



Columa 700 R

5.1 channel home cinema set including 5.1 subwoofer
with an integrated Dolby Digital/DTS receiver

Teufel

For your information

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Complaints

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

1. Invoice number

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

2. Series or batch number

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

Thank you for your support.

Technical data

You will find technical data on our website: www.teufel.eu.

Warranty terms

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

Returns

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

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

You can find more information on the subject of returns on the returns form that accompanies the delivery or online in the support area of our website www.teufel.eu.

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

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 death – never leave children unsupervised with electrical devices!

In case of emergency:

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

- ▶ If the plug or feed cable are damaged
- ▶ If foreign bodies or liquid have entered the appliance
- ▶ If the device has been in direct contact with rain or other water

We cannot accept any responsibility for incidents 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.

Information on cleaning: When cleaning the speaker, only use a slightly damp or dry cloth. Abrasive cleaners and products that contain alcohol should be avoided. Remove dust from the membrane very carefully using a soft paintbrush. In general, high-tone domes should not be cleaned because they are very easy to damage. 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.

Information on location: Do not use the appliance unsecured in vehicles, in unstable places, on wobbly tripods or furniture or on unsuitable supports, etc. We generally recommend that you only mount our speakers on the stands or wall brackets that we have recommended. Otherwise the speakers could fall and harm people, including you. 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.

For 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, 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.

Electrical supply: The subwoofer should 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. Please only use the mains cable supplied for connecting to the mains socket. This mains cable must not be modified under any circumstances.

Information on wiring: Please place the speaker cord flat and flush to the wall and floor. Cables that are laid loosely present a risk of tripping. The electricity supply cable must be laid so that neither people nor pets can trip over it or become tangled up in it. It should not be laid where the cable could get crushed. 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.

When not in 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 unplugged 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.

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 voltages, which could then cause short circuits and fires. Therefore, do not spill any liquids of any kind on the device.

Troubleshooting: Never try to repair the unit yourself. Please contact our service department in the event of a fault.

Transport: Depending on its size and weight, a transport aid should be used to move the appliance, for instance a hand truck. Always apply extreme care when moving the appliance.

Changes and damage: Under no circumstances should you open the casing of any of our products. This could result in electric shock or damage to the product itself. Opening the product casing also voids any warranty claims, as well as your contractual and legal right of return. If the appliance casing appears to be damaged, the device must not be used as it could be extremely dangerous.

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 sound pressure may be generated, particularly if a subwoofer in "Standby/Auto On" mode is set at full volume when switched on by a bass impulse. Both short- and long-term exposure to high sound pressure can irreparably damage hearing! 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. Never put your ears right next to a speaker.

General: If you aren't sure what to do, please contact our support department: +49 (0)30/300 9 300.

Introducing Columa 700 R

Dear Lautsprecher Teufel customer,

Thank you for buying the home cinema system Columa 700 R from Lautsprecher Teufel.

You have purchased a very high-performance 5.1 channel home cinema system: Lautsprecher Teufel speaker systems are equipped with high-quality components and are assembled with extreme care.

The associated CL 700/6 SWR, a fully active subwoofer with six integrated end stages, can deliver output not only to its own subwoofer but also to five satellite speakers for treble and mid-range sounds, thus forming the basis of your 5.1 home cinema set. You can find connection details on pages 14 and 15 of these instructions.

We recommend the Columa 700 R for providing sound in rooms up to 30 m² in size.

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

BEFORE contacting us with a question, please read the “Problems and solutions” section on pages 22 to 23 of these operating instructions and visit our website (www.teufel.eu) 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 this information.



Columa 700 R

First please check that the delivery 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 top of the box, remove the polystyrene pieces and carefully lift the speaker out of the box. Alternatively you can fold back the flaps on the top of the box and turn the box and the contents upside down. Then remove the box from the contents and remove the inner packaging. For your own benefit, we recommend that you do not dispose of the box as it can be used to guarantee safe transport if the device requires servicing later on.

Contents

Columa 700 R

- ▶ 1 x Subwoofer CL 700/6 SWR
- ▶ 1 x centre speaker CL 70 C
- ▶ 4 x column speakers CL 70 FR
- ▶ 4 x bases for column speakers CL 70 FR
- ▶ 1 x subwoofer remote control
- ▶ 2 x batteries for remote control
- ▶ 4 x spikes
- ▶ 1 x speaker cable
- ▶ 1 x FM auxiliary aerial
- ▶ 1 x mains cable

Accessories

As a result of differing user requirements, other connection cables or subwoofer casters are not included. You can, however, order any required accessories directly from us. You will find all optional accessories for the Columa 700 R Dolby Digital/DTS subwoofer on the following page.

Assembly

The CL 700/6 SWR is a downfire subwoofer that outputs its bass signals downwards. It is therefore essential that you use the spikes provided. To avoid any scratches to the surface or the subwoofer itself while screwing on the spikes, place the subwoofer on a stable surface and use a cover for padding.

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



Subwoofer CL 700/6 SWR



Column speaker CL 70 FR including base



Centre speaker CL 70 C including table base



Speaker cable



Remote control + 2 x batteries



Spikes



FM auxiliary aerial



Mains power cable

Accessories (optional)

Optional accessories for the Columa 700 R

Here is an overview of the relevant accessories available for your Teufel home cinema set.

Teufel Y adapter cable



If you want to connect a device (e.g. MP3 player) that only has a mini-jack output – and the mini-jack input “PC” is already occupied – this cable is suitable for connecting the device to the “VCR” or Aux” cinch inputs. Available in three lengths.

Teufel speaker cable, 2 x 2.5mm²



This highly flexible copper wire with transparent sheath and marking to indicate polarity is suitable for the satellite speakers on your system. The 2 x 2.5 mm² cable can be used for a length of 15 metres. By popular demand, our cables are pre-cut to practical lengths of 10 to 50 metres.

