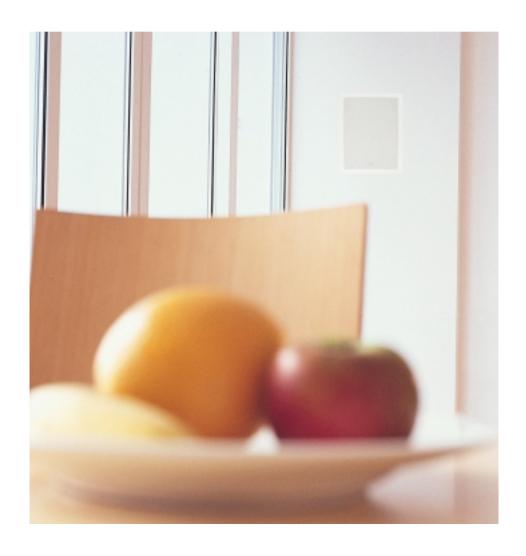
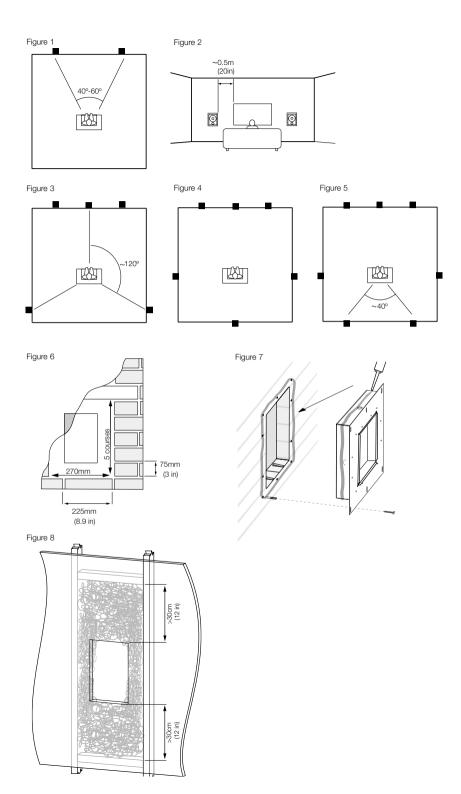




Custom Inwall

CWM6260 Owner's Manual and Warranty





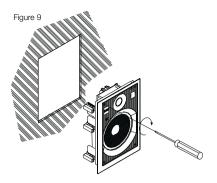


Figure 10

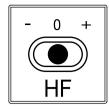
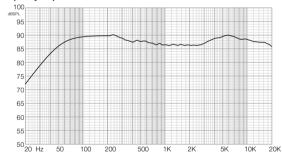


Figure 11

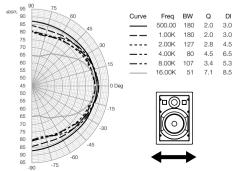
| AWG | 0.2Ω | 0.3Ω | 0.4Ω | 0.5Ω | Loop Resistance |
|-----|------|------|------|------|--------------------|
| 20 | 10 | 15 | 20 | 25 | |
| 18 | 16 | 23 | 31 | 39 | |
| 16 | 25 | 37 | 49 | 62 | |
| 14 | 39 | 59 | 78 | 98 | Feet |
| 12 | 62 | 93 | 124 | 155 | |
| 10 | 98 | 147 | 196 | 245 | |
| 9 | 123 | 185 | 247 | 309 | |

| mm ² | 0.2Ω | 0.3Ω | 0.4Ω | 0.5Ω | Loop Resistance |
|-----------------|------|------|------|------|--------------------|
| 0.5 | 2.9 | 4.4 | 5.9 | 7.4 | |
| 0.75 | 4.4 | 6.6 | 8.8 | 11.0 | |
| 1 | 5.9 | 8.8 | 11.8 | 14.7 | |
| 1.5 | 8.8 | 13.2 | 17.6 | 22.1 | Metres |
| 2.5 | 14.7 | 22.1 | 29.4 | 36.8 | |
| 4 | 23.5 | 35.3 | 47.1 | 58.8 | |
| 6 | 35.3 | 52.9 | 70.6 | 88.2 | |

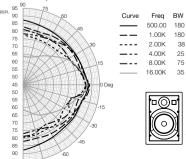
Frequency response



Polar Response Horizontal



Polar Response Vertical



Q DI

14.1 11.5

4.8 6.8

10.4 10.2

3.0

3.0

9.7

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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:
- for damages caused by incorrect installation, connection or packing,
- 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,
- 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,
- 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:

- 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 purchasing Bowers and Wilkins CWM speakers.

