



TANNOY PCI 5DC IW Premium 5" Dual Concentric In-Wall Loudspeaker User Guide

February 16, 2022 February 23, 2022

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*TANNOY PCI 5DC IW Premium 5" Dual Concentric In-Wall
Loudspeaker User Guide*

Quick Start Guide



PCI 5DC IW

Premium 5" Dual Concentric In-Wall Loudspeaker for Installation Applications

PCI 6DC IW

Premium 6" Dual Concentric In-Wall Loudspeaker for Installation Applications

QCI 6DC IW


High-performance 6" Dual Concentric In-Wall Loudspeaker for Installation Applications


V12


TANNOY

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. This apparatus may be used in tropical and moderate climates up to 45°C.

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 musictribe.com/warranty.

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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 secure polycarbonate clamp mounting system (patent applied for: 0316892.9), ensures a performance-enhancing rigid acoustic coupling with the wall surface, and an immensely stable platform for the drivers to deliver optimum performance. Complementing any style of décor, the perforated metal grille and low profile mounting frame 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

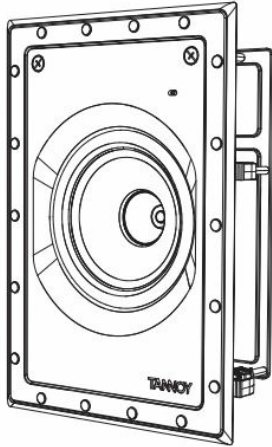
Every Tannoy product is carefully inspected before shipment. After unpacking, please inspect your product to ensure no damage has occurred in transit. In the unlikely event of damage, please notify your dealer and retain all shipping materials as your dealer may require return shipment.

Safety Notices

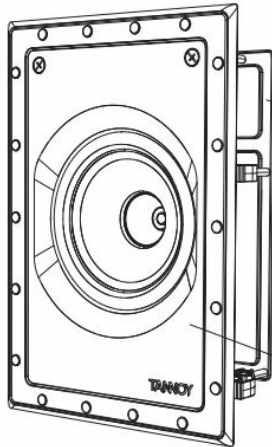
Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers.

