

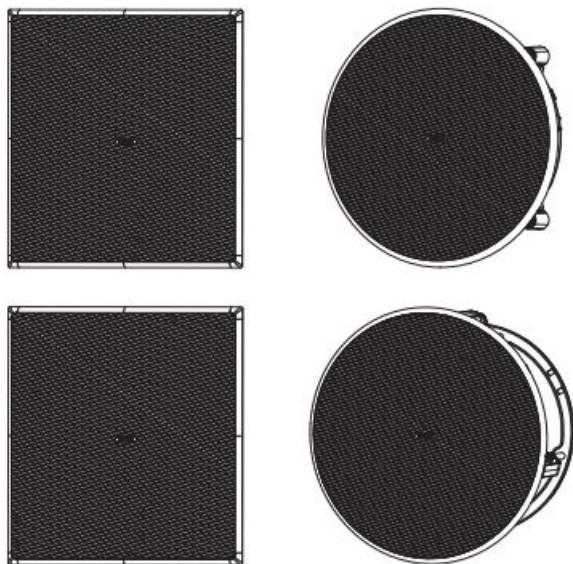


# TANNOY QCI 6DC High-Performance 6" Dual Concentric In-Ceiling Loudspeaker User Guide

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*TANNOY QCI 6DC High-Performance 6" Dual  
Concentric In-Ceiling Loudspeaker User Guide*

## Quick Start Guide



### QCI 6DC

High-Performance 6" Dual Concentric In-Ceiling Loudspeaker for Installation Applications

### PCI 6DC

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

### PCI 6DC LP

Premium Low Profile 6" Dual Concentric In-Ceiling Loudspeaker for Installation Applications

V20

**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 centre 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.

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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](https://musictribe.com/warranty).

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## Introduction

Thank you for purchasing this Tannoy high-performance ceiling loudspeaker. This product range is suited for high-level music and speech reinforcement applications requiring exceptional sonic quality with uncompromised reliability.

## Features

### QCI 6DC

- High-performance loudspeaker for ceiling installation applications
- 6" Dual Concentric driver featuring Tannoy Omni magnet technology
- Torus Ogive waveguide for improved directivity
- Glass fibre cone with high-excursion, rubber surround for high power handling
- 70 Watts continuous, 280 Watts peak power
- Extremely thin bezel for discreet installation

### PCI 6DC

- Premium, high-definition loudspeaker for ceiling installation applications
- 6" Dual Concentric driver featuring Tannoy point-source constant directivity
- Tulip Waveguide for a smooth, uniform frequency response over a wide area of coverage unachievable with discrete, two-way designs
- Blue Kevlar\* cone with high-excursion, rubber surround for high power handling
- 3-way variable high-frequency level switch for customised performance preferences
- 70 Watts continuous, 280 Watts peak power

### PCI 6DC LP

- Premium, high-definition loudspeaker for ceiling installation applications
- Low profile chassis design to offer great sound from tight space situations
- 6" Dual Concentric driver featuring Tannoy Omni magnet technology

- Torus Ogive waveguide for improved directivity
- Blue Kevlar\* cone with high-excursion, rubber surround for high power handling
- 3-way variable high-frequency level switch for customised performance preferences
- 70 Watts continuous, 280 Watts peak power

#### **Common Features:**

- Extremely thin bezel for discreet installation
- Includes round and square baffles and grilles for versatile applications
- Rigid chassis for improved bass performance and durable application
- Integrated construction for easy installation
- Semi matt white finish fits unobtrusively in any environment
- Powder coated UV resistant perforated steel mesh grille with dust protection
- Removable grilles for custom painting
- Self-aligning clamp mounting system
- Optional Tannoy logo grille badge included

#### **Unpacking**

Every Tannoy product and accessory is carefully inspected before packing. After unpacking, please inspect your product to make sure no damage has occurred in transit. In the unlikely event of any damage, would you please notify your dealer immediately and retain your shipping carton, as your dealer may ask you to return the faulty unit to them for inspection.

#### **Safety Notices**

Some regional construction codes require the use of a secondary method of securing loudspeakers in ceiling to provide security of a backup support. A secondary support line should be attached from the rear of the product to a source point on the ceiling. Please consult the relevant construction codes in your region.

When using a power driver to install the product it is essential to use the correct torque level settings to avoid over tightening and damage to the ceiling material or clamps.

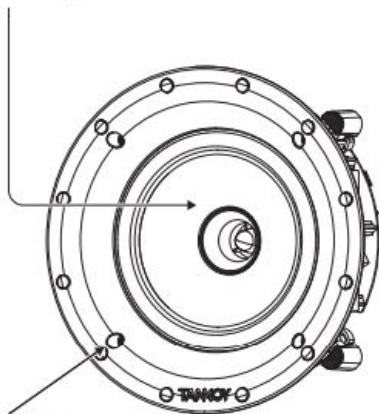
Recommended torque setting: 1.5 Nm.