Since its foundation in 1966, the continuing philosophy of B&W has been the quest for perfect sound reproduction. Inspired by the company's founder, the late John Bowers, this quest has entailed not only high investment in audio technology and innovation but also an abiding appreciation of music and movies to ensure that the technology is put to maximum effect.

These CWM speakers are primarily intended for in-wall applications, but may equally well be used in-ceiling. They feature adjustment for tweeter output level so that their performance may be tailored to a wide variety of practical conditions.

However, no matter how good the speakers themselves, they will not deliver their full potential unless properly installed. Please read through this manual fully. It will help you optimise the performance of the system

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

Check the contents

This pack should contain:

2x wall frame/baffle with drive units and crossover

2x grille with backing scrim fabric 2x paint mask

2x mounting template

Choosing the position

Check that there is no conflict with other installations (pipe work, air conditioning, power cabling etc.). In existing drywall construction, use a stud-finding tool to map the construction accurately and a pipe detector to scan the proposed installation position.

Refer to the section drawing of the speaker and ensure that there is enough clearance behind the plasterboard (sheetrock) for the clamps to swing out fully.

Avoid installing the speakers in the same cavity as flimsy ducting, which may be induced to rattle.

The speakers are designed to operate satisfactorily in a wide range of cavity volumes, ideally above 10 litres (0.4 cu ft),

so make sure the volume is not too restricted by cross studs.

In solid wall construction, be prepared to provide a cavity in the wall that extends outside the boundaries of the speaker's frame, otherwise bass performance will be compromised

The speakers are balanced for half-space mounting (lie flush in a ceiling or soffit). Placement near a wall/ceiling junction or in a corner may give rise to too much bass and a boomy quality to the sound. Try to keep the speakers at least 0.5m (20in) from wall/ceiling edges.

The following sections give guidance on optimum positioning, but this may be modified in line with domestic constraints.

WARNING: The speakers produce a static magnetic field. They should not be placed within 0.5m (20in) of equipment that may be affected by such a field (eg Cathode Ray Tubes in TVs and Personal Computers).

Front speakers for audio or home theatre

Best imaging for 2-channel is obtained when the speakers are mounted in the wall approximately at ear height and making an angle between 40° and 60° at the centre of the listening position. (figure 1)

For multi-channel home theatre the left and right speakers should be approximately 0.5m (20 in) to the left and right of the screen and they and the centre speaker should be as near the centre height of the screen as possible. For a centre speaker, choose between above or below the screen depending on which is nearer ear height. (figure 2)

Surround speakers

The speakers should be positioned 60cm (2 ft) or more above head height.

5.1 channel

The horizontal angle to the centre of the listening position should be approximately 120° round from the centre of the screen. (figure 3)

6.1 channel

Position two speakers to the sides in line with the centre of the listening area and one centrally behind the listeners (figure 4)

7.1 channel

Position two speakers to the sides in line with the centre of the listening area and two behind the listeners, subtending an angle of approximately 40°. (figure 5)

PREPARING THE LOCATION

Choosing cable

Excessive resistance in the speaker cable wastes power and alters the frequency response of the speaker. Always try to keep the resistance as low as possible with the loop resistance preferably below 0.5 ohms for non-critical applications and below 0.2 ohms for best results. Use the table of figure 11 to calculate the minimum gauge of cable required.

Existing drywall construction (retrofit)

Position the template at the desired location of the speaker. The template is marked with both vertical and horizontal centre lines to aid alignment.

Trace round the outer edge of the template and cut neatly just inside the line.

To improve the mechanical integrity of the wall and reduce the likelihood of rattles, we recommend you apply a bead of wood glue or mastic along the joints between the back of the plasterboard and the studs in the vicinity if the speaker.

Run the cable to the aperture, allowing enough length to comfortably connect the speaker, but not too much, as the excess may rattle against the structure.

New drywall construction

The speaker can be installed once the wall is completed in the same manner as retrofitting, but it is easier to position and cut the hole if the optional pre-mount kit is used before the plasterboard (sheetrock) is fitted.

