



Concept S

5.1 home cinema set with active subwoofer

Teufel

For your information

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Version 2.6
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Original packaging

If you intend taking advantage of your eight week right of return, we ask you to retain the original packaging. We can only accept returned speakers **IN THE ORIGINAL PACKAGING!**
Empty boxes are not available.

Technical data

Technical data can be found in the product description on our website at:
www.teufelaudio.com

Complaints

If you have a complaint, it is essential that you provide the following information so that we can respond:

1. Invoice number

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

Found on the back of the appliance, e.g. batch no.:
MO 04007480121A

Thank you for your support.

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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Safety information

Please read the following safety information carefully.

Risk of suffocation – keep packaging materials (e.g. the plastic film) out of the reach and sight of children.

Risk of electrocution – do not leave children unsupervised with electrical appliances!

In case of emergency:

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

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

We cannot accept any responsibility for incidences that occur because safety information has not been adhered to.

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.

Important: Please read the operating instructions. You should also follow all instructions for start-up and ongoing use.

Information on cleaning: Please do not attempt to clean the appliance using household chemicals because they could damage its surface. Simply use a dry cloth. Disconnect the appliance from the mains before cleaning.

Caution - moisture and sunlight: Never operate the appliance in damp rooms, i.e. close to baths, showers, wash basins, drains, damp cellars or swimming pools; never use it where there is moisture. Never expose the speakers to high air humidity and avoid direct sunlight.

Information on location: Do not use the appliance unsecured in vehicles, in unstable places, on wobbly tripods or furniture or supports that are too small. The speakers could fall and cause damage to people, including yourself. Speakers, particularly if positioned on stands or on the TV/monitor, may fall and cause damage due to their weight, even if they have been positioned securely and stably, as a result of external influences (pulling on the cable, tripping over the cable, 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. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

For ventilation: Slits and openings in the case have been 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, including by 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 must only be supplied from 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 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 adhered to. Use only an appropriate mains plug for receiving the mains cable.

Information on wiring: Please place the supply cable flat and flush to the wall and floor. Cables that are laid loosely represent a risk of tripping. This could also result in interference and cause the sound to be disrupted. The electricity 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 that connect 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 defective cable must be replaced.

During periods without use: Remove the subwoofer's power supply cable from the socket for longer periods of absence or non-use.

During thunderstorms: In order to avoid damage caused by lightning strikes, the appliance should be switched off and also detached from the mains socket as soon as a thunderstorm is expected.

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: Foreign bodies and liquids must not get into the appliance via its openings under any circumstances, 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 appliance. 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 appliance must be sent to our service department's address.

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.

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 changed for one of the same type.

Information on volume: Loud noises can damage hearing. Sudden high 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 appliance 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. 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.

Introduction Concept S

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 carefully. We recommend the Concept S for providing sound in rooms up to 30 m² 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 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 continuing volume.

Before operation please read these instructions carefully and store them in a safe place for future reference. If you have any further questions, please contact our engineers on ph. 00800 200 300 40 or use the email contact form on our website www.teufelaudio.com 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 15 of these operating instructions and visit our website (www.teufelaudio.com) where you will find answers to many questions in "FAQ/Support":

Please refer to our safety information on page 4 of these operating instructions and only use the speakers once you have read the safety information.



Teufel

Unpacking · Contents

Please check in advance 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.

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 Concept S is supplied as a complete system in 3 different versions that only differ in the number and type of the 5 surround sound speakers:

Contents

Concept S Set 1

- ▶ 1 x Concept S subwoofer
- ▶ 1 x subwoofer remote control incl. batteries
- ▶ 1 x Concept S FCR satellite
- ▶ 1 x Concept S FCR bracket
- ▶ 4 x Concept S FR column speakers
- ▶ 1 x mains power cable

Concept S Set 3

- ▶ 1 x Concept S subwoofer
- ▶ 1 x subwoofer remote control incl. batteries
- ▶ 3 x Concept S FCR satellite
- ▶ 1 x Concept S FCR bracket
- ▶ 2 x Concept S FR column speakers
- ▶ 1 x mains power cable

Concept S Set 5

- ▶ 1 x Concept S subwoofer
- ▶ 1 x subwoofer remote control incl. batteries
- ▶ 5 x Concept S FCR satellites
- ▶ 1 x Concept S FCR bracket
- ▶ 1 x mains power cable

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.

