

# Installation procedures

## Painting

**NOTE:** If you are choosing to paint your 100 Series loudspeaker, we recommend you do this prior to installation by following these simple steps:

1. Remove the membrane scrim from the inside of the grille (do not fit grille to speaker frame).
2. Place paint mask over the speaker baffle.
3. Paint both the frame and the grille at the same time and with the same batch of paint (if they are to be the same colour).
4. When they are both dry, remove the paint mask from the baffle, and place the spare membrane scrim (in the packaging) into the inside of the grille.
5. Your product(s) are now ready to install, including fitting the grille.

## Using Pre-Construction Brackets

If the holes have been pre-cut, simply refer to step 4 onwards (below) for full fitting instructions. If pre-construction brackets have been used prior to the fixing of plaster board/ sheet rock and the holes have not been cut, locate the pre-construction brackets and cut around the inside edge of the bracket. Locate the speaker cable, connect to the sprung terminals and fit the speaker. Refer to the fitting instructions below (step 4 onwards). To fine-tune the speakers please refer to the high frequency control and boundary compensation details below

## Using the Fixing Template

1. Use template to locate position of cut out. The adhesive backing allows for repositioning a number of times.
2. Draw around diameter of the template.
3. Remove template and cut hole.
4. Locate speaker cable and connect by pushing the terminals in and releasing to clamp the cables.
5. Fit product into prepared hole and tighten fixing clamps. These will move outwards automatically upon tightening! DO NOT OVER TIGHTEN! Once contact is made 2-3 turns are all that is required.
6. To fine-tune the speakers please refer to the high frequency control details below.

## High Frequency control

The factory H.F setting provides a flat or 0dB level, which will suit the majority of typical installations.

Setting the switch in the +3dB position will add brightness and additional clarity to the system. This may be effective in a room with a large amount of soft furnishings.

Setting the switch in the -3dB position will reduce the brightness and provide a duller sound. This may be effective in a room with a few of soft furnishings, or in an installation with a wooden floor.



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## Installation Guide 100 Series



# Installation guide

## 100 Series

The 100 Series utilises bass drivers featuring the advanced MMP®II cone technology together with Monitor Audio's trade mark C-CAM® gold dome tweeter. The MMP®II (Metal Matrix Polymer) cone material uses a high-pressure injection moulding process to achieve different thicknesses at critical points in the cone geometry.

High frequency performance has been improved by the evolution of the C-CAM® tweeter. The new tweeter utilises a pivoting action to provide optimum imaging and flexible set-up options. High frequency level control is provided to offer a degree of balance adjustment once installation is completed. See page 2.

## Introduction

Please read this installation guide carefully before proceeding.

**ALSO AVAILABLE:** Pre-construction brackets. These are for use when installing any Custom Installation product before the plaster board/ rock wall, is fitted. They show the location of the speakers to the builder, allow pre-wiring and give them a solid secure edge to cut around. Please ask your dealer about these brackets and to confirm which is correct for your installation.

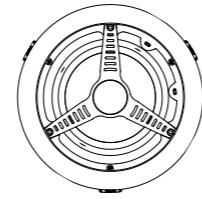
## PLEASE CHECK YOU HAVE THE FOLLOWING ITEMS IN THIS KIT BEFORE PROCEEDING:

- 1 x Complete speaker & tweeter assembly.
- 1 x Grille (which can be painted).
- 1 x Mounting cut out template (in packaging).
- 1 x Plastic paint mask (for covering the baffle while painting the frame).
- 1 x Self adhesive grille membrane scrim (to be attached to the inside the grille after it has been painted).
- 1 x Guarantee card in this manual.

