

PCI 7DC IW

Premium 7" Dual Concentric In-Wall Loudspeaker for Installation Applications

Back Can PCI 7DC IW

Premium 7" Dual Concentric In-Wall Loudspeaker for Installation Applications

EN

EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section).

No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only.

To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken

to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at

Zhongshan Eurotec Electronics Limited

No. 10 Wanmei Road, South China Modern Chinese Medicine Park, Nanlang Town, 528451, Zhongshan City, Guangdong Province, China

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Introduction

Thank you for purchasing this Tannoy Dual Concentric In-Wall Loudspeaker for Installation Applications. Tannoy speaker systems are monitor-quality speaker systems based on the company’s expertise in the manufacture of premium quality cabinet loudspeakers and studio monitors. Exclusive drive unit designs and wide bandwidth technology ensure that these loudspeakers deliver the performance that is essential for applications such as multi-room distributed audio installations, home theatre systems and discrete audio systems, as well as in the many other applications where space is at a premium but ultimate sound quality is still paramount. The speaker construction is based around a rigid moulded ABS baffle with excellent structural integrity; this, when combined with the back can ensures an immensely stable platform for the drivers to deliver optimum performance. Complementing any style of decor, the perforated metal grille and low profile surround can be painted to blend in seamlessly with the domestic environment. The result is a system offering audiophile quality sound with minimal invasion of the living space.

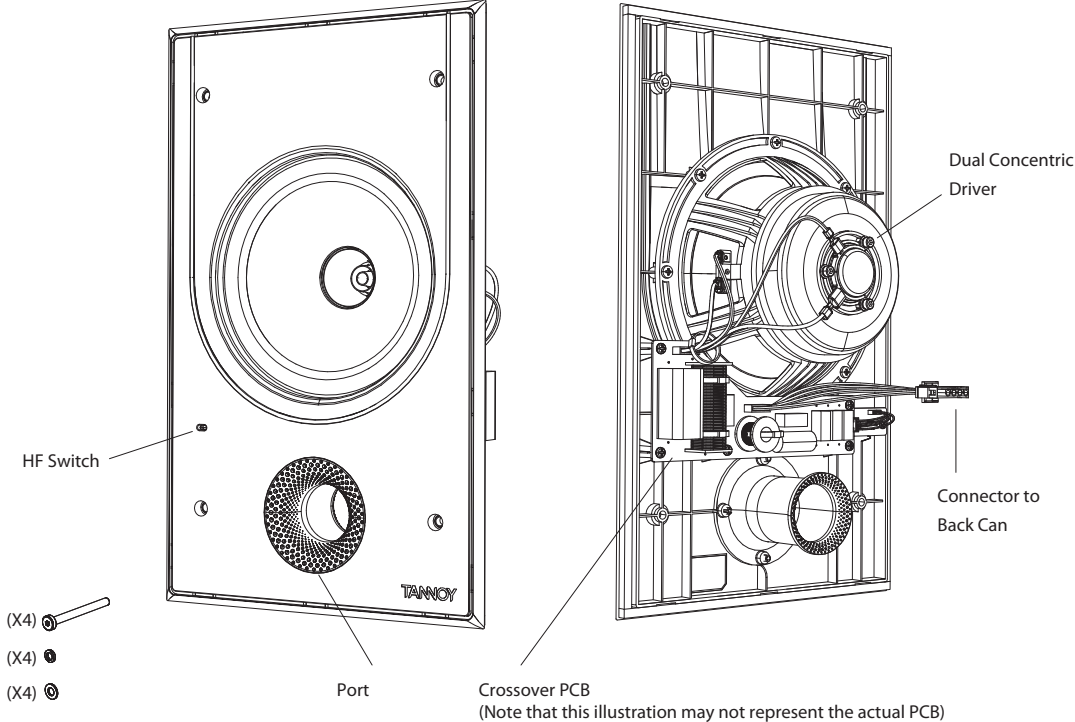
Unpacking

Every Tannoy product is carefully inspected before shipment. After unpacking, please inspect your product to ensure no damage has occurred in transit. In the unlikely event of damage, please notify your dealer and retain all shipping materials as your dealer may require return shipment.

Safety Notices

Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers.

