



Concept E

100 / 200 / 300 / 400

PC/multimedia/home cinema speaker systems
with integrated 5.1 amplifier

Teufel

For your information

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Original packaging

We recommend keeping the packaging if you want to take advantage of the eight-week right to return as we can only accept the speakers IN THEIR ORIGINAL PACKAGING. We are unable to supply empty boxes!

Trademark

® All trademarks are the property of their respective owners.

Technical Data

Technical data can be found on our homepage at: www.teufel.eu

Contact

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

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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 can be transferred to the purchaser, providing that the original proof of purchase is also transferred.

Returns

Teufel provides an eight-week right to exchange or return the product 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.

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.

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Safety information

Please read the following safety information carefully.

*Risk of suffocation – keep packaging materials (e.g. the plastic bags and film) out of reach and sight of children.
Risk of electrocution – do not leave children unattended in the presence of electrical devices!*

In case of emergency

If any of the following occur, disconnect the appliance from the mains and consult our technicians:

- ▶ *If either plug or cable is damaged*
- ▶ *If foreign bodies or liquid have entered the appliance*
- ▶ *If the device has been in direct contact with rain or other water*
- ▶ *If the appliance does not play, even though you have followed the operating instructions*
- ▶ *If the appliance has been dropped or damaged in some other way*

We cannot accept any responsibility for incidents resulting from failure to observe the safety information.

Important: please read through these operating instructions very carefully. It is essential that you take note of all of the safety information and operating instructions before switching on the appliance. Please keep these operating instructions in a safe place for future reference.

Essential: please read the operating instructions. You should also follow all instructions for start-up and continued use.

Information on cleaning: please do not attempt to clean the device using household chemicals, as these could damage the surface. Simply use a dry cloth. Disconnect the appliance from the mains before cleaning.

Caution – moisture and sunlight: never operate the appliances in damp rooms, i.e. close to baths, showers, wash basins, drains, damp cellars or swimming pools; never use them where there is moisture. Never expose the speakers to high air humidity and avoid direct sunlight. Do not expose device to dripping or splashing water. Do not place objects filled with liquids, such as vases on the device.

Information on location: do not use the appliance unsecured in vehicles, in unstable locations, on wobbly tripods or furniture or supports that are too small. The speakers could fall and injure you or other people. The weight of the speakers could cause them to fall and cause damage, particularly if positioned on stands or on the TV/monitor, even if they have been positioned securely and stably. They could also fall as a result of external influences, such as the cable being pulled, by persons tripping over the cable or unintentional physical contact. This also applies to wall supports that have been attached inappropriately or incorrectly to walls that may not be capable of supporting their weight. Only use suitable wall brackets for mounting. Make sure that you know how much weight the walls can bear. The appliance must not be placed near sources of heat. This includes radiators and heaters, ovens and other appliances that emit heat (e.g. amplifiers). Sources of heat, such as fan heaters or candles, should not be placed on the speakers.

Ventilation: the slits and openings in the casing are provided for ventilation. Their purpose is to guarantee reliable operation and to prevent the appliance from overheating. These openings must not be blocked or covered, which includes placing the appliance on a bed, sofa, carpet or other soft surface. Do not place any newspapers or table cloths etc. on the appliance. The cooling plate of the amplifier electronics must not be covered or exposed to direct sunlight. Additional active cooling of the appliance is generally not permitted.

Electrical supply: the subwoofer should only be connected to a power source with the correct voltage as specified on the identification label. If you are unsure about the electricity supply in your home, please contact us or your electricity supplier for more information. The appliance does not need to be earthed. Please only use the appropriate two-core mains cable for connecting to the mains socket. This mains cable must not be modified under any circumstances. Regulations on polarity and earth connection must be observed. Use only an appropriate mains plug for connecting to the mains.

Information on wiring: please place the power cable flat and flush to the wall and floor. Loose cables constitute a risk as people could trip over them. This could also result in interference and cause the sound to be disrupted. The power supply cable should be laid so that it is not likely to be stepped on or squashed from the sides or above by heavy objects. Damaged cables must be replaced. Pay particular attention to the cable/plug connection, the mains socket and the cable output from the subwoofer. The power supply cable and the cables connecting the speakers should be checked regularly for insulation faults or breaks. If a fault is discovered, the appliance and the cabling must be disconnected from the mains immediately and the de-

fective cable must be replaced.

When not in use: disconnect the subwoofer from the power supply if the unit will not be used or you will not be home for extended periods.

During thunderstorms: in order to avoid damage caused by lightning strikes, switch off and unplug the device if you are expecting a thunderstorm.

Risk of overload: you should not overload wall sockets, extension cables or integrated appliance sockets, because this could potentially lead to short circuits and even fires. You should also avoid turning up the volume very high on the relevant amplifier, especially if you have increased the bass using the bass control, the volume button or one of the deep bass boost switches.

Foreign bodies and liquids: under no circumstances should foreign bodies and liquids be allowed to enter the appliance via any openings, as they could come into contact with parts carrying high voltages, which could then cause short circuits and fires. Therefore, do not spill any liquids of any kind on the device. Troubleshooting: do not attempt to repair the appliance yourself. Contact our service department first for authorisation, if you think that you can repair the fault yourself. Otherwise, the device must be sent to our service department.

Transport: the appliance should be transported using a hand truck. Great care must be taken during transport. Please note that uneven surfaces, sudden stopping or inappropriate exertion of force may cause the hand truck and the load to fall over.

Information on spare parts: Lautsprecher Teufel will provide you with spare parts during the warranty period. Your warranty will not be invalidated if you pick up the parts yourself from Lautsprecher Teufel.

Unusual sounds: if any unusual sounds occur during use or the sound becomes distorted, the speaker output must be reduced immediately so that the system plays an undistorted sound.

Connecting and changing the fuse: disconnect the mains plug. A faulty fuse should only be replaced with a fuse of the same type.

Information on volume: loud noise can damage hearing. Sudden high sound pressure may be created, particularly if a "subwoofer" in "Standby/Auto On" mode is switched on by a bass impulse at full volume. In addition to physical damage, please be aware of possible psychological consequences. Children and pets require particular care. If necessary, set the volume control of your signal source device to the lowest level. At high volumes, always keep a certain distance from the appliance and never have your ears right next to the speaker.

Dear Customer,

Thank you for purchasing the Concept E System.

With this speaker set from Teufel, you have chosen an elegant and powerful multimedia home entertainment system that, despite its compact dimensions, delivers excellent sound quality.

This speaker set can be operated either with a multichannel AV receiver/amplifier (partially active) or independently, without an additional amplifier (fully active) through a PC or DVD player with decoder. Stereo sources, such as MP3 players, satellite receivers, TV sets, games consoles, CD players or DJ mixers, can also be used very successfully with a Concept E set.

