



# Concept R 2

5.1 Home Theatre Set with Active Subwoofer

**Teufel**

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### **Original packaging**

We recommend that you hold on to the packaging of all your new Teufel products, as we only accept loudspeakers back within the initial eight-week return period if they are shipped in their ORIGINAL PACKAGING. We do not provide packaging boxes separately.

### **Technical specifications**

For technical specifications of the products described herein, please refer to our website.

### **Contact**

If you have any questions, suggestions or criticisms, please contact our support team:  
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www.teufel.eu

### **Terms of warranty**

Lautsprecher Teufel GmbH provides a twelve-year warranty for loudspeakers and a two-year warranty for amplifiers and electrical components, starting at the purchase date. The warranty covers all materials and time needed. The warranty does not cover devices damaged as a result of improper use or electrical/mechanical overloading. The original Teufel invoice is your proof of warranty. This warranty applies exclusively to loudspeakers, amplifiers and electronic components purchased by consumers from Teufel for private usage. The warranty does not apply to loudspeakers, amplifiers and electronic components sold to consumers through third-party dealers. For third-party products supplied together with the Teufel system, the terms of warranty of the manufacturer in question apply. When Teufel products are resold privately, the warranty may be transferred to the new owner. For this, the new owner requires the original Teufel invoice.

### **Returns policy**

For all products purchased directly from Teufel and from [www.teufel.de](http://www.teufel.de), Teufel provides an eight-week right of return with a money-back guarantee. You will not have to pay any additional shipping costs for returning Teufel goods. Teufel covers the freight for transporting the goods back to the factory, and we will promptly refund the purchase price to your account once we have verified the condition of the goods.

You may only return individual components from a set if Teufel offers these components for sale separately. If you return one or more individual components from a set, this voids the discount that Teufel provides on the sale of components as a set. This means that for individually returned components from a set, you will be refunded the difference between the set price and the sum purchase price of the individual components you decide to keep, i.e., we will deduct the discount that applies to set purchases.

If you decide to return any or all of the purchased goods, please always contact us first.

Note that we can only process and accept returned goods if you have telephoned us in advance and discussed the required returns procedure.

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## Safety guidelines

### **Please read the following safety guidelines very carefully.**

*Packaging materials, particularly plastic bags and foils, should be kept out of childrens' reach, as these can be dangerous (e.g., risk of suffocation). Never leave your children alone with electrical devices, as there is potentially always a risk of electrical shock.*

### **In case of an emergency:**

Immediately disconnect the unit's power plug from the mains socket. In the following cases, please contact one of our service technicians:

- ▶ Power plug or cable is damaged
- ▶ Liquid or other foreign substances have entered the interior of the unit
- ▶ The unit has been directly exposed to rain or another type of liquid
- ▶ The unit is inoperational even though you have followed all the operating instructions
- ▶ The unit has been dropped or otherwise damaged

Lautsprecher Teufel is not liable for any incidents resulting from disregard for the safety guidelines.

**General note:** Make sure to read this operating manual carefully and in its entirety. Before plugging in the unit for the first time, make sure you have complied with all relevant safety and operating instructions. Keep this operating manual in a safe place so you can refer to it at a later date if necessary.

**Always:** If in doubt, consult the operating manual. Make sure to comply with all instructions regarding the unit's set-up and ongoing operation.

**Cleaning:** Avoid cleaning the unit with domestic cleaning agents, as these may scratch the surface. Just use a dry cloth. Before cleaning the unit, always unplug the power cable.

**Humidity and sunlight:** Never operate the unit in humid or wet spaces, e.g., near a bath tub, shower, wash basin, drain, in a damp basement, or near a swimming pool. Never expose the loudspeaker to humidity, and avoid exposing it to direct sources of sunlight. Do not expose device to dripping or splashing water. Do not place objects filled with liquids, such as vases on the device.

