



# Columa 700

5.1 home cinema set with active subwoofer

**Teufel**

### For your information

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### Complaints

If you have a complaint, it is essential that you provide the following information so that we can deal your problem promptly and efficiently:

#### 1. Invoice number

Can be found on the receipt (enclosed with the product) or the order confirmation that you received as a PDF file, e.g. 4322543.

#### 2. Series or batch number

Can be found at the rear of the device, e.g. batch no.: MO 04007480121A

Thank you for your support.

Please contact our service department if you have any questions, suggestions or if there is anything you think we could do better.

Lautsprecher Teufel GmbH  
Gewerbehof Bülowbogen - Aufgang D1  
Bülowstr. 66  
D-10783 Berlin (Germany)  
Tel.: +49(30) - 30 09 300  
Fax: +49(30) - 30 09 30 30  
www.teufel.eu

### Warranty terms

12-year warranty for speakers and 2-year warranty for power amplifiers and electronics (from purchase date) on materials and work time, with the exception of damage caused by incorrect use or electrical or mechanical overload. An original copy of our invoice is required as the warranty document. This warranty is exclusively valid for speakers, power amplifiers and electronics that have been purchased from Teufel for private use by end customers. The warranty is not valid for speakers, power amplifiers and electronics that the end user has purchased from a different distributor. If the Teufel product is sold on privately, the warranty may be transferred to the purchaser, providing that the original proof of purchase is also transferred.

### Returns

Teufel provides an eight-week right of exchange or return with reimbursement of the full purchase price paid.

The return of individual components from a set is only possible if these components are also offered for sale separately by Lautsprecher Teufel. If one or more components are returned, any price discount given by Lautsprecher Teufel on all components in a set as part of the price for the set is waived. When returning a component, the customer will be reimbursed for the price difference between the set price and the purchase price of the individual components retained by him/her. The financial outcome for customers is as if they had bought the remaining components at the individual price from the outset.

You can find more information on the subject of returns on the returns form that accompanies the delivery or online in the support area of our website [www.teufel.eu](http://www.teufel.eu).

If you need to return an item, do not act without the prior agreement of Lautsprecher Teufel.

**We can only process and accept returns if you have informed us first by phone and discussed the procedure with us!**

### Technical data

You will find technical data on our website: [www.teufel.eu](http://www.teufel.eu).

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## Introducing Columa 700

### Dear Lautsprecher Teufel customer,

Thank you very much for buying speakers from Lautsprecher Teufel.

You have purchased a very high-performance speaker system. Lautsprecher Teufel speaker systems are equipped with high quality components and are manufactured with extreme precision. We recommend the Columa 700 for providing sound in rooms up to 30 m<sup>2</sup> in size. In this respect, only the acoustically utilised area is taken into consideration. Neighbouring spaces such as eating areas can be ignored. Particularly high-ceilinged rooms over 3,50 metres should be multiplied by a factor of 1,5. The set can also be used in larger spaces where there are low requirements for continuous high volumes.

Please read these instructions carefully before operating the unit and store the manual in a safe place for future reference. If you have any further questions, please contact our engineers on + 49 (30) 300 9 300 – or use the e-mail contact form on our homepage, [www.teufel.eu](http://www.teufel.eu). Please have your invoice number ready so that we can deal with your query as efficiently and as quickly as possible.

BEFORE contacting us with a question, please read the “Problems and solutions” section on page 14 of these operating instructions and visit our website at [www.teufel.eu](http://www.teufel.eu), where you will find answers to many questions in “FAQ/Support”.

Please also refer to the safety information provided with this delivery and only use the speakers once you have read the safety information.



**Columa 700**

# Teufel

Please contact our service department if you have any questions, suggestions or if there is anything you think we could do better.

### Lautsprecher Teufel GmbH

Gewerbehof Bülowbogen - Ausgang D1  
Bülowstr. 66 · 10783 Berlin

Tel.: +49(30) - 30 09 300

Fax: +49(30) - 30 09 30 30  
[www.teufel.eu](http://www.teufel.eu)

All information is provided without guarantee of correctness. Subject to technical changes; typing errors and mistakes.

## Unpacking · Contents

### Unpacking

Fold back the flaps on the upper side of the box, remove the polystyrene pieces and lift the speakers out of the box carefully.

We recommend retaining the boxes in order to ensure safe transport for any later servicing.

The Columa 700 is supplied as a complete system.