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

#### **Product Feature Identification**

##### **QCI 6DC**

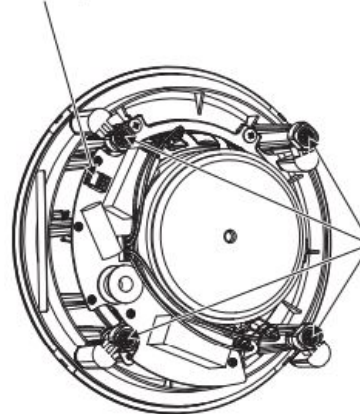
Dual Concentric Speaker



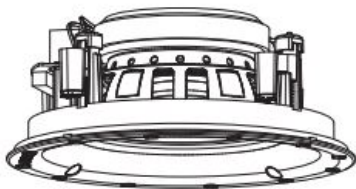
Screws (X4) for  
tightening Clamps

Speaker Assembly

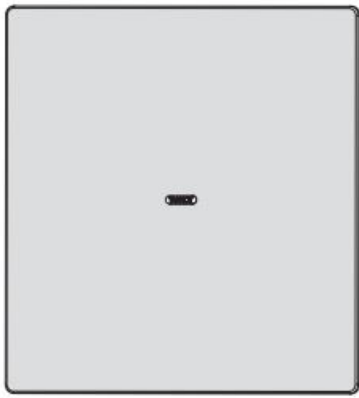
Speaker Wiring Screw Terminals



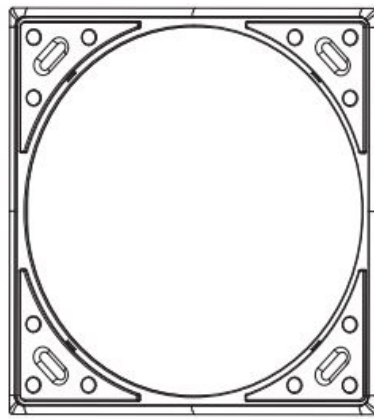
Mounting Clamps (X4)