Staple or nail the PMK to the studs as described in the instructions with the kit. Run the cable and secure it to the fixing point on the PMK. Allow enough length to comfortably connect the speaker, but not too much, as the excess may rattle against the structure.

Results are affected by how well the plasterboard is attached to the studs and we recommend gluing as well as screwing or nailing the panels to the studs in the vicinity of the speaker.

Once the board is fitted, the inner flange of the PMK serves as a guide for a hole router or saw

If extra acoustic isolation to adjoining rooms is required or some protection against the spread of fire, use the optional back box in place of the PMK. Follow the instructions with the back box for fitting and running the cable.

When fitting the plasterboard, use mastic between the sheets and the back box to avoid rattles. Rout or saw out the speaker aperture using the backbox flange as a guide. Depending on the diameter of the router, you may need to square off the corners with a saw.

Solid wall construction

In order for the bass performance not to be compromised, the speaker requires a cavity volume of at least 10 litres (0.4 cu ft). This means that, in a standard 10cm (4 in) thick wall, the cavity will extend beyond the boundaries of the speaker frame. It is possible to provide this cavity simply by using a lintel, covering the hole with plasterboard and fitting the speaker as described above for retrofitting into a drywall. (figure 6) However, the back box provides a useful means of defining the minimum volume required.

Follow the instructions with the back box for fitting and running the cable. If using a wet plaster finishing method, first paint a layer of PVA adhesive onto the back box before

plastering to avoid rattles as a result of the plaster shrinking away from the back box as it dries

If using plasterboard, stick the sheets to the surfaces of the back box using flexible mastic. Rout out the aperture using the flange as a guide. Depending on the diameter of the router, you may need to square off the corners with a saw.

In all cases, we recommend not using cement or mortar to fix the back box into the brick or blockwork. rattles are best avoided by using flexible mastic and wedges. (figure 7)

Damping the cavity

Fill the wall cavity or back box, but not the space immediately behind the speaker, with unlined fibreglass or mineral wool matting. The packing density should be just enough to comfortably prevent the material from dropping or sagging over time. In an open wall cavity, fill to a distance of at least 30cm (1 ft) above and below the speaker. (figure 8)

IMPORTANT: Ensure that the materials you use meet local fire and safety regulations.

Fitting the speaker

All connections should be made with the equipment switched off.

Connect the cable, observing the correct polarity.

With the grille removed, position the speaker in the aperture and screw in the 6 screws visible from the front. These screws automatically swing out clamping dogs that locate behind the mounting surface. (figure 9) Ensure that they have located properly before fully tightening the screws. A certain amount of flexing of the frame is allowed to take up unevenness in the mounting surface, but do not overtighten the screws as excessive distortion of the speaker frame may result.

Adjusting the speaker

The switch on the front baffle provides boost or cut to the speaker's high-frequency output level to compensate for listeners positioned severely off axis or a dull acoustic (boost) or highly reflective rooms (cut). (figure 10)

Customising

The frame has a paintable white semi-matte finish, ready if necessary to be re-finished to match your own decor. Fit the paint mask before re-finishing. Do not re-finish the drive units or baffle area behind the grille. Avoid touching the drive units, as damage may result.

Before painting the grille, peel off the fabric scrim from the back, otherwise the pores will get clogged and the sound will be impaired. If the scrim does not stay in place properly when replaced, spray the back of the grille mesh (NOT the scrim) with a light coating of 3M SprayMount adhesive or similar.



CWM6260

Description 2-way in-wall speaker system

Drive units 1x 25mm (1in) high-frequency

1x 165mm (6.5 in) woven fibreglass mid/bass

Frequency range -6dB at 40Hz and 30kHz

Frequency response 50Hz - 22kHz ± 3dB

Sensitivity 89dB spl (2.83V, 1m)

Nominal impedance 8Ω (minimum 3.4Ω)

Crossover frequency 3.2kHz

Recommended amplifier 20W-130W continuous into 8Ω on unclipped programme

power

Frame size Height: 310 (12.2in)

Width: 216 (8.5in)

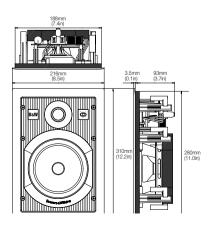
Cut-out size Height: 280mm (11.0in)

Width: 188mm (7.4in)

Min depth req 93mm (3.7in) from ceiling surface

Net weight 2.1kg (4.7lb)

PMK PMK650



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