



Kompakt 30

5.1 Home Theatre Loudspeaker System with
Active Subwoofer

Teufel

Attention:

We do not provide packaging boxes separately. 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.

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Lautsprecher Teufel GmbH
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Contact

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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

Teufel provides an eight-week right of return with a money-back guarantee.

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.

For further information on returns, please refer to the returns form provided with your shipment (or online at www.teufel.eu in the support section).

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.

Cleaning

Please take note of the following guidelines to protect your Teufel loudspeakers:

- ▶ Avoid placing the speaker cabinets in direct sunlight.
- ▶ Avoid extreme temperature fluctuations and protect your loudspeakers against humidity.
- ▶ When cleaning the speaker cabinets, only use dry or moist cloths. Never use abrasive or alcohol-based cleaning products. If you need to clean a speaker membrane, do so very carefully using a dry cloth.

Technical specifications

All technical specifications are listed on our website at www.teufel.eu

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Introducing the Kompakt 30 system

Dear Lautsprecher Teufel customer,

Thank you for purchasing the Kompakt 30 system. With this Teufel loudspeaker set, you have opted for an ultra-compact surround system that delivers excellent sound quality despite its miniature dimensions and unobtrusive design.

This loudspeaker set works in conjunction with a multi-channel AV receiver/amplifier (to be provided separately).

Meticulous speaker placement is paramount to the spatial sound quality of any surround system, which is why we recommend you take your time in deciding where to place the individual speakers. This operating manual provides instructions and suggestions on the correct placement, setup and operation of the Kompakt 30 home theatre set.

Please write down both the serial number and the invoice number.

Before using the loudspeaker set for the first time, carefully read this operating manual in its entirety. Keep the manual in a safe place for later reference. We also recommend that you store the packaging.



Please write down the set's serial number (shown on a sticker on the packaging, e.g., KQ123456789) and the invoice number here:

My **INVOICE NUMBER** is:

.....

My **SERIAL NUMBER** is:

.....

Should you ever require any customer support from us, please tell us these numbers so we can process your request promptly.

If you ever encounter any problems during the operation of the speaker set or suspect an equipment fault, please refer to the "Problems & solutions" section on pages 11 and 12 before contacting us.

Most issues can be resolved this way.

Teufel

Unpacking • Included components

Unpacking

Open the top flaps of the cardboard box, take out the styrofoam padding, and carefully lift the loudspeaker out of the box.



◀ Subwoofer

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

Included components

- ▶ 1 x Kompakt 30 subwoofer
K 300 SW
with integrated amplifier
- ▶ 1 x Kompakt 30 centre speaker
K 30 C
- ▶ 4 x Kompakt 30 satellite speakers
K 30 FR
(identical models – to be used as
2 x front speakers and
2 x rear/surround speakers)



◀ Centre speaker



◀ Satellite speakers

Original packaging

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Accessories (optional)

Accessories

The Kompakt 30 range is supplied without connecting cables, because customers have different requirements. You can find the cable you need in our online shop (www.teufel.de), for example, in the "accessories" section. More optional accessories for the system are shown here:

You can order any of the accessories shown here directly from the Teufel online shop at www.teufel.de (Accessories).

Teufel speaker cable 2 x 2.5 mm²



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. The use of high-quality cabling such as this is particularly recommended when the cables need to be longer than six metres.

Teufel voltage converter



An adapter cable designed by Teufel. This adapter lets you connect the Kompakt 30 subwoofer to amplifiers without a dedicated subwoofer output, i.e., amplifiers with speaker outputs only (e.g., conventional stereo amplifiers). This voltage converter cable adapts the output from an amplifier's speaker terminal ([+] and [-]) to an cinch socket. (Note that you will need two adapters for stereo operation.)



M 50 P speaker stand

Speaker stand designed specifically for the Concept/Kompakt range of satellite speakers. The speaker cables are concealed on the inside of the stand.

Height: adjustable between 80 and 120 cm.

Finish: Metal, black (also available in silver).
Speaker stands are only sold as pairs.

Teufel mono cinch cable



Teufel's proprietary subwoofer cinch cable design – the best way to connect our active subwoofers to AV receivers/amplifiers. The cable is shielded against magnetic interference. A reliable connection is guaranteed by sturdy, gold-plated connectors. The cable is available in several different lengths so that you can place your subwoofer wherever you like.

Microlock wall mount



Ideal wall bracket for the compact satellite speakers of the Teufel Kompakt 30 loudspeaker set. Enables unobtrusive and professional speaker mounting on ceilings, ramps and walls. Note that Microlock wall mounts are only available in pairs.

