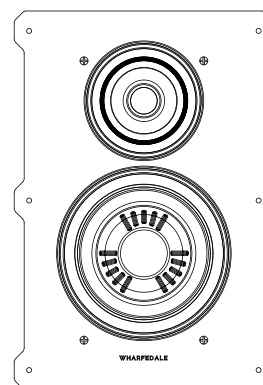
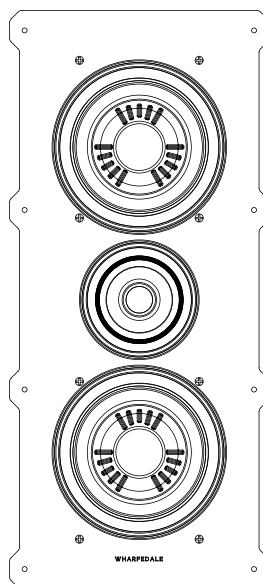
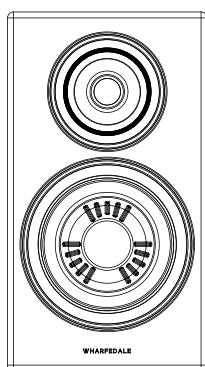
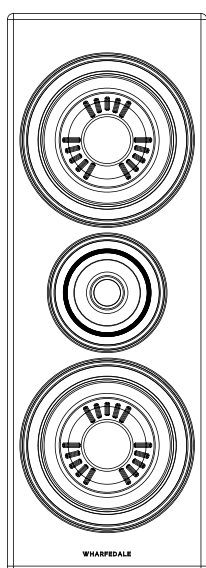
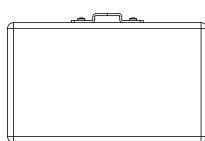
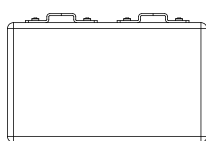


DIAMOND OW / IW series

DIAMOND OW-2
DIAMOND OW-1

DIAMOND IW-2
DIAMOND IW-1



Important Safety Information

Before installing this product read all these instructions!



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Before making any connections, switch all the units in your system off at the mains.

Set the volume control at minimum when you switch on your system or change sources, and turn the level up gradually.

DO NOT use your amplifier at full volume.

Ensure that all loudspeakers in the system are correctly wired.

DO NOT subject your loudspeakers to excessive cold, heat, humidity or sunlight.

Loudspeakers should not be placed directly facing other hi-fi units, or share the same shelf or cabinet.

DO NOT place heavy objects on top of loudspeakers.

Some manufacturers forbid the placing of objects on top of their TV sets. Check your TV handbook before installing the speaker directly on your TV set. Consult your TV dealer if you are in any doubt.

DO NOT connect speaker terminals to the mains supply.

DO NOT dismantle the loudspeaker. There are no user serviceable parts inside it and you will void the warranty by doing so.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

Unpacking Your Loudspeaker

Wharfedale OW/IW loudspeakers come in different shapes and sizes. If you are unpacking a floor stander, please remember that these units are heavy. We suggest that you have someone to assist you.

Lift the loudspeaker carefully out of the packing. **DO NOT** try and lift the loudspeaker using the protective bag.

Unpack the accessories carefully.

If there is any sign of damage or if the contents are incomplete, report this to your dealer as soon as possible.

Retain the packing for future safe transport of the product. If you dispose of the packing, do so with respect to any recycling provisions in your area.

Looking After Your Loudspeaker

- Your loudspeakers use special hardwearing sealed finish. They should not be waxed or treated with spray polishes which will smear and dim the finish. Occasionally polish them with a dry or barely moist cloth to remove dust and finger marks, etc.
- If you play the speakers with the grilles off exercise great care. **NEVER** operate speakers with the grilles off if there are children or pets in the house.
- Occasionally, remove the loudspeaker grilles and brush them gently with a soft brush before replacing them carefully.
- **NEVER** use a vacuum cleaner to clean loudspeaker grilles.
- **NEVER** stand objects on your loudspeakers. In particular do not stand flowers etc. on them - they are not jardinières!
- Avoid getting any liquid behind the grille. If you spill liquid on your loudspeakers, take them to your dealer for attention before using them again.
- **DO NOT** open the speakers, there are no user serviceable parts inside.
- **NEVER** touch the drive units either with an object or your hands.