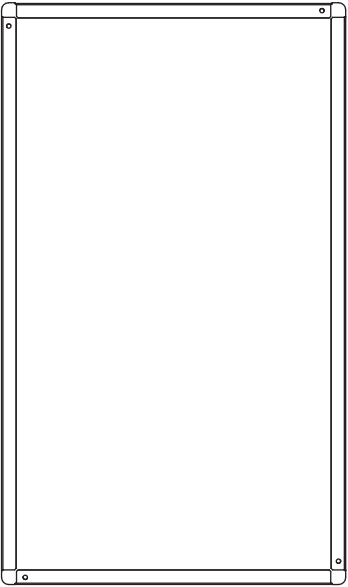
Product Feature Identification



Grille

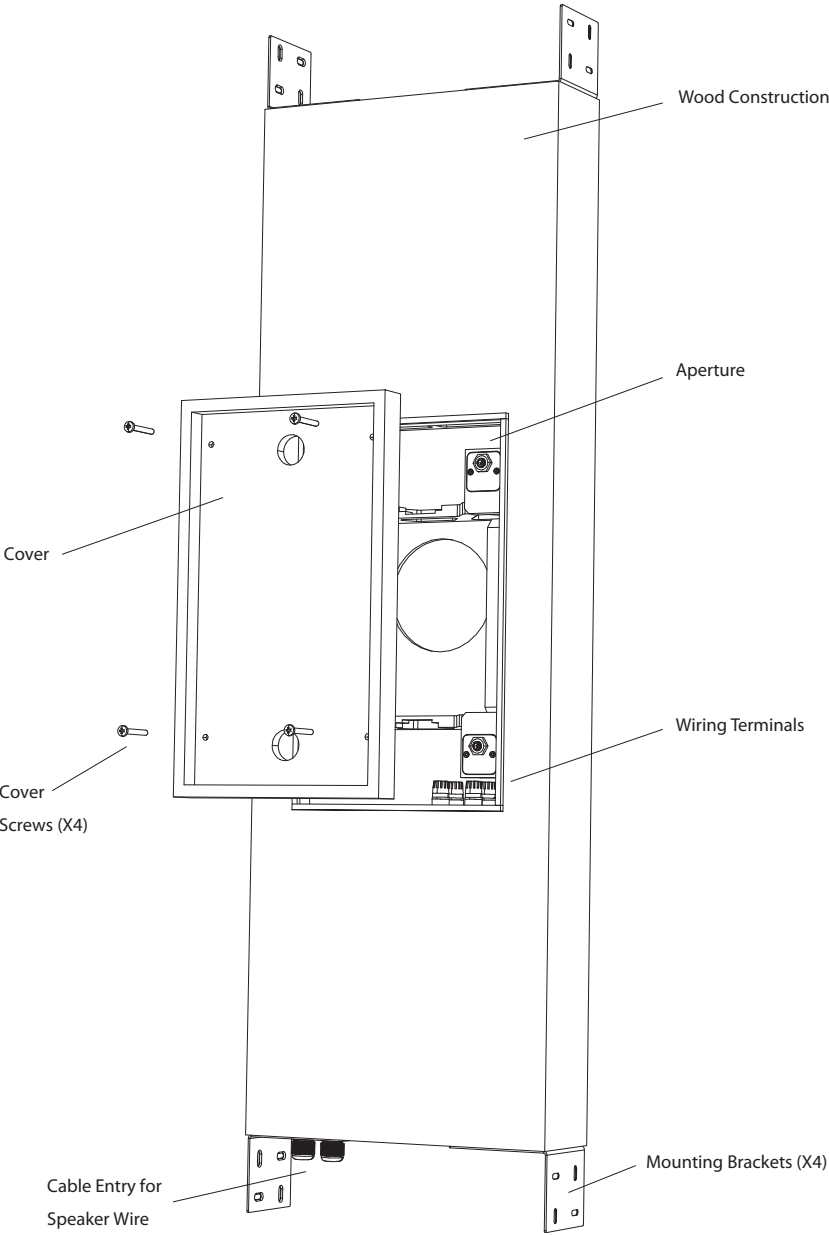


Paint Mask



Product Feature Identification

Back Can Features



Installation Guide

Back Can Installation

WARNING: This procedure requires the use of an assistant, and the use of personal protection equipment, such as safety glasses and gloves.

WARNING: To avoid potential damage to your loudspeaker, ensure that the power amplifier is switched OFF prior to connecting or disconnecting any cables.

WARNING: Make sure that there are no power lines, other cables, or plumbing such as water, sewer, gas lines in the chosen location.

The procedure below describes the installation and wiring of the PCI 7DC IW back can into a typical 2" x 4" stud wall with 16" centers, with drywall/plasterboard not yet installed.

