

B&W Bowers & Wilkins

Signature **HTM**

Owner's Manual
and Warranty



Figure 1

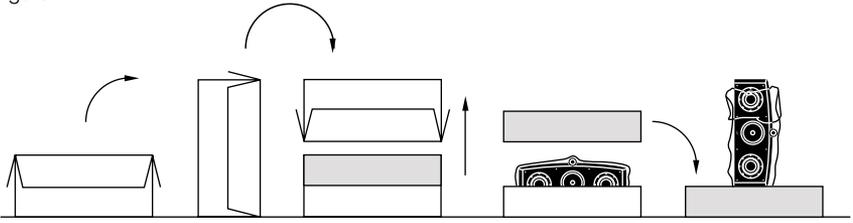


Figure 2

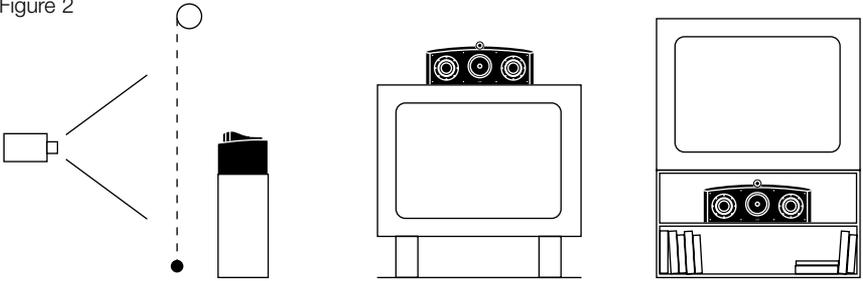


Figure 3a

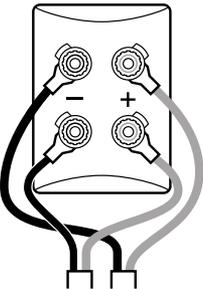


Figure 3b

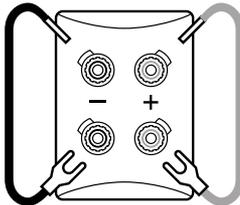
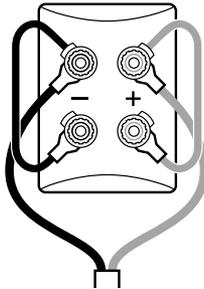


Figure 3c



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English

Limited Warranty

Dear customer,

Welcome to B&W.

This product has been designed and manufactured to the highest quality standards. However, if something does go wrong with this product, B&W Loudspeakers and its national distributors warrant free of charge labour (exclusion may apply) and replacement parts in any country served by an official B&W distributor.

This limited warranty is valid for a period of five years from the date of purchase or two years for electronics including amplified loudspeakers.

Terms and Conditions

- 1 The warranty is limited to the repair of the equipment. Neither transportation, nor any other costs, nor any risk for removal, transportation and installation of products is covered by this warranty.
- 2 This warranty is only valid for the original owner. It is not transferable.
- 3 This warranty will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable:
 - a for damages caused by incorrect installation, connection or packing,
 - b for damages caused by any use other than correct use described in the user manual, negligence, modifications, or use of parts that are not made or authorised by B&W,
 - c for damages caused by faulty or unsuitable ancillary equipment,
 - d for damages caused by accidents, lightning, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of B&W and its appointed distributors,
 - e for products whose serial number has been altered, deleted, removed or made illegible,
 - f if repairs or modifications have been executed by an unauthorised person.
- 4 This guarantee complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.

How to claim repairs under warranty

Should service be required, please follow the following procedure:

- 1 If the equipment is being used in the country of purchase, you should contact the B&W authorised dealer from whom the equipment was purchased.

- 2 If the equipment is being used outside the country of purchase, you should contact B&W national distributor in the country of residence who will advise where the equipment can be serviced. You can call B&W in the UK or visit our web site to get the contact details of your local distributor.

To validate your warranty, you will need to produce this warranty booklet completed and stamped by your dealer on the date of purchase. Alternatively, you will need the original sales invoice or other proof of ownership and date of purchase.

Owner's manual

Introduction

Thank you for choosing Bowers and Wilkins.

Your Signature™ Series speakers are precision transducers incorporating many innovative techniques unique to B&W and capable of reproducing recorded sound to the highest standards. So that they may perform at their best, it is essential to take time and care with the installation process. In particular, you must regard the listening room as an extension of the speaker. The acoustic character of the room can have a profound effect on the final sound quality.

Please read this manual fully before unpacking and installing the product. It will help you to optimise its performance.

B&W maintains a network of dedicated distributors in over 60 countries who will be able to help you should you have any problems your dealer cannot resolve.

Unpacking (figure 1)

- Fold the carton flaps right back and invert the carton and contents.
- Lift the carton clear of the contents.
- Remove the polystyrene tray from the top of the speaker.
- Lift the speaker out of the lower tray and, resting one end side back on the tray for protection, open and remove the polythene bag.

We suggest you retain the packing for future use.