### Contents

#### Columa 700 – Set 1

- ▶ 1 x subwoofer CL 700 SW
- ▶ 1 x subwoofer remote control incl. batteries
- ▶ 1 x centre speaker CL 70 C
- ▶ 1 x base for CL 70 C
- ▶ 4 x spikes
- ▶ 4 x column speakers CL 70 FR
- ▶ 4 x bases for column speakers CL 70 FR
- ▶ 1 x mains power cable

### Accessories

Connection cables or subwoofer casters are not included because of differing customer requirements. You can, however, order any required accessories directly from us. All optional accessories for the Columa 700 can be found on the following page.

### Assembly

The CL 700 SW is a downfire subwoofer that outputs its bass signals downwards. It is therefore essential that you use the spikes provided. To avoid any scratches to the surface or the subwoofer itself while screwing on the spikes, place the subwoofer on a stable surface and use a cover for padding.

Before starting up the system you must also screw the bases onto the four column speakers. Attach them as described in the assembly instructions for the subwoofer spikes, always using a suitable screwdriver to attach the bases.



Subwoofer CL 700 SW



Centre speaker CL 70 C including base



Remote control including batteries



Mains power cable



Column speaker CL 70 FR including base



Spikes

**First, please check that the system is complete.**

#### Please note:

Please keep the boxes for at least the eight-week return period, as we can ONLY repay the full purchase price if the products are returned in the ORIGINAL PACKAGING in which they were supplied.

#### Warning:

Explosion hazard with inappropriate replacement of the battery. Replacement only by the same or an equivalent type. Not expose batteries to excessively warm as sunshine, fire or like.

If you plan to not use the device for a longer period of time: remove the batteries from remote control and store them appropriately to prevent possible damage from leaking.

### Accessories

The set's sound quality can be acoustically optimised using additional accessories.

### Optional accessories for the Columa 700

You will find a summary of the relevant accessories for your Columa 700 here:

#### Teufel speaker cable, 2 x 2.5 mm<sup>2</sup>



Highly flexible copper wire with transparent insulation and markings for the correct polarity. Due to a high number of customer requests, our cable is pre-cut to practical lengths.

#### Teufel NF mono cinch cable



Ideal connection between active subwoofers and AV receiver/amplifier, as a result of screening from interference from external sources. Stable, gold-plated plugs ensure reliable contacts. The cable is available in various lengths from 2.5 to 15 metres: so the subwoofer really can go anywhere.

#### Teufel banana plug

These high-quality Teufel all-round plugs enable you to connect your speakers to an amplifier or receiver – cost-effectively and reliably. A stable screw grip firmly holds all cables with a diameter up to 4 mm. Permanently elastic spring contacts and genuine gold-plating guarantees plug connections with very low resistance. Supplied in pairs, one red plug and the other black.



#### Y adapter



1 x socket for 2 x plugs. Enables the stereo occupation of the "Line In" cinch inputs on the subwoofer, which increases its volume.

#### Teufel cable set AC 3025 WS



Our basic cable set to get everything started: 30 meters of speaker wire (1,5 sqmm) plus a single RCA-cable to hook up the subwoofer.

*All optional accessories can easily be ordered as required, e.g. from the accessories area on our website:  
[www.teufel.eu](http://www.teufel.eu)*

## Setting up the 5.1 configuration

### General information on arranging the speakers

It's easy to integrate the Columa 700 harmoniously into your living room thanks to its clear design and slimline shape. However, there are some configuration rules for home cinema systems that need to be observed in order to produce the ideal sound from the Teufel speaker set.

For home cinema systems, we recommend concentrating on the area actually used – i.e. the (part of the) room where the TV/screen and seats are located. The TV/screen should be positioned as centrally as possible to the listening location.

The recommended set-up (on the following pages) represents the best possible arrangement for perfect multichannel playback at home. Your available space, your partner or your furniture may not always allow you to arrange the speakers in the ideal manner. Try to meet as many requirements as possible. Small variations are not a problem. Modern AV receivers offer numerous options for compensating electronically for any compromises in the set up. Generally speaking, the following rule always applies: You can always use our recommendations to experiment with what works best acoustically and optically. Let your ears (and eyes) decide!

### Centre

Since the centre plays back all voice information, including the actors' dialogue, the centre speaker must be opposite the central listening position, located as centrally as possible above or below the TV/screen so that the sound and image make up a harmonious unit.