After the back can and drywall is installed, the PCI 7DC IW speaker assembly can be connected to the back can wiring and installed, and the paint mask added during wall painting and finishing.

Procedure

Follow the procedure steps below in the order in which they are presented. Read all the instructions before starting.

1. Locate a suitable mounting position for the loudspeaker that will offer optimum acoustic performance for the listening environment and audio system, and that is also practical and aesthetically pleasing.
2. Allow enough room for the speaker wire to enter the bottom cable gland, and with enough room to tighten the screws that hold the brackets to the back can.
3. Install the four brackets onto the wall studs, and make sure the distance between the top and bottom brackets is as shown in Fig. 1.
4. With the help of an assistant, carefully lift the back can between the brackets (Fig. 2), with the cable entry at the bottom.
5. Make sure that the back can is plumb and level, and its front face is flush with the front face of the wall studs. Screw the 4 brackets to the back can.
6. Note: If you install the back can with the cable entry at the top, then the four small brackets that accept the speaker assembly screws, need to be rotated through 180 degrees. Undo the 2 small screws, and re-orient each small bracket as shown (Fig. 2b).

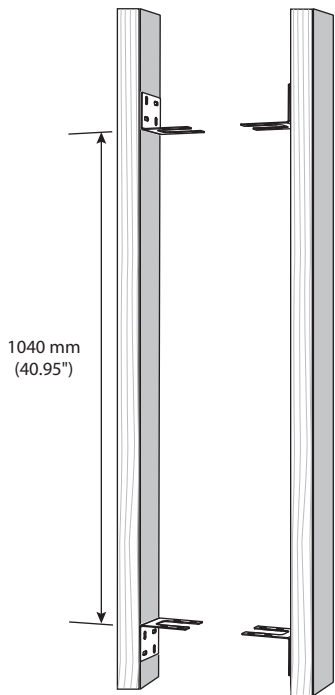


Fig. 1 Install the Brackets to the Wall Studs

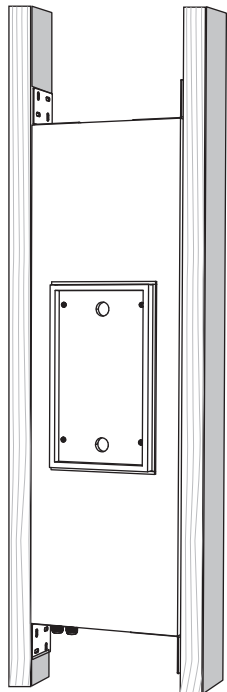


Fig. 2 Install the Back Can onto the Brackets

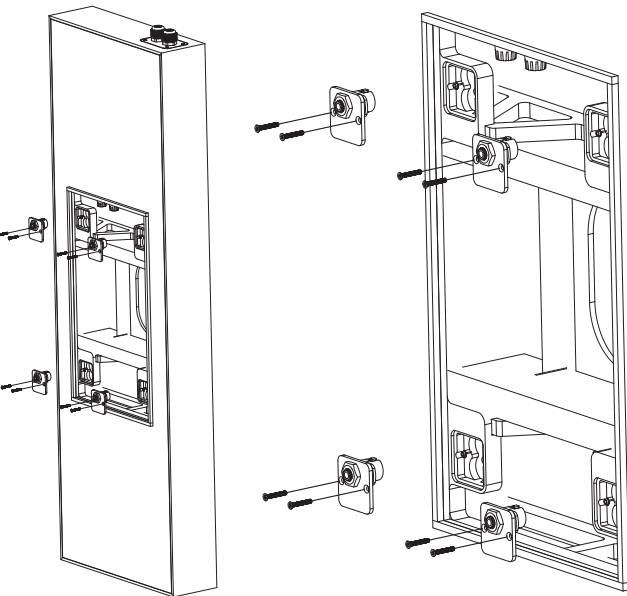


Fig. 2b Re-orient the four brackets if the Back Can is installed with the cable entry at the top

Wiring the Back Can

WARNING: To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.

WARNING: Before switching the amplifier ON, double check that all connections are secure and that the polarity is correct.

The speaker wire connections are made to the internal terminals inside the back can. There are two internal tubes that allow the speaker wiring to be inserted and to come out near the speaker terminals inside the back can. The speaker terminals are pre-wired to an internal connector which attaches to the speaker assembly when it is installed.

The speaker terminals are designed to take substantial high quality loudspeaker cable.