Check in the carton for:

- 4 self-adhesive rubber pads.
- 2 terminal link cables
- Cleaning cloth

Wood is a natural material and veneers vary between batches. Expect some variation in the finish between all the speakers in a home theatre installation.

Positioning (figure 2)

If using a projection television with an acoustically transparent screen, place the speaker behind the centre of the screen. Otherwise position it directly above or below the screen, whichever is closest to ear level. Align the front of the speaker approximately level with the screen.

Fix the 4 self-adhesive pads to the base of the speaker. They give a degree of vibration isolation, especially useful if placing the speaker directly on top of a fairly flimsy television. The flat area on top of the television may be smaller than the base of the speaker, so position the feet accordingly.

Alternatively, if you require more isolation or the support surface is not quite flat, you may use 4 pieces of malleable re-usable adhesive (for example Bostik® Blu-Tack®).

Stray magnetic fields

The speaker drive units are magnetically shielded such that the stray magnetic field outside the boundaries of the cabinet, except the front, is too low to cause distortion of the television picture in the vast majority of cases.

There are, however, some extremely sensitive televisions - some that even have to be adjusted according to their alignment with the earth's magnetic field. If you have a problem, first de-gauss the television set with the speaker in place. Some have a button specially for this purpose. If not, switch off the set at the mains for 15 minutes and switch on again. Merely putting the set into standby mode is not sufficient.

If you still have a problem, try moving the speaker either forwards or backwards a little to get a more favourable juxtaposition, or space the speaker further from the television until the distortion disappears.

Because of the higher stray magnetic field in front of the speaker, we recommend you keep magnetically sensitive articles (computer discs, audio and video tapes, swipe cards and the like) at least 0.2m from the speaker.

Connections (figure 3)

All connections should be made with the equipment switched off.

There are 2 pairs of terminals at the back of the speaker to permit bi-wiring. The lower pair feed the bass units and the upper pair feed the midrange and tweeter.

The terminals are insulated to prevent any likelihood of electrical shock, even when the speakers are used with the highest powered amplifiers, and accept a variety of cable termination to suit most applications.

Bi-wiring is the preferred method of connection and involves the use of separate cables from the amplifier to each pair of terminals. The separation of the signal paths improves the resolution of low-level detail and allows the user to optimise the type of cable to the frequency range of use.

Should you not want to bi-wire, perhaps during the initial set-up procedure or because you do not want to see a multitude of cables in the room, short cables are provided to link both positive and both negative speaker terminals together.

When using the links, insert the spade into the slot in the side of one terminal and the crimped pin into the round side hole in the other. There is enough clearance to insert a spade connector from the amplifier into the same terminal as the crimped pin.

Ensure each positive terminal on the speaker (coloured red) is connected to the positive output terminal of the amplifier and negative (coloured black) to negative. Incorrect connection can result in poor imaging and loss of bass.

When bi-wiring, do not use the linking cables. Take extra care with the polarity of the connections as incorrect connection can also impair the frequency response through the bass-midrange crossover and, if the links are left in place, may cause damage to the amplifier by shorting its output terminals.

Fine tuning

Before fine tuning, double check that all the connections in the installation are correct and secure.

For greatest realism in home theatre installations it is important to balance the speakers and adjust the acoustic image to match the size of the screen. With smaller screens it may be more realistic to have the left and right speakers closer together than you might for audio alone.

Adjust the levels of the three front speakers to get a smooth transition of sounds as they pan across the screen. Adjust the level of the surround speakers so that, except for special effects, your attention is not unduly attracted to them.

Sit in all likely listening positions when deciding on the optimum levels.

Consult your decoder manual for further information on how to set the levels.

For the most discerning listening, remove the cloth covered grille as described below in the section "Aftercare". The tweeter is very delicate and its grille should be left in position for protection. For this reason the grille retaining ring is designed to provide the optimum acoustic environment for the unit and the response is less smooth with the grille removed.

Running-in period

The performance of the speaker will change subtly during the initial listening period. If the speaker has been stored in a cold environment, the damping compounds and suspension materials of the drive units will take some time to recover their correct mechanical properties. The drive unit suspensions will also loosen up during the first hours of use. The time taken for the speaker to achieve its intended performance will vary depending on previous storage conditions and how it is used. As a guide, allow up to a week for the temperature effects to stabilise and 60 hours of average use for the mechanical parts to attain their intended design characteristics.

Ancillary equipment

Speakers of this ability deserve signals of the highest quality. Choose your electronic equipment and interconnecting cables with care. We can give guidance on what to look for when choosing ancillary equipment, but cannot recommend specific items. The standards of such products are improving all the time and your dealer will be able to demonstrate a variety of suitable up-to-date products.

In the specification we recommend a range of amplifier powers. The higher figure is defined by the power handling capability of the speaker. When calculating the power handling, it is assumed that the amplifier is not run into clipping, which distorts the frequency power spectrum of the signal, and that the signal is normal programme material. Test tones from oscillators and the like are not applicable. The lower figure is the minimum we consider necessary to achieve reasonable listening levels without audible distortion in the smaller room (less than 60 m³ or 2000 cu ft). The higher the power you use, the less likely you are to experience amplifier clipping. You can often tell how good an amplifier is at driving complex speaker loads by looking at its power rating into both 4Ω and 8Ω loads. The nearer the ratio is to 2:1 the better, as it indicates a good current capability.