Product Feature Identification

PCI 6DC IW



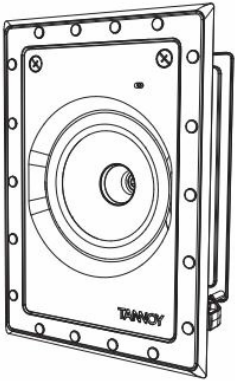
QCI 6DC IW



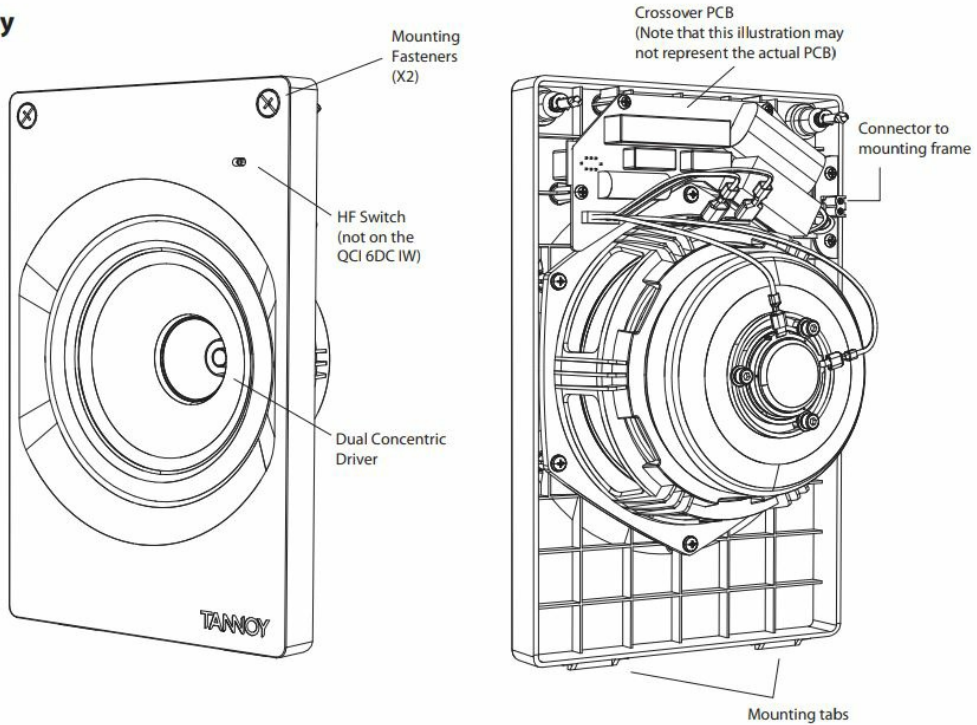
Mounting Frame

Speaker Assembly

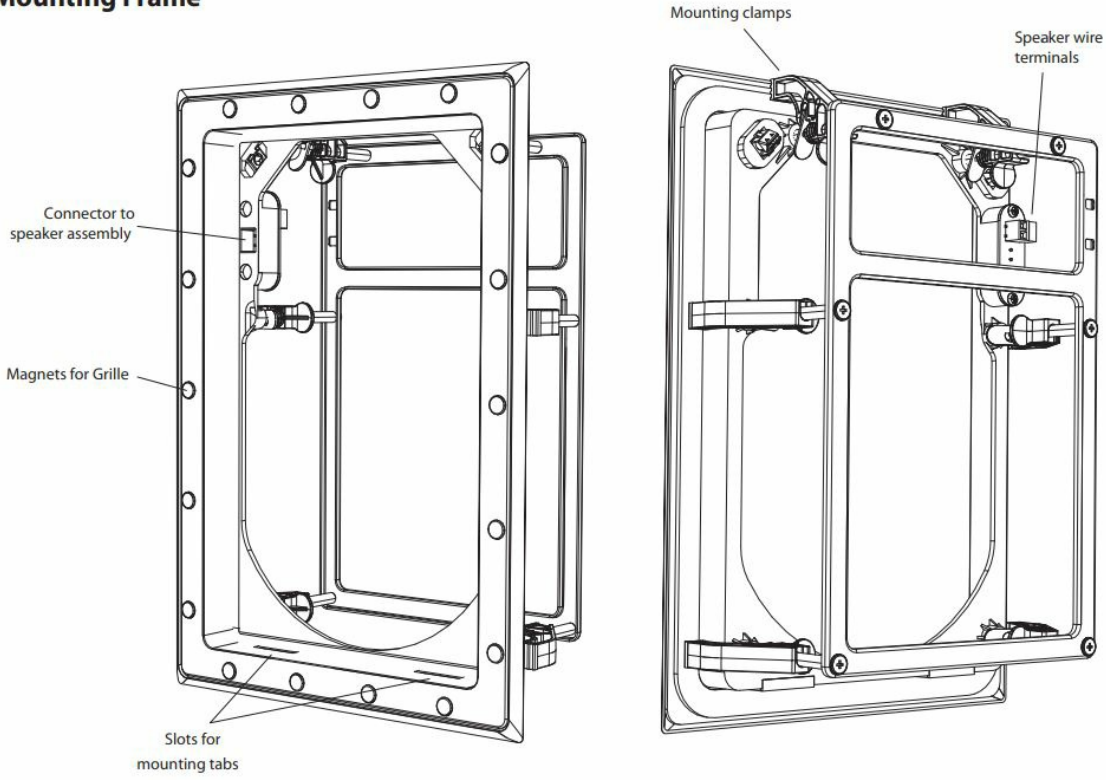
PCI 5DC IW



Speaker Assembly



Mounting Frame



Grilles

PCI 5DC IW

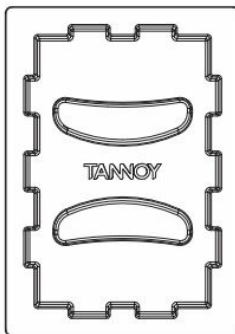


PCI 6DC IW and QCI 6DC IW

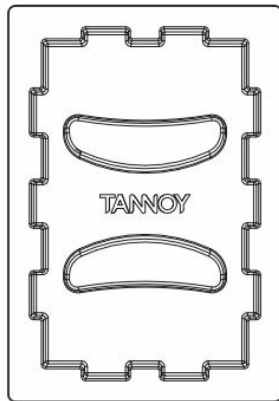


Paint Masks

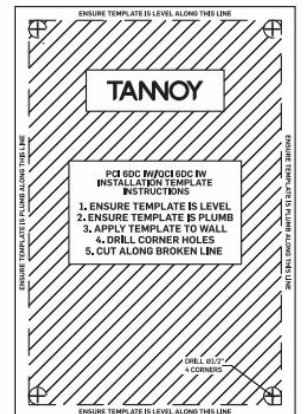
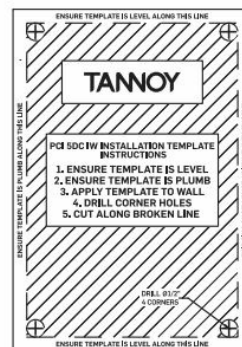
PCI 5DC IW



PCI 6DC IW and QCI 6DC IW



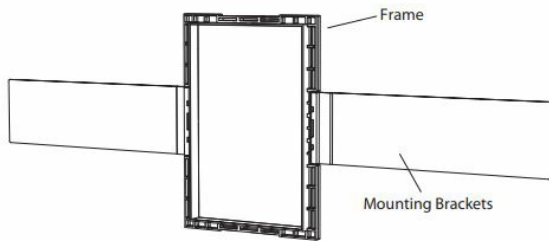
Cutout Templates



Optional PMK Pre-Mount Kit

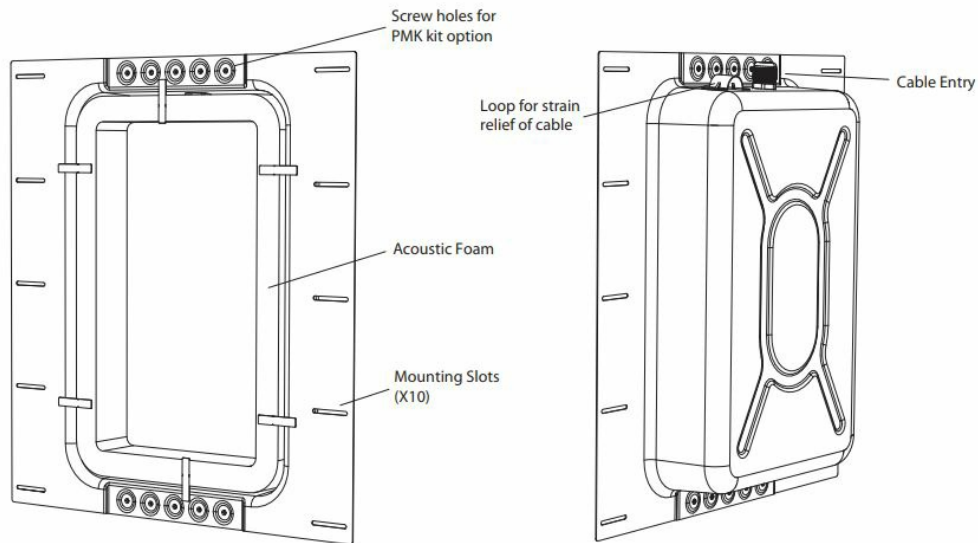
PCI 5DC IW uses the PMK 5 IW

PCI 6DC IW and QCI 6DC IW uses the PMK 6 IW (shown below)



Paint Masks Optional Back can

for PCI 5DC IW, PCI 6DC IW, and QCI 6DC IW



Installation Guide

PCI 5DC IW, PCI 6DC IW, and QCI 6DC IW 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 Back can IW is an optional back can for the PCI 5DC IW, PCI 6DC IW, and the QCI 6DC IW In-Wall loudspeakers. The PMK pre-mount kits are also optional, and they can be used with or without the Back can IW. Installation details are shown in the quick start guide that comes with these items. The procedure below describes the installation of the PCI 6DC IW into a typical 2" x 4" stud wall with 16" centres, with drywall/plasterboard already installed. The details are the same for the PCI 5DC IW and the QCI 6DC IW In-Wall loudspeakers.