The Concept E 100/200/300/400 subwoofer has six integrated power amplifiers: one for the integrated bass speaker and five for the satellites. There is an analogue 5.1 input on the back for direct connection of compatible sound cards, DVD players or decoder boxes or receivers with subwoofer/pre-out output.

Because the set-up has a decisive impact on the sound characteristics of any surround system, we recommend that you take the time to position all of the speakers correctly. These operating instructions contain all of the information necessary for correctly setting up and operating our Concept E multimedia/home cinema set.

Please read these instructions carefully before operating the unit and store the manual in a safe place for future reference. We recommend keeping the packaging.



Please make a note of the serial number that can be found on a sticker on the box and the invoice number here:

My INVOICE NUMBER is:

.....

My SERIAL NUMBER is:

.....

The serial number and the invoice number make it easier for us to process your request quickly if you require service.

If you encounter difficulties during operation or if you think that there is something wrong with the appliance, please read the "Frequently asked questions" section on pages 18 to 20 carefully. You can find answers to the most frequently asked questions here.



Unpacking • Contents • Assembly

First please check that all system components are included.

Unpacking

Fold back the flaps on the top of the box, remove the polystyrene packaging and carefully lift each loudspeaker out of the box.

All Concept E sets are supplied as a complete system.

Please note

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

Contents of Concept E 100/200

- ▶ 1 x subwoofer with integrated 5.1 amplifier
- ▶ 5 x identical satellite speakers
- ▶ 5 x table bases for satellite speakers
- ▶ Screws, for mounting speakers
- ▶ 25 rubber feet for the satellites
- ▶ 1 x IEC cable for power supply
- ▶ U-shaped profile for attaching the satellites to the optional M 50 P bases

Contents of Concept E 300/400

- ▶ 1 x subwoofer with integrated 5.1 amplifier
- ▶ 5 x identical satellite speakers
- ▶ 1 x cover for diagonal mounting of centre
- ▶ 5 x table bases for satellite speakers
- ▶ 1 x base for diagonal mounting of centre
- ▶ Screws, for mounting speakers
- ▶ 30 rubber feet for the satellites
- ▶ 1 x IEC cable for power supply
- ▶ U-shaped profile for attaching the satellites to the optional M 50 P bases

Mounting the bases

If required, use the screws supplied to attach the satellite speakers CE 10 FCR or CE 20 FCR to the bases provided, as shown in the diagram. For acoustic reasons we do not recommend placing the satellites straight onto the table. We also recommend that you stick the rubber pads supplied to the points on the table bases provided for this purpose, to ensure a safe and secure position and to protect the top of the table as well as possible.

Use the u-shaped profiles supplied if you are using an optional M 50 P base to mount the system.



▲ Subwoofer
CE 400 SW/CE 300 SW/CE 200 SW/CE 100 SW



◀ Satellite speaker
CE 10 FCR



◀ Satellite speaker
CE 20 FCR



◀ IEC cables



Optional accessories (selection)

Accessories

Because all customers have different requirements, Concept E systems are supplied without connecting cables, wall mounts or bases. We recommend the following articles:*

Teufel speaker cable, 2 x 2.5 mm²



Highly flexible copper wire (650 strands) with transparent cover and markings for correct polarity. Due to a high number of customer requests, our

cable is pre-cut to practical lengths. We recommend this cable especially if you are operating the Concept E set on an AV receiver and/or if cables over six metres long per speaker have to be bridged.

Teufel voltage reducer



This cable adapter allows to you to connect to speakers that have speaker outputs instead of a cinch cable subwoofer output («Sub Out»). A speaker cable [+] and [-] is adapted to a cinch jack. You will need two for

stereo amplifiers.

Teufel mono cinch cable



Specially developed subwoofer cinch cable – the best way to connect our active subwoofer to your receiver or amplifier. Screened to protect against interference from

other sources. Stable, gold-plated plugs ensure reliable contacts. The cable is available in graded lengths, so the subwoofer really can be placed anywhere.

Teufel Y adapter cable



For sound connections to PC or portable CD/MP3 players for amplifying the Concept E set. The 3.5 mm plug makes it easy to connect a sound card. You

need one adapter for fully active operation on a PC in stereo and three for surround mode.

Teufel Base M 50 P



Slimline, height-adjustable base for the Concept E series. The speaker cables can be hidden inside the base.

Height: 80–120 cm.
Design: Metal, black

Shortlock wall bracket



This bracket makes it easy to mount the satellites using the thread in the speakers. The bracket allows free horizontal and vertical positioning.

Teufel cable packages for multimedia sets



We have complete cable packages which make it easy to connect the Concept E set to your source appliance.

There are a range of sets, with different types and lengths of cables.

AC 2005 WS

3 x stereo cinch cables for DVD player/Decoderstation plus 20-metre speaker cable (0.75 mm²)

AC 3005 WS

3 x stereo cinch cables for DVD player/Decoderstation plus 30-metre speaker cable (1.5 mm²)

AC 2015 WS

3 x stereo cinch → mini-jack cables for sound cards plus 20-metre speaker cable (0.75 mm²)

AC 3015 WS

3 x stereo cinch → mini-jack cables for sound cards plus 30-metre speaker cable (1.5 mm²)

* You can order the accessories shown online under: www.teufel.eu

Set-up: PC system

* Concept E 100/200/300/400

Because the satellite speakers are identical, you can position them any way you like and »designate« one of the five as the centre speaker.

* Concept E 300/400

We often recommend positioning the speakers in a diagonal set-up on a larger base, and using the cloth cover with the Teufel logo on the side (also supplied).

General information on arranging the speakers

Because of its compact size and elegant design, the Concept E 100/200/300/400 will beautifully integrate into your home. For a surround set, however, there are some set-up criteria you need to observe in order to get the best sound from your Teufel speakers.

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 of the requirements as possible. Modern AV receivers and DVD players or the sound card software of a PC offer lots of opportunities to electronically compensate for any restrictions 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!

Set-up as a PC system

If you are using the speaker with your PC it is advisable to focus on the sound requirements of the PC workplace, i.e. the area in which the screen and receivers are located.

