BRONZE SERIES

owners manual

MONITOR AUDIO

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Introduction

This is Bronze Series, Monitor Audio's most affordable speaker system, blending the best of its award-winning predecessors with advanced technologies from our up-market Silver and flagship Platinum ranges, Bronze far exceeds the standards of performance and quality you'd normally expect from an 'entry level' range.

By using ever more accurate computer simulations and introducing still more refined materials and structures, we've fine-tuned our acclaimed Bronze BX range to a new industry high, developing its astonishingly precise and naturally dynamic sound to place its successor, the Bronze Series, on a level way beyond the capabilities of many more expensive rivals.

In Bronze Series the benefits of our ceaseless search for audio purity are dedicated to your enjoyment of music and film audio. Bronze is engineered for stunning aesthetic results as well. By harvesting greater accuracy and efficiency from comprehensive test and measurement data, our in-house teams have created a beautiful union of breathtaking fidelity and slender lifestyle design that represents the truest spirit of Monitor Audio. Paradoxically for an entry level range, Bronze Series is a class apart.

Resplendent in a stunning White Ash, Black Oak, Rosemah or Walnut vinyl furniture finish and built with the accuracy that exemplifies the Monitor Audio brand world-wide, the seven slender Bronze Series models will look gorgeous in any room. Their understated elegance hides a sophisticated ergonomic design, which includes multi-chamber cabinet structures to optimise driver performance, high quality connections for ease-of-use and perfect signal transfer and discreet precision-machined footings for excellent stability.

Plinth Fixing

(Bronze 5 & 6 only)

The Bronze 5 & 6's are provided with plinths to improve stability and acoustic response. The plinths are secured in place by using the supplied bolts.

Before you fit the plinth ensure the floor area is clear of any hard/sharp objects. To fit the plinth turn the cabinet over so that the bottom is facing upwards. Place the plinth onto the cabinet and line up the bolt holes in the plinth with the inserts in the cabinet. Using the bolts, secure the plinth to the cabinet. Tighten them up gradually at first and ensure the plinth is fitted securely to the cabinet. Fit the feet/ spikes to the plinth before turning the loudspeaker back over.

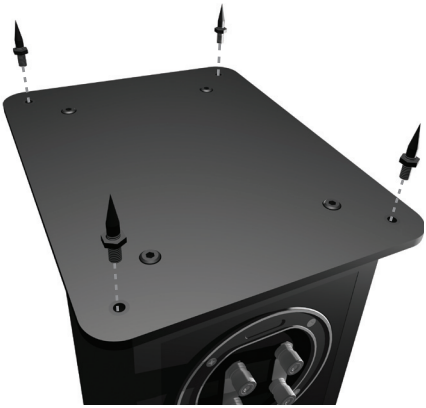
Spikes and Feet

The floorstanders from the Bronze Series come with spikes and separate rubber feet. The spikes are to be used on carpeted floors and the rubber feet for use on hard floors where spikes are not appropriate.

The spikes screw into the threaded inserts on the underside of the plinth. If you do not wish to use the plinth, spikes can be fixed directly into the bottom of the cabinet. Ensure there are no trailing cables where the speakers will be sited.

NOTE: When used without the plinth the stability of the cabinet will be reduced.

When used on hard floor, the rubber feet simply push into the same inserts that would usually be occupied by the spikes.



Setting Up

2 Channel Positioning

When used in a 2 channel system, the listening position and the loudspeakers should form an equilateral triangle. The speakers should be positioned approximately 6 - 10 feet (1.8 - 3m) apart. They ideally need to be between 8 - 18 inches (20 - 45cm) away from the rear and 3 feet (~1m) from the side walls.

Experimentation is strongly advised when initially setting up your speakers, as environments and personal preference differ with each installation. If there is not enough bass, for example, try moving your speakers closer to a wall. The opposite, if there is too much bass. Also see the information on page 9 refering to Port Bungs. If you are losing stereo imaging, try 'toeing' them in slightly. The sound should appear to originate from the centre point between the speakers, not the actual speakers themselves.

AV Positioning

In the following pages, there are illustrations showing optimal positioning and some suggested room layouts for AV applications.

The front, and in some cases rear, floor standing and stand mount speakers should be positioned approx 6 - 9 feet apart (1.8m - 2.5m) and start with them about 10 inches (25cm) from the wall.

If the sound is too bass heavy or there is bass boom from the room when playing music (without a subwoofer), try moving the loudspeakers slightly further away from the wall(s) or adjusting the crossover frequency settings for the speakers and/ or sub. Also try changing the sub's position. If this is not possible, then try the supplied port bungs (not included in the Bronze-FX or Centre). Refer to Page 9.