**Placement:** Never mount the unit loosely in a vehicle, on an unstable surface, on a loose stand, on unsuitable furniture, or with insufficient bracing. The loudspeaker could topple and cause personal injuries, which you will be liable for. Especially when speakers are mounted on stands or placed on top of TV sets/monitors, they may topple due to external stress (cable being pulled, tripping over cable, accidental physical contact) – even if they seem to be mounted quite securely. As a result of their weight, toppling speakers can cause considerable damage, as well as becoming badly damaged themselves. The same applies to undersized or unprofessionally installed wall-mounting brackets, particularly on light walls. Always use adequately sized wall brackets for mounting loudspeakers, and ensure that the wall can withstand the stress. Never mount the unit near a heat source. This could be a heater or oven, but also any other electrical device that heats up during operation (e.g., amplifier). Similarly, never place a heat source on top of the loudspeaker, such as a fan heater or candles.

**Ventilation:** There are several ventilation slits and openings in the unit's housing. These are designed to ensure reliable operation and protect the unit from overheating. Never block or cover the ventilation slits; do not place the unit on a soft surface such as a bed, couch, carpet, etc., as this blocks the ventilation slits in the bottom of the housing. Do not put any newspapers, tablecloths, etc. on top of the unit. Most importantly, do not cover up the heatsink of the amplifier section or expose it to direct sunlight. Conversely, you should generally not attempt to provide additional cooling to the unit yourself. This is not necessary.

**Power source:** Make sure to connect the subwoofer to a power source that provides the correct voltage, i.e., the voltage indicated on the type plate. If you are unsure about the voltage provided by your domestic power connection, please contact us or your local electricity provider for advice. The unit does not require earthing. When connecting to the mains power socket, always use the supplied two-pole power cable. Under no circumstances should you modify the power cable, as it must comply with the official polarity and earthing regulations. Make sure to plug the power cable only into a double-pole socket.

**Cables:** Lay all the cables to and from the unit flush with the floor and walls. Avoid any loops in your cables that could cause people to trip up. Cable loops can also cause electrical interference and degrade the sound quality. Make sure to lay your power cables out of reach so that they are not stood on or squashed by heavy objects. If you notice any cable damage, replace the cable. Pay special attention to all plug connectors, the

mains socket, and the subwoofer's connector panel. Regularly check all powered cables to and from the loudspeakers for insulation issues and breakage. If you detect a fault, immediately power down all connected units, unplug the cables and replace the defective cable.

**Disuse:** During prolonged periods of disuse (holidays, etc.), always unplug the subwoofer from the mains socket.

**Thunderstorms:** In the event of a thunderstorm, switch off and unplug the unit as soon as you can in order to avoid damage from lightning strikes.

**Overloading:** Never overload your wall sockets, extension cables and multiboxes, or the integrated power sockets on your electrical devices. Power overloads can cause short circuits and fires. Also avoid turning up the volume control excessively on your amplifier, particularly if you are also boosting the bass frequencies (bass control, loudness button, bass boost button, etc.).

**Liquid and foreign substances:** Liquids or other foreign substances should never get inside the unit, as they may interfere with exposed live parts and cause short circuits or fires. Absolutely avoid spilling any type of liquid onto the unit. In case of a fault, never attempt to repair the unit yourself. Always contact our support team first and discuss the fault with them. If appropriate, they may give you instructions on how to clear the fault. If this is not possible, send the unit directly to our service address.

**Transport:** Take utmost care when transporting the unit, and use a sack barrow if possible. Be aware that both the sack barrow and the unit can easily fall over as a result of sudden stopping or jolting (uneven ground, lurching movements, etc.).

**Replacement parts:** During the period of warranty, Lautsprecher Teufel will supply all required replacement parts. Your warranty will not be voided as long as you use Teufel spare parts to replace any defective components.

**Unusual noises:** If any unusual noises occur during operation, or if the sound gets distorted, immediately turn down the amplifier volume to a level where the sound returns to normal.

### **Replacing the fuse:**

Unplug the power cable before replacing the fuse. Make sure that the replacement fuse has the same rating as the defective fuse.