1. Remove the cover from the back can by undoing the four screws holding it in place (Fig. 3).
2. Install the speaker wire in through one of the cable glands, and leave enough slack to make the connections (Fig. 4). Tighten the cable gland, and tie down the speaker cable to prevent it moving and rattling in operation. Make sure that the speaker cable does not come into contact with nails or screws that might damage the insulation. A second cable gland is provided to allow a second speaker cable run to be installed.
3. Strip approximately 8 mm (1/4") off the outer protective layer from each conductor.
4. The positive wire from your amplifier should go to one of the red (positive) terminals inside the back can (Fig.5). The negative wire from your amplifier should connect to one of the black (negative) terminals. You can use the other red and black terminals to run speaker wiring out of the other cable gland and out to another speaker.
5. Make sure that the speaker cables are secured inside the back can so they will not move and touch the speaker cone when it is installed.
6. The cover may be reinstalled until it is time for the drywall installation.

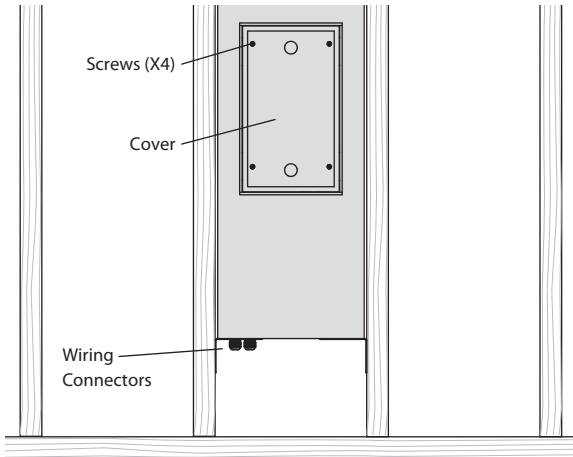


Fig. 3. Cover Removal

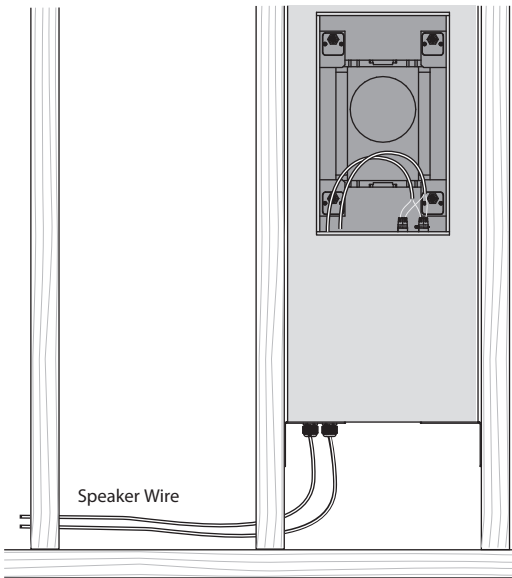


Fig. 4. Speaker Wire Installation to Back Can

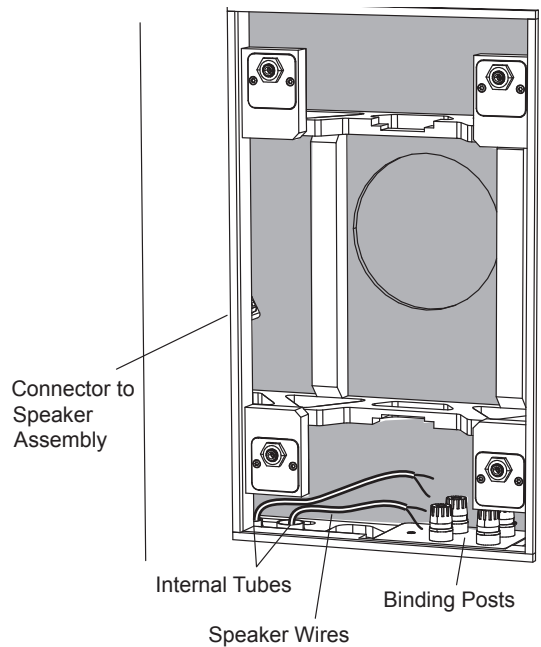


Fig. 5. Speaker Wire Installation to Back Can Terminals

Drywall Installation

1. The installation of drywall around the back can location is best done using a single large sheet with the vertical center line centered over the back can vertical centerline (Fig. 6). Alternatively, the cover can be left on, and the drywall installed in four sections around the cover.
2. If you want to cut the drywall aperture before installation, use the back can cover as a guide. Step 4 below describes cutting after the installation. Use the method you prefer.
3. Use adhesive on the wall studs and the front face of the back can, and install the drywall using drywall screws approximately 8 to 10 inches apart. This will help prevent wall rattling and drywall movement and noises during operation. If the back can is being installed on an interior wall, then adhesive and extra screws may also be added to the drywall used in the room behind the back can.