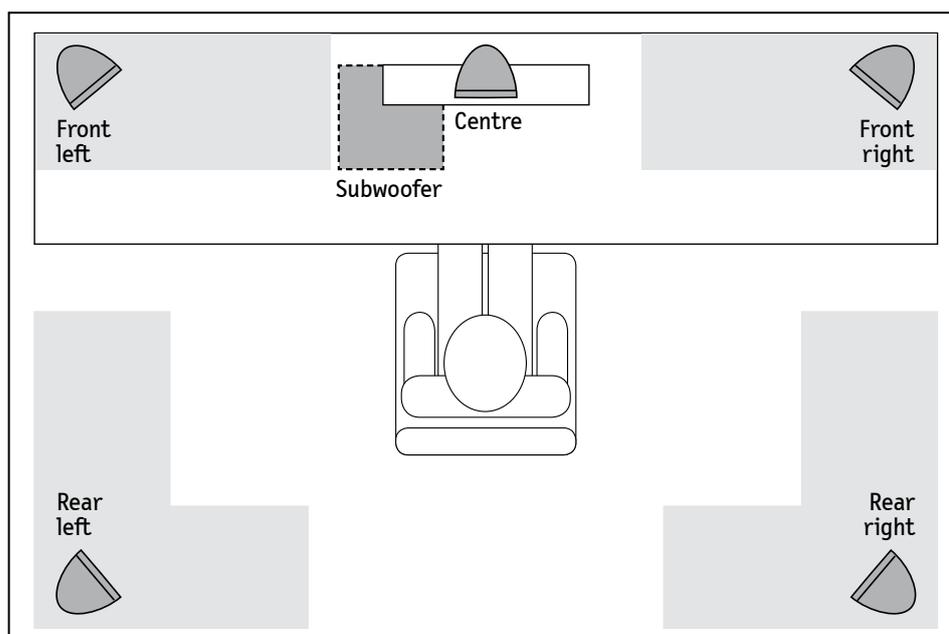
Because the centre speaker transmits spoken dialogue, this speaker must be positioned as centrally as possible under/over/next to/on top of the monitor and inclined or angled towards the listener*. The front speakers are positioned, or wall-mounted, at equal distances to the right and left of the monitor/listening position. Attachment at ear height is optimal, but anything in the range between 0.80 and 1.60 metres is completely acceptable. If the values are outside the recommended range, you can slightly tilt the front speaker.

You can put the subwoofer anywhere you wish; it does not affect the other speakers. Often the best position is within the straight line created by the two front satellite speakers. The rear speakers should be behind or next to the listening position—ideally at the same height or higher (max. 2.10 metres). We do not recommend placing them lower.

Example arrangement of a Concept E set as a PC sound system

Non-optimum positioning due to different distances and heights can be offset by configuring the software for the sound card or decoder station.

Place the front and rear speakers in the grey area.



Set-up: Home cinema system

Setting up a home cinema system

When using the Teufel set as a home cinema system we recommended focussing on the section of the room where the TV and seats are positioned. It is useful to position the monitor as centrally as possible, from the perspective of the viewer/listener.

Because the centre plays back spoken dialogue, this speaker must be positioned as centrally as possible under or over the TV and inclined or angled towards the listener. You can use the base (supplied) for this purpose.

* The front speakers are set up in the traditional stereo position (distance to listener = distance between the left and right speaker), at the same distance, or wall-mounted, to the left and right of the TV. The »M 50 P« bases are ideal for this purpose, as are the »Shortlock« wall brackets. Using the base automatically guarantees optimum playback height for satellite speakers. The Shortlock brackets allow horizontal and vertical alignment to the listener.

The following applies to wall or shelf placement: the set-up heights should be between 40 centimetres and 1.20 metres. If you are unable to observe these distances, you can tilt the front speaker slightly towards the listener. It is important that the centre and main speakers are placed in an even arc, possibly slightly curved towards the TV.

You can put the subwoofer anywhere you wish; it does not affect the other speakers. The ideal position is within the straight line created by the two front satellites.

The two rear speakers should be set up to the left and right, either to the side or behind the listener – ideally at a height of no more than 2.10 metres, e.g. on a shelf or directly on the wall using the »Shortlock« wall mount. The speakers can be set up at the same height as the front speakers using the M 50 P bases; but we advise you not to locate them lower.

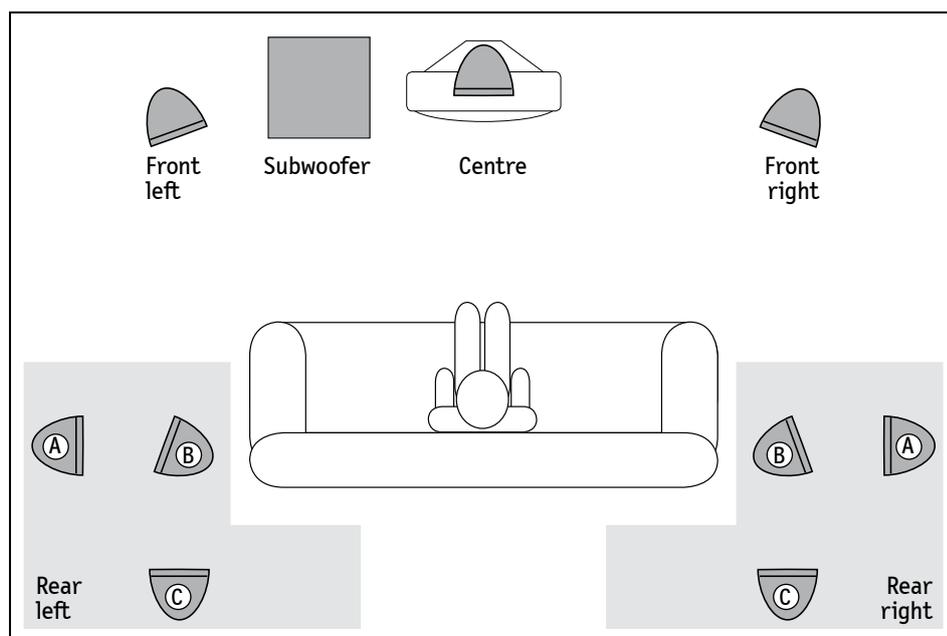
The optimum positioning is left and right from the listener (A) at around 20 degrees from the parallel. We recommend that the distance between the rear speakers and the listening location is more than 1.00 m. But if you (have to) sit closer, please ensure that the front of the speaker is not pointing directly at you but rather angle the speakers more towards the wall (B). Or create a greater distance by positioning the speakers higher than 1.20m (this can also be on the ceiling) or further away (C).

* Concept E 100/200/300/400

Because the satellite speakers are identical, you can position them any way you like and »designate« one of the five as the centre speaker.

* Concept E 300/400

We often recommend positioning the speakers in a diagonal set-up on a differently sized base, and using the cloth cover with the Teufel logo on the side, also supplied.



Example arrangement of Concept E for use as a home cinema

You can configure the settings on the speaker management system to compensate for non-optimum positioning due to differences in height and distance.

Please position the rear speakers within the grey area.