Shortlock wall bracket



The ideal wall mounting for the compact satellite speakers of the Teufel Kompakt 30 loudspeaker set because the required screw threads are already on the back. Allows unobtrusive and secure mounting on ceilings, sloping ceilings or walls. The wall brackets are available in black or silver, but only come in pairs.

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.

Speaker placement

Placement of the Kompakt 30 loudspeakers

As a general guideline, the speaker system should be concentrated around that part of the room that contains the TV/screen and the main seating area. If at all possible, the TV/screen should be placed centrally in relation to the viewing/listening spots.

The centre speaker reproduces virtually all spoken sound, including most dialogue. Place this speaker centrally under or above the TV/screen and angle it towards the listening spot. 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 setup, the left and right front speakers should be equidistant to the TV, mounted on the wall or on speaker stands. A range of Concept/Kompakt speaker stands, as well as the Microlock wall mount, are available for this purpose. Speaker stands ensure that the satellite speakers are placed at the best possible height. The Microlock wall mount lets you angle the speakers both vertically and horizontally towards the listening spot.

Mounting the speakers on a wall or bookshelf:

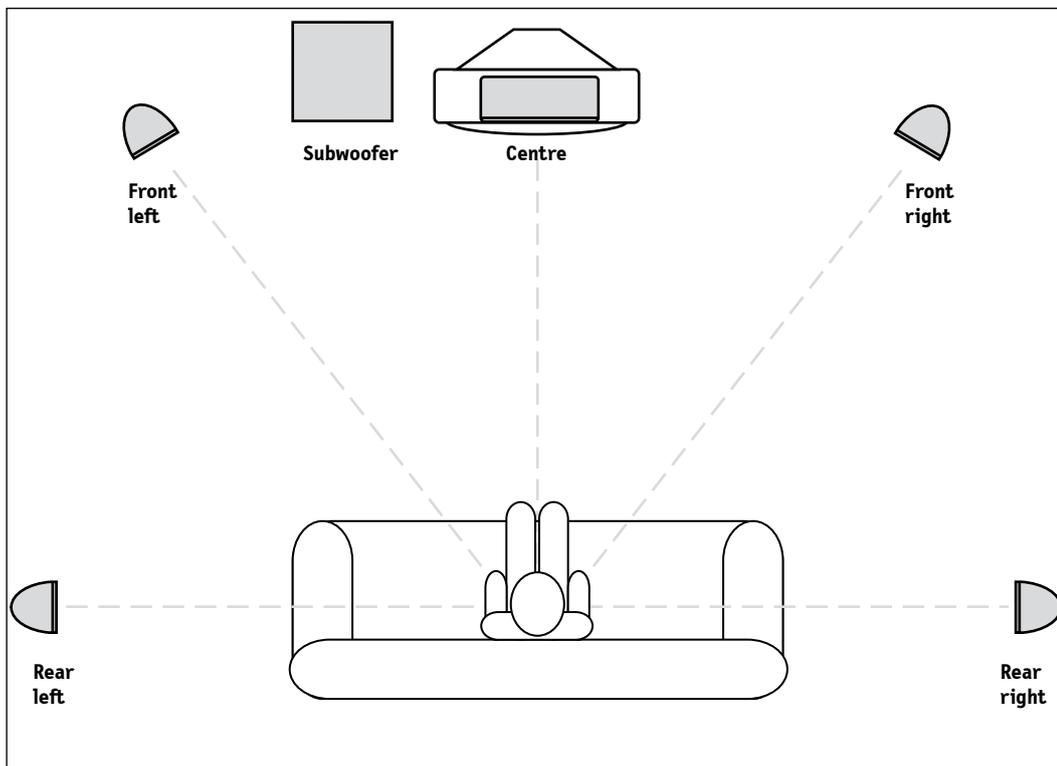
Make sure the speaker height is between 40 cm and 1.20 m. If these recommended values are not practical in your listening environment and you need to position the speakers higher or lower, you should angle them towards the listening spot. Make sure that the centre speaker and the two front speakers are positioned in a straight line, or on a slight arc with the TV/screen.

The 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.

The rear speaker placement should mirror the front speakers behind the listening spot. Ideally, the rear speakers should be at the same height as the front speakers. If they need to be placed higher or lower due to practical considerations, compensate for this by angling them towards the listener.