CAUTION: Make sure that no drywall screws go into the wooden case of the back can at any point.

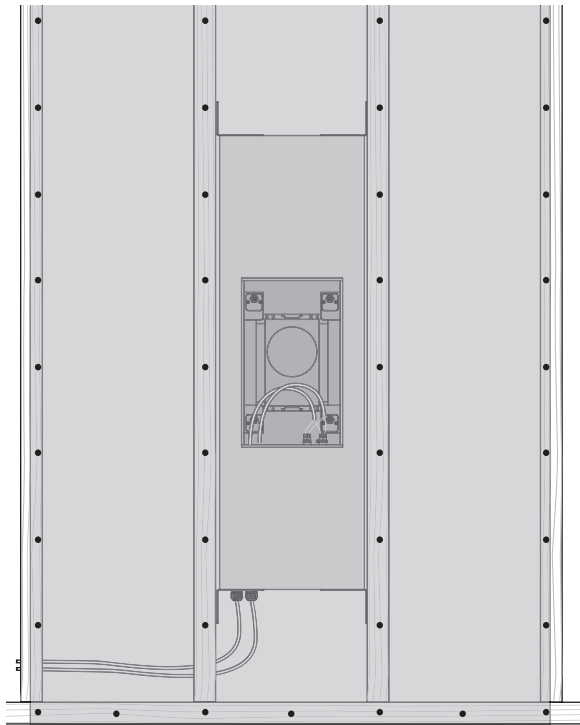


Fig. 6. Drywall Screws.

4. After the drywall installation, carefully cut out the hole in the drywall with a suitable handtool, using the aperture in the back can as a guide (Fig. 7). Be careful not to cut inside the back can aperture, or cut the speaker wires. Make sure the drywall aperture is no larger than the aperture of the back can. Remove any dust or debris from within the back can.
5. The cover may be reinstalled until it is time for the loudspeaker installation.

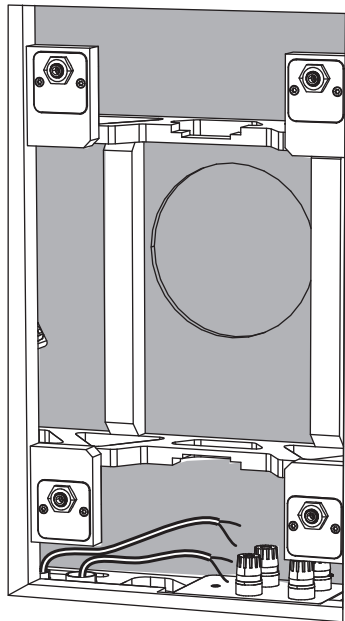


Fig. 7. Drywall Removed from the Aperture

PCI 7DC IW Installation

With the PCI 7DC IW back can wired and installed and the drywall cut as shown in the previous instructions, the PCI 7DC IW loudspeaker assembly can be fitted into the back can.

Procedure

1. With the help of an assistant, lift the PCI 7DC IW loudspeaker assembly close to the drywall aperture, and securely attach the four-pin wiring connector into the corresponding connector inside the back can (Fig. 1).

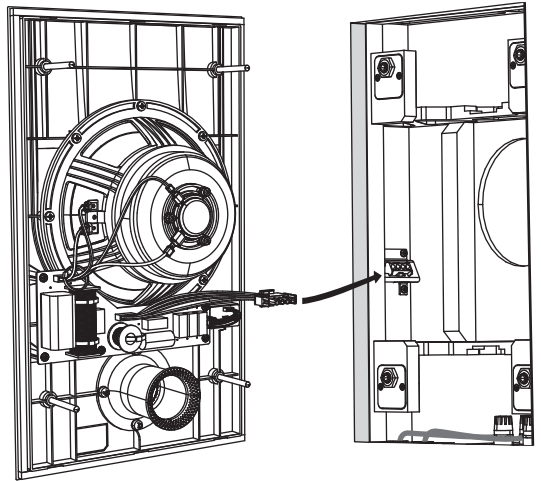


Fig. 1. Connecting the Wiring

2. Install the loudspeaker assembly into the back can, by first pressing in the four screws as far as they will go, and then hand-tightening (Fig. 2). Make sure that you do not trap the speaker wiring, or your fingers during the installation.
CAUTION: Do not over tighten the screws - this is unnecessary to achieve a strong acoustic seal to the back can or wall, and risks damage.