The Bronze Centre should be positioned so that it is pointing at the viewing position and at approximate ear height. If it is below or above ear height, use some rubber feet (small feet supplied) to angle it slightly.

The Bronze FX's should be positioned in accordance with the below illustrations and instructions, and approx 2 feet (60cm) to the bottom of the speaker above ear height when in your listening position.

NOTE: When using 2 pairs of Bronze FX in a 7.1 system, you need to use the RIGHT hand speaker for the rear surround right and the LEFT hand speaker for the rear surround left. Your side surround speakers will then be set with the RIGHT speaker on the left wall and LEFT speaker on the right wall. This is because of the tweeter phasing.

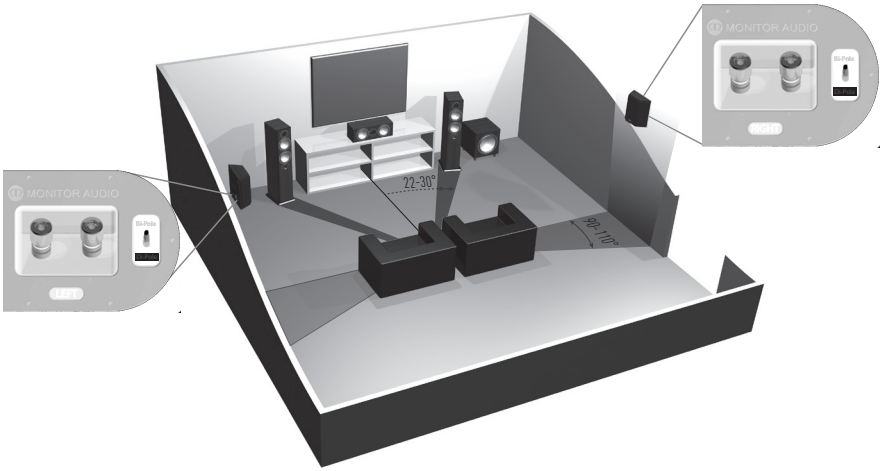
Setting up the Bronze FX

The Bronze FX's are paired, but specifically, right hand and left hand units. Of which both can be configured to bi-pole (normal operation) or di-pole modes. The factory setting is bi-pole.

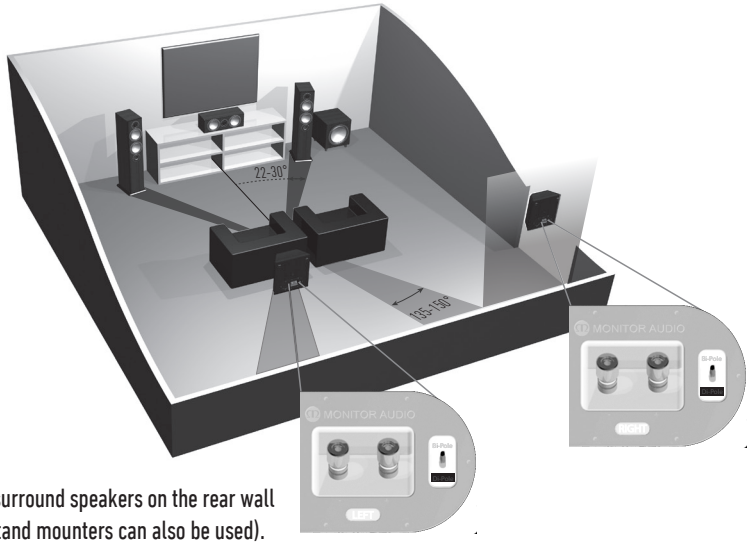
In bi-pole mode, all speaker units (mid/ bass unit and tweeters) are in phase. This feature is designed for when the Bronze FX is set up as a rear/surround speaker in a typical 5.1 channel system, or alternatively in a 7.1 channel system without a second pair of FX's for rear/ surround duties.

In di-pole mode, the front firing tweeters are out of phase with the other tweeter and mid/bass unit. It is best to implement this configuration when using two pairs of FX's as part of a 7.1 channel system, with the FX's taking up positions on the side and rear walls. Please note that they are left and right handed. This is not an issue when used in bi-pole mode. It is essential that they are positioned correctly if used in a 7.1 channel system. Please refer to the positioning section on page 4 and the following images. In all cases experimentation is advised to get the best set up for you.