Connection: Satellites

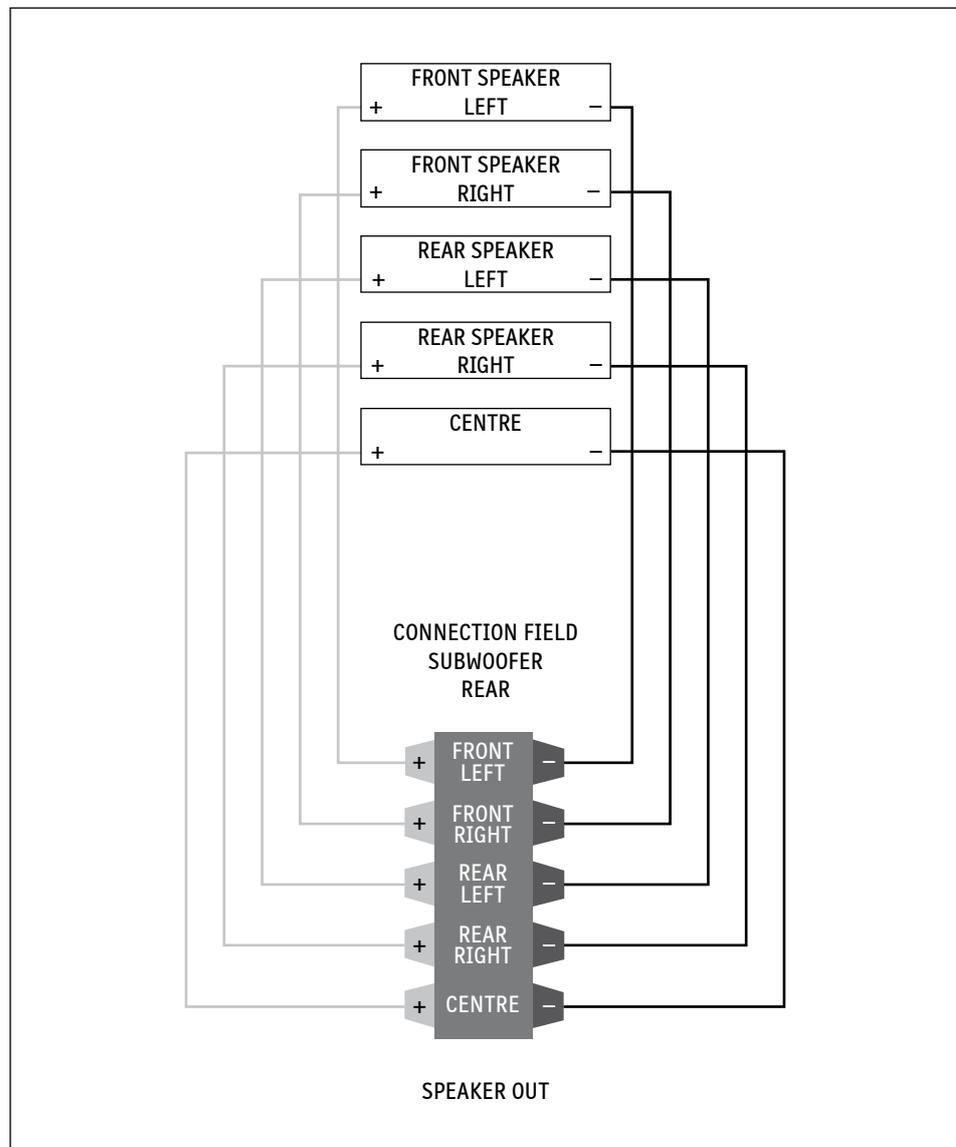
Connecting the satellites



To do this, cut the cable to the required lengths. Strip the plastic coating from the ends of the speaker cables (as shown). The speakers and amplifier have corresponding [+] and [-] terminals. The [+] cable of the speaker cable is marked accordingly. It is important to observe the correct polarity when connecting the speakers: the plus pole of the speaker connects to the plus pole of the amplifier and the minus pole of the speaker to the minus pole of the amplifier. Connecting

the cables with the incorrect phases can result in thin sound, weak bass and reduced stereo characteristics. For multichannel surround systems, too, it is important that all speakers are connected with the correct polarity in order to ensure an appropriate three-dimensional atmosphere and the correct alignment of the sound.

Connect the speakers to the appropriately marked clamp connections on the rear of the subwoofer; i.e. the front-left speaker to FL and the rear-left speaker to RL, and so on.



Connection: 5.1 sound card

Connecting to a 5.1 sound card

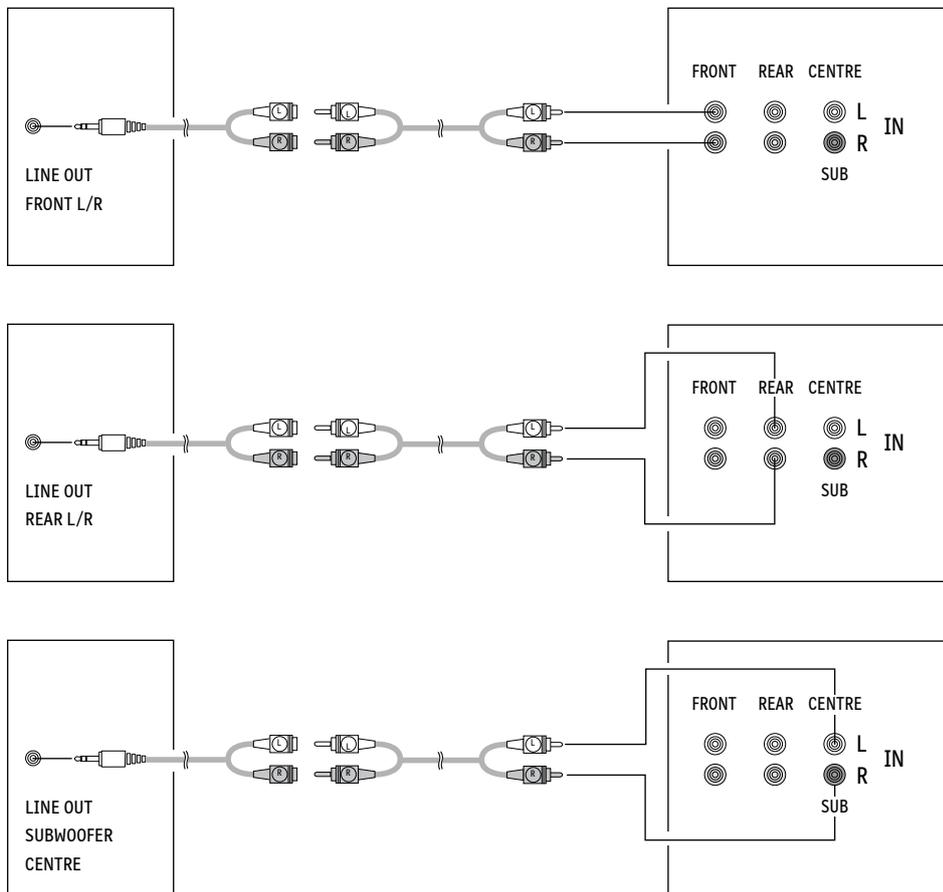
The Concept E 100/200/300/400 systems are perfect for using with any computer. If your sound card is set up for 5.1 operation, it will usually have three 3.5mm mini-jack outputs. Connect these to the inputs using three cables (3.5 mm stereo mini-jacks to 2 x cinch) for the front R/L, rear R/L, centre and subwoofer positioned on the back of the Concept

E subwoofer. The colours of the outputs and the types of signals transferred at each output differ from sound card to sound card.