Information:
The five passive speakers in the set – no matter whether they are the satellite FCRs or column FRs – are equipped with the same speaker chassis and are technically identical; the column speakers simply have an integrated base that can be ignored acoustically.

The speakers can be used in the front, centre or rear depending on the room requirements. We do however recommend that they are used in pairs – for example both column speakers TOGETHER either for front OR rear sound.



◀ Concept S Subwoofer



◀ Concept S FCR satellite

◀ Concept S FR column speaker



◀ Remote control



◀ Concept S FCR bracket



◀ Mains power cable

Accessories

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

Optional accessories for the Concept S

You will find a summary of the relevant accessories for your Concept S here:

Teufel speaker cable, 2 x 2.5 mm²



Highly flexible copper wire (650 strands) with transparent cover 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 double screening from interference from external sources. Stable,

gold-plated plugs ensure reliable contact. The cable is available in various lengths from 2.5 to 15 metres: so the subwoofer really can go anywhere.

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.

Expansion

The Concept S is preconfigured and ready to play as a 5.1 configuration set. Such a set plays back all sound tracks contained on DVDs and provides an excellent home cinema experience. It is suited to connecting to all common AV receivers – no matter whether they are designed as 5.1, 6.1 or 7.1 systems.

Expansion options for the 6.1/7.1 AV receiver

If you want to expand the 5.1 set you can buy additional satellites:

Satellite FCR



Customers can use these individually available satellites to upgrade the complete 5.1 set in their Concept S theatre to a 6.1 or 7.1 system so that they can utilise the full performance of a 6.1/7.1 receiver.

All optional accessories can easily be ordered as required, e.g. from the accessories area on our website: www.teufelaudio.com

Column speaker FR



If you prefer column speakers, you can use this pair of column speakers to expand a 5.1 complete set for use on a 7.1 system. They are available exclusively IN PAIRS. Owners of 6.1 receivers are therefore advised to purchase a single Concept S satellite FCR.

Setting up the 5.1 configuration

General information on configuration

It is easy to integrate the Teufel Concept S harmoniously into your living room thanks to its clear design lines 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 furniture may not always permit such ideal placement. 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

As the centre plays back all voice information, including the actors' dialogues, the centre speaker satellite FCR must be as central as possible to the listening position or located above the TV/screen so that the sound and image make up a harmonious unit.

For this the centre can be set up on the cradle supplied or fixed directly to the wall using the appropriate screws/rawlplugs.

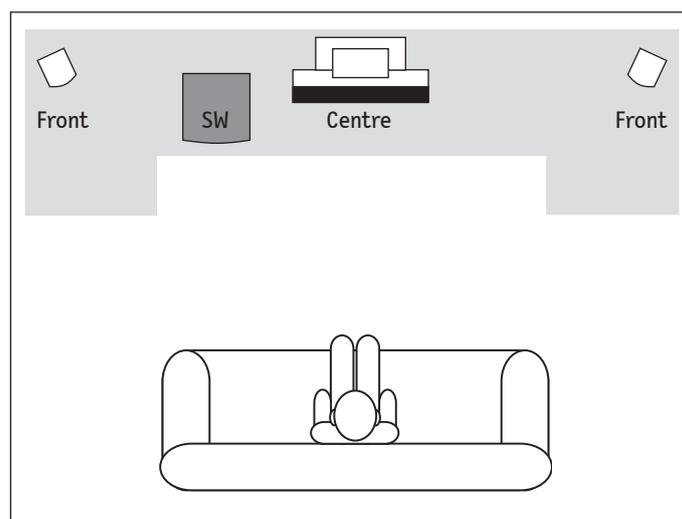
Front

Using the old stereo tradition (distance to listener = distance between the left and right speaker), the front speakers are set up next to the TV/screen at the same distance to left and right (Concept S column speaker FR) or fixed to the wall (Concept S satellite FCR).