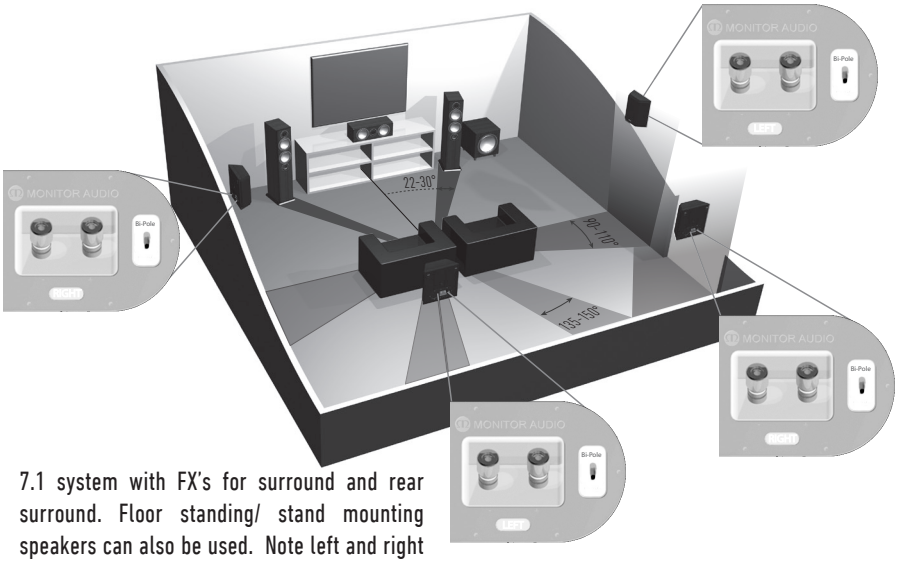
NOTE: Before changing your Bronze FX's from bi-pole mode to di-pole mode, please ensure that the amplifier is turned off. This protects the amplifier and speakers.



5.1 system with surround speakers on the side wall
(floorstanding/ stand mounters can also be used).



5.1 system with surround speakers on the rear wall (floorstanding/ stand mounters can also be used).



7.1 system with FX's for surround and rear surround. Floor standing/ stand mounting speakers can also be used. Note left and right speaker positioning.

Fixing the Bronze FX to a wall

CAUTION: You will need to determine where the Bronze FX's will be fixed and the structure of the wall. For safety reasons, if you are unsure of your ability to provide a secure and safe fixing, do not attempt to fix these speakers to your wall, please obtain the services of a competent and qualified trades person.

CAUTION: Ensure that there are no water pipes or electricity cables running behind where the wall brackets are going to be secured. Work from secure steps and avoid trailing wires.

We do not supply wall fixing screws and plugs with the Bronze FX. Please use suitable fixings for the type of wall construction the Bronze FX's will be fixed to.

To assist in fixing the Bronze FX's to the wall, we would recommend using the wall fixing template enclosed within the packaging carton.

Connecting Speaker Cables

Bare Wire Connection

Unscrew the binding posts and pass the bare wire through the through-hole. Tighten the binding post to clamp the wire in place.

Banana Plugs

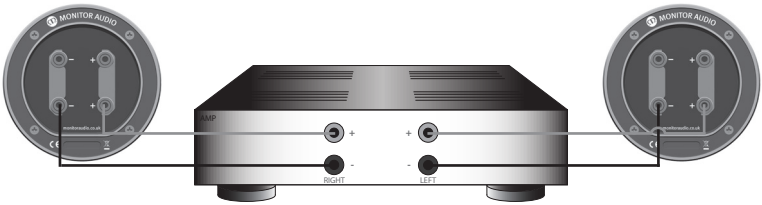
Remove the red and black plastic plugs from the terminals and insert the banana plugs into the standard 4mm holes that are revealed. Pliers may be required to gain purchase on the plugs.

Wiring

Single Wiring

Connect a single set of cables to the terminals on the back of your speaker. It is perfectly acceptable to connect to the top, bottom terminals or even diagonally (experimentation is advisable to achieve the preferred results).

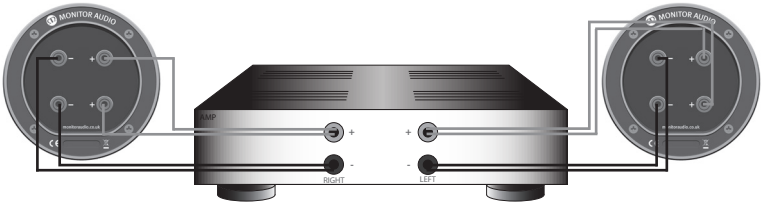
NOTE: When using this method you must KEEP the terminal links in place.