Please refer to the sound card manual. The Teufel system then reproduces the surround signal decoded by the sound card.

5.1 SOUND CARD

SUBWOOFER CONCEPT E



Example connection of a 5.1 sound card

Note

If you are using a 7.1 sound card, the outputs for the centre rear channels are not used.

Connection: DVD player/recorder · Decoder station

Connection to a DVD player/recorder

As well as being connected directly to your PC, the Concept E 100/200/300/400 can also be connected straight to a DVD player/recorder. It allows you to create a complete home cinema sound system with just two audio appliances! To control the set directly via a DVD player, the player/recorder must have an integrated Dolby Digital/DTS decoder. This type of equipment can often be recognised by the fact that the DVD player has an analogue 5.1 cinch output at the back (6 cinch jacks for front R/L, rear R/L, cen-

tre and subwoofer). The DVD player/recorder is connected directly to the subwoofer with three stereo cinch cables, from the 5.1 cinch outputs of the DVD player to the 5.1 cinch inputs of the subwoofer.

Connecting the speakers to a Decoderstation

The speakers are connected to a Decoderstation in the same way as they are connected to a DVD player. Please refer to the Decoderstation manual.

DVD player settings are described in detail on page 15.

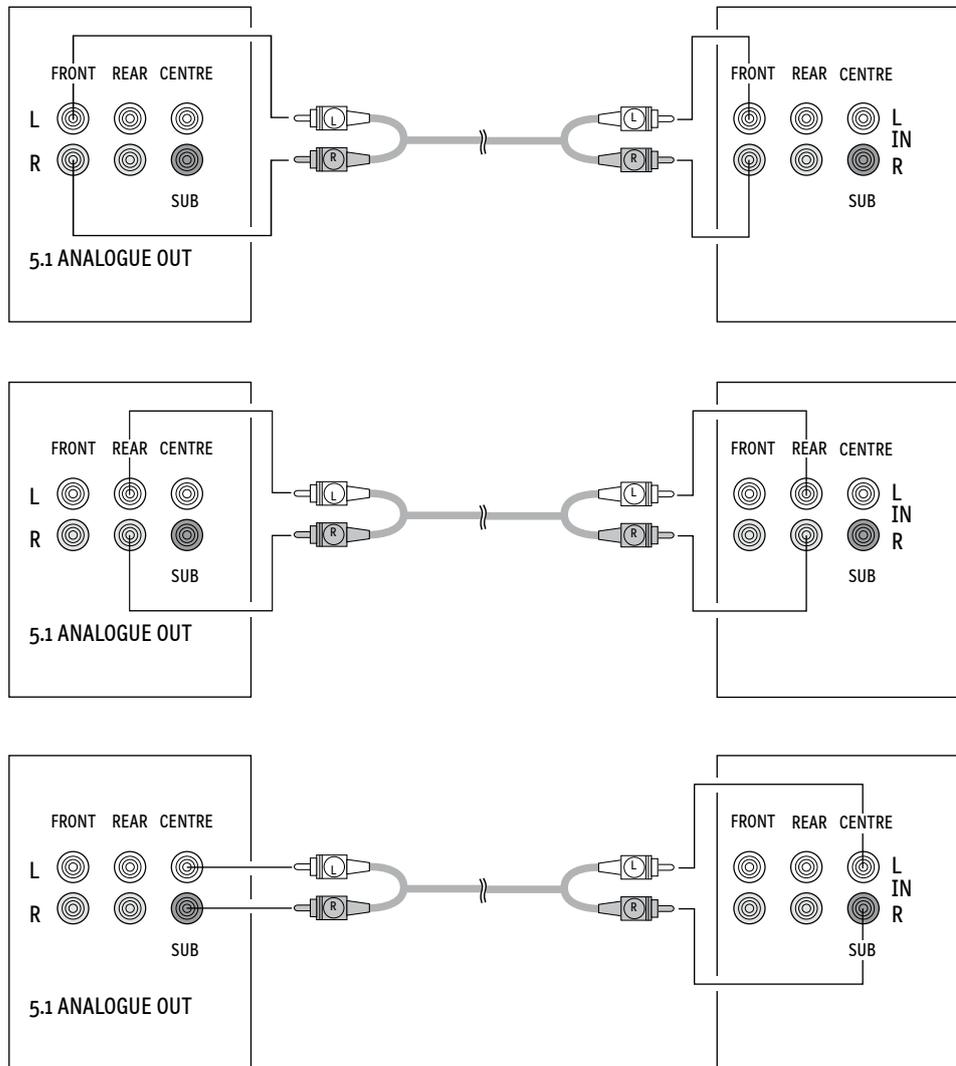
Connecting the Concept E to a DVD player/recorder without 5.1 analogue outputs

Even if your DVD player/recorder does not have a decoder or six analogue cinch outputs, you can still use the Concept E successfully.

Connect the stereo output of your appliance using a stereo cinch cable with the front input "In R/L" on the subwoofer. The front loudspeakers are responsible for stereo signal reproduction. The centre generates an addition of the right and left channel of the stereo signal. The rear loudspeaker is responsible for the subtraction of the right and left stereo signal. This means that if the right and left signal are identical, the rear loudspeaker will reproduce little to no signal at all. The subwoofer transmits the bass signals from the left and right channel. This admittedly does not sound as perfect as Dolby Digital, but does sound better than pure stereo reproduction. You will also be able to use your speakers using an AV receiver/amplifier or Teufel decoder later, allowing you to experience the pleasure of Dolby Digital and DTS.

DVD PLAYER/RECORDER

SUBWOOFER CONCEPT E



Connection: Stereo sources

Connection to stereo sources

Stereo sound card, notebook, MP3 player, satellite receiver, TV set, games console, CD player, DJ mixer, Discman, Walkman, etc ...

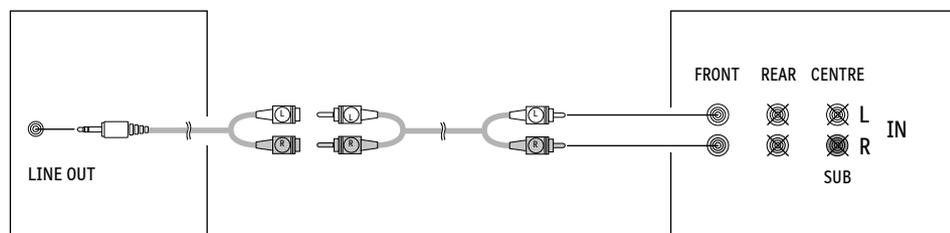
You can see just how versatile the Concept E series speakers are. The speaker system can be operated successfully with any of the above appliances. And not just in stereo, but also with virtual surround sound, using the integrated "upmix" function that involves all six of the Concept E speakers. This admittedly does not sound as perfect as Dolby Digital, but does sound better than pure stereo reproduction.