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

The following applies if the satellite FCR speakers are fixed to the wall or placed on shelves: select a set-up height of between 40 centimetres and 1.20 metres (lower edge). It is important that the centre and front speakers are approximately in a line, or possibly even on a slight arc to the TV. Otherwise the homogeneity of the playback may vary with run time differences. 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

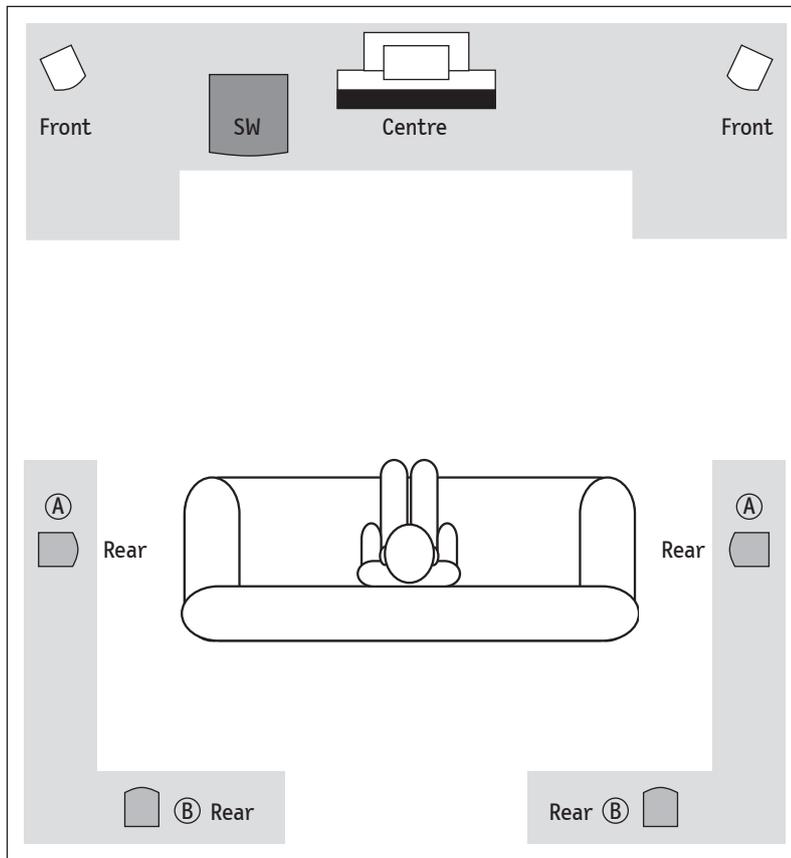
Subwoofer

The location of a subwoofer with a recommended cut-off frequency of 140 Hz can be freely selected and does not affect the other speakers. Placement within 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 also 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 appliance and users.

Rear

The rear speakers should be set up to the left and right either to the side **A** or behind **B** the listening location – ideally at the same height as the front speakers, e.g. on a shelf or directly on the wall. The speakers can be fixed higher than the front speakers (up to 2.10 m); but we advise you not to locate them lower.

We always 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 into the room. Or (when using the FCR satellite) create a greater distance by positioning the speakers higher than 1.20m.



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.

Setting up the 6.1 configuration

If you add an additional Concept S FCR speaker to your 5.1 complete set (refer to Page 7 of these instructions) you can also exploit the complete performance range of a 6.1 AV receiver and therefore install a 6.1 home cinema system.