Teufel banana plug



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

Teufel casters



Your Teufel subwoofer can be made portable in no time using these black casters with their especially low construction height. They put an end to back-breaking carrying around when testing optimal subwoofer positions. They are also very handy when you're cleaning. These casters can be used instead of the supplied resonance damper.

Oehlbach Red Opto optical fibre



These thin plastic lines are used to transfer digital data between the CD, MD and amplifier/receiver and between the laser disc and DVD player and the AV appliance. The cables are now supplied with an adapter for CD and MD Walkmans. The black optical cable has a 5.5 mm diameter and is the first choice for high quality home cinema and THX systems.

Teufel volume level measuring device



Don't just rely on your ears. Equalising your home cinema system can be done much more precisely when you use a volume measuring device. The purchase of your life!

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

Setting up the 5.1 configuration

General information on arranging the speakers

Home cinema system users, much more than stereo system users, must observe certain set-up criteria to achieve optimum sound quality when using a multichannel surround sound system.

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

The recommended set-up (on the following pages) represents the best possible arrangement for perfect multichannel playback at home. Your available space, your partner or your furniture may not always allow you to arrange the speakers in the ideal manner. Try to meet as many requirements as possible. Small variations are not a problem. The CL 700/6 SWR offers 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!

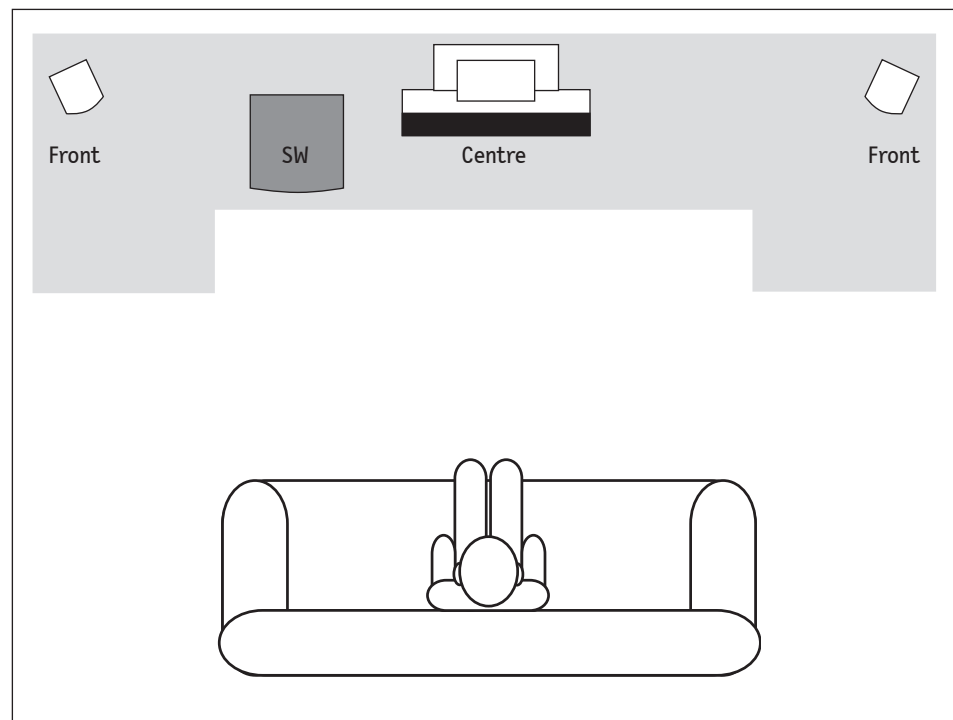
Subwoofer

You can put the subwoofer anywhere you wish; it 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, the woofer 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 device and users. For optimum communication between the subwoofer and the remote control it is essential that the subwoofer is set up with its front pointing towards the listener.

Centre

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

We recommend placing the subwoofer in the front grey area.



Setting up the 5.1 configuration

Front

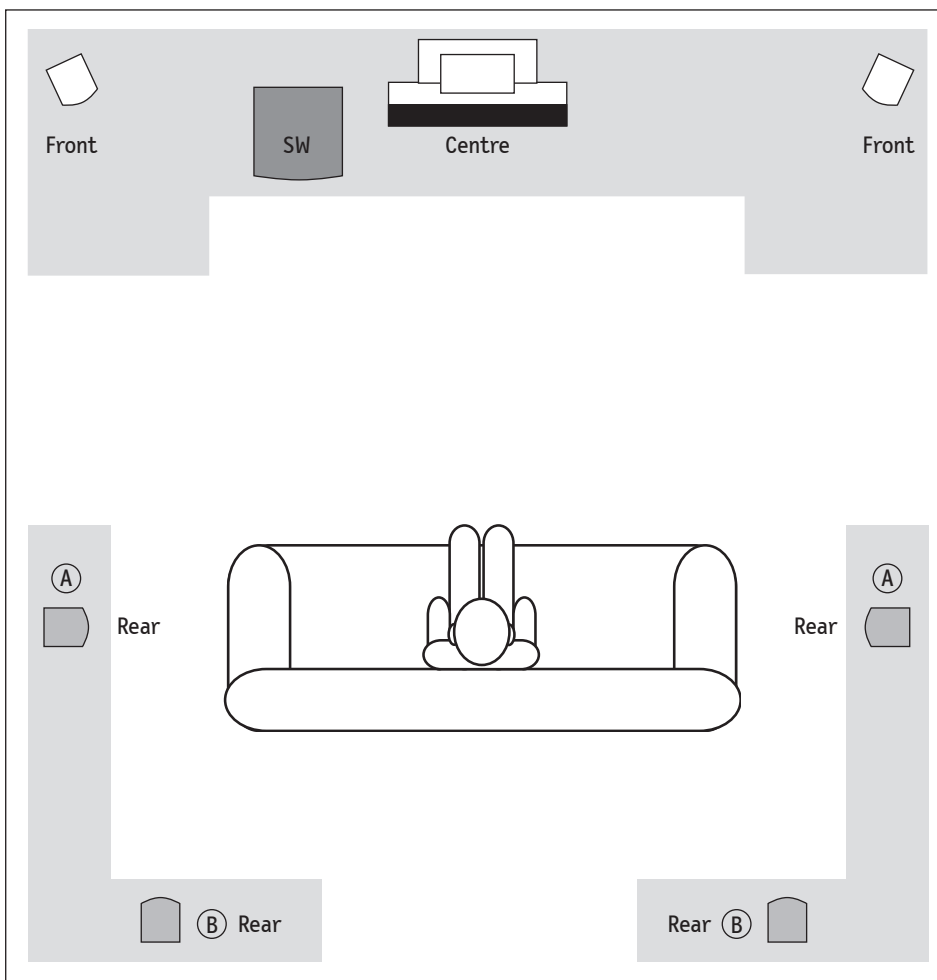
The front speakers are placed at equal distances to the right and left of the TV in old stereo fashion (distance to listener = distance between the left and right speaker). If the speakers have to be placed further out, you can easily turn them inwards and towards the listening location.