## Prior to Installation Check the Following:

- Please check the minimum depth of the product (according to the specifications sheet) is correct for the assembly to fit into recess.
- The fixing clamps require a minimum of 25mm (1 Inch) of surface area around the cut-out hole to ensure a secure fixing!
- 100 Series loudspeakers are splash and moisture proof, so they can be used in bathrooms, pool areas, etc. DO NOT allow them to be in constant contact with water/moisture.
- The fixing clamps will operate on ceilings/walls with a minimum thickness of 9mm (3/8 Inches) to a maximum depth of 32mm (1¼ Inches).
- Do not attempt to fix these speakers to your ceiling/wall if you are unsure of your ability to provide a secure and safe fixing. IF IN DOUBT CONTACT YOUR LOCAL AUTHORISED MONITOR AUDIO DEALER.
- Ensure that there are no water pipes, air ducts or electricity cables running immediately behind the cut out area!
- Please work from secure steps or scaffold and avoid trailing wires for your safety and those around you.
- Always turn off the amplifier or other devices in the system when connecting these speakers.

## C165



**Frequency Response**  
60Hz - 25KHz

**Impedance (nominal)**  
6 Ohms

**Sensitivity (1W@1M)**  
88.5 dB

**Maximum SPL**  
107.4 dBA

**Power Handling (R.M.S)**  
65 W

**Recommended Amp**  
10 - 65 W

**Driver**  
1 x 6.5" MMP®II cone bass driver  
1 x 1" C-CAM® pivoting gold dome tweeter

**Controls**  
+3db / 0db / -3db High Frequency Level Switch

**Overall Diameter**  
250 mm (9 13/16 inch)

**Overall Depth**  
117 mm (4 5/8 inch)

**Cut-out Hole Diameter**  
211 mm (8 5/16 inch)

**Mounting Depth**  
112 mm (4 7/16 inch)

**Fixing Type**  
3 position Tri-Grip dog fixings

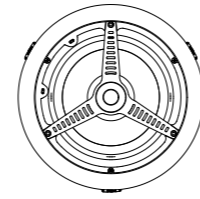
**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
CB6 (Purple)

**Weight Kg (lb)**  
1.92 Kg (4.2 lbs)

## C180



**Frequency Response**  
50Hz - 25KHz

**Impedance (nominal)**  
6 Ohms

**Sensitivity (1W@1M)**  
90 dB

**Maximum SPL**  
111.6 dBA

**Power Handling (R.M.S)**  
120 W

**Recommended Amp**  
15 - 120 W

**Driver**  
1 x 8" MMP®II cone bass driver  
1 x 1" C-CAM® pivoting gold dome tweeter

**Controls**  
+3db / 0db / -3db High Frequency Level Switch

**Overall Diameter**  
286 mm (11 1/4 inch)

**Overall Depth**  
124 mm (4 7/8 inch)

**Cut-out Hole Diameter**  
247 mm (9 3/4 inch)

**Mounting Depth**  
119 mm (4 11/16 inch)

**Fixing Type**  
3 position Tri-Grip dog fixings

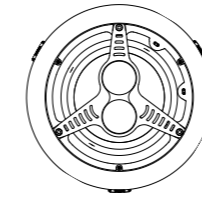
**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
CB8 (Green)

**Weight Kg (lb)**  
2.72 Kg (6 lbs)

## C165-T2



**Frequency Response**  
60Hz - 25KHz

**Impedance (nominal)**  
6+6 Ohms

**Sensitivity (1W@1M)**  
89 dB

**Maximum SPL**  
107.9 dBA

**Power Handling (R.M.S)**  
65 W

**Recommended Amp**  
10 - 65 W

**Driver**  
1 x 6.5" MMP®II cone bass driver  
2 x 1" C-CAM® pivoting gold dome tweeter

**Overall Diameter**  
250mm (9 13/16 inch)

**Overall Depth**  
117 mm (4 5/8 inch)

**Cut-out Hole Diameter**  
211mm (8 5/16 inch)

**Mounting Depth**  
112 mm (4 7/16 inch)

**Fixing Type**  
3 position Tri-Grip dog fixings

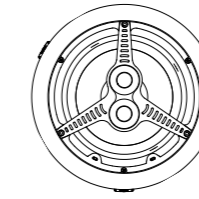
**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
CB6 (Purple)