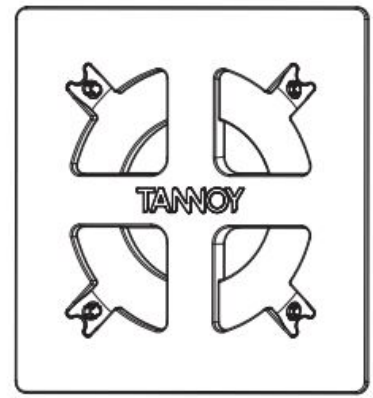
## Supplied Items



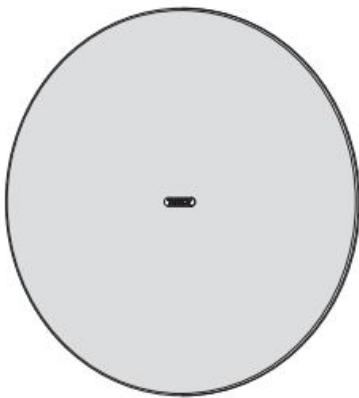
### Square Grille



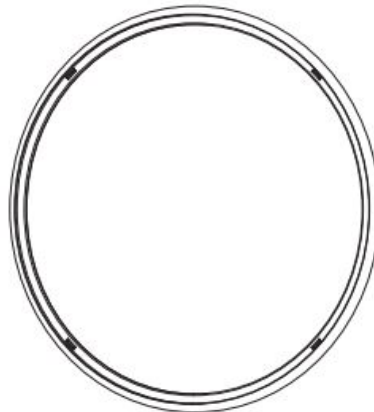
### Square Baffle for Square Grille



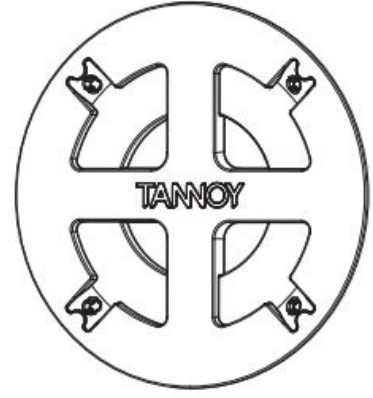
### Paint Mask for Square Baffle



### Circular Grille



### Circular Baffle for Circular Grille



### Paint Mask for Circular Baffle

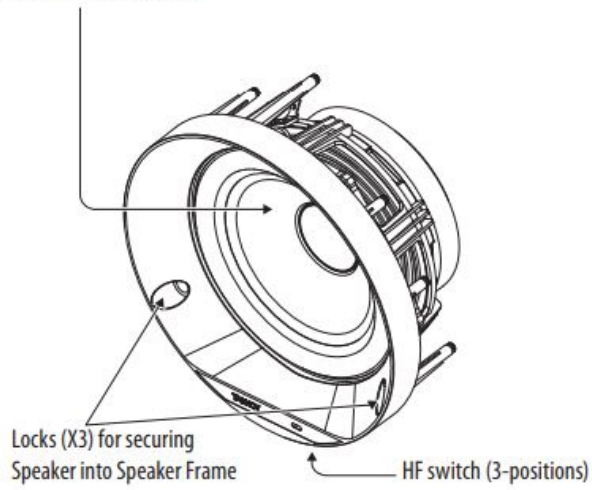


### Cutout Installation Template

**PCI 6DC**

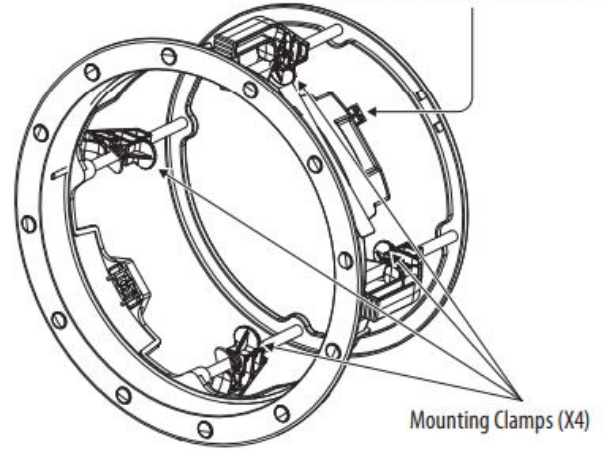


Dual Concentric Speaker

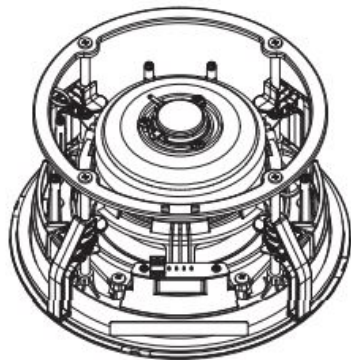


Speaker Assembly

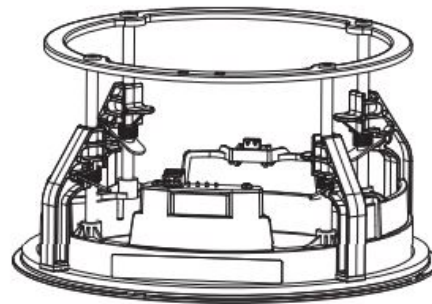
Speaker Wiring Screw Terminals



Speaker Frame

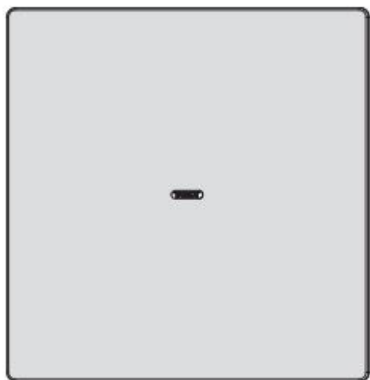


Speaker and Frame Assembly

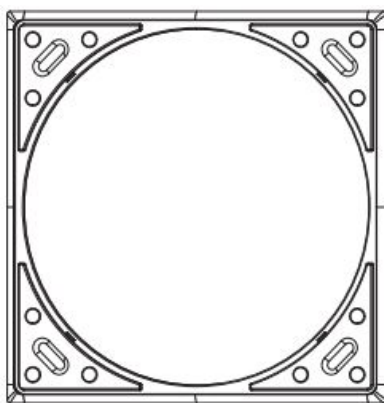


Speaker Frame Rear View

## Supplied Items



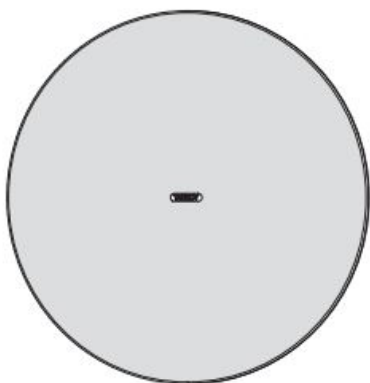
Square Grille



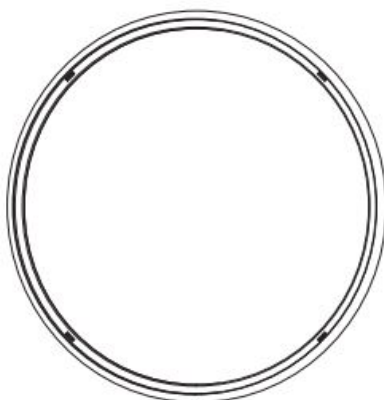
Square Baffle for Square Grille



Paint Mask for Square Baffle



Circular Grille



Circular Baffle for Circular Grille



Paint Mask for Circular Baffle



Cutout Installation Template

## Wiring and Setting Up

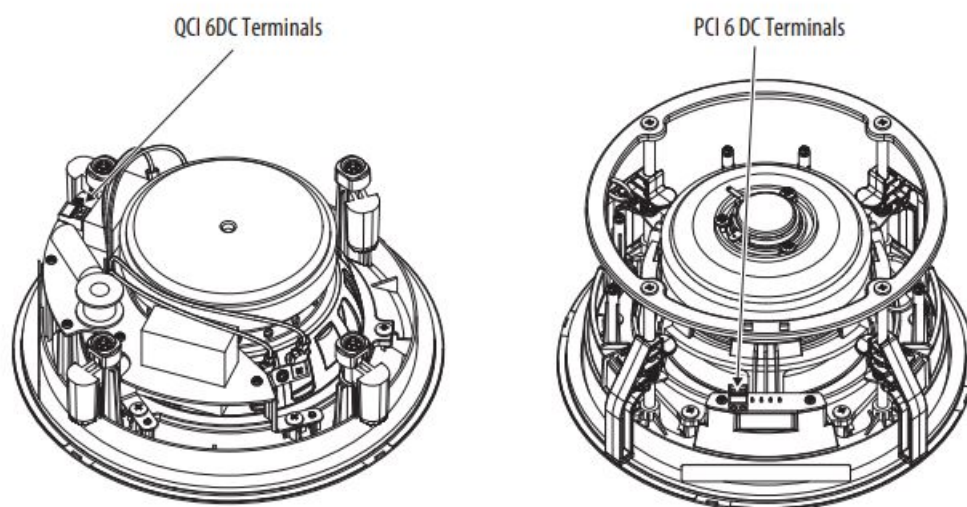
### Terminal Connections

1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. Before switching the amplifier ON, double check that all connections are secure and that the polarity is correct.
3. Note: For each speaker in this series, the correct square or circular baffle has to be fitted before connecting the speaker wiring. (The baffles are fitted from behind, and so the speaker wires cannot be connected while the baffles are being installed.)
4. The two screw terminals on the rear of each speaker are labeled positive (+) and negative (-). These connect

respectively to the positive (+) and negative (-) output terminals of your audio power amplifier.

