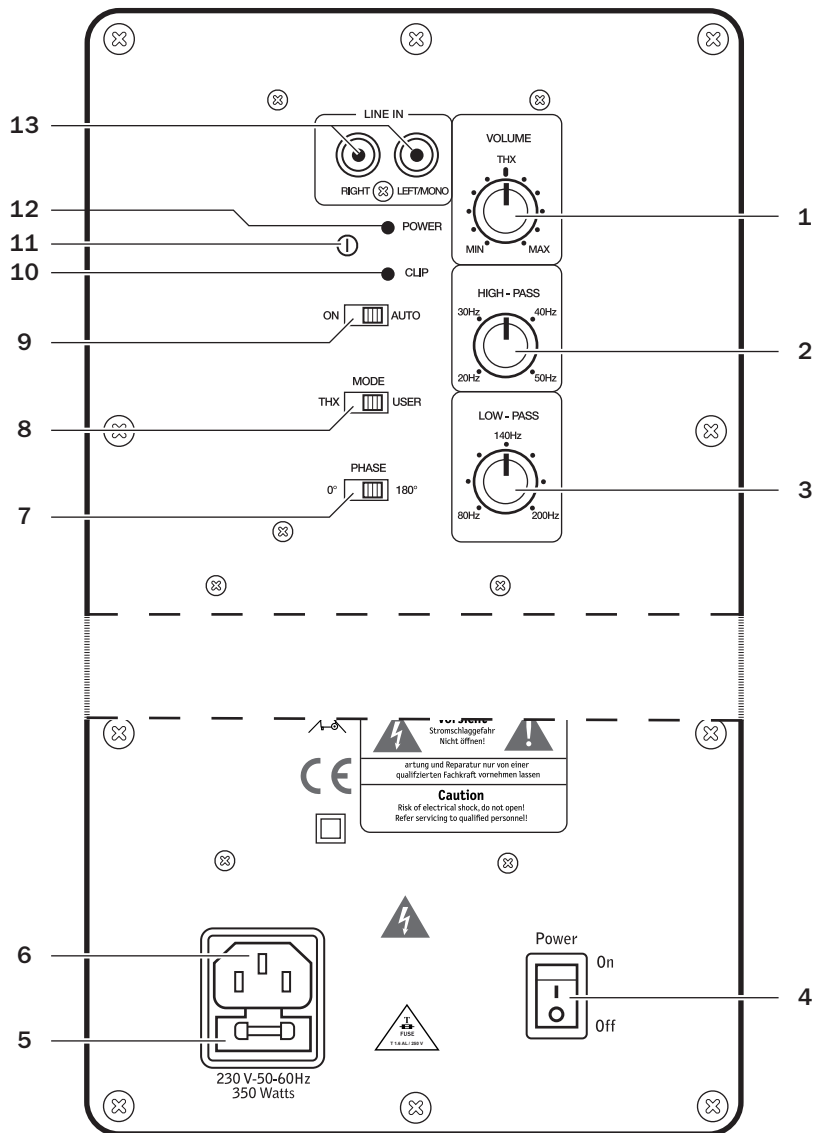
- The cinch jack **13** "LEFT/MONO" on the rear of the subwoofer is intended for this purpose.
- The cinch jack **13** "RIGHT" is only used if you connect using a Y-adaptor. This increases the subwoofer level slightly.
You will find more information in the operating instructions for your receiver.

Subwoofer – mains power connection



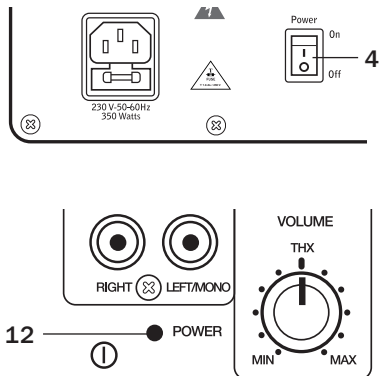
- Ensure that the mains switch **4** "POWER" is set to "OFF".
- Turn the subwoofer's volume to approx. one third using the volume control **1** "VOLUME".
- Using power cord **4**, connect the mains connection jack **6** to a mains power socket.
- Also plug your AV receiver back into the mains power supply.

Subwoofer connections and controls



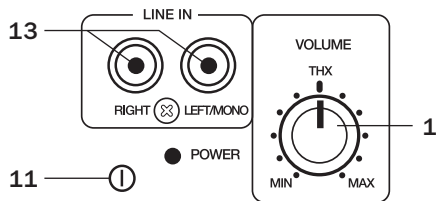
Item	Name	Description	Item	Name	Description
1	VOLUME	Volume control for subwoofer	8	MODE	THX = fixed setting for THX USER = controls 2 and 3 active
2	HIGH-PASS	Control for frequency above which the subwoofer operates	9	ON/AUTO	Automatic activation/deactivation or permanent activation
3	LOW-PASS	Control for frequency up to which the subwoofer operates	10	CLIP	Overload indicator (red)
4	POWER ON/OFF	Mains switch	11	-	Activation sensitivity control for the automatic activation/deactivation function
5	-	Mains fuse	12	POWER	Power LED (green = on, red = sleep mode/standby)
6	-	Connector jack for power cord ④	13	LINE IN LEFT/RIGHT	Audio input jacks
7	Phase	Control for the subwoofer phase			

Activating and deactivating



- Use mains switch 4 “Power” to switch the main power supply on or off. When the subwoofer is activated, the power LED 12 “Power” is green. If the subwoofer is in standby, it is red.