**Speaker volume:** Excessive loudspeaker volume can cause irreversible hearing loss. The subwoofer may emit high sound pressure levels very unexpectedly when it is suddenly triggered into activity by a bass impulse ("Standby/Auto On" mode) – particularly if the unit is on full volume. As well as physical hearing loss, also watch out for psychological stress caused by excessive volume. Children and pets are particularly sensitive to noise. Always set the volume control of your audio system to a level that is appropriate to the surroundings. When the system is playing at high volume, do not stand too closely to the subwoofer and never put your ears up directly to any of the loudspeakers.

## Introduction to Concept R 2

### Dear Lautsprecher Teufel customer,

Thank you for purchasing a set of loudspeakers from Lautsprecher Teufel GmbH.

Our Concept R 2 system is designed for audio playback in rooms sized up to 30 m<sup>2</sup>. For loudspeaker purposes, the room size extends only to that part of the room that is used for sound reproduction. Adjacent parts of the room – such as the dining area – do not need to be factored into the room size. If the room is higher than 3,5 m, multiply the room size by 1,5. If there is only little need for continuously high volume, you can also install the system in spaces that are slightly larger than 30 m<sup>2</sup>.

Before using the loudspeaker set for the first time, carefully read this operating manual. Keep the manual in a safe place for later reference. If you have any questions, feel free to contact our technicians (ph. +49 (30) 300 9 300), or write an email using the contact form on our Website [www.teufel.eu](http://www.teufel.eu). Please provide your order number so that we can identify your purchase and provide the best possible support.

BEFORE you contact us with any questions, make sure to read the "Problems and Solutions" section on page 12 of this operating manual. Further answers are provided on the Frequently Asked Questions page of our website.

Please take careful note of the safety guidelines on page 4 of this operating manual. Do not start using the loudspeakers before you have read this page.



## Unpacking · Included Components · Accessories

**Please make sure that you have all the components of the system**

**Attention:**  
Hold on to the cardboard boxes for at least eight weeks (duration of the right-of-return period). Lautsprecher Teufel will ONLY refund the full purchase price if the speakers are shipped back in their ORIGINAL PACKAGING!

### Unpacking

Open the top flaps of the cardboard box, take out the styrofoam padding, and carefully lift the loudspeaker out of the box. We recommend to hold on to all the original packaging in case you ever need to ship the speakers back to us for servicing. The Concept R 2 set is shipped as a complete system.

### Concept R 2

#### Scope of delivery

- ▶ 1 x CR 1420 SW subwoofer
- ▶ 1 x CR 142 C centre speaker
- ▶ 1 x table mount for CR 142 C
- ▶ 4 x CR 142 FR floorstanding speaker
- ▶ 8 x screws for base fixing
- ▶ 1 x mains cable



◀ CR 1420 SW subwoofer



◀ CR 142 C centre speaker, with table mount



◀ CR 142 FR floorstanding speaker



Mains cable

### Accessories

As different customers have different cable requirements, our systems do not ship with any standard speaker cables.

However, you can order suitable speaker cables, subwoofer cables, adapters and connectors directly from us at

[www.teufel.eu](http://www.teufel.eu)

**If you require any optional accessories, you can easily order these directly from the Accessories section of our online store: [www.teufel.eu](http://www.teufel.eu)**

### Teufel cable package AC 3025 WS



We have complete a cable package which make it easy to connect the Concept R2 to your source appliance.

It contains 1 x mono cinch cable for the subwoofer (1,50 meter) plus 30-metre speaker cable (1,5 mm<sup>2</sup>) for the 5 satellite speakers.

### Teufel NF mono RCA cable



This cable is designed for connecting active subwoofers to AV receivers/amplifiers, and it is shielded against magnetic interference. A reliable connection is guaranteed by sturdy, gold-plated connectors. This cable is available in several different lengths (2,5 to 15 metres) to perfectly match your requirements.

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



Highly flexible copper core (650 strands) with a transparent sleeve and polarity markings. In response to customer demand, all our audio cables are now pre-wired for typical usage lengths.