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

Rear

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

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



We recommend placing the subwoofer in the front grey area.

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

Select position area A or B.



Button designations and their functions

Standby

Switches the subwoofer on (press once) or off (press again), after the power supply has been switched on at the rear of the device («Power» – see page 11). A blue LED indicates that the device is on standby.

Input

Use this button to select the input signal. The inputs are selected in sequence each time you press the button.

Volume +

This increases the overall volume of the system.

Volume –

This decreases the overall volume of the system.

During operation the display always shows the selected signal source, e.g. «coax» and the reproduction mode e.g. «AC3» = Dolby Digital. This display is interrupted when you make any changes, such as to the volume. As soon as this activity is ended, the display indicates the originally selected signal source again.



Connection designations and their functions

1 FM
Connection for FM/VHF auxiliary aerial

2 AM
Connection for AM/MW aerial

3 Digital input
Optical: For connecting the CL 700/6 SWR with a digital signal source in optical format (Toslink).
Coaxial: For connecting the CL 700/6 SWR with a digital signal source in coaxial format.

4 Analogue input
PC: This is used to connect the sound card output («Audio Out») on your desktop PC or notebook to the CL 700/6 SWR using an optional stereo mini-jack cable. Alternatively, you can connect an MP3 player.

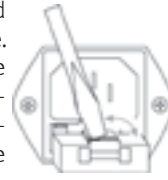
Aux/VCR: You can plug in the cinch cables here (left/right) to connect to the analogue outputs of your stereo playback devices. (e.g. TV set, CD player, video recorder, etc.). The input labelled VCR (= video recorder) can also be used with other signal-producing devices such as a MiniDisc player, cassette recorder etc. You will need an additional equalizer/preamplifier to connect and operate an analogue record player.

5 Speaker output
Connect the two-core speaker cables [+] and [-] to the five satellite speakers here.

6 Mains power switch
When set to »Off«, the subwoofer is switched off, and when set to »On« it is switched on.

7 Power connection
Connect the power supply cable supplied or the appropriate power supply cable for your region, to the subwoofer.

8 Fuse
This is the location of the subwoofer fuse. The fuse should only be changed for one of equivalent type. Only change the fuse when the subwoofer and all of the associated components are completely disconnected from the power supply.



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 89/336 EEC and 72/23 EEC



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.