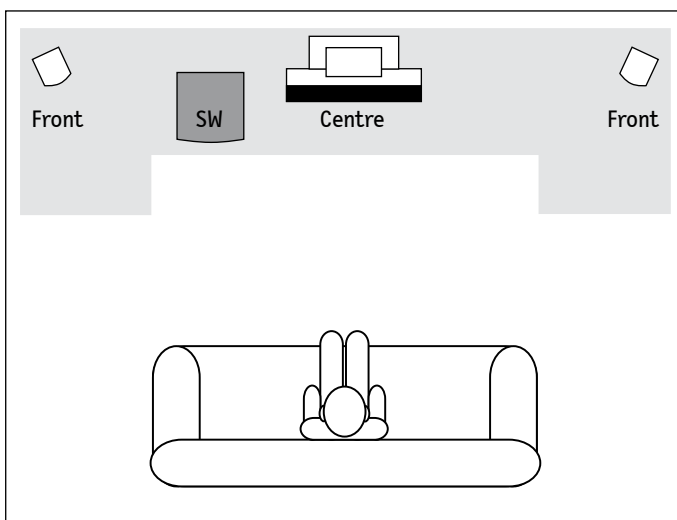
To achieve this, the centre can be set up on the cradle supplied.

### Front

The front speakers (column speakers CL 70 FR) are placed at equal distances to the right and left of the TV in old stereo fashion (distance to listener = distance between the left and right speaker). If the column speakers have to be placed further out, you can easily turn them inwards and towards the listening location.

Thanks to their magnetic screening the two front speakers can even be used near a traditional cathode ray TV.

It is important that the centre and front speakers are positioned in an approximate line, or possibly even on a slight arc to the TV. Otherwise possible run-time differences can affect the homogeneity of the playback. Setting the speakers up in this way allows them to deliver their full sound potential.



**Tip:**  
The sound from the column speakers benefits from being near a wall.

## Setting up the 5.1 configuration

### Subwoofer

The location of a subwoofer with a recommended cut-off frequency of 110 Hz can be freely selected and does not affect the other speakers. Placement on a straight line between the two front satellites is ideal. But you can also try it out at any other location in the room. Thanks to its magnetic screening, it can even be placed near the TV. We must, however, advise you not to use it as a "TV table" as the subwoofer's vibration may cause the TV to "wander" – with potentially damaging consequences to the device and users.

### Rear

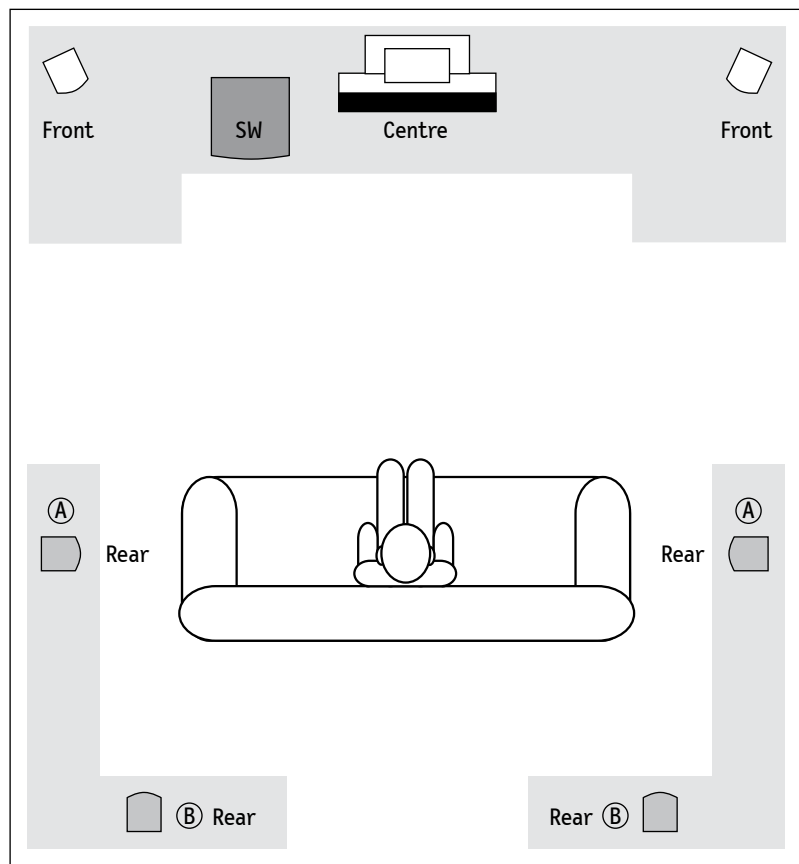
Set up the rear speakers left and right, either to the side **(A)** or rear **(B)** of the listening point.