The rear speakers should be at least 1.00 m away from the listening spot. If they need to be closer, make sure that the front of the speakers is not directly pointed at the listener but towards the centre of the room.



Setting up the Kompakt 30 speakers as a home theatre system

If you need to position some of the speakers at irregular distances or heights, you can compensate for this with your AV receiver's Speaker Management settings.

Connections on the AV receiver

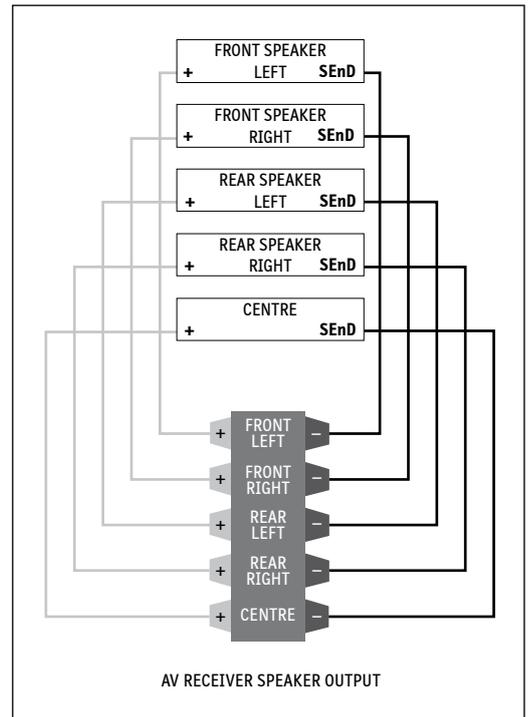
Connecting the satellite speakers



Cut up the stock speaker cable supplied with the loudspeaker set into suitable lengths. Remove the plastic sleeving at the speaker cable ends as shown. Both the speaker cabinets and the amplifier have speaker terminals marked [+] and [-]. The [+] pole of the speaker cabling is marked by a line. Make sure that the connections on your speakers match the polarity of the amplifier outputs: always connect the plus pole of the speaker to the plus pole of the amplifier, and correspondingly the minus pole of the speaker to the minus pole of the amplifier. Out-of-phase cabling can cause a reduced sound quality, weak bass response and inferior stereo imaging. In multi-channel surround systems, it is vital to connect all of the loudspeakers with the correct polarity in order to guarantee a fully spatial surround field and the intended directionality of each channel.

The AV receiver settings are described in further detail on page 9.

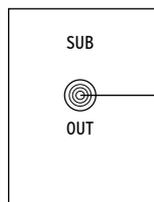
Connect the individual speakers to their respective speaker terminals on the rear panel of your AV receiver, i.e., the left front speaker to FL, the left rear speaker to RL, etc.



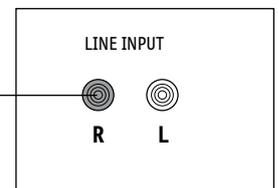
Connecting the subwoofer

Connect the subwoofer output of your AV receiver to the right Line Input (R) of the K 300 SW subwoofer using a mono cinch cable. In this setup, the subwoofer's left input (Line Input L) is not connected.

AV RECEIVER



SUBWOOFER KOMPAKT 30



Setting up the AV receiver • Operation

Setting up the AV receiver

When the Kompakt 30 loudspeakers are run from an AV receiver, it is vital that the receiver is set up correctly. As the Teufel loudspeaker set does not feature a surround sound decoder, it relies on the AV receiver's decoder to assign the surround channels correctly to the individual speakers. Surround sound setup options vary greatly between different AV receivers. Please consult the operating manual provided with your AV receiver for detailed setup instructions.



The following settings are vital for the loudspeaker set to function properly:

- ▶ The **front/centre/rear speakers** need to be set up in the AV receiver's Speaker Setup menu (Speaker Management / Bass Management) as **"Small"** or **"Normal"**.
- ▶ The **Subwoofer** setting in the Speaker Setup menu needs to be **"On"** or **"Yes"**.
- ▶ The proper **crossover frequency** for the subwoofer is **120 Hz** – 100 Hz and 150 Hz are the next best options.
- ▶ On the subwoofer itself, set the **frequency control** to **"maximum"**.

Operation*

Set the mains power switch **1** to "ON" to power up the subwoofer's built-in amplifier. Set the power function switch ("OFF/AUTO/ON") **2** to "AUTO" mode (centre position).

This means that the subwoofer automatically switches to standby when the receiver is off or silent. As soon as the subwoofer's amplifier detects an audio signal at the input, the speaker is switched back on. Twenty minutes after the signal has ceased, the subwoofer reverts back to standby mode.