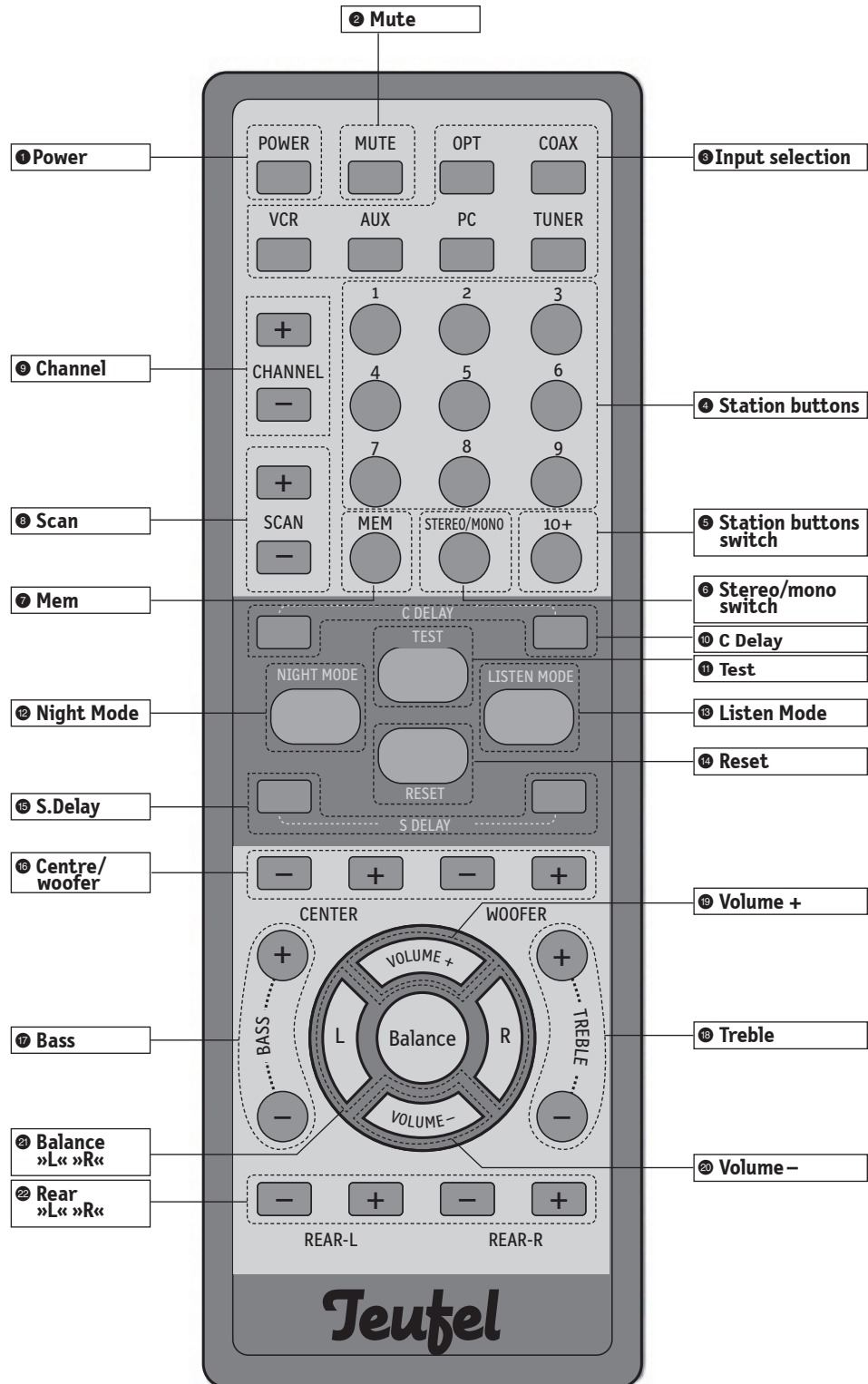


This product corresponds to standards DIN EN 61140 (VDE 0140-1) and IEC 60417 of safety class II and does not require a safety plug, just the plug included (2-pole). The casing has reinforced or double insulation against electric shock.

Function: Remote control

Button designations and their functions

→ Explanations of the functions can be found on the following pages



❶ Power

Switches the subwoofer on (press once) or off (press again), after the power supply has been switched on at the rear of the device (»Power« – see page 11).

❷ Mute

Immediately mutes the subwoofer. Pressing the button once immediately mutes the complete system; if you press it again, the system returns to its previous operating status. If the system has been switched to mute, the »MUTE ON« message on the display lights up; upon reactivation »MUTE OFF« lights up briefly before the input source appears again, e.g. »OPT«.

❸ Choice of input

Select the five inputs plus the integrated radio receiver on. → page 20

❹ Station buttons

Nine buttons allow direct selection of the radio stations saved by the user. → page 21

❺ Station buttons switch

Allows programming of additional radio presets. Press once for positions 11–19, twice for 20–29, 3 x 30. → page 21

❻ Stereo/mono switch

When receiving weaker VHF/FM stations via room aerials, the playback quality may improve noticeably if you switch to mono.

❼ Mem

Memory button to assign the station buttons (4). → page 21

❽ Scan

For radio operation you can scan through the frequency bands manually to get to the next station – in ascending [+] or descending [-] order. → page 21

❾ Channel

In »Tuner« mode you can switch directly from station to station – in ascending [+] or descending [-] order. → page 21

❿ C.Delay

Option to set the delay on the centre speaker. Only works with Dolby Digital/dts. → page 19

⓫ Test

Initialises the test sound to equalise the speakers. → page 18

⓬ Night Mode

Activates reduced-volume playback for Dolby Digital signals with sound adjustment at low volume levels. Press again to deactivate Night Mode. → page 20

⓭ Listen Mode

Used to select the various playback modes, such as Dolby Prologic II or stereo. If a Dolby Digital signal is active, stereo mode is forced by pressing this button. → page 20

⓮ Reset

Call up the subwoofer's factory settings using this button.

⓯ S.Delay

Allows adjustment of the rear speaker time delay. Only works with Dolby Digital/dts and Dolby Prologic II. → page 19

⓰ Center/woofer

Use the [+] and [-] buttons to adjust the required levels of the centre and subwoofer..

⓱ Bass

Use the [+] and [-] keys to set the required bass level. It acts directly on both front speakers.

⓲ Treble

Use the [+] and [-] keys to set the required treble level. This sound adjustment acts directly on both front speakers.

⓳ Volume +

This increases the overall volume.

⓴ Volume -

This reduces the overall volume.

⓵ Balance »L« »R«

The »L« and »R« buttons increase the respective amounts of equalisation of the left (»L«) or right (»R«) front speakers. Pressing the »Balance« button will return the equalisation to the original balanced state.

⓶ Rear

Use the [+] and [-] buttons to regulate the required levels of the left and right rear speakers.

Tip:

The settings you make are saved directly by the subwoofer without any need for further action. They will still be available even after disconnection from the electricity supply.

Connection: Signal sources with digital outputs

Connection to devices with digital outputs for surround and stereo playback

Multichannel sound card, DVD player/recorder, sat receiver, PlayStation®2 & 3 and Xbox 360®* etc.

The CL 700/6 SWR is perfectly suited for combination with a maximum of two of the appliances given above.

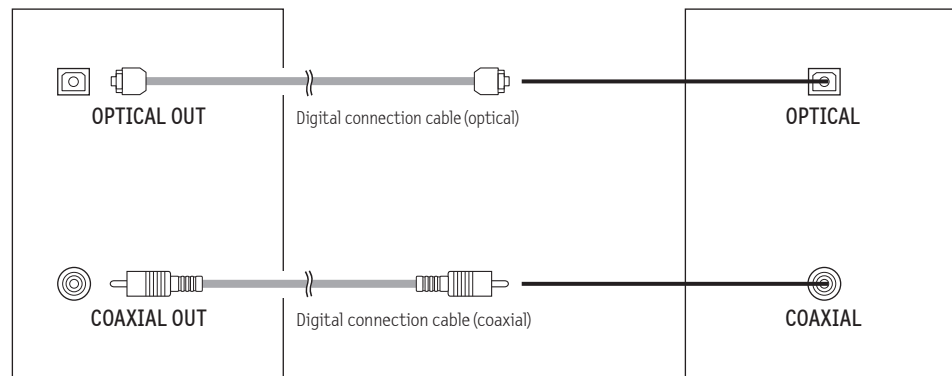
Connect the players as shown in the illustrations. You connect these appliances via their Digital Out outputs using an appropriate cable to inputs of the same type (coaxial or optical) on the subwoofer. The internal Dolby Digital/dts decoder on the subwoofer automatically detects the signal transferred via digital input, decodes the data flow and converts it to an audible 5.1 sound experience.