Welcome to Wharfedale !

Destined to become the reference home entertainment speaker system, the OW/IW series offers transparency and neutrality that surpasses far larger, more costly systems. More compact than any speaker capable of rendering such clarity and pinpoint detail, the ultra-smooth OW series ensure unsurpassed, effortless realism even in very large rooms.

General Information

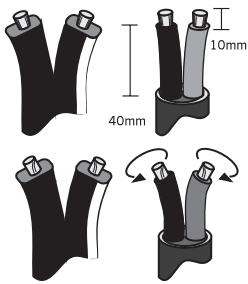
Please read these instructions carefully before installing your loudspeakers. A few minutes studying this manual will ensure a superb performance from your loudspeaker for many years. Please pay attention to all cautions printed on the pages marked with this symbol



Preparing the OW/IW Loudspeakers

Preparing Loudspeaker Cable

Split the twin cores to a depth of about 40mm. Carefully strip the insulation from each end, leaving about 10mm of bare wire. If the cable is stranded, lightly twist to gather any loose strands.

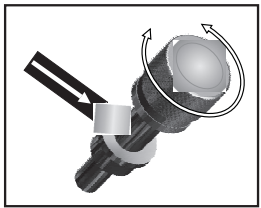


Connecting Screw Terminals

All loudspeakers use screw terminals.

Unscrew the terminal, Insert the bare end of the cable into the hole in the base of the terminal. Tighten securely. When connecting terminals make sure you leave no strands of bare wire that can short across to adjacent terminals.

As an alternative to bare wire you can use specialist spade connectors. Your Wharfedale dealer will be pleased to advise you on this issue.



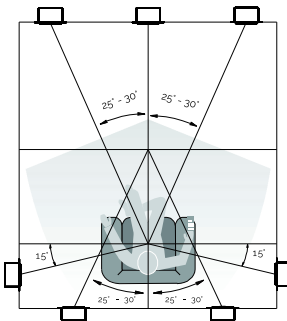
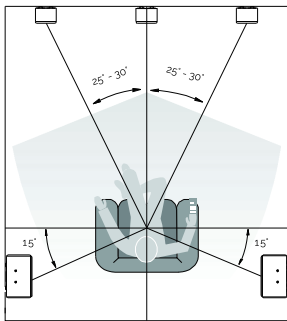
Attention: before making these connections, follow the instructions for wall mounting in the Installation diagrams on Page 3

OW/IW wall speakers installation

The OW/IW series are all wall hung/in-wall speakers. It is suggested that you put them on the wall facing the listener, ideally at least 300mm from the side walls.

For rear speakers you can mount them higher on the wall, if preferred, to provide even distribution of surround effects throughout the area behind the listener.

The loudspeaker is best mounted with its centre at ear height for a seated listener, though you may wish to align the speakers with a video screen.

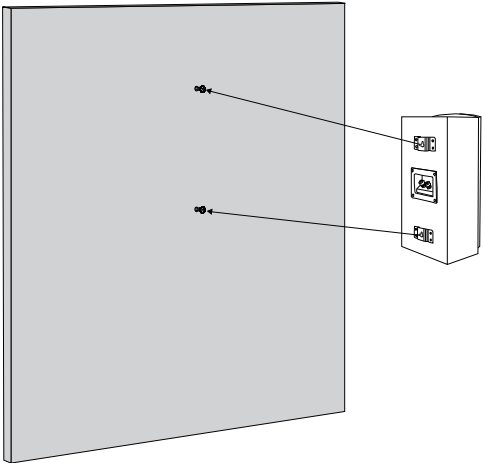


The hanging method

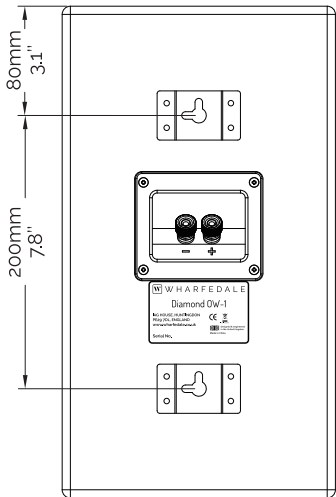
DIAMOND OW-1

Installation: Fit the rubber feet supplied to cushion the speaker against the wall.