Here's how it works:

Connect the stereo output of your appliance to the front left/right inputs on the rear connector panel of the subwoofer. It is possible to use a 3.5mm mini-jack to stereo cinch adapter. All five satellite boxes are connected to the subwoofer via the speaker cable.

The amplifier now produces a mixed signal for all speakers. The front loudspeakers are responsible for stereo signal reproduction. The centre generates an addition of the right and left channel of the stereo signal. The rear loudspeaker is responsible for the subtraction of the right and left stereo signal. This means that if the right and left stereo signal are identical, the rear loudspeaker will reproduce little to no signal at all. The subwoofer transmits the bass signals from the left and right channel.

NOTEBOOK
MP3 PLAYER
DISCMAN
WALKMAN
STEREO SOUND CARD



SUBWOOFER CONCEPT E

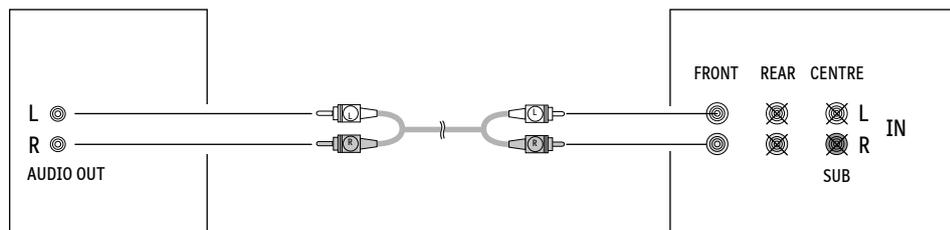
Notebook/laptop

For 5.1 reproduction you usually need an external sound card with six analogue outputs. Different companies offer solutions for connection to the PCMCIA port or via USB or FireWire. If your notebook already has three analogue mini-jack outputs, please proceed as described in the section »Connecting to a 5.1 sound card«.

Please note

There should be no more plugs in the other sockets on the subwoofer (in centre, subwoofer, rear R/L)!

SAT RECEIVER
TV
GAMES CONSOLE
CD PLAYER
DJ MIXER



SUBWOOFER CONCEPT E

Please note

There should be no more plugs in the other sockets on the subwoofer (in centre, subwoofer, rear R/L)!

Connection: AV receiver

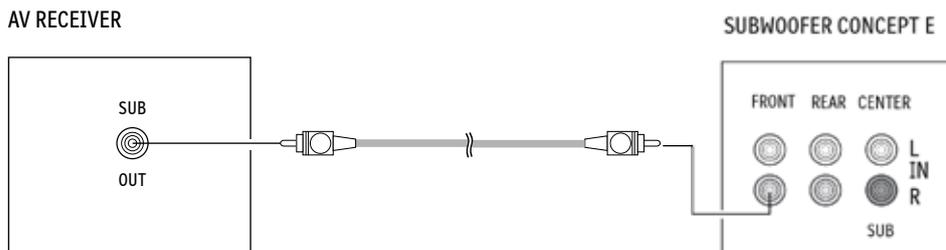
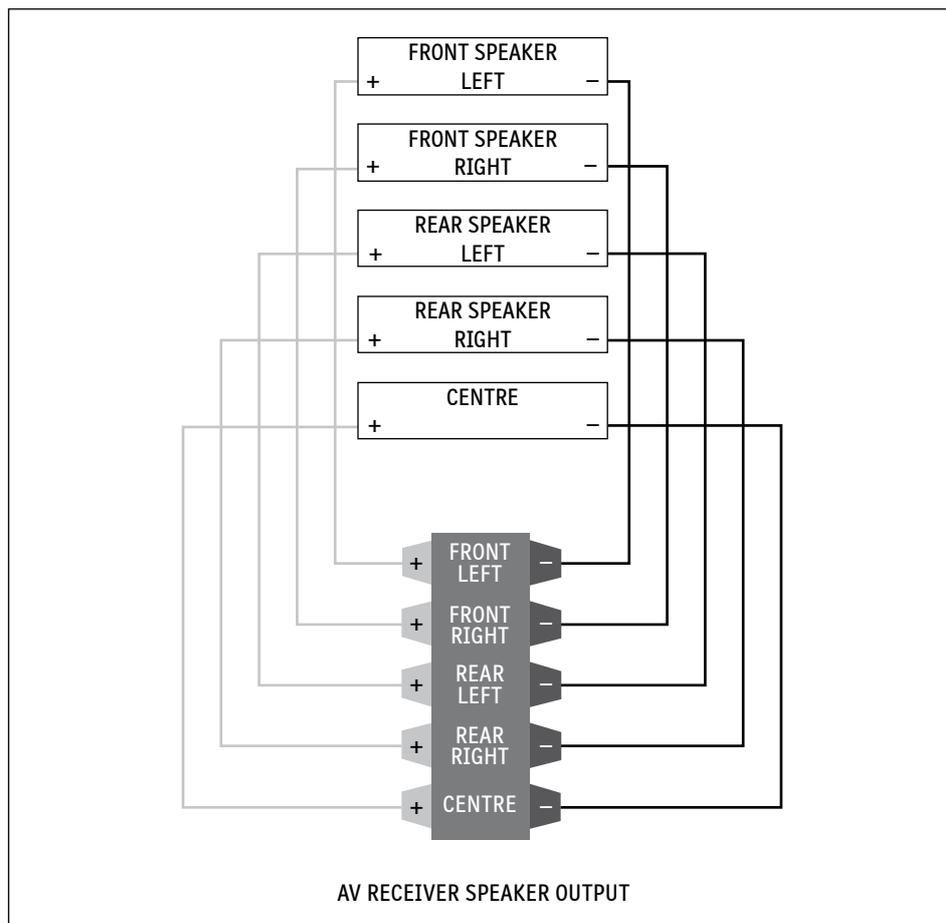
Connection to an AV receiver

The variety of uses for the Concept E includes connection to an AV receiver. Although designed to be fully active, the set is partially active in conjunction with an AV receiver. You can connect the Concept E 100/200/300/400 speakers as you would a normal speaker system: the five satellites are connected via speaker cables to the corresponding speaker outputs on the AV receiver: front R/L, rear R/L and centre; the subwoofer is

connected via a mono-cinch cable to the sub-out output on the AV receiver.

If the AV receiver has preamplifier outputs for all channels (front R/L, rear R/L, centre and subwoofer), the Concept E set can also be connected to the subwoofer via three cinch cable pairs, and the satellites can be connected to the subwoofer via speaker cables. However, we recommend using the first version.

AV receiver settings are described in detail on page 15.



Set-up: DVD player · Receiver · Decoderstation

Adjustment to the DVD player with 5.1 analogue output

The Concept E 100/200/300/400 set has no integrated decoder functions. Therefore it is »dependent« on the allocation of the external decoders when splitting the signals. This decoder is a component of the DVD player software. Its set-up options differ greatly from device to device. Please consult the handbook for your DVD player.