### Y adapter



1 x socket to 2 x connector. A Y adapter lets you feed a mono sub signal to both of the subwoofer's stereo inputs; this increases the subwoofer's overall volume.

## Speaker positions in the 5.1 configuration

### General notes on speaker placement

Thanks to its unobtrusive aesthetics and sleek design, the Teufel Concept R 2 speaker system will easily blend into your living room. In order to get the best possible audio quality from your Teufel system, however, there are a number of speaker placement rules to consider; these apply particularly to home theatre use. As a general guideline, any home theatre system should be concentrated around the viewing area, i.e., that part of the room that contains the TV/screen and the main seating spots. If at all possible, the TV/screen should be placed centrally in relation to the viewing/listening spots.

Our speaker placement suggestions, shown over the next pages, are designed for the best possible multi-channel sound reproduction. In the reality of your living room, of course, there may be factors working against the suggested placements – your room layout, your furniture or even your partner! While our recommendations represent the audio purist's optimum layout, minor variations in placement will generally not affect the sound imaging very much. Modern AV receivers also offer a number of options to electronically compensate for compromises in speaker placement. Always remember: Our recommendations are not the be-all-and-end-all but a starting point. Ultimately, you will know best what works in your room, both visually and sonically. Trust your eyes – and your ears!

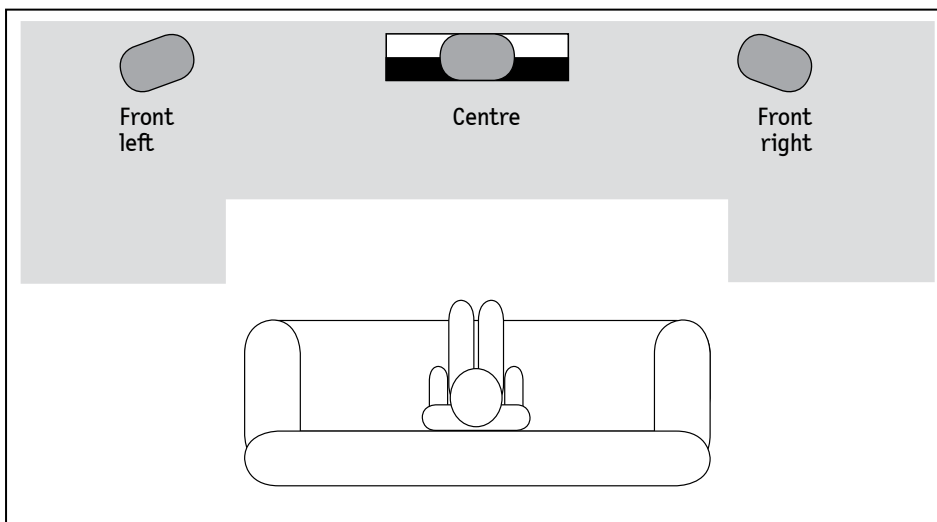
### Centre speaker

The centre speaker reproduces virtually all spoken sound, including most dialogue. In relation to the main listening spot, place the CR 142 C centrally under or above the TV/screen in order to create a physical unity between sound and image. A table mount for the centre speaker is also included with your Teufel system.

### Front speakers

The front speakers should be positioned the same way as any conventional stereo speakers – forming an equilateral triangle with the listener. In a home theatre set-up, the TV/screen should be centred between left and right front speakers. Should you need to position the floorstanding speakers further out, make sure to angle them to the main listening spot.

As they are magnetically shielded, you can even place the two front speakers in close proximity to a TV tube. Make sure that the centre speaker and the two front speakers are positioned in a straight line, or on a slight arc with the TV/screen. If the distances between you and the speakers vary significantly, this will degrade the audio signal's spatial imaging. Make sure to align your speakers properly so they sound as good as possible.



**Hint:**  
The floorstanding speakers sound best when positioned closely to the wall.

## Speaker positions in the 5.1 configuration

### Subwoofer

At the recommended crossover frequency of 150 Hz, the CR 1420 SW subwoofer can be positioned in the room very flexibly without affecting the output from the other loudspeakers. Usually, the ideal position is somewhere along the axis between the two front speakers, but you should feel free to experiment with placing it anywhere you like.