You will find further operation information on page 20.

** Only Xbox Advanced users
The AV Pack and High Definition
AV Pack have a digital output*

**Multichannel sound card,
DVD player/recorder,
Sat receiver,
PlayStation®2 & 3,
Xbox 360®* . . .**

**CL 700/6 SWR
DIGITAL INPUT**

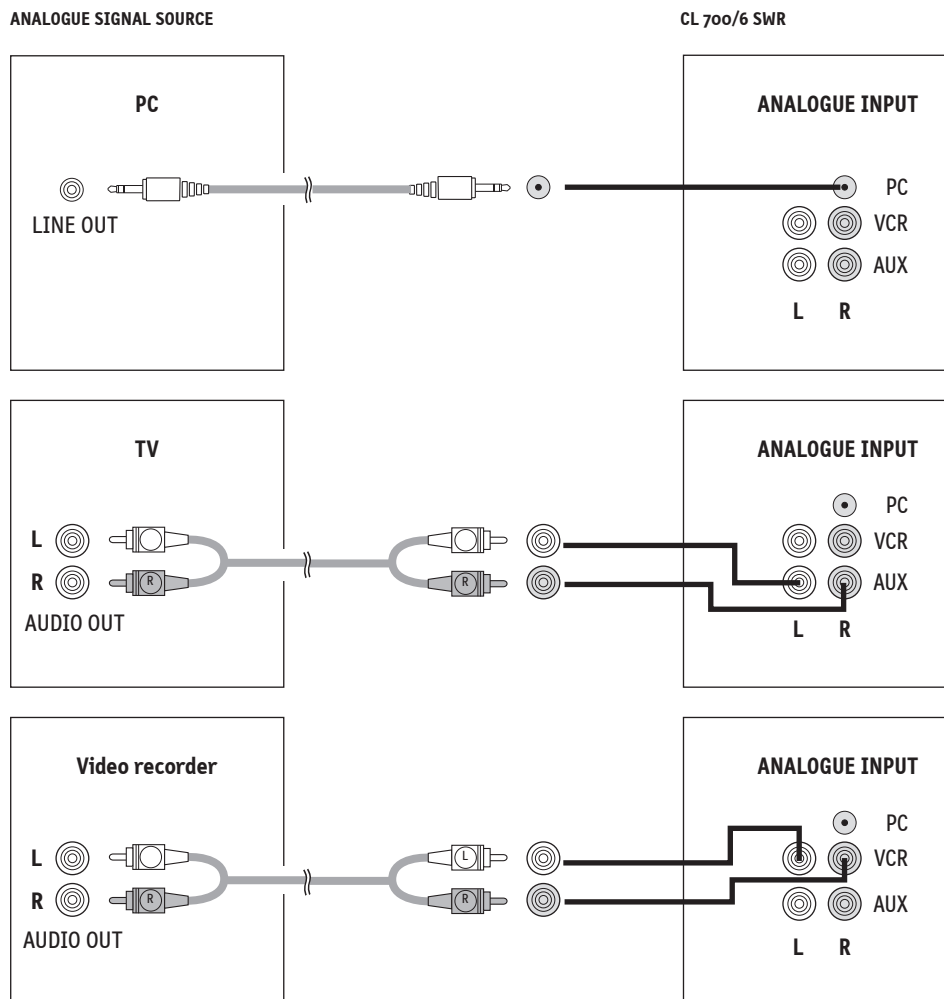


Connection: Signal sources with analogue outputs

Connection to devices with outputs for stereo playback.

In addition to the two digital inputs, the CL 700/6 SWR has a total of three analogue inputs: [VCR] [Aux] [PC]. These can be used with the analogue devices of your choice. This requires either a stereo cinch cable [Aux] [VCR] or a 3.5 mm stereo mini-jack cable [PC] for each device.* Connect the players as shown in the illustrations.

* These cables are usually included with the analogue devices.



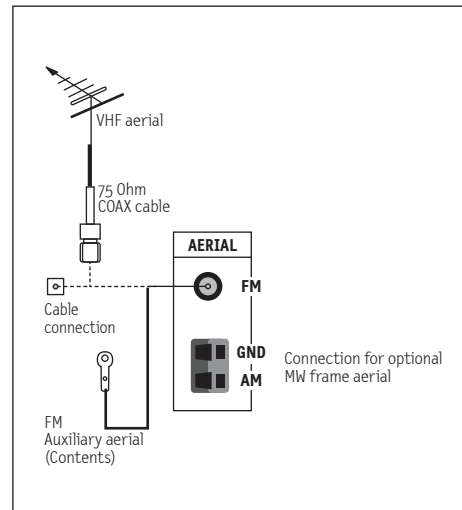
When connecting the devices, please note the relevant information in the handbooks for the components used.

Connecting the aerial

The use of the supplied aerials is essential as a minimum requirement for disturbance-free reception. Please connect the aerials as shown in the illustration.

** To be purchased separately*

A standard coaxial plug at the end of a coaxial cable* (e.g. a cable connection) can be connected directly to the FM coax input (instead of the supplied auxiliary aerial).



