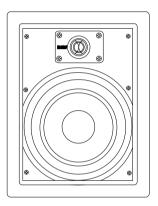
Contractor Series

CWM200 Owner's manual



Bowers & Wilkins

Figure 1

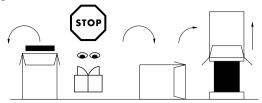


Figure 2

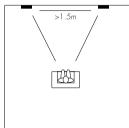
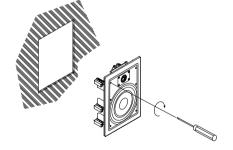


Figure 3



Owner's manual CWM200

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INTRODUCTION

Thank you for purchasing Bowers and Wilkins Contractor Wall Mount (CWM200) 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 to ensure that the technology is put to maximum effect.

It is also our policy to make sure the advanced features pioneered on one product are incorporated into others we manufacture

However, no matter how good the speakers themselves, they must work well into the listening room and time spent on planning the installation will reap the reward of many hours listening pleasure. Please read through this manual fully. It will help you optimise the performance of the system.

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

UNPACKING

(figure 1)

- Fold the top carton flaps right back and invert the carton and contents.
- Lift the carton clear of the contents.
- · Remove the inner packing from the product.

Check the contents:

- 2x Baffle with drive units, crossover
- 2x Loudspeaker grille
- 1x Alignment template
- 2x Paint mask

We suggest you retain the packaging for future use. Remove the grilles from the wall frames and, to avoid damage, keep them in their plastic bags (and preferably in the carton) away from the work area until you are ready to fit them.

POSITIONING - NEW CONSTRUCTION VERSUS RETROEIT

Check that there is no conflict with other installations (pipe work, air conditioning, power-cabling etc.). In existing construction, use a stud-finding tool to map the construction accurately and a pipe detector to scan the proposed installation position. Avoid installing the speakers in the same cavity as filmsy ducting, which may be induced to rattle. The speakers are designed to operate satisfactorily in a wide range of cavity volumes, ideally above 15 litres (0.5 cu fil.

The speakers are balanced for half-space mounting (i.e. flush in a ceiling or softit). Placement near a wall/ceiling junction or in a corner is to be avoided as it may give rise to too much bass and a boomy quality to the sound. If possible, keep the speakers more than 0.5m (20in) from the ceiling edges.

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

The speakers should be positioned with the tweeters at a little above ear height. The spacing between them will depend on the size of the room and distance to the listeners. As a general rule they should not be closer to the listener than 1.5m (5Ft) and the distance between them should not exceed their distance from the listeners. Having the speakers and the listeners approximately at the corners of an equilateral triangle is not a bad rule to follow. This arrangement generally provides the best stereo imaging. If the speakers are paced too far apart, a hole-in-the-middle effect may become apparent Too close and the panoramic effect will be lost, accompanied by a reduction in depth

For Home theatre Installations, the speakers should not be closer together than the width of the screen and their height should be approximately at centre screen height.

Home Theatre Surround Speaker Applications

The sound from surround speakers should be as diffuse as possible. This ensures that the frontal audio image is not distorted by changes of listener position or head movements. The speakers should generally be placed behind and 0.6m [2ft] or more above ear height. Ceiling mounting often gives good results in this application. The orientation is less important in this application than in other cases.

WARNING: The CWM speakers produce a static magnetic field that extends outside the cabinet boundary. As such They should not be placed within 0.5m (20in) of equipment that may be affected by such a field, e.g. Cathode Ray Tubes in TVs and Personal Computers.

DAMPING THE WALL CAVITY

In addition, loosely fill the whole section of the cavity with wadding. Fibreglass and mineral wool matting supplied for heat insulation are suitable, but not closed cell foam or expanded polystyrene. Check that there is no debris that may fall into the speaker (especially in ceiling mount situations).

IMPORTANT: YOU SHOULD CHECK THAT THE MATERIALS YOU USE MEET THE LOCAL FIRE AND BUILDING REGULATIONS

FITTING THE WALL FRAME

Existing Construction

Position the template on the surface as required Mark around the outside of the template and cut the aperture neatly.

All Methods

(figure 2)

Position the frame in the ceiling and screw in the 4 screws visible from the front of the frame. These screws swing out clamping dogs that locate behind the drywall. Ensure that they have located properly and tighten the screws. A certain amount of flexing of the frame is allowed to take up unevenness in the mounting surface, but do not over tighten the screws as excessive distortion of the frame may occur.

CUSTOMISING

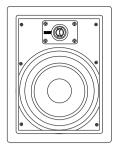
The frame has a paintable white semi-matte finish, ready if necessary to be re-finished to match your own decor. Fit the paint mask before re-finishing. Do not re-finish the drive units or baffle area behind the grille. Avoid touching the drive units, as damage may result.

CONNECTIONS

All connections should be made with the equipment switched off.

The terminals accept bare wires. Connect the red (4-ve) terminal to the positive terminal of the amplifier and the black (ve) to the negative. Failure to observe correct polarity will result in ill-defined panning of sounds and strange phase effects.

When choosing cable, keep the total electrical impedance (out and back) below the maximum recommended in the specification. Ask your dealer for advice, as the optimum cable will depend on the length required. Cut off excess length and tie down loose cable to prevent cittles.



CWM200

1x 25mm (1in) high-frequency **Drive units** 1x165mm (6.5in) mid/bass

Frequency response 50Hz - 20kHz ±3dB

> Sensitivity 89dB spl (2.83V, 1m)

Nominal impedance Ω 8

Crossover frequency 3.5kHz

Cut-out size

Recommended 20W - 130W continuous into 8Ω

amplifier power on unclipped programme.

> Frame size Height: 306mm(12in)

Width: 219mm(8.6in)

Height: 283mm(11.1in) Width: 196mm(7.7in)

Min depth required 73mm (2.9in) from wall surface

> Net weight 1.3kg (2.9lb)

> > Finishes Semi-matt white suitable for

customising or pre-painting