- Strip off approximately 8 mm (1/4") of the outer protective layer of one conductor and twist its inner cores together to prevent shorting from stray wires. Insert the core into the screw terminal while ensuring that correct polarity is maintained. Repeat this for both speaker wires. Tighten the two screws to make a secure connection.
- The screw terminals for the QCI 6DC are located on the rear of the speaker. The screw terminals for the PCI 6DC and PCI 6DC LP are located on the speaker frame.

The PCI 6DC and PCI 6DC LP frame can be preinstalled and wired up, and the speaker assembly added at a later stage.



## Installation

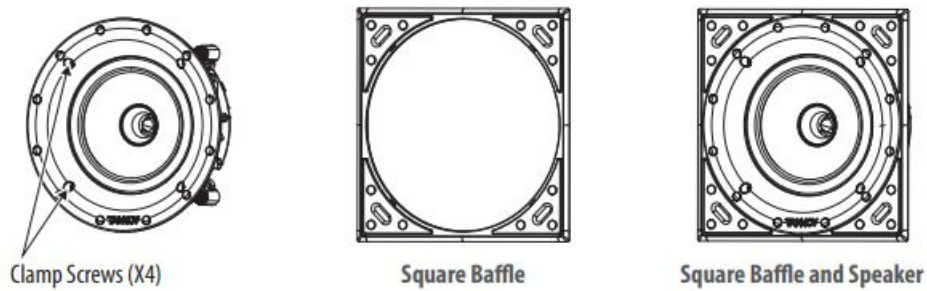
### QCI 6DC

- WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
- The procedure below describes the installation of the speaker into a typical stud ceiling or wall with drywall/plasterboard.
- Locate a suitable mounting position for the speaker, 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 closest wall stud so that the clamping mechanism can operate without interference.
- Use the supplied cut-out template as a guide, and cut out a circular hole in the drywall/plasterboard. Remove any debris from the hole. Use a suitable adhesive in the local area inside the hole to seal the drywall to the studs and joists, to prevent ceiling buzzing.

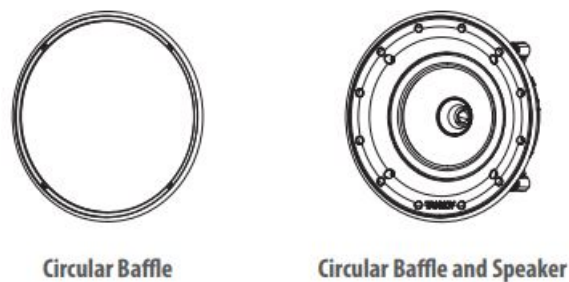


Cutout Installation Template

5. Run the speaker wire from your amplifier to this location, leaving enough slack to allow for the connection.
6. To use the square speaker grille, first move the mounting clamps out of the way by undoing the four screws accessible from the front of the speaker. Remove the backing from the strips of double-sided tape, and push the speaker into the supplied square baffle.

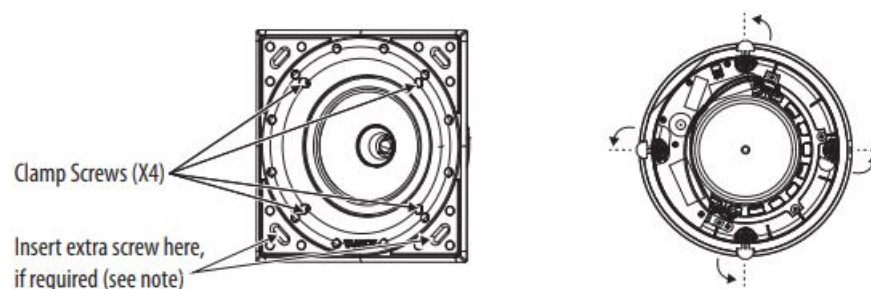


7. If you want to use the circular speaker grille, install the supplied circular baffle instead.

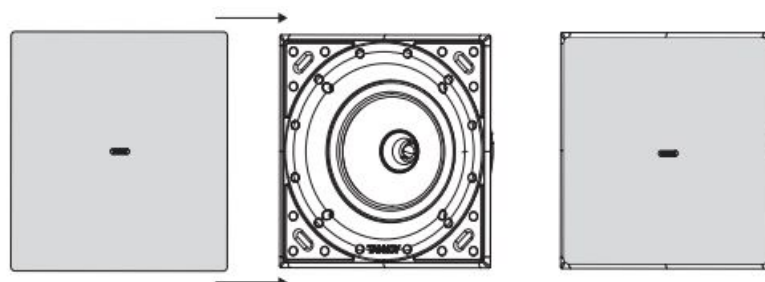


8. Follow the information on the previous pages to connect the speaker wires from your power amplifier to the speaker terminals. Make sure to check that the polarity is correct and that the positive and negative wires are securely and correctly connected.
9. Make sure that the clamps are all in their rest position, then press the speaker/baffle assembly into the cut-out hole in the wall, making sure that the speaker wires are not trapped.
10. Tighten the four screws accessible from the front of the speaker, until all four clamps are holding the speaker in place. As the screws are tightened, the clamps rotate out of their rest position and clamp to the drywall/plasterboard.

Note: After installation, if the square baffle does not press flat against the drywall, insert a 1/2" long screw in the oval depression in each corner of the baffle, and hand tighten until the baffle is flat against the drywall.