As the subwoofer is magnetically shielded, you can even place it near a TV tube.

However, you should never put a TV set directly on top of the subwoofer – the bass vibrations may cause the TV to gradually slip off, which could severely damage both units and possibly cause injury.

### Rear speakers

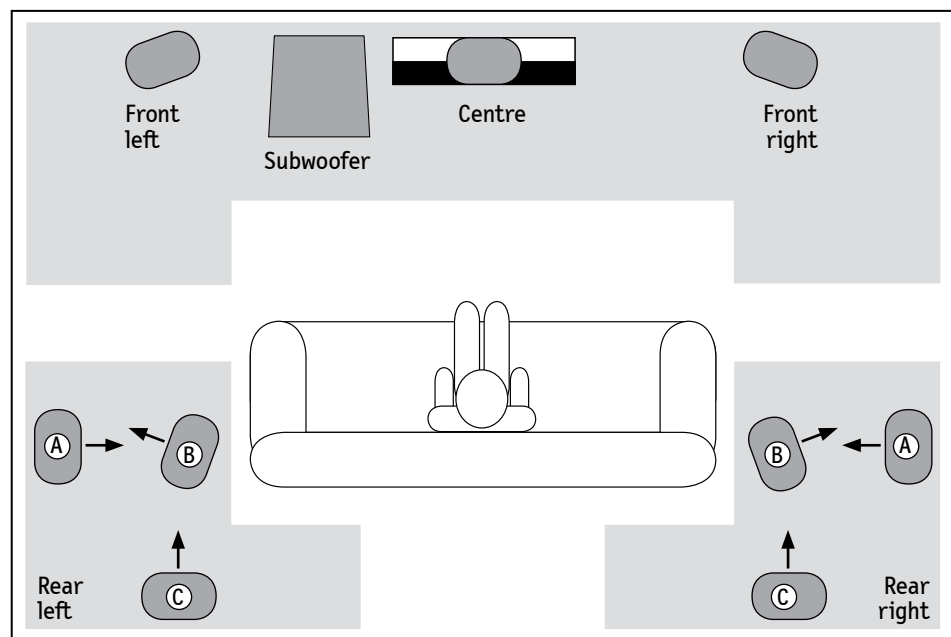
Position the left and right loudspeakers for the rear of the room either behind or to the side of the main listening spot. The ideal angle for the rear speakers is parallel to the listener, offset by 20 degrees ①.

The rear speakers should always be at least one metre away from the listener. If this is physically not possible in your room and the speakers have to be closer than one metre, make sure that they are not directly facing you but are angled towards the wall ②.

Alternatively, you can create the required distance by elevating the speakers to a height of at least 1.20 metres (e.g., using stands), or by placing them much further back in the room ③.

*We recommend you place the subwoofer somewhere in the grey front area.*

*We recommend you place the rear speakers somewhere in the grey rear area. The best default positions are indicated by A, B and C. The arrows indicate the speakers' projection.*





## Audio connections

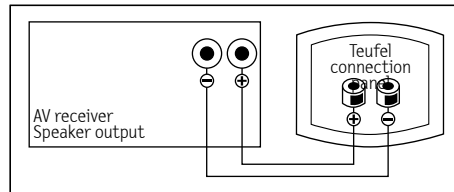
You can connect the Concept R 2 to any modern Dolby Digital/DTS 5.1/6.1/7.1 AV receiver for a 5.1 set-up with an active subwoofer. If your AV receiver is 6.1/7.1, simply ignore the Rear Centre Out(s).