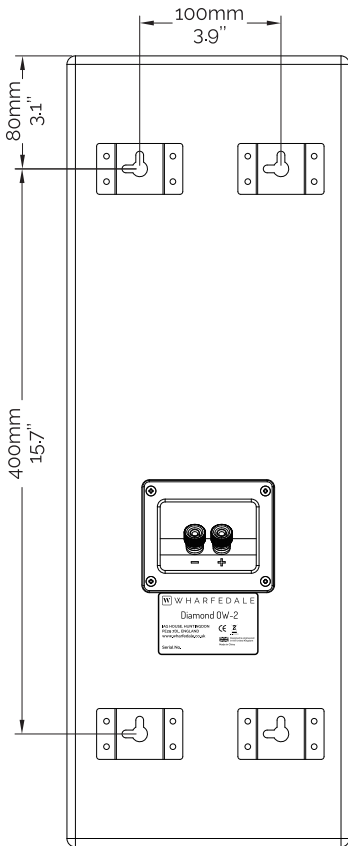
Mark the positions for the mounting screws using the template provided. It is recommended to use a spirit level to align the screws correctly.



Note: after fitting screws to the wall, position the speaker carefully so the screws line up with the keyhole slots in the brackets. Then push down to secure the brackets.



OW-1

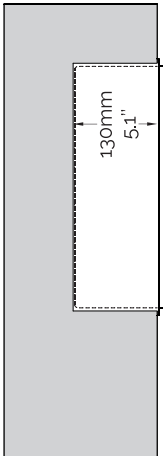


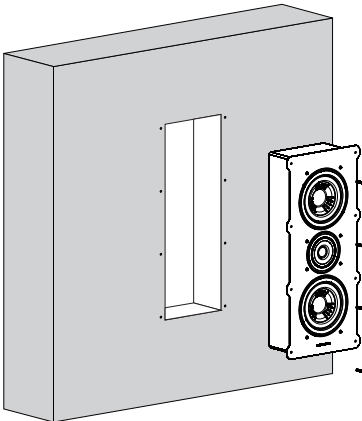
OW-2

In-wall speaker mounting method


DIAMOND IW-2

Please refer to the cut-out template included in the packaging for fixings and dimensions.





Note: create the hole in the wall first, put the loudspeaker into the hole, then lock it firmly with the screws and cover with the grille.



Setting Up a Home Theatre System

Placement

Front and Effects Channels: The front loudspeakers are placed on either side of the television screen, 2 to 3 metres apart.

We recommend placing the rear effects speakers in a high position, behind the listener's head. The front faces of the centre and surround loudspeakers should also be in line as far as possible.

Subwoofer: As the ear is unable to detect the direction from which deep bass originates, you have freedom to position the unit. Varying the distance from the wall alters the bass. Placing the subwoofer across a corner boosts the bass but may impair clarity. The performance of a home theatre system can be enhanced by using two subwoofers.

6.1 and 7.1 System Placement

Dolby Labs, DTS and THX offer 6.1 and 7.1 format. Although the precise configuration of these systems will depend on the capabilities of your processor and you should be guided by those instructions, we would make some observations.

For 6.1 and 7.1 formats the listening seat should not be too close to the rear wall.

Optimising the time delay so that information from all speakers arrives the listening seat coherently is critical of the benefits of these systems are to be fully realised.

Dolby Labs Recommended Placement for Multichannel Home Theater Systems.

Setting Loudspeaker Sizes and Levels

If you are not using a subwoofer: Set the Front speakers to 'Large'. Set the 'Subwoofer' option on the processor to 'Off' or 'No'. The Front channels will now receive all the system bass.

If you are using a subwoofer: When set to 'Small' all the system bass will go into the subwoofer. If you choose 'Large' the Front channel bass will be reproduced from the Front speakers. Follow the instructions on this page for suitable size and crossover settings.

Once the loudspeaker settings have been finalised, put the A/V amplifier into its 'Test' mode (see instructions supplied with your processor). Adjust the level of each channel until all channels are reproduced at equal loudness.

On some programme material the surround channel may seem lower than the front. Do not readjust this level. You may, however, need to adjust the subwoofer output level. Avoid setting too high a level or you will swamp the sound with bass. This can be tiring to listen to, and may limit the subwoofer's ability to respond to large bass transients. You should also set a sensible level going into the subwoofer from the A/V processor. The subwoofer volume control should be between 12 o'clock and 3 o'clock.