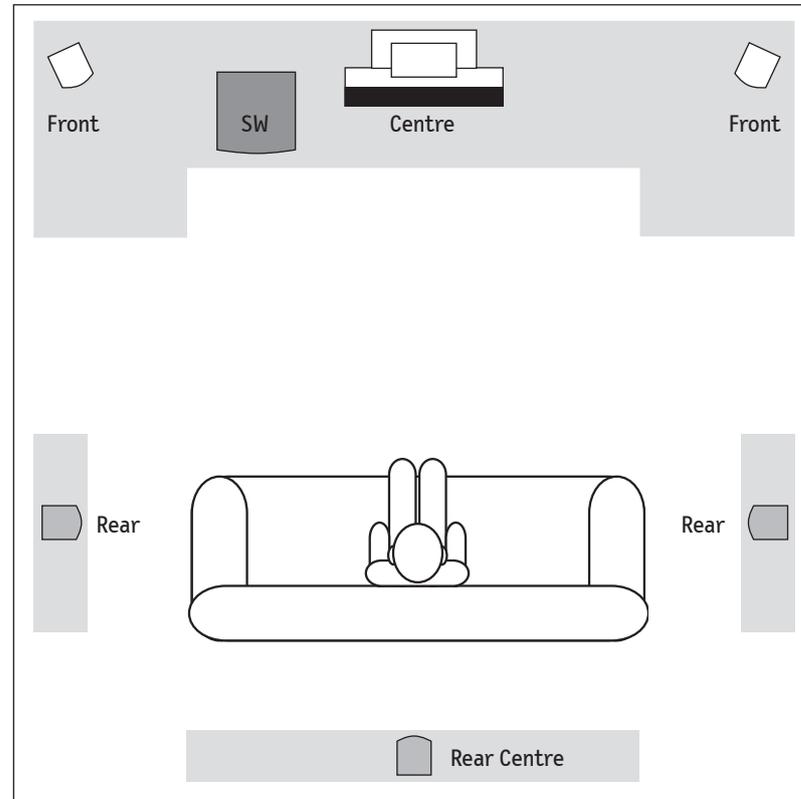
Front • Centre • Subwoofer • Rear (side)

The speakers are set up in the same way as for the 5.1 set. Please read the description in “Setting up the 5.1 configuration” on the previous two pages of these instructions.

Rear Centre

The ideal positioning of a 6.1 system assumes that the rear effect speakers (rear side) are installed on the side walls or next to the listening position. The rear centre, on the other hand, should be installed in the middle at a height of 0.70 to 2.10 metres; ideally at the same distance from both of the rear side speakers. The same height as the rear side speakers would be perfect. If this is not possible, you can balance this asymmetry by entering the distances of the individual speakers in the AV receiver’s loudspeaker management system (speaker setup).

We recommend placing the subwoofer in the front grey area.



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

Setting up the 7.1 configuration

If you add an additional pair of Concept S FCR speakers or Concept S column speakers to your 5.1 complete set (refer to Page 7 of these instructions) you can also exploit the complete performance range of a 7.1 AV receiver and therefore use the Concept S as a 7.1 home cinema system.

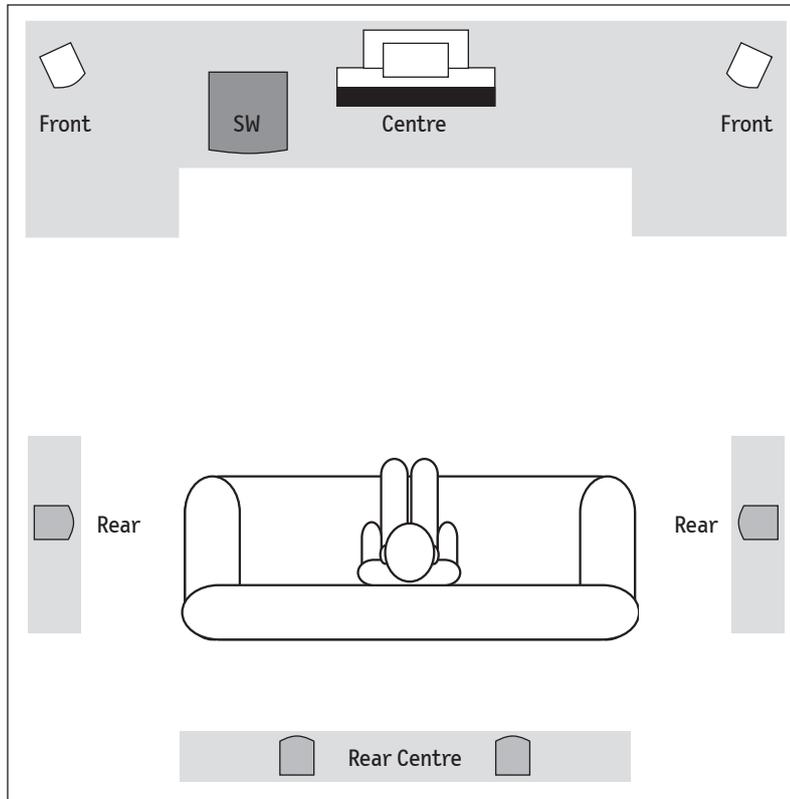
Front • Centre • Subwoofer • Rear (side)