Bi-Wiring

This method can be carried out with the Bronze 2, 5 and 6 speakers. Connect two sets of cables to the top and bottom terminals (positive to positive and negative to negative) from single output of your amplifier.

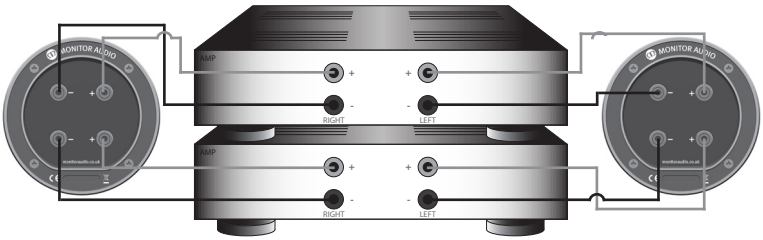
NOTE: When using this method the terminal links MUST be REMOVED.



Bi-Amping

This method can be carried out with the Bronze Series 2, 5 and 6 speakers. Connect a set of cables to the top terminals from one amplifier and the bottom set on the second amplifier.

NOTE: When wiring this method the terminal links MUST be REMOVED.



Grilles

All the Bronze Series speakers are supplied with grilles, covered in acoustically transparent cloth. They are contained within the separate card packaging. Grilles are held invisibly in place using magnets built into both the grille and the cabinet (Bronze FX grilles attach using pegs and sockets).

When fitting, ensure they are correctly orientated with the badge at the bottom, and offer up to the cabinet. The magnet should pull the grille into position.

Each FX speaker is supplied with 3 separate factory fitted grilles. To remove them, carefully prize them away from the cabinet with the tips of your fingers.

CAUTION: Remove all fitted grilles before attempting to lift or move the loudspeaker.

Port bungs

WARNING: Care must be taken not to insert the port bungs too far into the port, as this may result in the foam bung being lost inside the cabinet.

If the loudspeaker is to be installed in a small room, typically 9 sqM (80 sqFT), or a room known to reproduce accentuated bass response, it may be desirable to fit port bungs. However, experimentation is recommended with positioning of the loudspeaker in the room prior to fitting. To optimise a loudspeakers performance, ensure it is not positioned too close to a wall or near the corners of a room (refer to the suggestions on page 4). If room aesthetics or layout predetermine speaker positioning, or experiencing the presence of accentuated bass, please move on and read point 1 for the Bronze 1 and 2 and point 2 for the Bronze 5 and 6.

1. Where bookshelf/ stand-mount speakers (Bronze 1 & 2) are to be sited in close proximity of less than 8 inches/ 20cm to a rear wall (such as on a bookshelf, positioned in a cabinet or on a stand close to a wall), we recommend fitting port bungs to the ports. This will reduce the bass 'boom' and assist the loudspeakers to reproduce their best performance under these environmental conditions.
2. Where floor-standing loudspeakers (Bronze 5 and 6) are to be sited in close proximity of less than 18 inches/ 45cm to a rear wall, we recommend fitting the port bungs. This will reduce the bass 'boom' and assist the loudspeakers to reproduce their best performance under these environmental conditions.

What is Bass Boom?

Bass 'Boom' (sometimes termed as overhang) is generally caused when bass energy from the loudspeaker 'excites' room modes and causes an accentuation at a particular frequency, or number of frequencies. When fitting port bungs the overall bass extension will not be reduced, however bass energy/ output around the port tuning frequency will be reduced. This has the effect of reducing bass 'boom' while increasing bass clarity and apparent agility. Experimentation is highly recommended.