Delay and LFE Settings

Many AV processors feature delay settings. The purpose of delay is to enable surround and dialogue information to arrive at the listener's ears at the same time as the front channels, even when the listening seat is in a non-ideal position. On some processors, this can be achieved by setting the distance from the listening position to each speaker, but other system allow only a time delay setting.

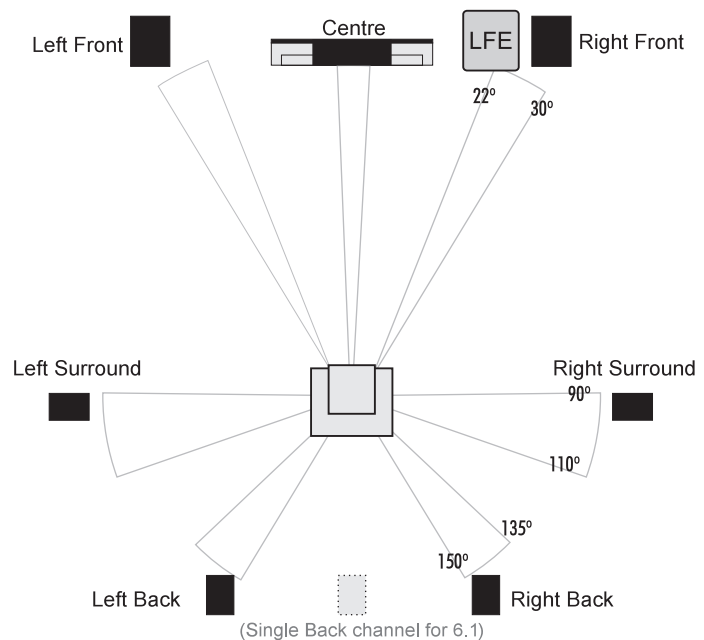
Rear Delay: If the listening position is equidistant from the front and rear speakers, set a low delay setting. The closer the listener is to the rear speakers this higher the delay setting used should be.

Centre Delay: If the centre speaker is level with (or slightly behind) the front speakers, set the delay to zero. If the centre speaker is forward of the front speakers, increase the delay.

LFE: In the cinema the Low Frequency Effects channel is an extra bass channel with its own subwoofer. In domestic systems the LFE channel typically feeds into the subwoofer. Where no subwoofer is used, the LFE signal is combined with the front channels and sent to the front speakers. When you set the LFE level at your A/V processor, use care as powerful low frequencies can overload domestic loudspeakers. If you hear popping or thumping noises coming from the front loudspeakers or subwoofer, immediately turn the AV processor's volume level down and then lower the LFE level. This should cure the problem. If it does not, lower the volume level at the subwoofer (if you are using one) until the problem disappears.

Phase: Please read the relevant sections of your AV amplifier manual and familiarise yourself with the various issues. If you are unsure, consult your dealer for help. A home theatre system should have a precise front stage, a diffuse rear stage and good localization of dialogue. If the colours on the loudspeaker terminals do not correspond with those on the amplifier, the sound will appear poorly focused or 'out of phase'. For this reason it is essential that the speakers are connected according to the wiring diagrams in this manual.

Connecting loudspeakers correctly (in phase) is essential whether the system is stereo or multichannel. This is especially important if you are biwiring - if only one element in a bi-wired system is incorrectly connected (out of phase), the effects can be very noticeable yet hard to pinpoint.



Troubleshooting

Before investigating a problem, always switch off the system at mains.
If your system is not working properly please work through this checklist before returning the unit to your dealer.

Symptom	Possible Cause
No Sound	System not switched on; Speaker cables shorting terminals out; Wrong source selected
Sound lacks bass content	Subwoofer not switched on
Lack of bass reproduction	Subwoofer phase incorrect; Subwoofer crossover control too low
Excessive bass distortion at low volumes	Subwoofer set to high; LFE level set too high; Subwoofer incorrectly wired
Excessive or distorted bass at high levels	System level set too high; Bass control set too high; Subwoofer too close to room corners
Distorted / rattling sound at high levels	System level set too high; Objects too close to subwoofer
Popping or thumping from the subwoofer	System level set too high; Subwoofer level set too high; LFE level set too high

Quality Assurance

Your loudspeakers have been constructed to the highest standards. From top grade furniture construction and finish to carefully designed and selected acoustic components, Wharfedale speakers are built to provide a lifetime of sonic pleasure. We hope you will derive many years of good service from our products.