Cut-out Templates

The PCI 5DC IW, PCI 6DC IW and QCI 6DC IW loudspeakers are provided with paper cut-out templates as a guide to cutting the drywall.

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, using a stud-finder.
WARNING: Make sure that there are no power lines, other cables, or plumbing such as water, sewer, gas lines in the chosen cut-out location. Also make sure that the location is far enough from the wall studs so that all the clamping mechanisms can operate without interference.
2. Use the supplied cut-out templates (Fig. 1) in the desired location and carefully cut out a hole in the drywall using a suitable hand tool. Remove any dust and debris from the hole (Fig. 2).

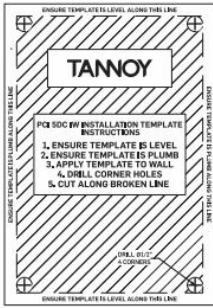
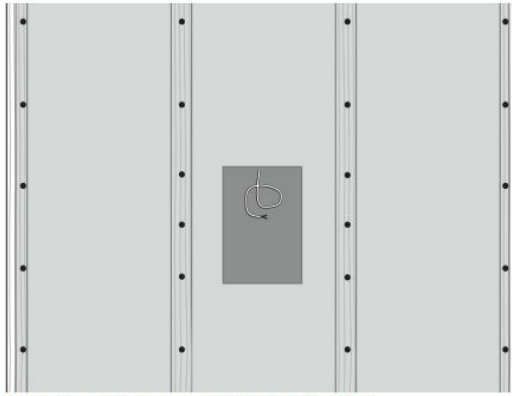


Fig. 1. Cutout Templates



Fig. 2. Drywall Cutout centered between Wall Studs



3. Run speaker wire to this location (Fig. 3). Leave enough slack to make the connections when that time comes. 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 electrical insulation.



Fig. 3. Drywall Cutout with Speaker Cable

Installing the Frame into the Wall

With the drywall aperture cut, and the speaker wiring run to this location, as shown in the previous pages, the loudspeaker frame can now be installed. The following illustrations show the PCI 6DC IW, but the details are the same for the PCI 5DC IW and the QCI 6DC IW loudspeakers.

1. The loudspeaker baffle assembly is shipped inside the frame, and it should be removed as follows: Undo the two screws less than half a turn and then tilt the assembly out of the frame (Fig. 4). Store it in a safe dry place until it is ready to be installed.

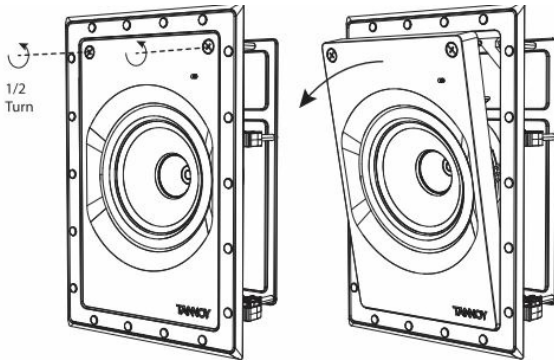


Fig. 4. Removing the Loudspeaker Assembly from the Frame

2. Adjust all of the mounting clamps of the frame so they are in the stowed position (Fig. 5 and 6). They are adjusted by pulling on the spring-loaded metal tab, and then moving the clamps along their mounting posts and rotating them to the side. This will allow the frame to fit into the drywall aperture.

Note: The PCI 5DC IW frame has four mounting clamps, and the PCI 6DC IW and QCI 6DC IW have six as shown.