We recommend that the distance between the rear speakers and the listening location is more than 1.00 m. But if you (have to) sit closer, please ensure that the front of the speaker is not pointing directly at you; instead, angle the speakers more into the room.

*We recommend placing the subwoofer in the front grey area.*

*Select position area A or B.*

*We recommend placing the rear speakers in the rear grey area.*





## Connection

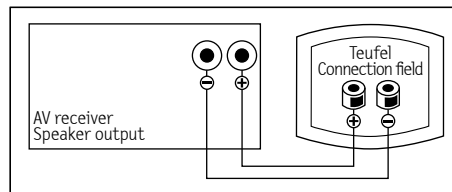
The Columa 700 with active subwoofer can be connected to any standard Dolby Digital/DTS 5.1/6.1/7.1 AV receiver. For a 7.1 AV receiver you do not use the rear centre socket(s).

Connect the front, centre and rear speakers to a 5.1 AV receiver as per the diagram in **Fig. 1**.

Connect the subwoofer output (sub out) of your Dolby Digital/DTS-AV receiver via a mono-cinch cable with the right Line Input of the subwoofer as per the drawing in **Fig. 2**.

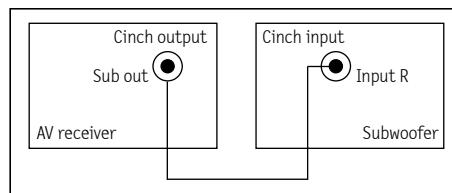
The left input (Line Input L) remains unoccupied. A Y-adapter is required to use both of the subwoofer inputs (refer to Accessories, page 6).

### Front, centre and rear speakers

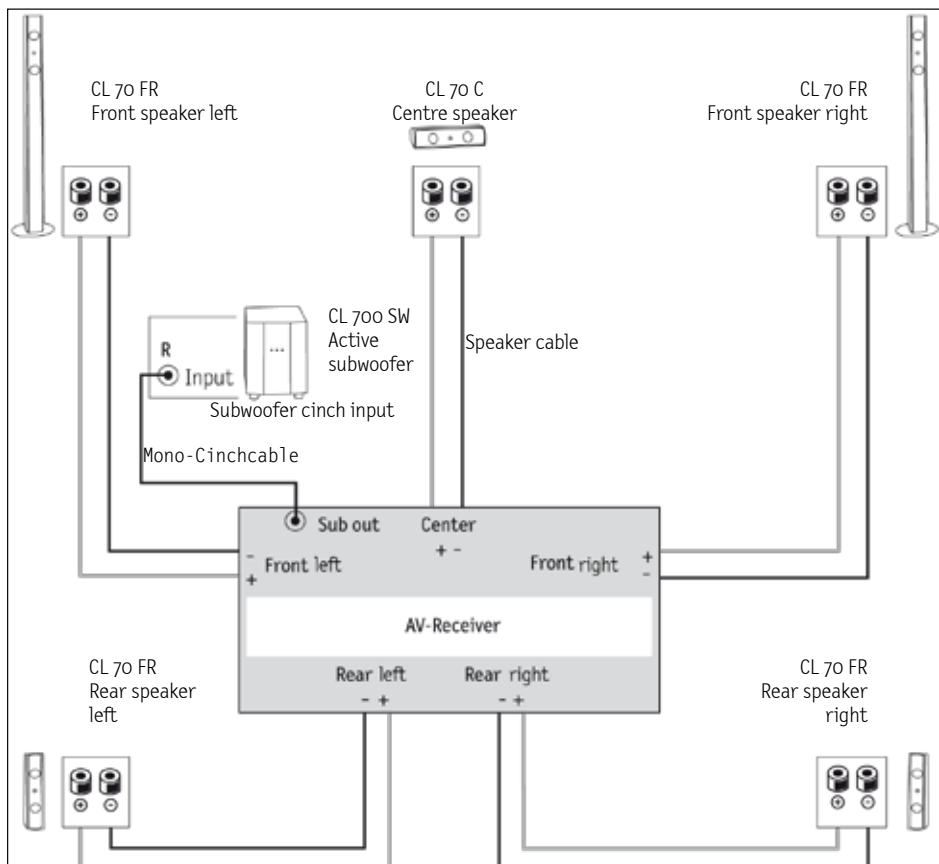


**Fig. 1**

### Subwoofer



**Fig. 2**



*Connecting the speakers to a 5.1 AV surround receiver. A 6.1/7.1 receiver has one or two rear centre socket pair(s).*

### Setting up the AV receiver

For your Columa 700 home cinema system with active subwoofer, select the “small” or “normal” (not “large”) setting in bass/speaker set-up of the AV receiver for the satellites – this guarantees that the satellites can be fully loaded and the subwoofer and front speakers harmonise perfectly with each other.