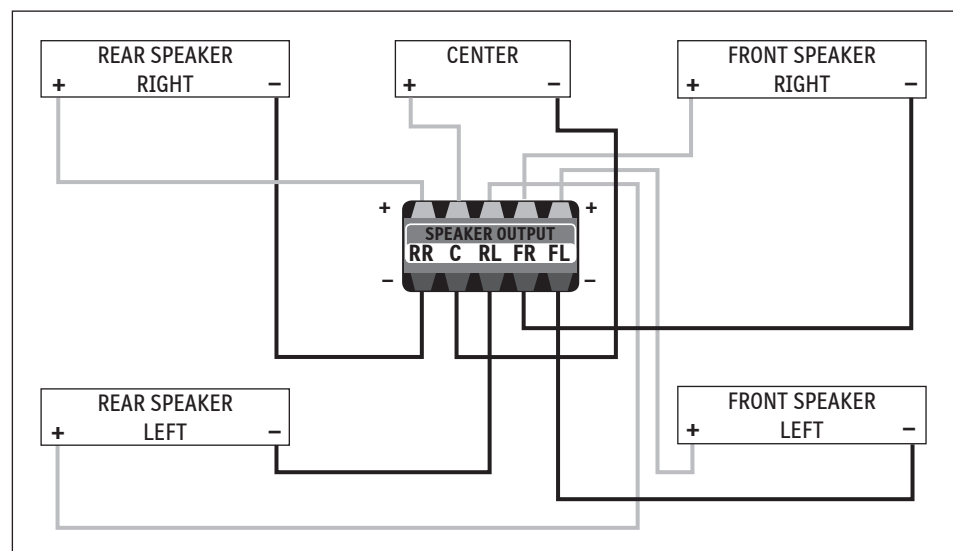
Please ensure that no individual exposed wire from a cable comes into contact with any free terminals, the rear of the device or other uninsulated cables (e.g. from other speakers).

Connecting the satellite speakers

The five satellite speakers for the treble and mid ranges are connected via speaker cables to the relevant speaker outputs front L/R, rear L/R and front centre on the subwoofer. To do this, strip the ends of the speaker cable (about 7 mm) and twist the cable. The speakers and the fully active subwoofer have corresponding [+] and [-] terminals. It is important to observe the correct polarity when connecting the speakers: the positive pole of the speaker to the positive pole of the subwoofer amplifier and the negative pole of the speaker to the negative pole of the subwoofer amplifier. (»Speaker Output«). To do this, turn the binding posts and insert the ends of the cable.



Please note:
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.



Start-up

First use

First ensure that all cables are connected as described above and insert the mains cable into the socket.

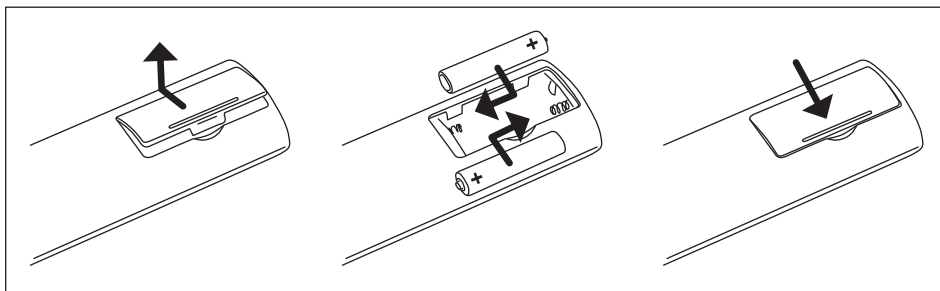
Switch the main power switch [Power] at the rear to »On« to activate the 5.1 amplifier of the subwoofer. The blue LED lamp lights up on the left of the operation panel on the front of the subwoofer. The »Input«, »Volume+« and »Volume-« buttons on the operating panel have no (activated) function (yet). The subwoofer starts operation when you press »Standby«.



By pressing »Input« repeatedly you can activate all inputs in succession: »Opt«, »Coax«, »VCR«, »Aux«, »PC«, »Tuner«.

You can set the desired overall volume using the »Volume [+] and [-]« buttons.

With the CL 700/6 SWR, it is possible to make all settings using the remote control. To do this, first insert the batteries into the remote control battery compartment as per the illustration:



If the device no longer responds to the remote control, even when it is used in direct proximity to the subwoofer, change the batteries.

Please note:

- 1) Do not combine new and old batteries
- 2) Do not use different types of batteries
- 3) Observe polarity – see battery compartment

For proper operation it is necessary to direct the remote control towards the subwoofer from a distance not exceeding 5 metres and at a horizontal angle of no more than 30 degrees.

→ The functions of the remote control are explained on pages 12/13.

Adjusting the surround system

Equalisation

Before familiarising yourself with the other functions of the device, it is necessary to set the volume relationships of the five satellite speakers and the bass channel for the bass speaker.

To do this, switch on the device using the “Power” switch at the rear.

Pressing the “Standby” button on the front operating panel, or pressing the “Power” button on the remote control will put the subwoofer into standby mode. Make sure that signal-emitting devices, such as DVD players, are not active.

Increase the overall volume of the set to »70 dB« using the central »Volume+« button on the remote control 19. This sets a kind of reference level. Make sure you are in the best possible and most central place for listening. Press the »Test« 11 button. This activates a test tone that runs through the five satellites and the subwoofer in sequence. Now you can increase or decrease the level on the remote control for the centre, the two rear speakers and the subwoofer to the positions 16 and 22 on the remote control until the volume of these four speakers corresponds to the volume of the two front speakers.