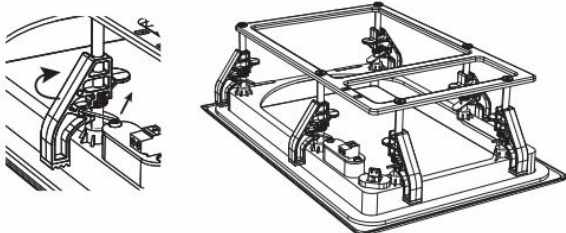


Fig. 5. Adjusting the Mounting Clamps

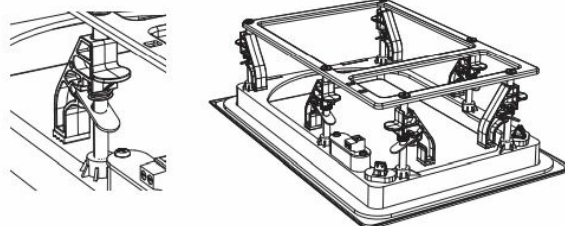


Fig. 6. Mounting Clamps moved to the Stowed Position

Wiring the Frame

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.

(Note that the speaker wire connections are made to the screw terminals of the frame.)

We recommend the use of insulated speaker wiring of between 12 and 18 AWG.

1. Carefully pull out the speaker cables and strip off approximately 8 mm (1/4") of the outer protective layer from each conductor.
2. Locate the screw-terminal connector on the back of the frame (Fig. 7). The polarity of the connections is marked as shown in the illustration.
3. With the help of an assistant, hold the frame close to the wall aperture.
4. The positive wire from your amplifier should connect to the positive terminal. The negative wire from your amplifier should connect to negative terminal. Tighten the screw terminals to secure the wires.
5. Make sure that the speaker cable is secured to the frame, so it will not move and touch the speaker cone when it is installed.

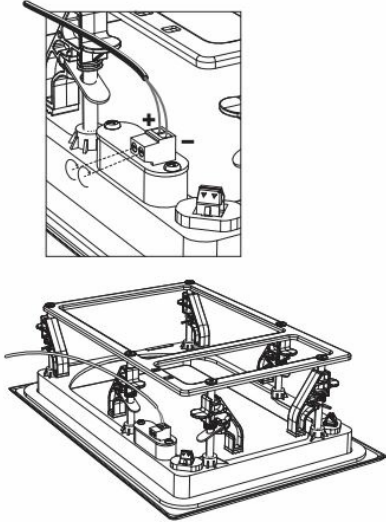


Fig. 7. Connecting Speaker Wires to the Frame

Installation

With the speaker wiring connected to the frame, and the mounting clamps stowed, the frame can now be installed into the wall.

1. Carefully press the frame into the wall aperture, making sure not to trap or pinch the speaker wiring (Fig. 8).

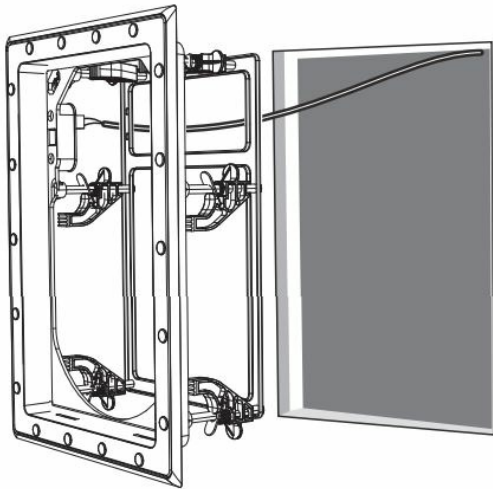


Fig. 8. Installing the Frame into the Wall

2. Reach inside the frame, and rotate the mounting clamps to the "Clamping" position, where they can exert a clamping force to the rear of the aperture (Fig. 9 and 10). Press the frame in and tighten each clamp, so the frame is secured in position (Fig. 11).

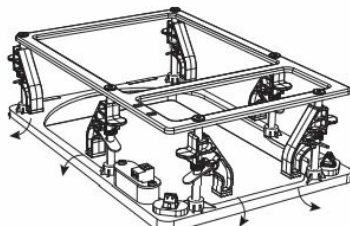
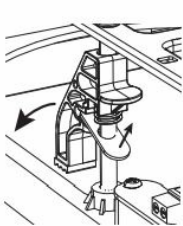


Fig. 9. Adjusting the Mounting Clamps from the Stowed Position

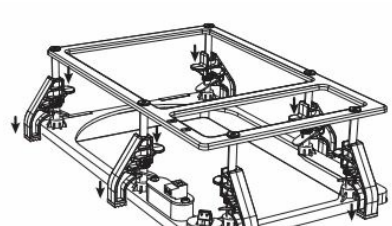
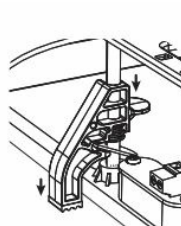