Setting at the AV receiver

If the Concept E set is connected to an AV receiver, the way the speakers function will depend on the AV receiver settings. The full complement of speakers will emit sound only when the decoder on the receiver assigns the signals correctly. This is because the Concept E itself has no built-in decoder function. The set-up options for the AV receiver differ greatly from appliance to appliance. Please consult the handbook for your AV receiver.



The following basic settings should always be made:

- ▶ Our front/centre/rear speakers should be defined in the speaker set-up menu (speaker management/bass management) of the DVD player as »small« or »normal« - not »large«!
- ▶ Set the subwoofer to »on« or »yes« on the speaker set-up menu.
- ▶ The optimum cut-off frequency is 150Hz–120Hz or 200Hz is also possible.

The following basic settings should always be made:

- ▶ Our front/centre/rear speakers should be defined in the speaker set-up menu (speaker management/bass management) of the AV receiver as »small« or »normal« (not »large«!).
- ▶ Set the subwoofer to »on« or »yes« on the speaker set-up menu.
- ▶ The optimum cut-off frequency is 150Hz–120Hz or 200Hz is also possible.

Decoderstation settings

Please observe the detailed description in the Teufel Decoderstation manual or consult the support section on our website: www.teufel.eu.



Operating elements: Subwoofer

Explanation of symbols



The arrow-headed lightning symbol in an equilateral triangle indicates the presence of a dangerous non-insulated 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.



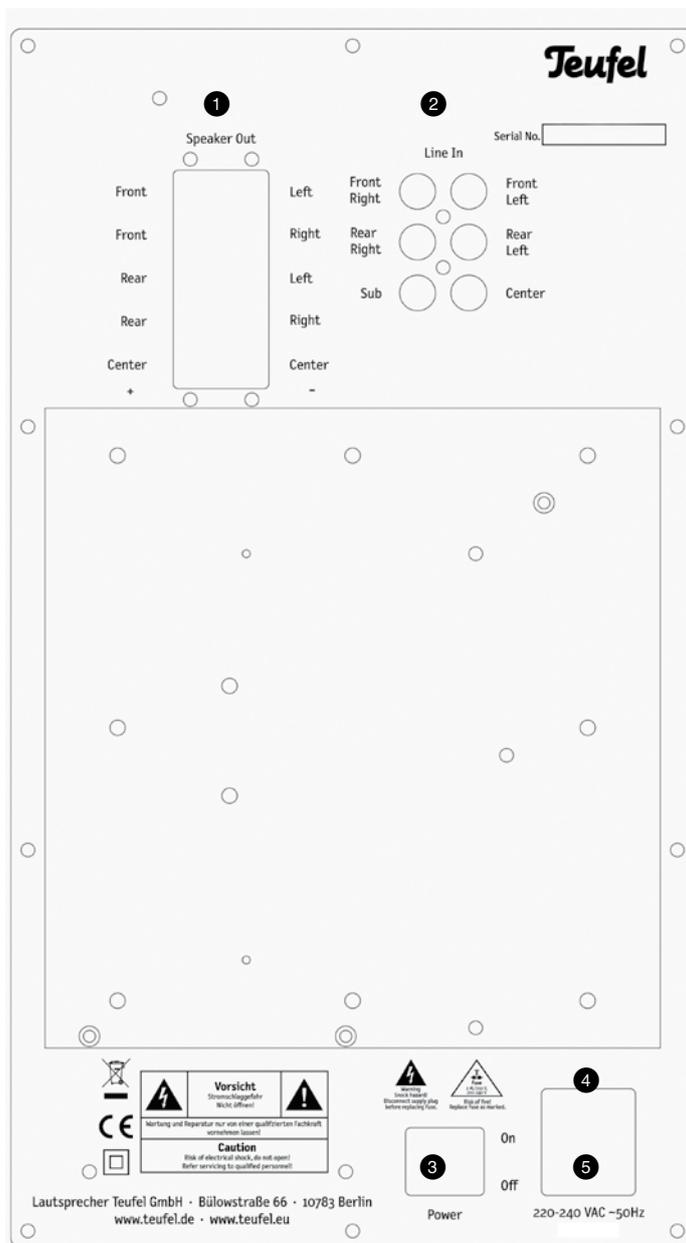
This product complies with European Community guidelines 2004/108/EC and 2006/95/EC



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 is a safety class II product in accordance with DIN standard EN 61140 (VDE 0140-1) and IEC 60417 and does not require a safety plug, only the plug supplied (2-pole). The casing has reinforced or double insulation against electric shock.



1 Speaker Out

Clamp the speaker cable from the five satellites here.

2 Line In

Connect the cinch cable from the playback device (sound card/DVD player/receiver) or control device (Decoderstation).

3 Power – power supply

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

4 Cold appliance socket

The power cable is connected here.

5 Fuse

You can change the fuse here. The fuse should only be changed for one of equivalent type. You MUST disconnect the mains cable from the power supply before changing the fuse!

Attention:

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

Start-up

Start-up

Switch the rear mains switch ③ to »On« to activate the 5.1 amplifier.



The ring encircling the round »Standby« button on the front of the woofer lights up »red«.



Press the »Standby« button to switch on the device fully – the rings encircling each of the three control elements turn »blue« indicating the subwoofer is now ready for use.



The 5.1 amplifier switches automatically to standby mode if it does not receive an audio signal for approximately 20 minutes.



Volume

Turn the »Volume« dial to control the overall volume of the 5.1 amplifier.



Please note that each of the upstream source devices, i.e. the sound card or DVD player, or the intermediary connection boxes like the decoder station itself, has its own volume control. You will have to find a balance between these devices and the Concept E system, which is an easy thing to do.

Bass volume

The Concept E subwoofer has a separate button for quickly and easily controlling the bass tones of the overall sound.



The same applies here: each of the upstream source devices, i.e. the sound card or DVD player, or the intermediary connection boxes like the decoder station itself, has its own bass control. It is possible to find an individual balance between these devices. Feel free to experiment and find the configuration that works best for you.

Please note

If you are going to be away or if the 5.1 amplifier is not going to be used for a long period of time turn the mains switch ③ to »Off«.

»The subwoofer is buzzing«

The Concept E 100/200/300/400 has a powerful transformer and a generously proportioned power pack that make its high output performance possible. These components can produce a very quiet, unobtrusive buzzing sound that can be detected a short distance from the side of the subwoofer in quiet rooms in the absence of a signal. During operation this minimal buzzing will disappear as it is masked by the sound output.