Model	Bronze 1	Bronze 2	Bronze 5	Bronze 6	Bronze Center	Bronze FX
System Format	2 Way	2 Way	2 1/2 Way	2 1/2 Way	2 Way	2 Way
Frequency Response	55 Hz - 30 KHz	42 Hz - 30 KHz	37 Hz - 30 KHz	34 Hz - 30 KHz	60 Hz - 30 KHz	65 Hz - 30 KHz
Sensitivity (1W@1M)	88dB	90dB	90dB	90dB	90dB	88dB
Nominal Impedance (Ohms)	8	8	8	8	8	8
Maximum SPL (Pair)	109 dBA	113 dBA	113.8 dBA	114.8 dBA	113 dBA	110 dBA
Power Handling R.M.S (W)	70	100	120	150	120	80
Recommended Amplifier Requirements R.M.S (W)	15-70	30-100	30-120	40-150	20-120	20-80
Cabinet Design	Rear ported Bass reflex with HiVe Port technology	Front ported Bass reflex with HiVe Port technology	Dual chamber bass reflex – front and rear bass relex with HiVe Port technology	Bass reflex – front and rear bass relex with HiVe Port technology	Sealed Cabinet	Sealed Cabinet
Drive Unit Complement	1 x 5.5" C-CAM® Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter	1 x 6.5" C-CAM® Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter	1 x 5.5" C-CAM® Bass, 1 x 5.5" C-CAM® Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter	2 x 6.5" C-CAM® Bass 1 x 6.5" C-CAM® Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter	2 x 5.5" C-CAM® Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter	1 x 5.5" C-CAM® Bass mid-range, 2 x 25mm Gold Dome C-CAM® tweeter
Crossover Frequency	2.7kHz	3.1kHz	LF: -6dB@600Hz MF/HF: 2.8kHz	LF: -6dB@150Hz MF/HF: 2.5kHz	3.0kHz	2.8kHz
Cabinet dimensions (Exc grille, terminals & plinth) (H x W x D)	260 x 165 x 180mm $10\ 1/4 \times 6\ 1/2 \times 7\ 1/16$ Inch	350 x 185 x 255mm $13\ 3/4 \times 7\ 5/16 \times 10\ 1/16$ Inch	850 x 165 x 248mm $33\ 7/16 \times 6\ 1/2 \times 9\ 3/4$ Inch	985 x 185 x 315mm $38\ 3/4 \times 7\ 5/16 \times 12\ 3/8$ Inch	165 x 460 x 165mm $6\ 1/2 \times 18\ 1/8 \times 6\ 1/2$ Inch	274 x 276 x 104mm $10\ 13/16 \times 10\ 7/8 \times 4\ 1/8$ Inch
External dimensions (Inc terminals) (H x W x D)	260 x 165 x 194mm $10\ 1/4 \times 6\ 1/2 \times 7\ 5/8$ Inch	350 x 185 x 269mm $13\ 3/4 \times 7\ 5/16 \times 10\ 9/16$ Inch	850 x 165 x 262mm $33\ 7/16 \times 6\ 1/2 \times 10\ 5/16$ Inch	985 x 185 x 330mm $38\ 3/4 \times 7\ 5/16 \times 13$ Inch	165 x 460 x 183mm $6\ 1/2 \times 18\ 1/8 \times 7\ 3/16$ Inch	N/A
External dimensions (Inc grille & terminals) (H x W x D)	260 x 165 x 205mm $10\ 1/4 \times 6\ 1/2 \times 8\ 1/16$ Inch	350 x 185 x 281mm $13\ 3/4 \times 7\ 5/16 \times 11\ 1/16$ Inch	850 x 165 x 273mm $33\ 7/16 \times 6\ 1/2 \times 10\ 3/4$ Inch	985 x 185 x 341mm $38\ 3/4 \times 7\ 5/16 \times 13\ 7/16$ Inch	165 x 460 x 193mm $6\ 1/2 \times 18\ 1/8 \times 7\ 5/8$ Inch	274 x 281 x 118mm $10\ 13/16 \times 11\ 1/16 \times 4\ 5/8$ Inch
External dimensions (Including plinth & feet) (H x W x D)	N/A	N/A	898 x 215 x 282mm $35\ 3/8 \times 8\ 7/16 \times 11\ 1/8$ Inch	1033 x 235 x 350mm $40\ 11/16 \times 9\ 1/4 \times 13\ 3/4$ Inch	N/A	N/A
Weight (each)	3.5Kg (7lb 12oz)	5.3Kg (11lb 10oz)	11.Kg (24lb 6oz)	16.6Kg (36lb 8oz)	5.6Kg (12lb 6oz)	3.2Kg (7lb)
Finishes	Black Oak, White Ash, Walnut, Rosemah	Black Oak, White Ash, Walnut, Rosemah	Black Oak, White Ash, Walnut, Rosemah	Black Oak, White Ash, Walnut, Rosemah	Black Oak, White Ash, Walnut, Rosemah	Black Oak, White Ash, Walnut, Rosemah

Owner Information

Product Details

Model _____

Product Serial No _____

Date of Purchase _____

Dealer Details

Dealer Name _____

Address _____

_____

e-mail address _____

Telephone Number _____

Monitor Audio reserves the right to alter specifications without notice.

For the 5 years manufacturer's warranty and to be entered into our monthly prize draw, please visit the online registration form at: **www.monitoraudio.com**

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