Fig. 10. Mounting Clamps moved to the Clamping Position

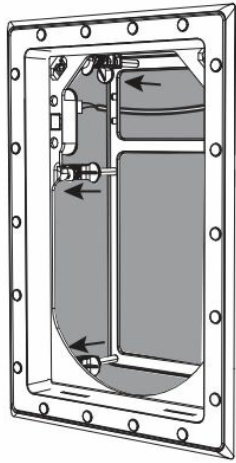


Fig. 11. Frame securely clamped to the Wall

3. Check that the speaker wires are secured to the frame or inside the wall aperture, so they do not rattle in operation or touch the speaker cone.

Painting

1. A paint mask is supplied to protect the loudspeaker frame from paint, dust, and debris. It allows you to paint and finish the wall after the installation of the frame.
2. Press the paint mask into the frame, where it will be kept in place by magnets (Fig. 12). This is left in place while the wall and frame surround is painted, and until the loudspeaker is ready to be installed.
3. It is strongly recommended that the metal perforated grille of the loudspeaker is sprayed, 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.

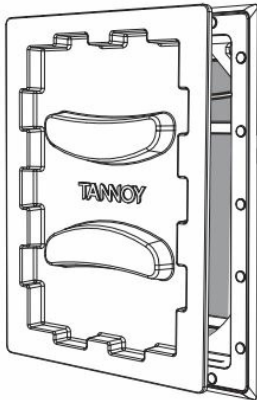


Fig. 12. Adding the Paint Mask to the Frame

Installing the Loudspeaker Assembly

1. When the wall and frame have been painted, remove the paint mask from the frame. Keep it in a safe place in case you need it again for repainting.
2. Hold the loudspeaker assembly at an angle and fit the two protruding tabs on its bottom edge, into the two corresponding slots in the frame (Fig. 13).
3. Tilt the loudspeaker assembly up and press the two fasteners inwards until they click into position, securing it into the frame.
4. The loudspeaker is automatically connected to the speaker wiring when it is installed into the frame.
5. Removal of the loudspeaker assembly is done by turning the two fasteners less than half a turn, then tilting the assembly out of the frame, and disconnecting the wiring.

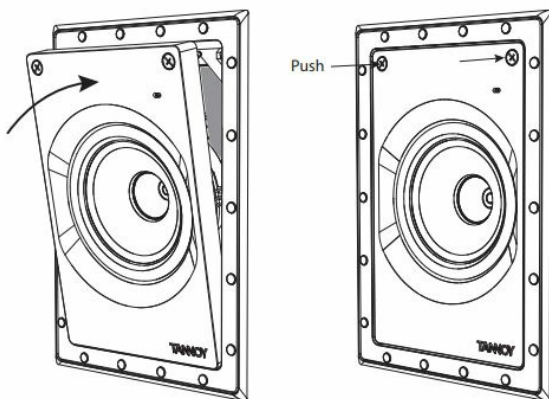


Fig. 13. Installing the Loudspeaker Assembly into the Frame

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. 14). (Not available on QCI 6DC IW).
3. Listen carefully to ensure that there are no buzzes or rattles caused by debris or cables during installation.

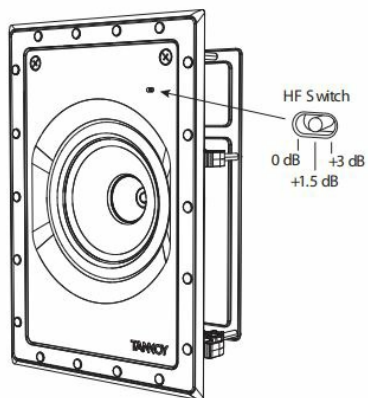


Fig. 14. HF Switch Positions

Grille Installation

1. Press the grille into the frame, where it will be held in place by magnets (Fig. 15).
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.