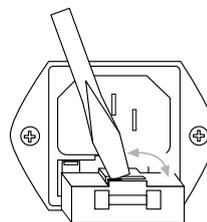
On the other hand, if the buzzing can clearly be heard from a distance of more than a metre and/or can also be heard from the satellites, there is possibly a fault – assuming the subwoofer is not touching other appliances. In some cases, it could come from connection to other appliances, through equalising currents that are caused by different casing potentials or similar. Please read the following instructions for a solution to the case above:

1. The subwoofer is connected to a different power circuit from the rest of the equipment. Ensure that all linked appliances (including the PC if connected) are connected to a single power circuit or plug.
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 interference stops, you need a sheath current filter (available for around 5–10 euro from electronics retailers). Insert the filter between the aerial socket and the TV or receiver.
3. A mains filter that can be bought separately, to which all appliances must be connected, may be useful in eliminating the buzzing. Please ensure you have the right to return the filter if it fails to yield positive results.
4. In some cases a multi-socket extension has been shown to cause the buzzing. To test this, disconnect the plug strip and plug the subwoofer's mains plug directly into a wall socket.
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. To narrow down the source of the buzzing, plug the subwoofer in to the power socket in

another room (e.g. using an extension lead) and check if the buzzing can still be heard. You should also try disconnecting the cinch connection between the subwoofer and the PC/DVD player/receiver in order to cross off interference by other connected components.

7. It can be useful to create an additional earth by fixing a cable (e.g. speaker cable) to the metal screw of the power amplifier and fixing the other cable end e.g. to the heating pipe or PC casing.

»There is no sound – neither from the satellites nor the subwoofer«



Please check to see if the LEDs on the front of the subwoofer display are illuminated; if not, change the fuse. The main fuse on the subwoofer might have blown as a result of a power surge. The fuse compartment on the Concept E subwoofer is underneath the IEC power connector (see illustration on page 16, item 5). Always disconnect the subwoofer from the mains supply before replacing the fuse! Use a small screwdriver to open the lid, replace both fuses and return the fuse holder to the fuse compartment. The subwoofer should now be ready for use again.

»There is no sound from one of the satellites, or the sound is distorted – all of the other satellites are working«

In order to pinpoint the defect more specifically, please swap the non-functioning satellite for a functioning satellite in order to determine whether the defect is in the satellite or the subwoofer. If the non-functioning satellite now plays on a different subwoofer channel, the fault is probably with the subwoofer electronics. If the satellite fails to play on a different channel, the satellite itself is faulty.

»There is no sound from the subwoofer – all of the other satellites are working«

You can check the function of the subwoofer by connecting the subwoofer cinch input on the subwoofer only to the output from one of the front channels L/R front on the sound card or a device such as a portable CD player. If the subwoofer now

plays, it could not have been getting the correct signal before. Either the cinch cable is faulty or the subwoofer output of your source device is not generating a signal.

Alternatively, set the subwoofer volume to »Min«, remove the subwoofer cinch cable from the PC/DVD player/AV receiver, increase the volume carefully and touch the inner cinch thermistor with your finger. If you can hear buzzing or crackling, there is an error in the PC/DVD player/AV receiver or its settings. If the subwoofer stays silent, please read the following frequently asked questions carefully.

»The subwoofer does not work when connected to stereo sources, e.g. audio CDs (on PC/DVD player)«

The Concept E is purely a replay system – it does not have a built-in decoder function. Therefore it is »dependent« on the allocation of the external decoders when splitting the signals. This decoder is a component of the sound card, DVD player or decoder station software. If the signal only plays on two satellites in stereo mode, for example, the correct allocation in the software of the sound card/DVD/decoder station player is either not possible or not correctly set.

The Concept E is »not to blame« – it only plays back the signals it receives. Therefore, correct allocation in the software of the sound card/DVD player is essential. Please contact the support department of the sound card/DVD player manufacturer.

»The rear satellites and/or centre will not play with stereo sources e.g. audio CDs (on PC or DVD player)«

The Concept E itself is only a sound reproduction system – it does not have a built-in decoder function. Therefore it is »dependent« on the allocation of the external decoders when splitting the signals. This decoder is a component of the sound card, DVD player or decoder station software. If the signal only plays on two satellites in stereo mode, for example, the correct allocation in the software of the sound card/DVD player is either not possible or not correctly set.

The Concept E is »not to blame« – it only plays back the signals it receives. Therefore, correct allocation in the software of the sound card/DVD player is essential. Please contact the support department of the sound card/DVD player manufacturer.

»I'm receiving radio/interference signals«

In rare cases it may be possible to receive radio/interference frequencies; this depends on the local environment. Please remove all cinch cables from the subwoofer and check whether the interference still occurs. We recommend trying out shorter, higher quality, shielded cinch connection cables.

»The satellites crackle«

Please disconnect the Teufel speaker system from your PC or other connected devices by disconnecting the cable connection and check whether the »crackling« stops. Try operating the set with a different power source/in a different room (just use an extension cable). If you can still hear the crackling, please check which satellite is affected by swapping them over and finding out whether it is the satellite or the subwoofer electronics that are generating the excessive crackling. If the fault »moves« with the satellite, the satellite is affected. On the other hand, if the crackling is still on the same channel, the subwoofer amplifier electronics are responsible.

»The satellites hiss«

In principle the Concept E is a very low-noise system. In the high range area, very good-quality high-resolution speaker systems can expose the defective quality of a signal source (e.g. from MP3 files or analogue cassette recordings) that is hardly noticeable on lower quality speakers.

You can check the basic noise level by connecting an output signal (via a cinch cable) from an external source that is guaranteed to be good quality – such as a music CD on a portable CD player – to the front L/R input on the subwoofer. If all of the satellites are now playing noise-free, then they were not getting the correct signal before. Either the cinch cable is defective (try swapping them) or the output of your source appliance is not producing a sufficient signal.

However, if you continue to hear increased noise on this channel there is possibly a fault in the Concept E. Check which of the speakers might be faulty by swapping them around; this will also help find out if the satellite or the subwoofer electronics are generating the hissing sound. If the fault »moves« with the satellite, the satellite is affected. On the other hand, if the noise remains on the same channel, the subwoofer amplifier electronics are responsible.

»There is a loud crack or noise when I switch the PC on or off.«

The speaker system reproduces any kind of acoustic signal that it receives from the signal source. It cannot differentiate between useful and disruptive signals. When the PC's sound card transfers the on/off impulses to the box set, the speakers will play it back. These will not usually damage your speakers. Nevertheless, we recommend minimising the volume via the PC's software before switching off, in order to limit these strong impulses.

Basic function test

You can check the function of the subwoofer and the satellites by only connecting the (stereo) signal from an external source that is guaranteed to be good quality – such as a music CD played on a (portable) CD player – via a cinch cable (and possibly a Y adapter) with the front input L/R on the subwoofer.

The other four inputs on the subwoofer do not need to be occupied (= cinch cable disconnected). With this connection plug arrangement of front in L/R, the Concept E amplifier activates all satellites and the subwoofer through internal distribution.

If the subwoofer and all five satellites are now working when connected directly to a CD player, this means the Concept E was not receiving the correct signal before.

Either the cinch cable is defective (try exchanging it) or the output of your source appliance is not producing the correct signal.

If you continue to experience unwanted noise/individual malfunctions, there is possibly a defect in the Teufel system.

Teufel

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

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