**Weight Kg (lb)**  
2.08Kg (4.6 lbs)

## C180-T2



**Frequency Response**  
60Hz - 25KHz

**Impedance (nominal)**  
6+6 Ohms

**Sensitivity (1W@1M)**  
89 dB

**Maximum SPL**  
111.6 dBA

**Power Handling (R.M.S)**  
120 W

**Recommended Amp**  
10 - 120 W

**Driver**  
1 x 6.5" MMP®II cone bass driver  
2 x 1" C-CAM® pivoting gold dome tweeter

**Controls**  
+3db / 0db / -3db High Frequency Level Switch

**Overall Diameter**  
286 mm (11 1/4 inch)

**Overall Depth**  
124 mm (4 7/8 inch)

**Cut-out Hole Diameter**  
247 mm (9 3/4 inch)

**Mounting Depth**  
119 mm (4 11/16 inch)

**Fixing Type**  
3 position Tri-Grip dog fixings

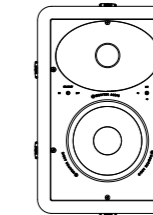
**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
CB8 (Green)

**Weight Kg (lb)**  
3 Kg (6.6 lbs)

## W165



**Frequency Response**  
60Hz - 25KHz

**Impedance (nominal)**  
6 Ohms

**Sensitivity (1W@1M)**  
88.5 dB

**Maximum SPL**  
107.4 dBA

**Power Handling (R.M.S)**  
65 W

**Recommended Amp**  
10 - 65 W

**Driver**  
1 x 6.5" MMP®II cone bass driver  
1 x 1" C-CAM® pivoting gold dome tweeter

**Controls**  
+3db / 0db / -3db High Frequency Level Switch

**Overall Dimensions**  
H 368 x W 248.5mm  
(14 1/2 x 9 13/16 inch)

**Overall Depth**  
94.5mm (3 3/4 inch)

**Cut-out Hole Size**  
H 332 x W 212.5mm  
(13 1/16 x 8 3/8 inch)

**Mounting Depth**  
90 mm (3 9/16 inch)

**Fixing Type**  
6 position Tri-Grip dog fixings

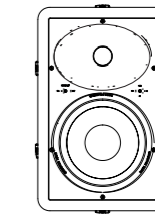
**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
WB6 (purple)

**Weight Kg (lb)**  
2.24 Kg (4.9 lbs)

## W180



**Frequency Response**  
50Hz - 25KHz

**Impedance (nominal)**  
6 Ohms

**Sensitivity (1W@1M)**  
90 dB

**Maximum SPL**  
111.6 dBA

**Power Handling (R.M.S)**  
120 W

**Recommended Amp**  
15 - 120 W

**Driver**  
1 x 8" MMP®II cone bass driver  
1 x 1" C-CAM® pivoting gold dome tweeter

**Controls**  
+3db / 0db / -3db High Frequency Level Switch

**Overall Dimensions**  
H 423 x W 270mm  
(16 5/8 x 10 5/8 inch)

**Overall Depth**  
103 mm (4 1/16 inch)

**Cut-out Hole Size**  
H 387 x W 234mm  
(15 1/4 x 9 3/16 inch)

**Mounting Depth**  
98.5 mm (3 7/8 inch)

**Fixing Type**  
6 position Tri-Grip dog fixings

**Cable Connection**  
Gold plated 'push' type terminals

**Construction Material**  
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

**Pre-construction Bracket**  
WB8 (Green)

**Weight Kg (lb)**  
3.08 Kg (6.8 lbs)

### Declaration of Conformity

We, Monitor Audio Ltd.  
24 Brook Road  
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Essex  
SS6 7XL  
England



Declare in own responsibility, that the products described in this manual are in compliance with technical standards:

EN 50082-1 : 1998  
EN 55013 : 2001  
EN 50020 : 2002

Dean Hartley (Technical Director)  
Monitor Audio Ltd  
England