The speakers are set up in the same way as for the 5.1 set. Please read the description in “Setting up the 5.1 configuration” on pages 8 and 9 of these instructions.

Rear Centre

The ideal placement of a 7.1 system assumes that the rear effect speaker (rear side) is fixed to the side wall next to the listening location and the rear centre speakers are on the back wall; always at a height of 0.40–2.10 metres. The same height as the rear side speakers would be perfect. If you use the FCR satellites as the rear centre speakers, you can fix these to the wall horizontally or vertically.

If you visualise the set up graphically and link the four rear speakers with lines you will ideally get a trapezoid with equal length arms. Each arm should be longer than 1.00 metre. As soon as the arms have different lengths or the four rear speakers are set at different heights, you can balance this asymmetry by entering the distances of the individual speakers in the AV receiver’s speaker set-up.



We recommend placing the subwoofer in the front grey area.

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

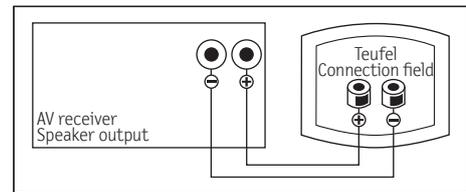
Connection

In the 5.1 configuration (with an active subwoofer), the Concept S can be connected to any normal Dolby Digital/DTS 5.1/6.1/7.1 AV receiver. For a 6.1/7.1 AV receiver you do not use the rear centre socket(s). To get the full performance benefit from 6.1 AV receiver, you will need an additional Concept S FCR satellite (see Page 7).

If you already own a modern 7.1 AV receiver, you can expand your Concept S with two additional FR column speakers or FR satellites to make a 7.1 home cinema set.

Connect the front, centre and rear speakers to a 5.1 AV receiver as shown in the illustration. →**Fig. 1**

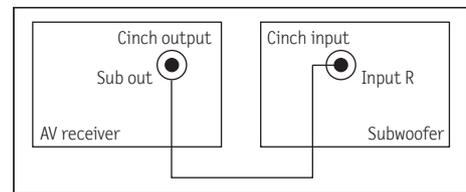
1. Front, centre and rear speakers



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 shown in the illustration. →**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 7).