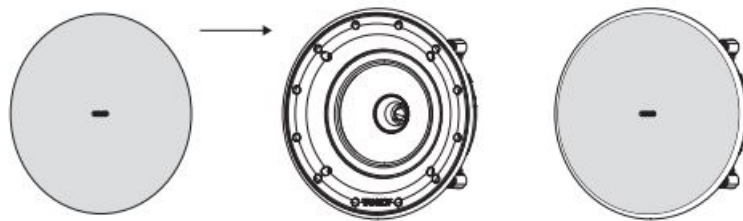


11. Install the square grille by pressing it into the square baffle. Small magnets hold it in place.



12. Alternatively install the circular grille by pressing it into the circular baffle. Small magnets hold it in place.



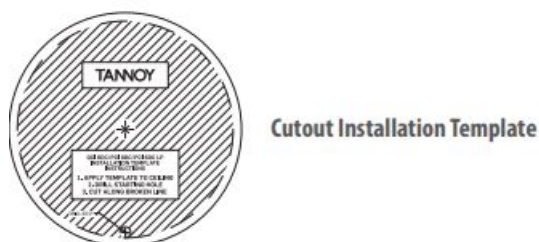


13. The grilles may be painted to match the décor, before they are fitted onto the speaker baffle.
14. Use the supplied square or circular masks to help protect the speaker cones when painting.

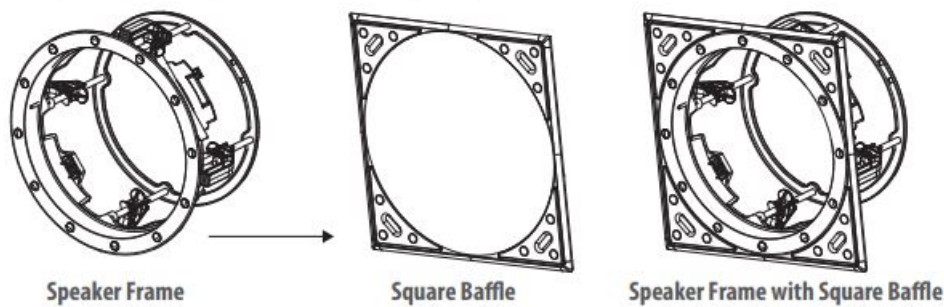


### PCI 6DC and PCI 6DC LP

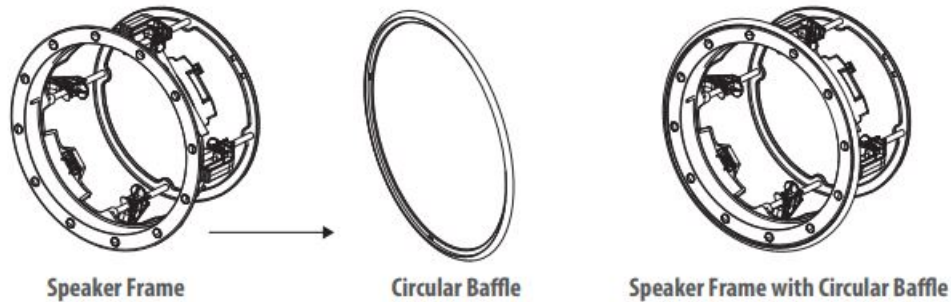
1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. The procedure below describes the installation of the speaker into a typical stud ceiling with drywall/plasterboard. The PCI 6DC and PCI 6DC LP speaker frame is installed and wired, then the speaker assembly can be added later.
3. Locate a suitable mounting position for the speaker, 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 closest wall stud so that the clamping mechanism can operate without interference.
4. Use the supplied cut-out template as a guide, and cut out a circular hole in the drywall/plasterboard. Remove any debris from the hole. Use a suitable adhesive in the local area inside the hole to seal the drywall to the studs and joists, to prevent ceiling buzzing.



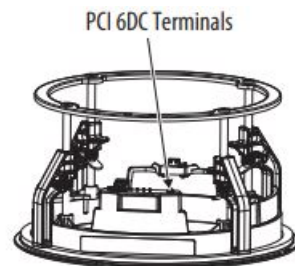
5. Run the speaker wire from your amplifier to this location, leaving enough slack to allow for the connection.
6. To use the square speaker grille, first move the mounting clamps out of the way as described in step 9 below. Remove the backing from the strips of double-sided tape, and push the speaker frame into the supplied square baffle.



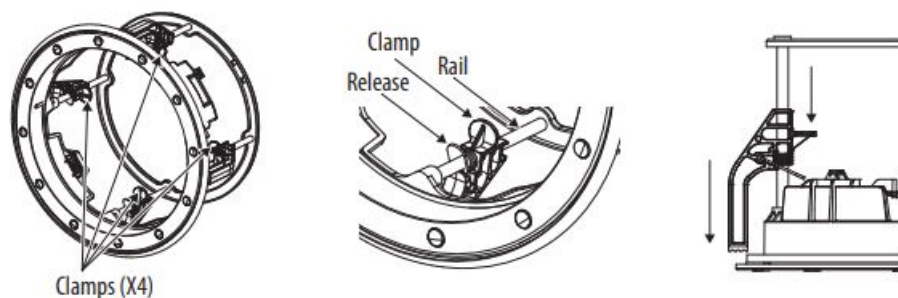
7. To use the circular speaker grille, push the speaker frame into the supplied circular baffle instead.