Servicing

In the unlikely event that your unit develops a fault you should return it to your Wharfedale dealer using the original packing to ensure safe shipping.

The terms of your guarantee may vary in different countries. However, in all cases the guarantee excludes: Liability for damage or loss occurring in transit to or from the purchaser.

All damage caused through accident, misuse, wear and tear, neglect, incorrect installation, adjustment or repair by unauthorised personnel.

Wharfedale will not be liable for any consequential damage, loss or injury, arising from or in conjunction with this equipment.

Service Centre Address

For technical support, servicing or product queries and information please contact either your local retailer or the office below.

UK

IAG Service Dept.
13/14 Glebe Road
Huntingdon
Cambridgeshire
PE29 7DL
UK

Tel: +44(0)1480 452561
Fax: +44(0)1480 413403

For information on other authorised service centres worldwide contact Wharfedale International, UK.
A world wide distributors list is available on the Wharfedale website: www.wharfedale.co.uk

Specifications

Model	DIAMOND OW-2	DIAMOND OW-1
General description	2-way 'on wall' loudspeaker	2-way 'on wall' loudspeaker
Enclosure type	closed-box	closed-box
Transducer complement	2-way	2-way
Bass driver	6.5" (150mm) advanced PP Cone x2	6.5" (150mm) advanced PP Cone
Midrange driver		
Treble driver	1" (25mm) Textile Dome	1" (25mm) Textile Dome
AV shield	No	No
Sensitivity (2.83V@ 1m)	88dB	86dB
Recommended amplifier power	40-150W	20-100W
Peak power handling	150W	100W
Peak SPL	102dB	96dB
Nominal impedance	4Ω Compatible	4Ω Compatible
Minimum impedance	4.3Ω	3.9Ω
Frequency response (+/-3dB)	90Hz-20kHz	80Hz-20kHz
Bass extension (-6dB)	85Hz	75Hz
Crossover frequency	2.8kHz	2.6kHz
Cabinet Volume (in litres)	7.8L	4.86L
Dimensions (mm)		
Height	560mm	360mm
Width	200mm	200mm
Depth (with grille+bracket)	141mm	141mm
Carton size	295 x 230 x 680 mm	315 x 215 x 460mm
Net weight	7.8kg/pcs	5.0kg/pcs
Gross weight	8.8kg/ctn	5.5kg/ctn
Standard accessories	user manual, certificate	user manual, certificate

Model	DIAMOND IW-2	DIAMOND IW-1
General description	2-way 'in wall' loudspeaker	2-way 'in wall' loudspeaker
Enclosure type	closed-box	closed-box
Transducer complement	2-way	2-way
Bass driver	6.5" (150mm) advanced PP Cone x2	6.5" (150mm) advanced PP Cone
Midrange driver		
Treble driver	1" (25mm) Textile Dome	1" (25mm) Textile Dome
AV shield	No	No
Sensitivity (2.83V@ 1m)	88dB	86dB
Recommended amplifier power	40-150W	20-100W
Peak power handling	150W	100W
Peak SPL	102dB	96dB
Nominal impedance	4Ω Compatible	4Ω Compatible
Minimum impedance	4.3Ω	3.9Ω
Frequency response (+/-3dB)	90Hz-20kHz	80Hz-20kHz
Bass extension (-6dB)	85Hz	75Hz
Crossover frequency	2.8kHz	2.6kHz
Cabinet Volume (in litres)	7.8L	4.86L
Dimensions (mm)		
Height	560mm	360mm
Width	200mm	200mm
Depth (with grille+bracket)	141mm	141mm
Carton size	295 x 230 x 680 mm	315 x 215 x 460mm
Net weight	9.0kg/pcs	5.5kg/pcs
Gross weight	10.0kg/ctn	6.0kg/ctn
Standard accessories	user manual, certificate	user manual, certificate
Optional accessories	L type bracket \ MS screw \ Hanging buckle \ W wall bracket	