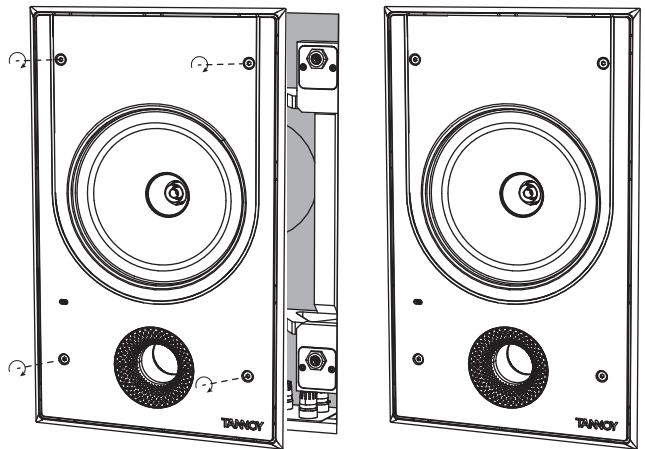


Fig. 2. Installation into the Back Can

Painting

1. A paint mask is supplied to protect the loudspeaker baffle and drivers from paint, dust, and debris. It allows you to paint and finish the wall after the installation of the loudspeaker assembly into the back can.
2. Press the paint mask into the front of the frame, where it will be kept in place by magnets. This mask is left in place while the wall and frame surround are painted (Fig.3).
3. It is strongly recommended that the metal perforated grille is sprayed separately, as this will avoid clogging of the holes. If painting with a brush is the only option, then several thin coats of paint will provide a superior finish to that achieved by one applied too thickly.

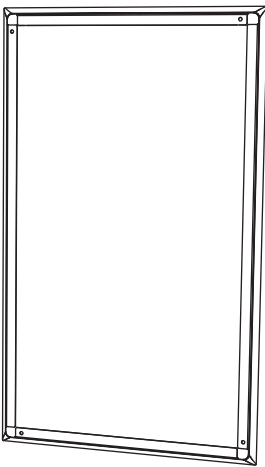


Fig. 3. Paint Mask Installed

System Testing

- 1. Switch on the amplifier with the volume control at its lowest setting. Select a suitable signal source and slowly turn up the volume to a low level. Check that the loudspeaker is working correctly and is in phase - if not, switch off the amplifier and recheck the connections.
- 2. The HF switch has three positions, with 0 dB being flat. Adjust as necessary to suit the room position and acoustic conditions (Fig. 4).
- 3. Carefully check the area surrounding the installation and listen carefully to ensure that there are no buzzes or rattles that could potentially impair enjoyment of the system. If there are, then locate and silence the causes using cable ties or suitable packing material.

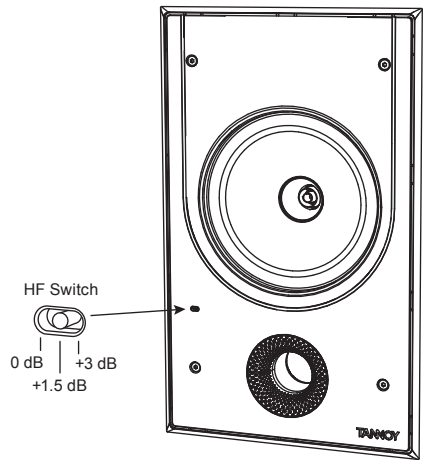


Fig. 4. HF Switch

Grille Installation

- 1. Press the grille into the frame, where it will be held in place by magnets (Fig.5).
- 2. To remove the grille, loop an opened paper clip or similar length of firm wire, through two holes near a corner and pull gently. The grille is intended to be a tight fit, so insert the wire at each corner in turn, pulling carefully to avoid distortion of the mesh. Alternatively, the grill can be removed using a large magnet.