If the power function switch **2** is on "ON", the subwoofer is permanently switched on, regardless whether there is an audio signal or not.

If you are away from home for a prolonged period of time or if you are not using the subwoofer, switch the mains power switch **1** to "OFF".

The PHASE switch **3** lets you adjust the phase/polarity of the subwoofer's output to the placement of the speaker in your room. If the subwoofer is positioned between the front speakers, we recommend a phase setting of "0°"; 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.

**Also see diagram on the next page.*

Subwoofer controls

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.



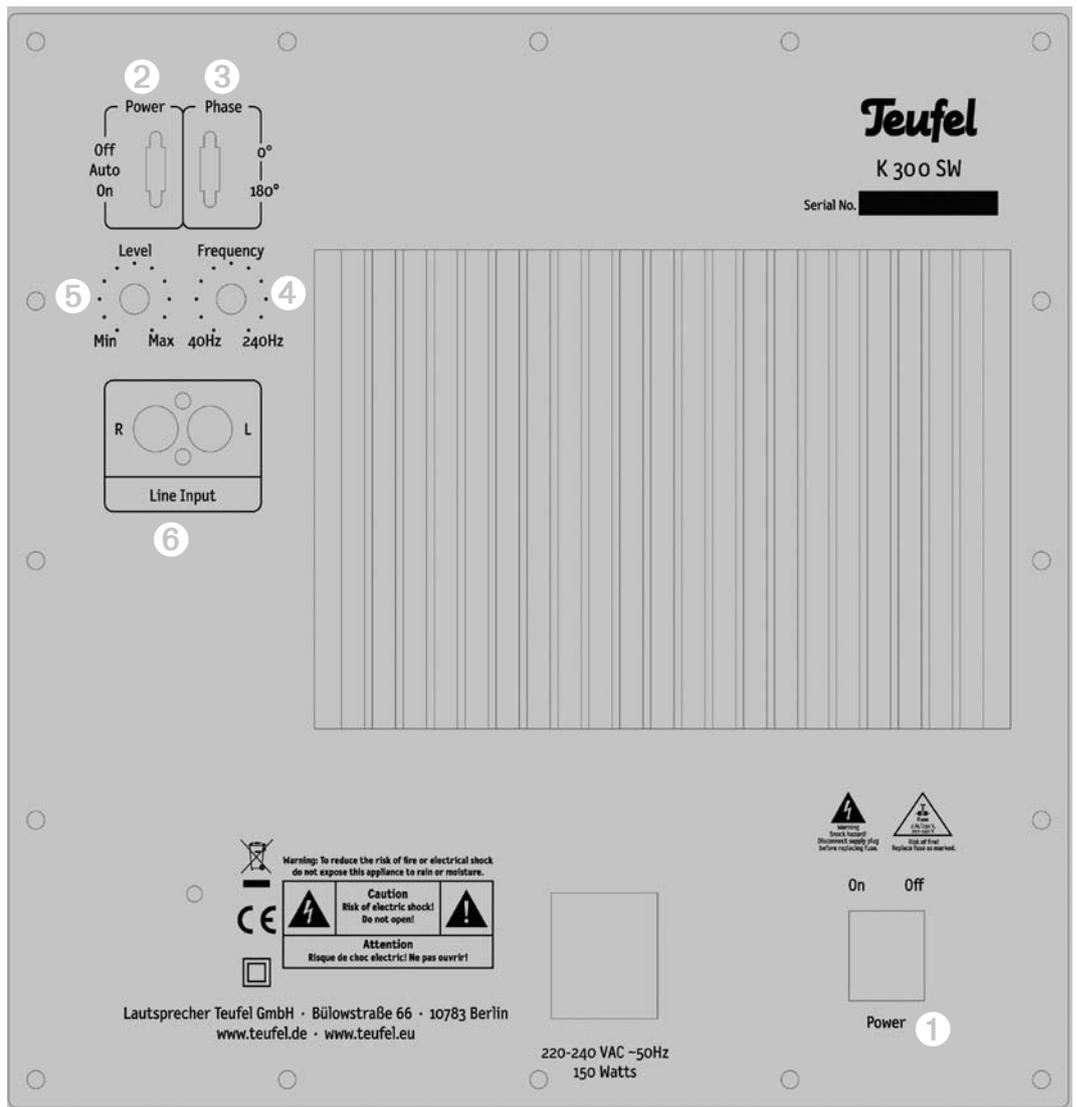
This product complies with the following European Union guidelines: 89/336E WG and 73/23 EWG.