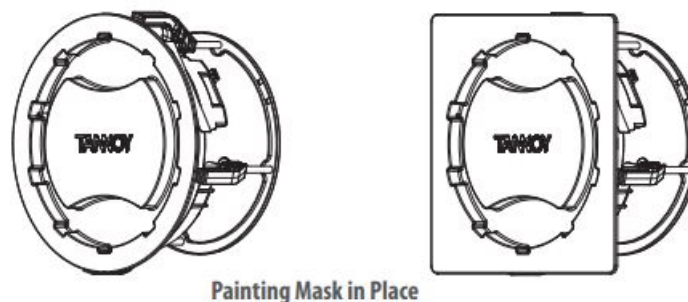
8. Follow the information on the previous pages to connect the speaker wires from your power amplifier to the speaker terminals on the speaker frame. Make sure to check that the polarity is correct and that the positive and negative wires are securely and correctly connected. Secure the speaker wiring to the rear ring of the frame with tie-wraps to prevent movement.



9. Carefully press the speaker frame into the cut-out hole, making sure the speaker wires are not pinched. Reach inside the frame and rotate the clamps outwards and pull the clamps forward on their rails to secure the speaker frame to the drywall/plasterboard. To remove the speaker frame from the hole, press the release tabs and push the clamps back. Clamp Release Rail Clamps (X4)



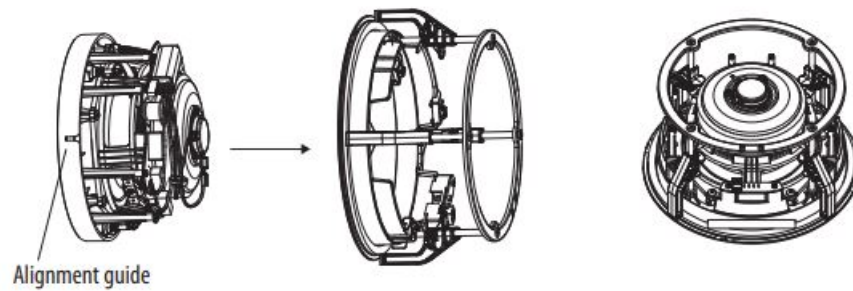
10. Use the supplied square or circular masks to help protect the speaker cones when painting.



11. The grilles can be painted separately.

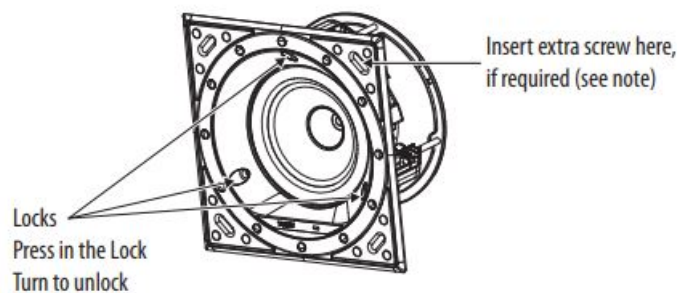
12. To mount the speaker into the mounted speaker frame, align the connector on the speaker, with the corresponding connector on the speaker frame.

The outer ring of the speaker has an alignment guide channel that fits an alignment stub on the frame.



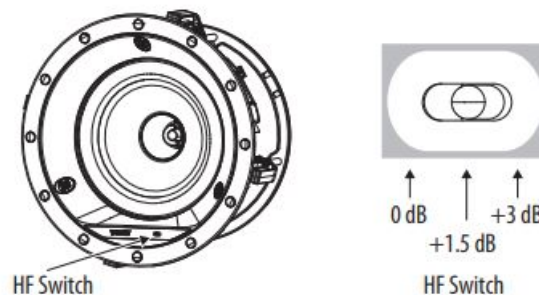
13. To lock the speaker in place in the frame, press down on the three lock buttons on the front of the speaker.

Note: After installation, if the square baffle does not press flat against the drywall, insert a 1/2" screw in the oval depression in each corner of the baffle, and hand-tighten until the baffle is flat against the drywall.

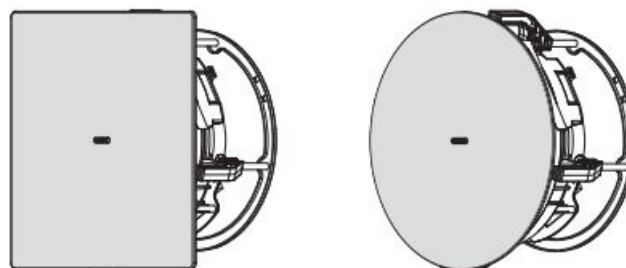


14. To unlock the speaker from the speaker frame, first support the weight of the speaker, and rotate each lock with a screwdriver less than half a turn.

15. The HF switch has three positions, with 0 dB being flat. Adjust as necessary to suit the room position and acoustic conditions.