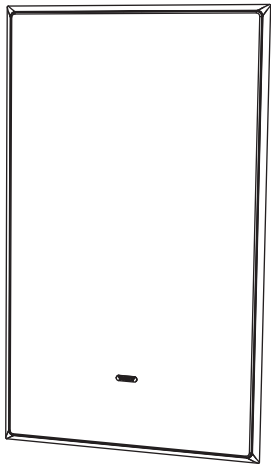
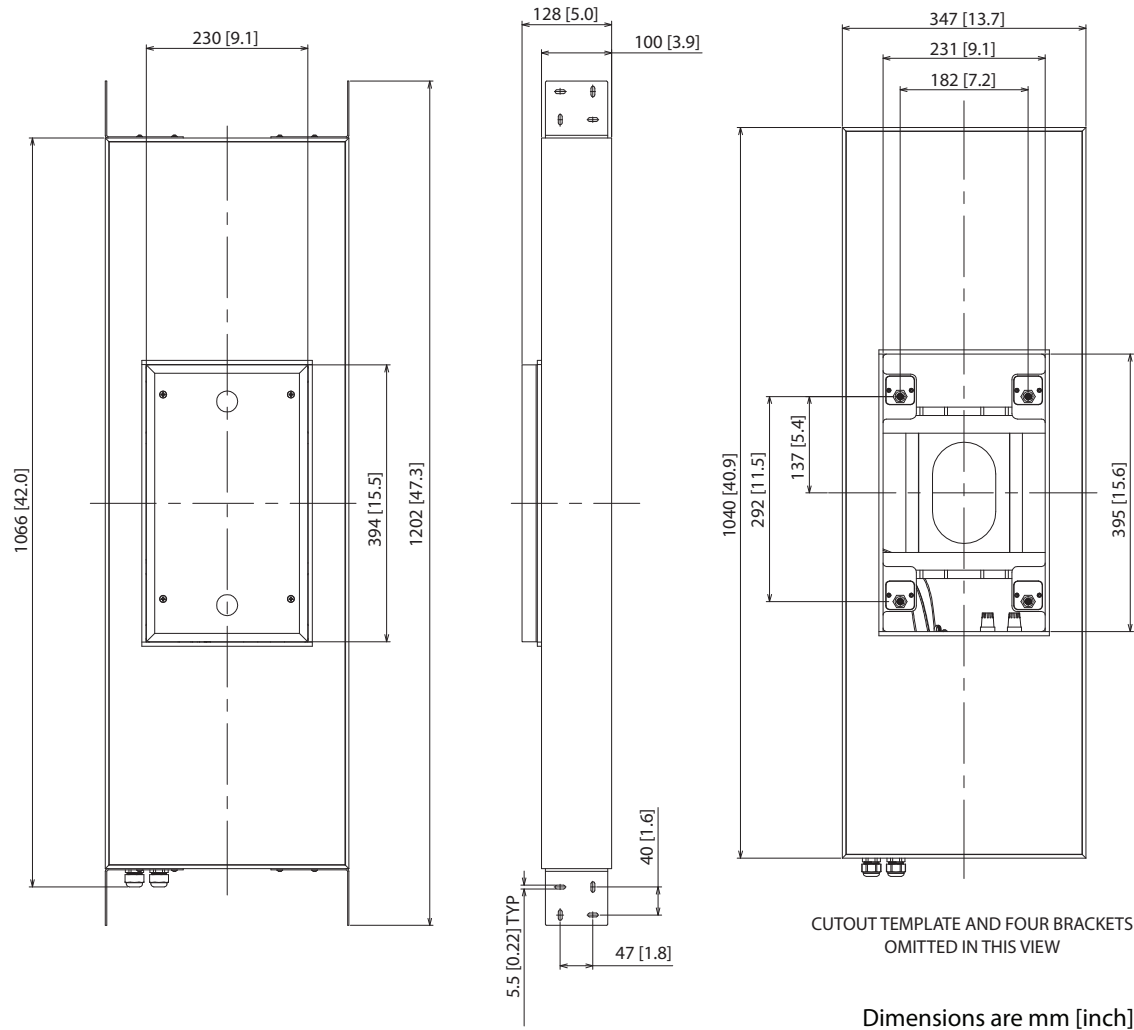
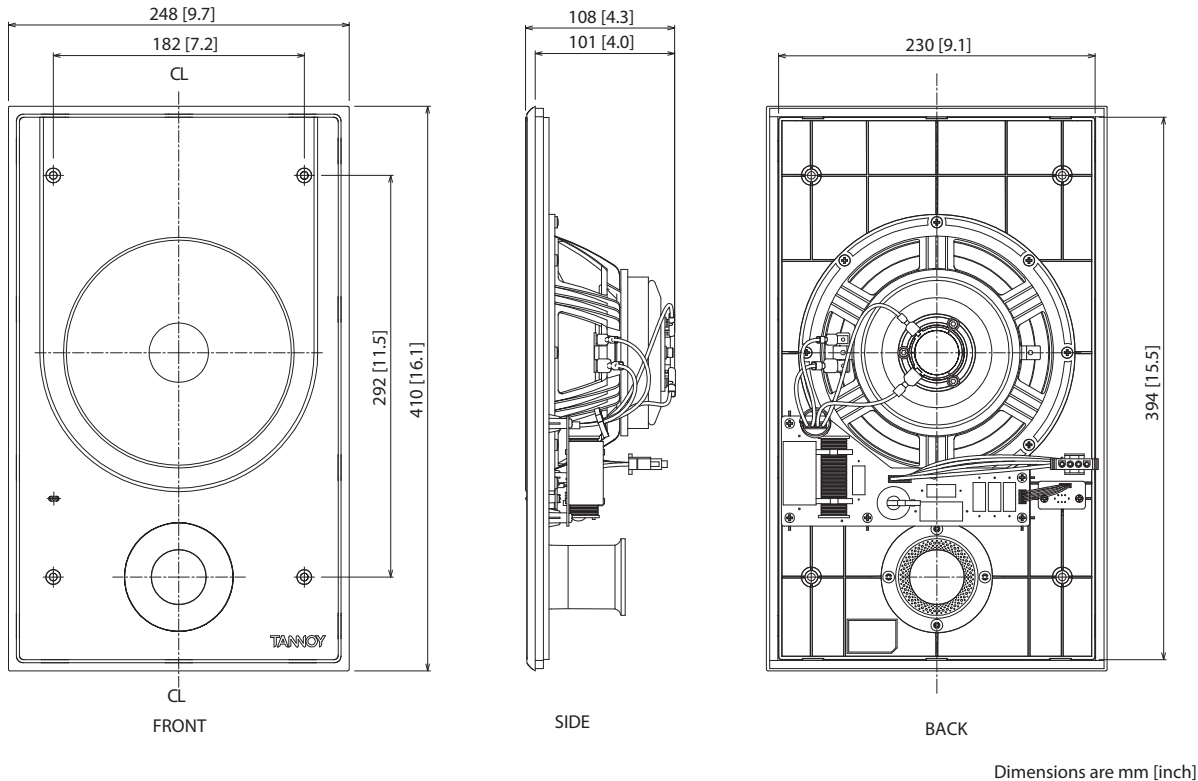