In order to reduce the effect the cable has on the frequency response of the speaker to inaudible levels, the impedance of the cable at all frequencies (measuring both positive and negative conductors in series) should be kept as low as possible and certainly below 0.1Ω. At low frequencies, the DC resistance of the cable is the dominant factor and you should choose a gauge of wire sufficient to achieve the impedance requirements over the length of cable you need to use. At mid and high frequencies the inductive component of the impedance can dominate the DC resistance. This and other properties influenced by the detailed construction of the cable become important. Ask your dealer for advice on the best cable for your needs.

Aftercare

The cabinet surface usually only requires dusting. If you wish to use an aerosol cleaner, remove the grille first by gently pulling it away from the cabinet. Spray onto the cleaning cloth, not directly onto the cabinet. The grille fabric may be cleaned with a normal clothes brush whilst the grille is detached from the cabinet.

The surface of the tweeter housing will benefit from the use of an anti-static cleaner. Do not attempt to remove the tweeter grille.

Avoid touching the drive unit diaphragms, especially the tweeter, as damage may result.

Français

Garantie limitée

Cher Client,

Bienvenue à B&W.

Ce produit a été conçu et fabriqué en vertu des normes de qualité les plus rigoureuses. Toutefois, en cas de problème, B&W Loudspeakers et ses distributeurs nationaux garantissent une main d'œuvre (exclusions possibles) et des pièces de rechange gratuites dans tout pays desservi par un distributeur agréé de B&W.

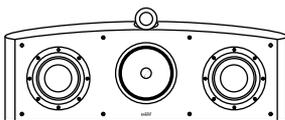
Cette garantie limitée est valide pour une période de cinq ans à compter de la date d'achat ou une période de deux ans pour les composants électroniques, y compris les haut-parleurs amplifiés.

Conditions

- 1 La garantie est limitée à la réparation de l'équipement. Les frais de transport ou autres, les risques associés à l'enlèvement, au transport et à l'installation des produits ne sont pas couverts par cette garantie.
- 2 La garantie est exclusivement réservée au propriétaire d'origine et ne peut pas être transférée.
- 3 Cette garantie ne s'applique qu'aux produits faisant l'objet de vices de matériaux et/ou de construction au moment de l'achat et ne sera pas applicable dans les cas suivants :
 - a détériorations entraînées par une installation, connexion ou un emballage incorrect,
 - b détériorations entraînées par un usage autre que l'usage correct décrit dans le manuel de l'utilisateur, la négligence, des modifications ou l'usage de pièces qui ne sont pas fabriquées ou agréées par B&W,
 - c détériorations entraînées par un équipement auxiliaire défectueux ou qui ne convient pas,
 - d détériorations résultant de : accidents, foudre, eau, chaleur, guerre, troubles de l'ordre public ou autre cause ne relevant pas du contrôle raisonnable de B&W ou de ses distributeurs agréés,
 - e les produits dont le numéro de série a été modifié, effacé, éliminé ou rendu illisible,
 - f les produits qui ont été réparés ou modifiés par une personne non autorisée.
- 4 Cette garantie vient en complément à toute obligation juridique nationale / régionale des revendeurs ou distributeurs nationaux et n'affecte pas vos droits statutaires en tant que client.

Comment faire une réclamation en vertu de la garantie

Veillez respecter la procédure ci-dessous, si vous souhaitez faire une réclamation sous garantie :



Signature HTM

| | |
|----------------------------------|--|
| Technical Features | <p>Nautilus™ tweeter Kevlar® brand fibre cone FST drive unit Matrix cabinet Magnetic Shielding</p> |
| Description | 3-way closed-box system |
| Drive units | <p>1x ø25mm (1 in) metal dome high-frequency 1x ø150mm (6 in) woven Kevlar® cone FST midrange 2x ø165mm (6.5 in) paper/Kevlar® cone bass</p> |
| Frequency range | <p>-6dB at 35Hz and 50kHz -3dB at 42Hz and 42kHz</p> |
| Frequency response | 49Hz - 23kHz ±2dB on reference axis |
| Dispersion | <p>Within 2dB of response on reference axis Horizontal: over 60° arc Vertical: over 10° arc</p> |
| Sensitivity | 90dB spl (2.83V, 1m) |
| Harmonic distortion | <p>2nd and 3rd harmonics (90dB, 1m) <1.0% 70Hz - 20kHz <0.5% 150Hz - 18kHz</p> |
| Nominal impedance | 8Ω (minimum 3.0Ω) |
| Crossover frequencies | 350Hz and 4kHz |
| Power handling | 50W - 250W into 8Ω on unclipped programme |
| Max. recommended cable impedance | 0.1Ω |
| Dimensions | <p>Height: 318mm (12.5 in) Width: 783mm (30.8 in) Depth: 316mm (12.4 in)</p> |
| Net Weight | 21.0kg (46 lb) |

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