The subwoofer must be set to “On” in the bass/speaker set-up on the receiver. The appropriate cut-off frequency in this set-up for the Columa 700 is 110Hz (100/120/140/150Hz are also possible).

### Setting up the subwoofer

When operating the system on the AV receiver, the frequency control on the subwoofer/remote control must be set to “Maximum” = “140 Hz” because the cut-off frequency is set by the AV receiver – its settings are dominant.

Modern AV receivers set the subwoofer phase correctly when adjusting the distance of the subwoofer from the listening location during “speaker set-up” – so the phase controller on the subwoofer itself should be left in the “0” position. For older AV receivers, or appliances without an option to compensate for the distance of the subwoofer, the following applies:

With the phase controller, you can adjust the subwoofer to the satellites such that the speaker membranes vibrate in the same direction in the cut-off frequency range. If the phase is set incorrectly, the bass may be weakened or cancelled.

For a subwoofer position between the front speakers, we recommend “0” (grey field in the illus-

tration on page 8), for a position near the listening location “180°”. If the subwoofer is in another location, the “180°” setting can balance out the reduced bass playback. Set the phase controller appropriately to get the strongest bass playback.

The volume setting of the subwoofer may be slightly different when playing back music compared with home cinema sound, depending on the recording quality and mixing. Whereas a massive bass element predominates on DVDs with high quantities of special effects, the desired level is sometimes not reached for music (especially if the set has been set up for ideal DVD playback). In this case, the user’s own taste is the main determining factor in finding the right compromise between the two sources.

This is how you can gradually find the best volume for the subwoofer:

We do not recommend selecting an automatic setting for the subwoofer using the integrated calibration computer (if the receiver has such) but rather setting the subwoofer in the bass/speaker set-up to a high value between +8 and +12 dB (around setting “55” on the subwoofer). This guarantees operation of the auto on/standby mode; then you can determine the ideal level for the subwoofer by carrying out listening tests.



### Subwoofer remote control

#### Volume

This sets the subwoofer’s volume. Increase the volume using the “+” button and decrease it using the “-” button.

#### Frequency

Here you can align the subwoofer’s cut-off frequency with the satellite speakers. For operation on the AV receiver press the “140 Hz” button. The display on the front of the subwoofer then shows »14«.

## Operating elements on the subwoofer

### CL 700 SW subwoofer front

#### 1 Volume controller

You adjust the volume of the subwoofer here from “00” to “80” – the “Volume” diode to the left of the screen lights up during the process. When you release the volume control, the screen jumps back to the value of the cut-off frequency, normally “14”. The “Frequency” diode lights up. 2. By pressing the “Frequency” button, you can skip through the four different presets for the cut-off frequency: »05« - »08« - »11« - »14«.

#### 2 Display and operating diodes

If the subwoofer is switched off at the mains switch 6, no operating diodes light up on the

display. If the subwoofer is switched on at the mains switch 6, two small operating diodes light up red on the display depending on the setting of the power function slide control 3. If the subwoofer is in standby mode = power function 3 “AUTO ON”, the two operating diodes light up on the screen. If the subwoofer is then switched on, the screen shows the programmed cut-off frequency. If the subwoofer switches off after about 20 minutes because it has not received a signal, the two small diodes on the screen light up again. If the subwoofer is switched to ongoing operation = Power function 3 “ON”, the screen displays the programmed cut-off frequency.



### CL 700 SW subwoofer rear

#### 1 Line In

You connect your mono-cinch cable (possibly with a Y-adapter) from the sub out of the AV receiver here.

#### 2 Line Out

Here you can connect an extra subwoofer in order to generate additional bass sound or balance your room resonance.

#### 3 Power function (Auto)

When switched to “ON”, the subwoofer is permanently on. If you set the switch to “AUTO ON”, the subwoofer will switch on automatically when it receives a signal. If it receives no signal, it switches itself off after about 20 minutes.

#### Attention:

The separating equipment of this equipment is the mains plug, this separating equipment must be usable without difficulties

#### 4 Phase

Here you set the subwoofer’s phase in relation to your front and centre speakers. If the subwoofer is set up in the grey area of the drawing on page 7, set the phase to “0°”; otherwise to “180°”.