Automatic activation/deactivation



Use switch 9 “ON/AUTO” to change the operating condition:

- ON** The subwoofer is permanently switched on.
- AUTO** The subwoofer switches itself on as soon as a signal is present at input 13. If there is no audio signal for 20 minutes then the subwoofer switches to standby. If the automatic power switching is not functioning correctly you can use control 11 to increase (turn to the right) or decrease (turn to the left) its sensitivity. You will need a small screwdriver to do this.

Adjusting the AV receiver and subwoofer

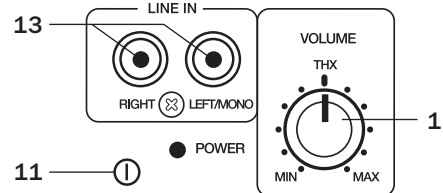
Most AV receivers have a menu with settings for the speakers (called “Speaker Setup” or similar).

AV receiver settings

- Subwoofer to “On”.
- Set the subwoofer crossover frequency to 80 Hz.
- Subwoofer volume to more than 75 %.

Subwoofer settings

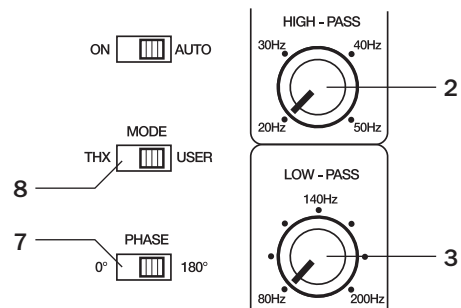
When using this speaker set



- Switch 9 “ON/AUTO” to “AUTO”.
- Switch 8 “MODE” to “THX”.
- Volume control 1 “VOLUME” to the middle setting (“THX”).

With these settings the subwoofer use is ideal and it will behave according to THX specifications. You can carry out the final fine tuning later on your AV receiver.

When connecting other speaker sets (e.g. THX Select 2 or Ultra 2)



- Set the switch 8 “MODE” to “USER”. This activates controls 2 “HIGH-PASS” and 3 “LOW-PASS”.
- Set the crossover frequency to approx. 80 Hz with control 3 “LOW-PASS”. This determines that the subwoofer only emits sounds up to this frequency.
- Set control 2 “HIGH-PASS” to “20 Hz”. This determines that the subwoofer only emits sounds above this frequency.
- Set the volume control 1 “VOLUME” to the middle setting.
- Now carry out a sound check and adjust the volume control 1 “VOLUME” until the subwoofer is “easily heard” and control 3 “LOW-PASS” until the low tones sound strong but do not buzz. If any deep “hits” are too hard increase the setting on control 2 “HIGH-PASS”.
- Once you have found the best sound in this way adjust the switch 7 “PHASE” in both directions a number of times. If you notice a considerable improvement in sound quality, refine the settings until optimal. Otherwise leave the switch set to “0°”.
- Repeat these steps with different CDs and DVDs.

Care and cleaning

Clean the subwoofer and satellite speakers regularly with a soft, slightly damp microfibre cloth. Please be absolutely sure to observe the following notes in the process:

Danger Risk of electric shock!



In contact with live parts, water can lead to electric shock or short circuit.

- Disconnect the mains plug before cleaning.
- Make sure that no liquid penetrates the unit.

Attention Risk of damage!

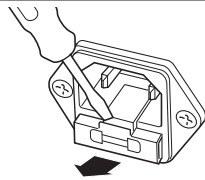
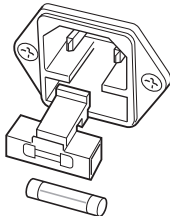


Using the wrong cleaning materials may damage the delicate surface of the case.

- If possible, only use plain water without any additives. In case of stubborn marks, a mild soap solution may be used.
- In no circumstances should caustic cleaning products, white spirit, thinners, petrol or similar be used for cleaning.

Troubleshooting

The following advice should help you to solve problems. If this does not help, you will find useful information in the detailed FAQs on our website. Otherwise, please contact our hotline (see page 3). Take note of the warranty instructions.