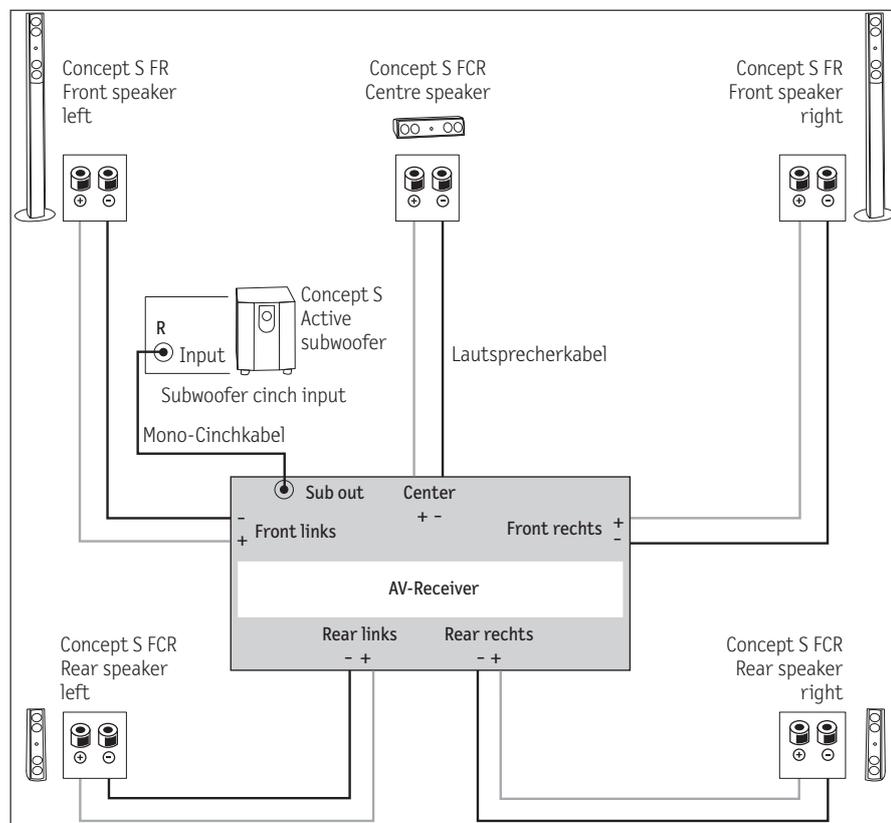
2. Subwoofer



Connecting the speakers to an AV surround receiver; based on 5.1 configuration. A 6.1/7.1 receiver has one or two rear centre socket pair(s).

Information:
The five passive speakers in the set – no matter whether they are the satellite FCRs or column FRs – are equipped with the same speaker chassis and are technically identical; the column speakers simply have an integrated base that can be ignored acoustically.

The speakers can be used in the front, centre or rear depending on the room requirements. We do however recommend that they are used in pairs – for example both column speakers TOGETHER either for front OR rear sound.



Setting up the AV receiver

For your home cinema system Concept S with active subwoofer, select the “small” or “normal” (not “large”) setting in the bass/speaker setup 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. In this set-up, the appropriate cut-off frequency for the Concept S is 140 Hz (120/150 Hz 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 illustration 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 large 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/stand-by 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



Concept S subwoofer front side

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. By pressing the control on the front, 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 power mains switch 6, no operating diodes light on

the screen. If the subwoofer is switched on at the main power switch 6, two small operating diodes light up red on the screen 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 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 instead.

Explanation of symbols



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.



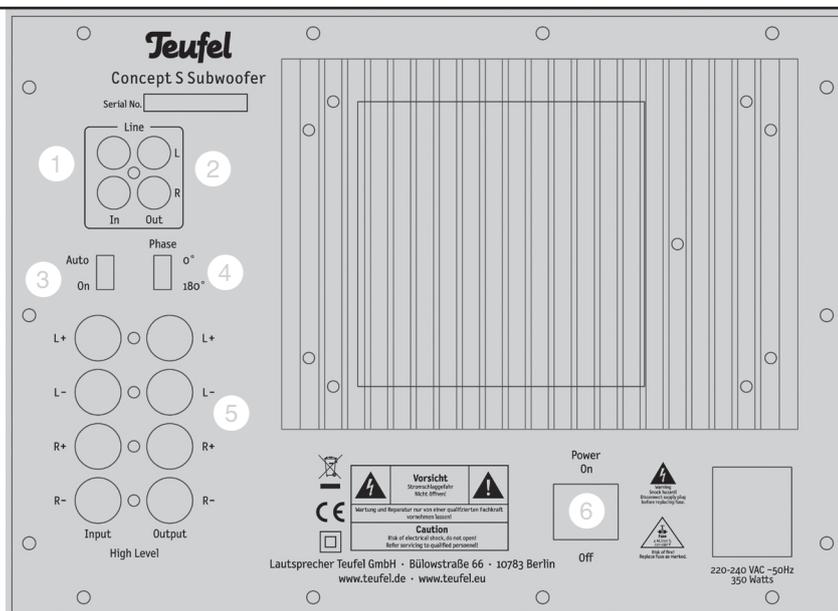
This product complies with European Community guidelines 2004/108/EC and 2006/95/EC



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.