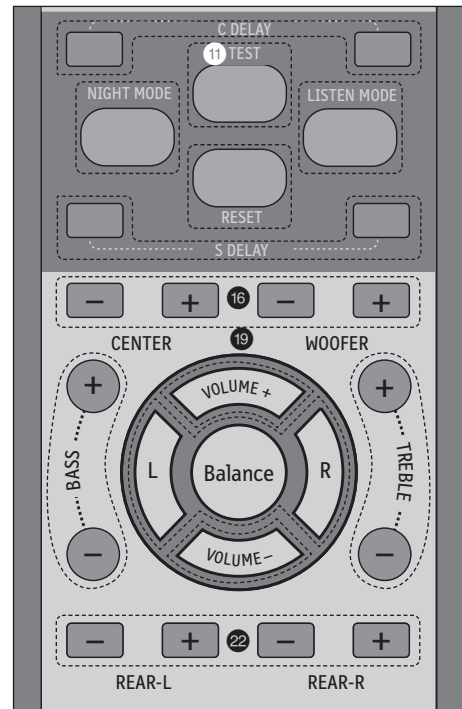
Equalisation by ear takes a few attempts and does not always immediately provide perfect results. For perfect equalisation of the speakers we recommend using a volume level measuring device, available in the Teufel shop. This device will last a lifetime and allows you to make far more precise settings than by ear. Bass levels in particular are often set too loud – exact adjustment is only guaranteed using a measuring device.

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. While high bass levels often dominate in effect-rich DVDs, the de-

sired level may not be heard during music playback (in particular if the set has been adjusted for optimal DVD playback). Your personal taste is the best guide for finding a compromise between the two sources. You can directly adjust the subwoofer level as required using the buttons »Woofers [+] and [-]« 16 on the remote control. Press the »Test« 11 button again to complete the calibration process.

Caution!
After successfully completing the test, please reduce the volume from the 70 dB setting used for testing.

Note
The selected settings are retained even after the device is switched off.

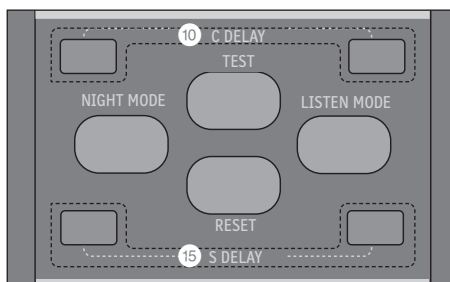


Adjusting the surround system

Adjusting the time delay (“delay”)

In order for the device’s digital signal processor (DSP) to convert Dolby signals perfectly, it must be informed of the spatial positioning of the individual speakers relative to each other.

The C. Delay (Centre) **10** and S. Delay (Surround = rear speaker) **15** buttons on the remote control are used for this.



Note

The delay setting option for the centre speaker is only provided in the Dolby Digital and dts listen modes.

Centre delay

1. Measure the distance between the listening point and the front speakers.
2. Measure the distance between the listening point and the centre speaker.
3. Subtract the distance of the centre from the distance of the front speakers.
4. Multiply the result by 3.
This gives you the delay time in milliseconds.

Example

Distance to the front speakers = 3,5 metres, distance to the centre speaker = 2,5 metres. Subtraction of the distances equals 3,5 - 2,5 metres = 1,0 metre. When multiplied by 3, this results in a 3 ms delay time.

Surround delay of the rear speaker

1. Measure the distance between the listening point and the front speakers.
2. Measure the distance between the listening point and the rear speakers.
3. Subtract the distance of the front speakers from the distance of the rear speakers.
4. Multiply the result by 3, giving the delay time in milliseconds.

Example

Distance to the front speakers = 3,5 metres, distance to the rear speakers = 1,5 metres. Subtraction of the distances gives you 3,5 - 1,5 metres = 2,0 metres. When multiplied by 3, this results in a 6 ms time delay.

An additional 15 ms are added as a constant to delay times determined in this way. For the example given above, this results in: 6 ms + 15 ms constant = 21 ms delay time. As the CL 700/6 SWR permits settings in steps of 5, select the next possible value, i.e. 20 ms.

The following rule of thumb applies:

In small rooms, up to 20 m², set a delay value of 15 ms and in medium-sized rooms (20–30 m²) set a value of 20 ms.

Note

The setting option of the delay of the rear speaker is only provided in the Dolby Digital/dts and Dolby ProLogic II listen modes.

Surround or stereo playback of devices with digital outputs

** Only users of the Xbox Advanced AV Pack/High Definition AV Pack have a digital output*

Multichannel sound card, DVD-player/recorder, sat receiver, Premiere® receiver, PlayStation® 2 & 3, Xbox 360®*...

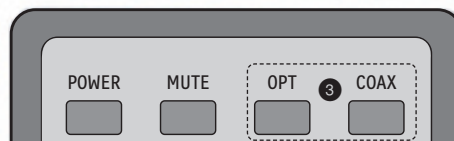
Note
Between individual titles in a DVD the subwoofer signals this »signal pause« with the display message »Unlock«.

Use the remote control to select “OPT” (for optical output) or “COAX” (for coaxial output), depending on the digital output format of the connected device ③.

Night Mode
For low-volume playback (e.g. at night), you can select »Night Mode« for Dolby Digital playback that limits the dynamic range without drastically reducing sound quality.

The corresponding input will appear in the display. As soon as the device has detected an encoded surround signal, it decodes it and then signals its ability to decode it by stating the signet and the name – e.g. AC3 for Dolby Digital.

You can choose to playback Dolby Digital signals in 2.0 stereo using the »Listen Mode« function on the remote control (⑬ see Page 12).

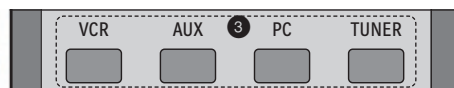


Stereo playback of devices at the three analogue inputs

2-channel sound cards, MP3 player, TV set, CD player, video recorder, etc.