Fig. 5. Grille Installed

Dimensions



Specifications

PODHC PCI 7DC IW	
Performance	
Frequency response (±3 dB)	50 Hz – 20 kHz
Frequency response (-10 dB)	30 Hz – 20 kHz
Sensitivity (1 W @ 1m)	86 dB
Directivity factor (Q)	4.4 averaged 1 kHz to 10 kHz
Directivity index (DI)	6.4 averaged 1 kHz to 10 kHz
Power handling (IEC)	
Average	80 W
Programme	160 W
Peak	320 W
Recommended amplifier power	240 W @ 8 Ω
Nominal Impedance (Lo Z)	8 Ω
Rated maximum SPL (1 m, Lo Z)	108 dB
Average	105 dB
Peak	111 dB
Crossover point	1.6 kHz
Coverage angles	
500 Hz	180° horizontal, 152° vertical
1 kHz	132° horizontal, 136° vertical
2 kHz	118° horizontal, 130° vertical
4 kHz	113° horizontal, 112° vertical
Transducers	
Low frequency diameter/material/type	201 mm (7")
High frequency diameter/material/type	25.4 mm (1")
Physical	
Back can	Wood, with spray painting
Baffle	Reflex loaded UL94 V-0 rated ABS
Grille	Steel, with weather resistant coating
Safety features	—
Clamping design	—
Connectors	Replacement Plug Housing
Dimensions (HxWxD)	1202 x 347 x 128 mm (47.3 x 13.7 x 5.0")
Bezel dimensions	410 x 248 mm(16.1 x 9.8")
Mounting depth	101 mm (4.0")
Hole cutout dimensions	395 x 231 mm (15.6 x 9.1")
Net weight	13.5 kg (29.8 lbs)
Packed quantity	1
Included accessories	Grille, paint mask, tool kit, screws (x 4), spring washers (x 4), plain washer (x 4)
Optional accessories	BACK CAN PCI 7DC IW

Other important information

Important information

- 1. Register online.** Please register your new Music Tribe equipment right after you purchase it by [clicking here](#). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at [this link](#). Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at [this link](#). Alternatively, please submit an online warranty claim at [this link](#) BEFORE returning the product.

3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