The “wastebin” 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.



① Power – mains (bottom)

Switch to “ON” to power up the subwoofer; switch to “OFF” to power it down.

② Power – function (top)

Switch to “ON” to activate the subwoofer; switch to “OFF” to deactivate it. “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.

③ Phase

This switch determines the phase relationship between the subwoofer and the front/centre speakers. If the subwoofer and the front speakers are roughly on the same axis, set the PHASE switch to “0°”; otherwise set it to “180°”.

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 your AV receiver provides user configuration settings, set the receiver’s crossover frequency to 120 Hz and turn the subwoofer’s frequency control to maximum (hard right).

⑤ Level

This controls the subwoofer’s volume.

⑥ Input

Connect the cinch cable coming from the receiver’s Sub Out to the subwoofer’s Line Input. In most cases, this is a mono signal; plug the cable into “R” and ignore “L”.

Attention:

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

“The subwoofer is making a humming noise“

The Kompakt 30 system employs a powerful transformer and an amply sized power pack, which are necessary to produce the system's high output. These components may cause a barely inaudible constant hum, which you may be able to hear from the rear of the subwoofer when there is no music or other sound in the room. This electrical hum can only be avoided using very expensive high-end componentry, and it is perfectly normal for the large majority of active speakers. As soon as the loudspeakers receive a signal, the hum is masked by the audio output and disappears.

However, if the hum remains clearly discernible from further than one metre away, this may indicate a fault – especially if the subwoofer is not connected to any other devices. If the subwoofer is already connected to other devices, the hum may be caused by an equalising current, e.g., because the external devices have differing electric potentials.

If you think this may be the case, try the following methods to remove the hum:

- 1.** The subwoofer is connected to a different electrical circuit than the other components. Make sure that all the connected devices (including any computers) 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). 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° (if your mains socket allows it), 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 cinch cable from the receiver to see whether the hum is caused by one of the other connected devices.
- 7.** Try adding an additional earthing signal; fasten a wire (e.g., spare speaker cable) to one of the amplifier's metal screws, and fasten the other end to a ground point (e.g., heater pipe, computer housing).

“The subwoofer does not kick in when it is in Auto/Standby mode – or it shuts off again too quickly”

Check the bass level setting in the AV receiver's Speaker/Bass Management section. This should be between +4 dB and the maximum setting. In combination with the Auto/Standby mode, this setting effectively determines when the subwoofer is activated – the higher the receiver's bass level, the sooner the subwoofer responds. Also, make sure that the POWER switch on the subwoofer's rear panel is set to “Auto”.

“One of the satellite speakers is silent or distorted, but all the other speakers sound fine”

In order to locate the exact source of the problem, exchange the malfunctioning speaker with one of the functioning speakers. This will tell you whether the fault lies with the speaker itself, or with the AV receiver or speaker cable. If the speaker in question works fine when it is connected to another surround channel, the fault is most likely with the receiver. If the speaker does not work on the other surround channels either, this indicates a fault with the speaker.

“The subwoofer is silent, but all the other speakers are working”

You can check the subwoofer itself by connecting it directly to a separate source, e.g., a mobile CD player (connect to the subwoofer's Line Input R). If the subwoofer outputs a bass signal from the CD source, this indicates there is a fault with your system's connections. Either the cinch cable is defective, or the subwoofer output of your amplifier/receiver is not working.

You can also try the following method: Turn the subwoofer volume level all the way down, unplug the subwoofer's cinch cable from the amplifier/receiver, turn up the subwoofer's volume slightly and touch the tip of the cinch connector with your finger. If this produces a hum or crackle, the fault is with the amplifier/receiver or its settings. If the subwoofer remains completely silent, please contact our support team.

“When I play back stereo sources such as music CDs, the subwoofer isn't working”

The Kompakt 30 loudspeaker set is a playback system only – it does not feature a surround sound decoder. The distribution of audio signals to surround channels depends on the settings of the external decoder. This decoder is usually integrated into the AV receiver's software.

If, for example, your stereo signal is only playing back on the two front satellite speakers, this indicates that either the receiver is set up incorrectly or that it does not provide stereo decoding.

The Kompakt 30 loudspeakers have no influence on this – they simply play back what they are sent from the individual speaker outputs of the receiver.

These outputs are controlled by the receiver's internal software.

If there is a fault with the receiver, please contact the manufacturer's customer support team for service.

Teufel

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

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