Concept S subwoofer rear side

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.

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 8, 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”.

Attention:

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

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 and only when the subwoofer is completely disconnected from the mains! Nonobservance may cause death or serious injury.

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 appliances 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 to 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 from electronics retailers). It is inserted 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 interference.
4. Occasionally, a multiple plug strip 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 casing 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, the fact that there may be 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 this 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. Avoid using materials that contain alcohol or are abrasive. Remove dust from the membrane very carefully with a dry cloth.

Active subwoofer

Speaker for bass playback, with integrated amplifier. Very deep frequencies can only be played back with a large-volume speaker. To make sure that the front speakers can be kept as compact as possible, a separate subwoofer is used for bass tones. It can be located unobtrusively in the living room: for instance, behind the sofa or under a side table. The cut-off frequency between the front speakers and the subwoofer depends on the components used but is usually between 50 and 120 Hertz.

Auto On/Off function

The Auto On/Off function switches the subwoofer on as soon as a signal is detected and off again a certain time after the last signal was transferred (around 20 minutes).

Centre

Central speaker in the home cinema system. All dialogues are played back via the centre. Therefore, good voice playback capability is essential for the centre.

Cinema Set

All Teufel speaker systems that are supplied with three direct front speakers and dipole effect speakers are also called a Cinema Set. In contrast, five direct speakers are called Concert Sets.

Concert Set

All Teufel speaker systems with five direct satellites are called Concert Sets. In contrast, Cinema Sets have three direct front speakers and a dipole rear speaker.

Dipole

Dipole speakers emit sound in two directions. They are therefore ideal rear speakers for your home cinema because their emission characteristics imitate the speaker arrangement in a commercial cinema. Cinemas always use multiple speakers for the rear channels and their sound is distributed throughout the whole room. Dipoles have been designed to emit sound indirectly into the room (i.e. not locatable), which is different from direct emitters (see below).

Direct emitters

Direct emitters are conventional speakers that transport sound to the listener in a direct line. In the home cinema, direct emitters are used generally to play back the three front channels; in Concert Sets they are also located to the rear.

Dolby Digital/DTS Decoder

Electronic switching to divide up the digital multichannel signals from the DVD into as many as seven individual signals. Dolby Digital and DTS are two different sound formats, so two different decoders are also required. AV receivers, DVD players or corresponding sound cards usually have both decoders.

Frequency/cut-off frequency

This is where you stipulate the frequency used for playing back sounds from the satellites or subwoofer. If, for example, you set a cut-off frequency of 120 Hz, all frequencies above 120 Hz are emitted by the satellites, frequencies under 120 Hz are played by the subwoofer.

Level

The level controller on the subwoofer is used to adjust the volume. For perfect playback, all speaker channels – incl. the subwoofer – should be set such that the signals from the individual speakers can be heard equally loudly at the listening location.

Phase

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. If the subwoofer is located between the front speakers we recommend 0°, for a position close to 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.

Rear speaker

Effects and atmospheric sounds are played back via the rear speakers (either → dipoles or → direct emitters). This gives a greater spatial feel when playing back films and music.

Sub Out

Output on the receiver/amplifier to connect an active subwoofer using a mono-cinch cable.

5.1/7.1 pre out

Pre-amplifier output on the receiver or output on the DVD player. One analogue signal is provided for each channel via cinch connection.

6.1/7.1 technology

Surround sound procedure that, in addition to the left and right rear channel (and the relevant speakers), also uses a centrally played back rear channel. Depending on the sound format, this “rear centre” is embedded in the stereo signals for the left and right rear channel (“matrixed”) and extracted for playback (e.g. for THX® Surround EX, Dolby Digital EX) or transferred as an independent signal. Instead of the dominant 5.1 technology, these are therefore 6.1 sound formats. In practice, it has proven to be beneficial for the sound to allow the rear centre to be played back by two centrally located rear speakers. AV technology equipped with the necessary amplifiers and connections is therefore called “7.1” although it only plays back a 6.1 signal.

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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