Problem	Possible cause	Solution
The subwoofer isn't working.	The subwoofer is off or doesn't have any power.	Switch on switches 4 and 9 ("On"). Check the power cord and socket.
	The overload protection has been triggered and the indicator lamp 10 "CLIP" is illuminated in red.	Allow the unit to cool down and reduce the level slightly using control 1 "VOLUME".
	Fuse defective.	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>1. </p> <p>Disconnect the power cord. Carefully pull the fuse holder out of the mains connection.</p> </div> <div style="text-align: center;"> <p>2. </p> <p>Push the old fuse down and out. Insert a new fuse (T 1.6 A, 250 V) and push the holder back in.</p> </div> </div>
	The volume has been set too low.	Increase the volume using control 1 .
The subwoofer hums.	The subwoofer is connected to a different power circuit from the rest of the system.	Connect the subwoofer and AV receiver to the same power circuit.
	The buzzing is caused by problems with the power supply.	Purchase a line filter and connect both units to it.
	The buzzing is caused by a multiple socket.	Use another multi-outlet power strip or connect the subwoofer directly to the wall socket. It may also help to insert the power plug the other way around.
Playback is noisy.	Generally speaking, the System 4 is very low noise. In the high range area, very high-resolution speaker systems can expose the poor quality of a signal source (e.g. from MP3 files).	Make sure that the source is emitting a clear signal.
The sound seems flat.	Satellites have been connected with the poles reversed.	Check that the speaker cable on all satellites is correctly connected.


Technical data

	Active subwoofer S 4000 SW	Front speakers S 400 FCR	Dipole rear speakers S 400 D
Dimensions (WxHxD)	240 x 490 x 480 mm	295 x 180 x 135 mm	150 x 230 x 168 mm
Weight	20.8 kg	3.7 kg	3.4 kg
Impedance	–	4–8 ohm	4–8 ohm
Minimum amplifier power	–	20 watts	20 watts
Operating voltage	220–240 V~, 50/60 Hz	–	–
Power consumption in standby	less than 0,5 Watt	–	–

You will find more technical details in the product description on our website at www.teufelaudio.com.

Technical changes reserved!

Declaration of Conformity

 Lautsprecher Teufel GmbH declares that this product complies with the relevant European and national directives. The full text of the CE Declaration of Conformity can be found at this web address:
www.teufel.de/konformitaetserklaerungen
www.teufelaudio.com/declaration-of-conformity

Important information in accordance with the Electrical and Electronic Equipment Act (Germany: ElektroG)

We advise owners of electrical and electronic appliances that old electrical and electronic devices must be handed in separately from municipal waste, in accordance with the applicable regulations. Batteries and rechargeable batteries that are not firmly enclosed in old electrical devices and lamps, and that can be removed from the old device without destroying them, must be separated from them in a non-destructive manner before they are handed to the collection point for their intended disposal. Please take note of our information on the Batteries Act [Germany: BattG] below for disposing of batteries.

You make an important contribution to returning, recycling and further processing of old devices if you separate your old devices into the correct collection groups for recycling.

The symbol below of a crossed-out dustbin, applied to electrical and electronic appliances, also advises of the duty to separate collections:



Consumer electronics stores and supermarkets are obliged, under certain conditions, to take back old electrical and electronic devices, in accordance with section 17 of the Electrical and Electronic Equipment Act. Stationary retailers must take back an old electrical device of the same type when a new electrical device is bought (1:1 return). This also applies to home deliveries. These retailers must also take back up to three small old electrical devices ($\leq 25\text{cm}$) without this being linked to a new purchase (0:1 return).

In accordance with the Electrical and Electronic Equipment Act, as online retailers of electrical devices and due to our product range, our obligation is limited to 1:1 return of large devices of $> 50\text{ cm}$ when selling a new electrical or electronic device of the same type. We comply with the obligation of return of devices other than large devices through our service provider. You can find the exact contact data and collection points on our website www.Teufel.de/entsorgung. It is also possible to return old electrical and electronic appliances free of charge at an official delivery point run by the public waste disposal authorities.

Important: For safety reasons we ask that you refrain from sending lighting fixtures (some lamps). For return of lighting fixtures please use the public waste disposal collection points or contact us directly at www.Teufel.de/entsorgung.

As an end-user, you are responsible for deleting any personal data on old electrical appliances before handing it in.

Important: Our appliances can contain batteries/

rechargeable batteries. If this is the case, please refer to its attached product documentation for additional information on the type and chemical make-up of the battery. For products with battery compartments you can directly remove the batteries or rechargeable batteries and dispose of them properly. If the batteries are built in to the product, do not in any case attempt to remove the batteries yourself, instead contact one of our employees or appropriate specialist staff.

Teufel

Please contact our customer service department with any questions, suggestions, or complaints:

Lautsprecher Teufel GmbH
BIKINI Berlin
Budapester Str. 44
10787 Berlin (Germany)
www.teufelaudio.com

Phone.: 00800 200 300 40 (toll-free)
Fax: +49 (0)30 - 300930930
Service: www.teufelaudio.com/service
Contact: www.teufelaudio.com/contact

No responsibility is assumed for the correctness of this information. Technical changes, typographical errors and other errors reserved.