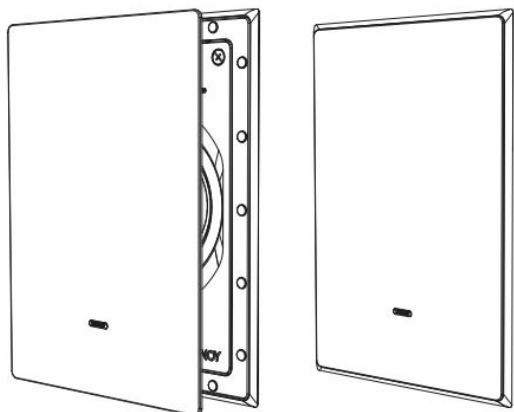
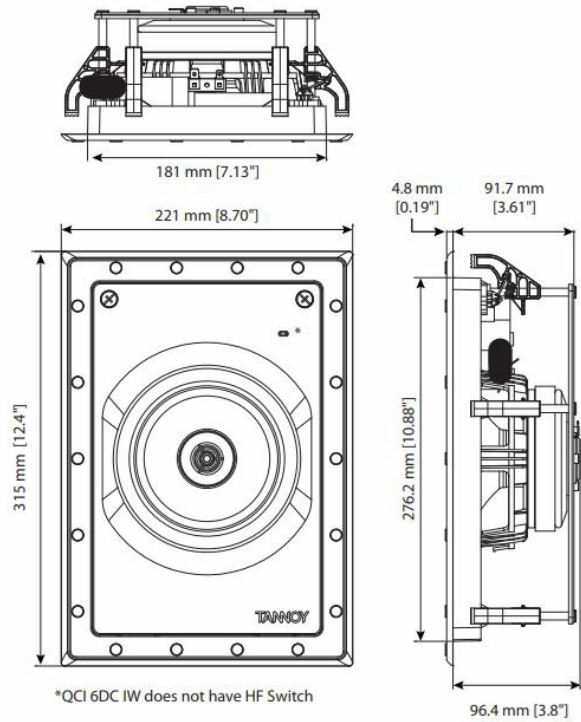
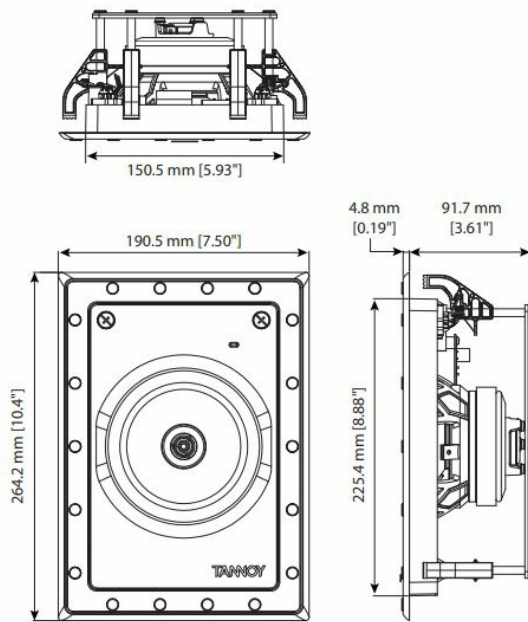