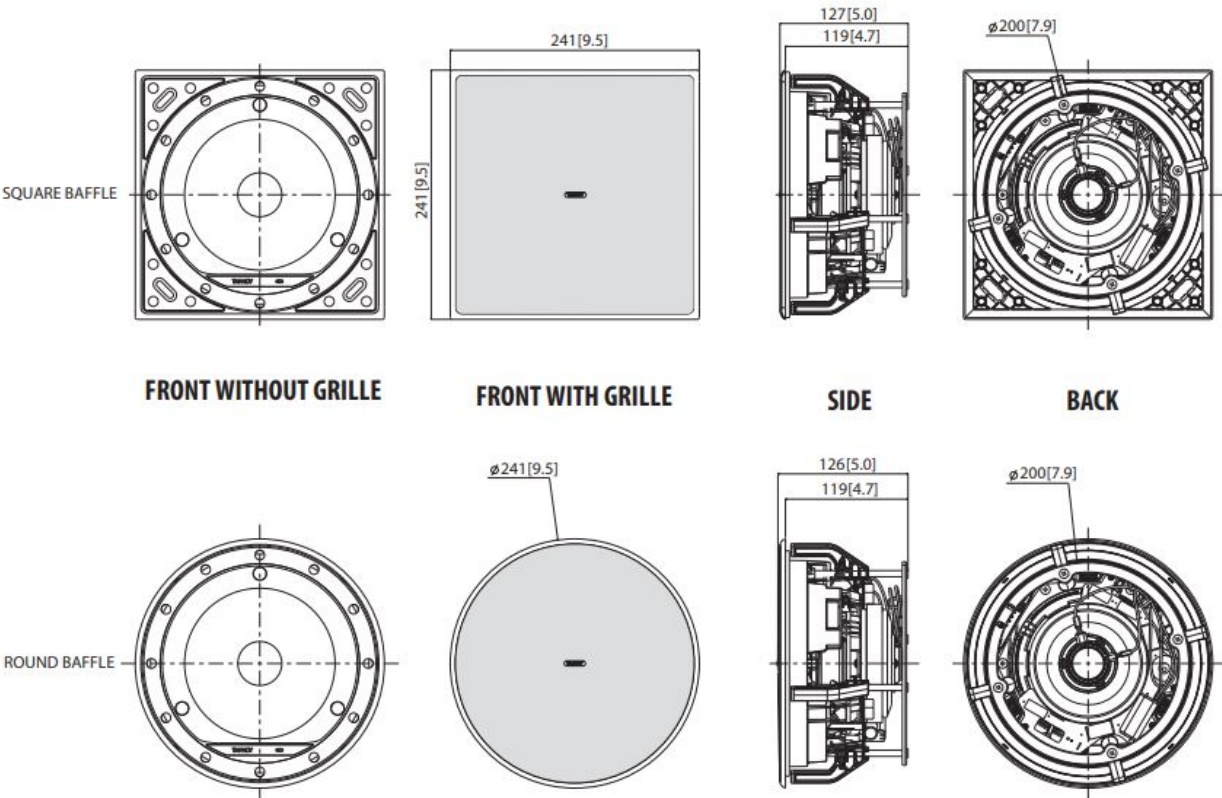


16. Install the square grille by pressing it into the square baffle. Small magnets hold it in place. Alternatively, install the circular grille by pressing it into the circular baffle.