*** The abbreviation »St« signifies stereo mode.*

Using the remote control, select one of the three inputs “AUX”, “VCR” or “PC” – depending on the device connected ③. The display indicates the relevant input, for example “AUX St” **.



Listen Mode

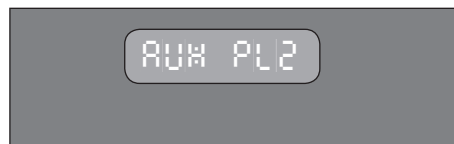
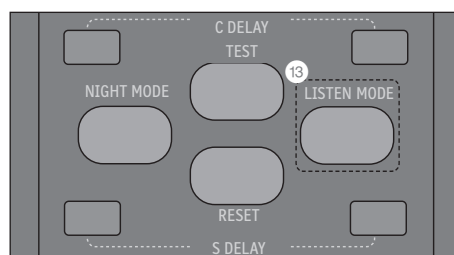
Here you can select whether and to which extent the stereo signals are prepared and played back by integrated “Upmix” functions through all satellite speakers, including the subwoofer.

These upmix modes can be found by successively pressing the “Listen Mode” button on the remote control ⑬ (page 12).

The following stages are available:

Dolby Prologic II Music, Dolby Prologic II Movie, Stereo, DSP Passthu, DSP Hall, DSP Theatre and DSP Room.

The switch also works in tuner mode, but the changed Listen Modes are not shown in the display.



Playback: Radio programmes

Radio programmes

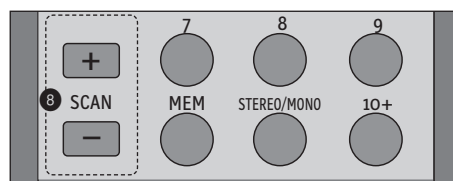
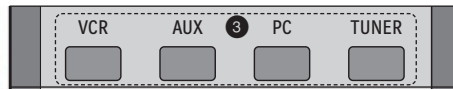
To listen to radio programmes, press the »Tuner« button on your subwoofer remote control **3**. Press it once for the VHF range (FM), or twice to receive medium wave programmes (AM).

The following information is shown on the subwoofer display, e.g. for FM reception:

»FM« = FM

»ST« = Stereo

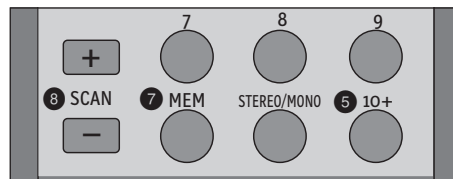
»96.20« = Transmission frequency



Saving the stations

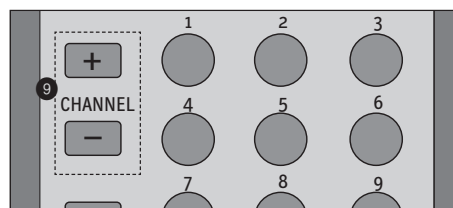
We recommend first saving your favourite stations. To do so, select »Scan« on your remote control **8**. This allows you to search the frequency band and find your favourite stations. Briefly press the button and the tuner will advance in 0.05 MHz steps: press the button longer and the tuner will keep going until it finds the next station.

Once you have used the »Scan« **8** button on the remote control to find the station of your choice, press the »MEM« **7** button to select the desired memory space, e.g. »1«. This memory space is used to save the station using the »MEM« **7** memory button.



Memory space

When you change the channel, the selected memory space is briefly shown in the display before switching back to the FM or AM display. The memory spaces 11–19, 20–29 and 30 can be reached by pressing »10+« **5**. You must press another button between 1–9, for example 2 for memory space 12, within 2 seconds.



Selecting stations

Press the »Channel +« **9** button to access the stations you have saved.

Reception problems may occur while using the supplied auxiliary aerial, e.g. if you are in an area where reception is poor. We recommend operating the receiver with an external/building aerial or from the cable network. To do this, an additional coaxial cable is usually required.

»The subwoofer is buzzing«

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

1. The subwoofer is connected to a different power circuit from the rest of the equipment. Ensure that all linked appliances (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 that is available from electronics retailers (sometimes in the car hi-fi department!). It is inserted between the aerial socket and the subwoofer.
3. A separately purchased mains filter, 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. A multiple socket strip sometimes proves to be responsible for creating buzzing noises. To test this, disconnect the plug strip and plug the subwoofer's mains plug directly into a wall socket.
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 (e.g. using an extension lead). In addition, try disconnecting the cable connection from the subwoofer to the connected devices in order to exclude the influence of connected components.

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

Please ensure that the power cable is firmly inserted into the socket. If this is the case, please check whether the blue "Standby" LED on the Teufel subwoofer lights up after activating the appliance by pressing the "Power" tip switch on the rear; if this is not the case please contact our service department.

»I cannot hear any sound from the individual speaker channels, although other speaker channels are working"

Please check whether all speaker cables – both on the subwoofer rear and on the rear of the satellite speakers – are firmly inserted into the relevant sockets and that none of the individual, uninsulated wires are in contact with each other. Please also observe the corresponding channel setting menus in the reproducing signal source device (e.g. = DVD player).

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

Switch the "Listen Mode" on the remote control to Dolby Prologic Music Modus = PL II. Please also observe the corresponding channel setting menus in the reproducing signal source device (e.g. = DVD player).

»The subwoofer is picking up additional 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 subwoofer responds to the remote control of another device or another device responds to the subwoofer remote control**«.

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

»**The subwoofer does not respond correctly to the remote control**«

The batteries may have been inserted incorrectly or they may be empty: they may need to be inserted correctly or replaced. Operation can be impaired if the subwoofer is situated too far away or in direct sunlight.

Care instructions and cleaning

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

Do not expose the unit to direct sunlight.

Avoid extreme temperature differences and protect your speakers from moisture.

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

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), making them different to 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 generally used 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.

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 reduced bass. 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.

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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