If your receiver is 5.1, connect the front, centre and rear speakers as shown in the diagram. → **Fig. 1**

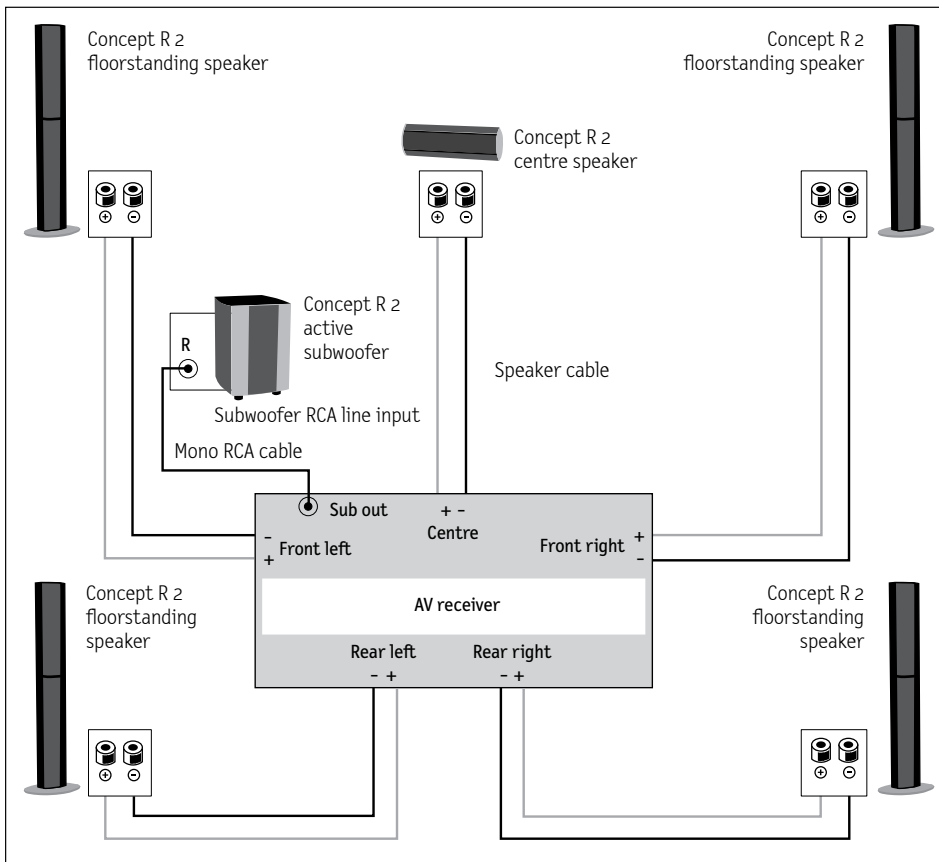
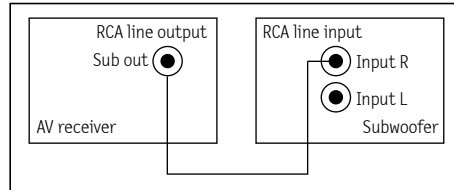
Connect the subwoofer output (Sub Out) of your Dolby Digital/DTS AV receiver to the right Line Input (R) of the subwoofer using a mono RCA cable. → **Fig. 2**

In this set-up, the left input (Line Input L) is not connected. If you want to feed the Sub Out signal to both of the subwoofer's inputs, use a Y adapter (see Accessories, p. 6).

### 1. Front, centre and rear speakers



### 2. Subwoofer



*Connecting the speakers to an AV surround receiver – example: 5.1 set-up*

### Setting up the AV receiver

To take full advantage of your Concept R 2 Home Theatre System with Active Subwoofer, set the "Speaker Set-up" section of your AV receiver to "small" or "normal" (not "large") for the five satellite speakers. This ensures that the speakers receive the right amount of signal, and that the subwoofer and front speakers have matching volumes.

Also in the receiver's "Speaker Set-up" section (Bass Management and/or Speaker Management), make sure the subwoofer is set to "On". If you are given the option of entering a crossover frequency for the Concept R 2, set this to 150 Hz (if this is not available, the next best choices are 120 Hz and 200 Hz).

### Setting up the subwoofer

If your system is based around an AV receiver, set the subwoofer's frequency control to maximum; the AV receiver automatically determines the crossover frequency in relation to the subwoofer's output.