#### 5 High level input/output

These sockets are used to connect the subwoofer to older stereo amplifiers/surround receivers that do not have a subwoofer output. These connections are not used for multichannel AV receivers with a sub out.

#### 6 Power

When set to “OFF”, the subwoofer is switched off, and on when it is set to “ON”.



The arrow-headed lightning symbol in an equilateral triangle indicates the presence of a dangerous uninsulated electrical voltage within the system housing and therefore a risk of electrical shock.



The exclamation mark in an equilateral triangle, as affixed to the appliance, is to make the user aware of important operating and maintenance instructions.



This product complies with European Community guidelines 2004/108/EC and 2006/95/EC.

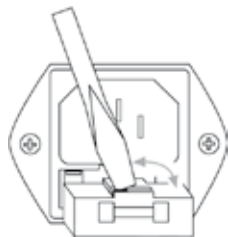


The dustbin symbol printed on our products’ type plates and amplifiers states that Lautsprecher Teufel guarantees proper disposal of these speakers and subwoofers in line with the Electrical and Electronic Appliance Act.



This product complies with DIN EN 61140 (VDE 0140-1) and IEC 60417 of protection class II. It only requires a two-pin round plug (included) and not an earthed plug. The plug has a reinforced or double-shielded casing to prevent electrical shock.

### The subwoofer doesn't play



If no power diodes are lit in the screen, please change the fuse.

A faulty fuse should only be changed for one of the same type.

If the power diodes light up, reduce the subwoofer volume to "00"; remove the subwoofer cinch cable from the amplifier, turn the volume up carefully and touch the cinch thermal resistor of the cinch cable (inside) with your finger. If you can hear buzzing or crackling, the defect is in the amplifier or its settings. If the subwoofer remains silent in both cases, please contact our service department.

### The subwoofer is buzzing

These buzzing noises may be produced by connected devices or faults in the power network. Excessive buzzing is usually caused by one of the following:

1. The subwoofer is connected to a different power circuit from the rest of the equipment. Ensure that all linked appliances are connected to a single power circuit or socket.
2. The aerial connected to the equipment or TV has a different ground potential than the socket. To test this, simply remove all aerial cables from the wall socket. If the buzzing stops, you need a sheath current filter available from electronics retailers. Insert the filter between the aerial socket and the TV or receiver.
3. A separately purchased mains filter, to which all appliances must be connected, may be useful in eliminating the buzzing.
4. A multiple socket strip sometimes proves to be responsible for creating buzzing noises. To test this, disconnect the plug strip and plug the subwoofer's mains plug directly into a wall socket.

### Cleaning

To make sure you are able to enjoy your product from Lautsprecher Teufel for a long time, please note the following tips:

Do not expose the unit to direct sunlight. Avoid

5. You can also try turning the mains plug around and inserting it into the socket the other way up, inasmuch as your mains plug/socket allows this.

6. In order to better localise the cause of the buzzing, check whether the subwoofer operates without buzzing on a power circuit in another room. In addition, try disconnecting the cinch connection from the subwoofer to the receiver in order to exclude the influence of connected components.

### The subwoofer does not switch on automatically when in "Auto ON" mode

Some AV receivers issue the bass signals via the subwoofer pre-amplifier output so quietly that the subwoofer does not start automatically, as the weak signal is not interpreted as a switch-on request. To make sure the subwoofer switches on and off correctly in auto mode, we recommend turning the level control on the subwoofer only to "55" and increasing the output level for the sub in the receiver's speaker set-up – sometimes up to the maximum (+10 dB or +12 dB). The subwoofer should then work perfectly. If not, you can change the setting to permanently "On".

### The subwoofer reacts to the remote control of another appliance

As there are no fundamental regulations on the distribution of frequencies, each manufacturer can work with the code of its choice. Unfortunately, occasional crossovers in individual cases cannot be prevented. This is, however, not a fault in the subwoofer. If there are incompatibilities, you can try covering the subwoofer's receiving diode with opaque adhesive tape. If, however, you have the freedom to choose another location and can locate the subwoofer outside the range of the receiver's remote control (i.e. not right next to the receiver) this may reduce the problem, as the reception spectra may then no longer overlap.

extreme temperature differences and protect your speakers from moisture. When cleaning the speaker, only use a slightly damp or dry cloth. Abrasive cleaners and products that contain alcohol should be avoided. Remove dust from the membrane very carefully with a dry cloth.