Fig. 15. Installing the Grille

Dimensions

PCI 6DC IW and QCI 6DC IW

PCI 5DC IW



Specifications

	PODH8 PCI 5DC	PODH7 PCI 6DC IW	PODHF QCI 6DC IW
Performance			
Frequency response (± 3 dB)	50 Hz – 20 kHz	50 Hz – 20 kHz	50 Hz – 20 kHz
Frequency response (-10 dB)	35 Hz – 20 kHz	30 Hz – 20 kHz	30 Hz – 20 kHz
Sensitivity (1 W @ 1m)	85 dB		
Directivity factor (Q)	4.2 averaged 1 kHz to 10 kHz	4.8 averaged 1 kHz to 10 kHz	
Directivity index (DI)	6.2 averaged 1 kHz to 10 kHz	6.8 averaged 1 kHz to 10 kHz	
Power handling (IEC)			
Average	60 W	70 W	
Programme	120 W	140 W	
Peak	240 W	280 W	
Recommended amplifier power	180 W @ 8 Ω	210 W @ 8 Ω	
Nominal Impedance (Lo Z)	8 Ω		
Rated maximum SPL (1 m, Lo Z)	106 dB	107 dB	
Average	103 dB	104 dB	
Peak	109 dB	110 dB	
Crossover point	1.6 kHz		
Coverage angles			
500 Hz	180° horizontal, 161° vertical	180° horizontal, 160° vertical	
1 kHz	156° horizontal, 164° vertical	141° horizontal, 144° vertical	
2 kHz	131° horizontal, 143° vertical	119° horizontal, 134° vertical	
4 kHz	107° horizontal, 89° vertical	92° horizontal, 87° vertical	
Transducers			
Low frequency diameter/material/type	128 mm (5")	165.5 mm (6")	
High frequency diameter/material/type	20.4 mm (0.8")	25.4 mm (1")	
Physical			

Back can	Option 1: BACK CAN IW: Steel, powder coating		
Baffle	Reflex loaded UL94 V-0 rated ABS		
Grille	Steel, with weather resistant coating		
Safety features	—		
Clamping design	Security toggle clamp		
Connectors	Phoenix Contact terminal block		
Dimensions (HxWxD)	264 x 191 x 102 mm (10.4 x 7.5x 4.0")	315 x 221 x 105 mm (12.4 x 8.7 x 4.1")	
Bezel dimensions	Square: 264.2 x 190.5 mm (10.4 x 7.5")	Square: 315 x 221 mm (12.4 x 8.7")	
Mounting depth	91.7 mm (3.6")	91.7 mm (3.6")	
Hole cutout dimensions	248 x 173 mm (9.8 x 6.8")	299 x 203 mm (11.8x8")	
Net weight	1.7 kg (3.7 lbs)	2.8 kg (5.6 lbs)	2.9 kg (6.4 lbs)
Packed quantity	1		
Included accessories	Grille, paint mask, cutout template		
Optional accessories	Option 1: BACK CAN IW Option 2: PMK 5 IW	Option 1: BACK CAN IW Option 2: PMK 6 IW	

Other important information

Important information

- Register online.** Please register your new MusicTribe equipment right after you purchase it by visiting musictribe.com. 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.
- Malfunction.** Should your MusicTribe Authorized Reseller not be located in your vicinity, you may contact the MusicTribe Authorized Fulfiller for your country listed under "Support" at musictribe.com. 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 musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.
- 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.



Hereby, Music Tribe declares that this product is in compliance with Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC, and this passive product is not applicable to EMC Directive 2014/30/EU, LV Directive 2014/35/EU.

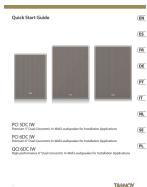
Full text of EU DoC is available at <https://community.musictribe.com/>

EU Representative: Music Tribe Brands DK A/S

Address: Ib Spang Olsens Gade 17, DK – 8200 Aarhus N, Denmark

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Documents / Resources



[TANNOY PCI 5DC IW Premium 5" Dual Concentric In-Wall Loudspeaker](#) [pdf] User Guide
PCI 5DC IW, Premium 5 Dual Concentric In-Wall Loudspeaker

Related Manuals / Resources



[TANNOY 3 Way 6" In-Wall Loudspeaker White Installation Guide](#)

TANNOY 3 Way 6" In-Wall Loudspeaker White Designed to excel in a wide variety of sound reinforcement applications,...



[TANNOY VX 8 Loudspeakers Multi Angle Wall Mount Bracket User Guide](#)

Quick Start Guide Multi-Angle Wall Mount Multi-Angle Wall Mount Bracket for VX 5.2, VX 6, and VX 8...

[TANNOY iW 62S-WH 2 x 6" In-Wall Subwoofer User Guide](#)

Quick Start Guide iW Series iW 62S-WH 2 x 6" In-Wall Subwoofer (White) iW 62DS-WH 3 Way 6"...



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Quick Start Guide PCI 7DC RB Premium 7" Dual Concentric In-Ceiling Loudspeaker for Installation Applications BACK CAN PCI...

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