Modern AV receivers can also determine the subwoofer's phase automatically. This happens within the receiver's "Speaker Set-up" utility, which analyses the distance between the different speakers and the listening spot. For this to work correctly, the subwoofer's own phase switch needs to be on "0°".

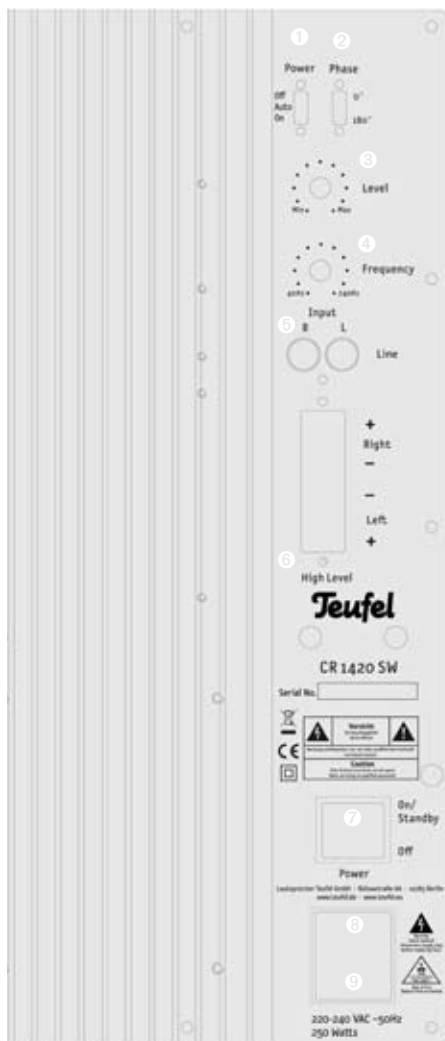
If your system uses an older-model AV receiver or another type of amplifier without a setting for the subwoofer distance, you can use the subwoofer's phase switch to manually adapt the phase to the other speakers. The goal here is for all the bass loudspeaker membranes that reproduce the frequency range around the crossover frequency to vibrate in the same direction. If the phase is set incorrectly, there may be phase cancellations between the bass frequencies, i.e., the bass is quieter and some of the low frequencies appear to drop out.

If your subwoofer is positioned between the front speakers, we recommend a phase setting of "0°" (grey area in the diagram on p. 7); if the subwoofer is positioned closer to the listening spot, a phase of "180°" may be more appropriate. Similarly, the "180°" setting may help to eliminate bass cancellations if you position the subwoofer in other areas of the room. As a rule, always set the phase switch to the position that enables the best bass reproduction.

The subwoofer's output volume may vary depending on usage, e.g., home theatre sound system or music playback. Whereas an action-packed DVD typically contains very defined sub bass signals, many music-only sources do not. This is especially noticeable if your system is calibrated for optimum DVD playback. To find the best compromise between differing sound sources, use your own subjective judgement.

Our recommendation is to determine the best subwoofer volume gradually over time.

Avoid configuring the subwoofer volume automatically via your AV receiver's integrated room analysis computer (advanced receivers only). Instead, set the subwoofer level provided in the bass management/speaker management section ("Speaker Set-up") to a high value, such as +8 to +12 dB; this will guarantee that the subwoofer activates itself at the right times when in "Auto On/Standby" mode. You can then use the subwoofer's own level control to experiment with different bass levels that are suited to your various listening scenarios.



### 1 Power mode

"On" means that the subwoofer is operational and permanently active. "Auto" means that the subwoofer is operational but is only activated once it receives an audio signal. In "Auto" mode, the subwoofer automatically switches to standby after 20 minutes of inactivity.

### 2 Phase

This switch determines the phase relationship between the subwoofer and the front/centre speakers. If you are using a modern AV receiver and/or the subwoofer is positioned in the speaker set-up as indicated on p. 7 (grey area of drawing), set the phase to "0°". With other set-ups, the "180°" setting may produce better results.

### 3 Level

Use the "Level" control to adjust the subwoofer's volume. In the receiver's bass management section, set the bass level to a high value, i.e., between +6 and +12 dB. Next, set the subwoofer's level control to 10 o'clock. While the AV receiver is outputting its white noise set-up signal, slowly turn up the subwoofer level to the desired volume.

### 4 Frequency

Use this control to set the crossover frequency between the subwoofer's bass signal and the bass frequencies of the other speakers. If you are using an AV receiver, set the receiver's crossover frequency to 150 Hz and turn the subwoofer's frequency control to maximum (hard right).

### 5 Line input

Connect the AV receiver's "Sub Out" to the subwoofer's "Line input" using a mono RCA cable (optionally with a Y adapter).

### 6 High level

Use these speaker sockets to connect the subwoofer to a conventional stereo amplifier or a surround receiver without a dedicated subwoofer output. Do not connect anything here if you are using a multi-channel AV receiver with a sub out.

### 7 Power

Switch to "On" to power up the subwoofer; switch to "Off" to power it down.

### 8 Mains power socket

### 9 Fuse

This is where the mains power fuse is located. When replacing the fuse, make sure the new fuse has the same rating.

### What the icons mean



The lightning/arrow symbol inside an equilateral triangle informs the user about the possibility of a dangerous, non-isolated electrical current inside the device housing, indicating the risk of electrical shock.



The exclamation mark within the equilateral triangle, which can be seen on the back of the unit, indicates that there is important operating and service information for the user to read.



This product complies with the following European Union guidelines: 2004/108/EC and 2006/95/EC.



The "wastebbin" symbol printed on the type plates and amplifier labels of our products signifies that Lautsprecher Teufel ensures the proper disposal of its sold loudspeakers and subwoofers according to Germany's Electrical and Electronic Equipment Act.

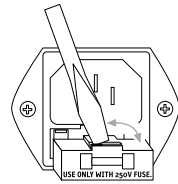


This product complies with DIN EN 61140 (VDE 0140-1) and IEC 60417 of protection class II. It only requires a two-pin round plug (included) and not an earthed plug. The plug has a reinforced or double-shielded casing to prevent electrical shock.

### Attention:

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

### The subwoofer is not working



If the Power LED does not light up, replace the fuse (see page 11, point 9).

Make sure that the replacement fuse has the same rating as the defective fuse.

If the Power LED lights up, set the subwoofer volume level to "Min", unplug the subwoofer RCA cable from the amplifier, turn up the volume slightly and touch the tip of the RCA connector with your finger. If this produces a hum or crackle, the fault is with the amplifier or the amplifier settings. If the subwoofer remains completely silent, please contact our support team.

### The subwoofer is making a humming noise

Hum may be caused by any connected audio device as well as by problems with the mains power. In most cases, excessive hum is caused by one of the following:

- 1 The subwoofer is connected to a different electrical circuit than the other components. Make sure that all connected devices (including your computer) are powered from the same electrical circuit, i.e., the same mains socket.
- 2 The antenna connected to the audio system or TV has a different ground potential to the antenna socket. To test this, simply disconnect all the antenna cables from the wall socket.

If this makes the hum disappear, you will need a ground breaker (available from most electronics stores for EUR 5.00–10.00). Simply insert the ground breaker between the antenna socket and the TV/receiver.

- 3 A line filter (to be purchased separately) can also be useful for hum removal. Note that you will need to connect all your electrical devices to the line filter. Make sure you can return the line filter for a refund if it does not produce the desired results.
- 4 Some types of power multiboxes are also known to produce hum. Try eliminating your multibox and plug the subwoofer's power cable directly into the mains socket.
- 5 Unplug the mains cable, rotate the connector plug by 180°, and plug it back into the mains socket.
- 6 If you have trouble locating the source of the hum, check whether the subwoofer is less noisy when you plug it into the mains connection in another room (e.g., using an extension cable). Also, try disconnecting the subwoofer's RCA cable from the receiver to see whether the hum is caused by one of the other connected audio devices.

# Teufel

If you have any questions, suggestions or criticisms, please contact our support team:

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