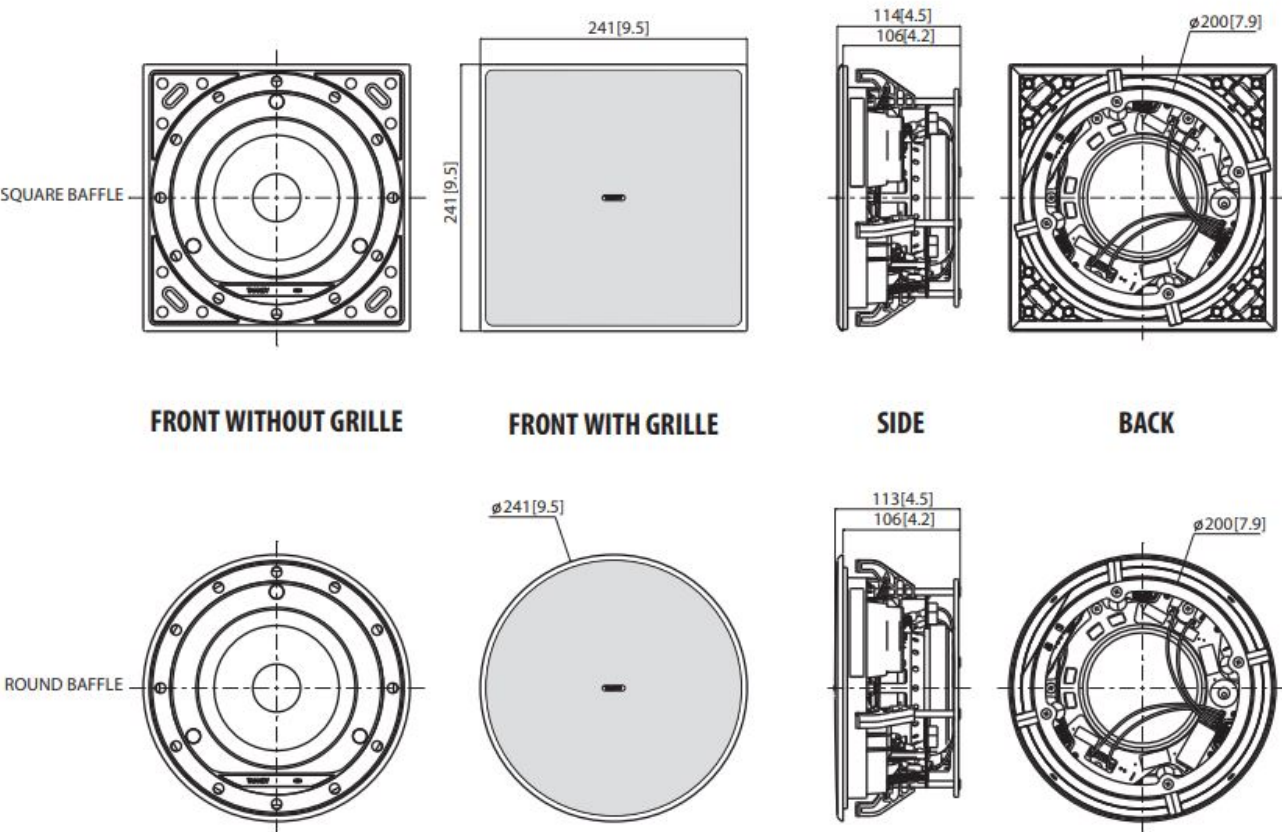


## Dimensions

PCI 6DC Dimensions

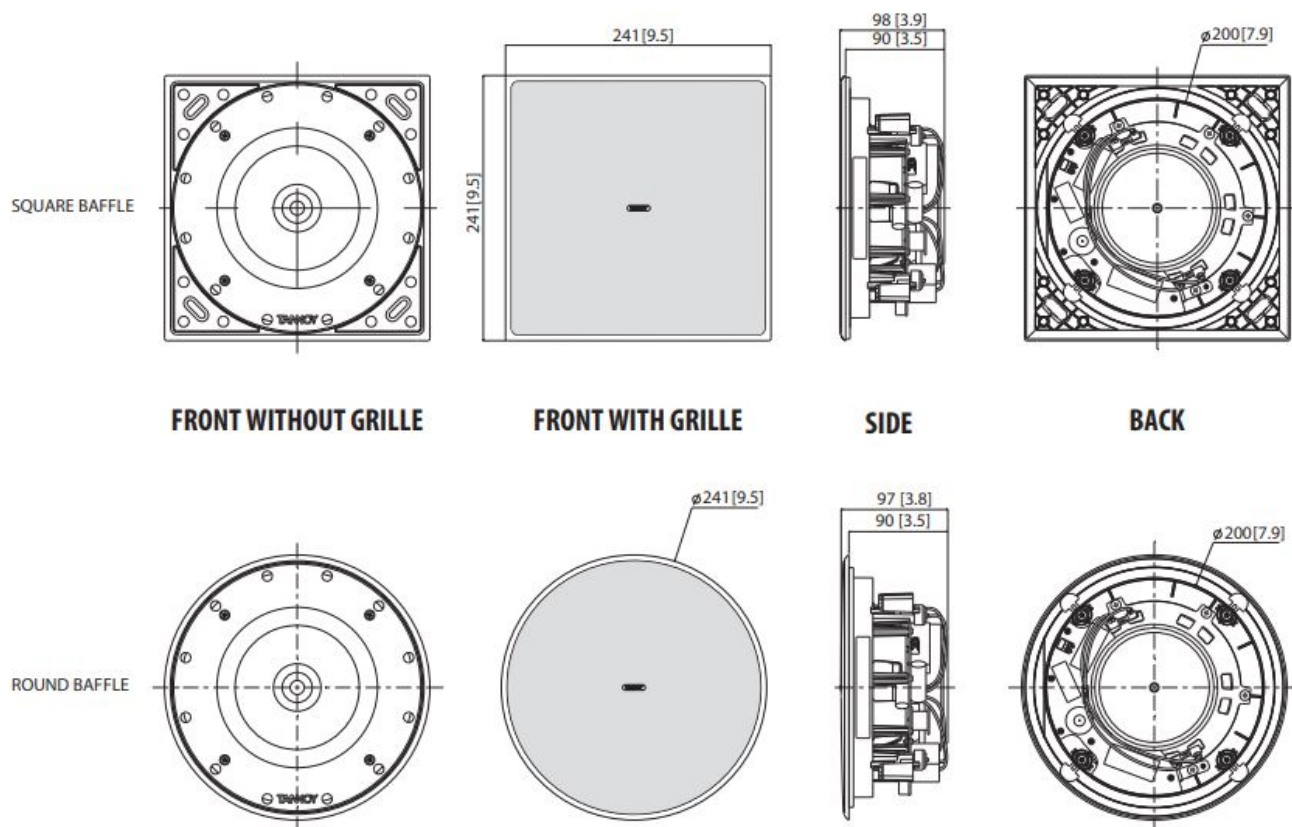


PCI 6DC LP Dimensions



QCI 6DC Dimensions





## Specifications

	QCI 6DC	PCI 6DC	PCI 6DC LP
<b>Processing</b>			
Frequency response ( $\pm 3$ dB)	55 Hz – 20 kHz	50 Hz – 20 kHz	50 Hz – 20 kHz
Frequency response (-10 dB)	35 Hz – 20 kHz	30 Hz – 20 kHz	35 Hz – 20 kHz
Sensitivity (1 W @ 1m)	86 dB	85 dB	86 dB
Nominal dispersion	90° conical @ -6 dB point	90° conical @ -6 dB point	90° conical @ -6 dB point
<b>Power handling (IEC)</b>			
Average	70 W	70 W	70 W
Programme	140 W	140 W	140 W
Peak	280 W	280 W	280 W
Recommended amplifier power	210 W @ 8 $\Omega$	210 W @ 8 $\Omega$	210 W @ 8 $\Omega$
Nominal Impedance (Lo Z)	8 $\Omega$	8 $\Omega$	8 $\Omega$
<b>Rated maximum SPL (1 m, Lo Z)</b>			
Average	104 dB	103 dB	104 dB
Peak	110 dB	109 dB	110 dB
Crossover point	2 kHz	1.5 kHz	2 kHz
<b>Transducers</b>			
Low frequency diameter/ material/type	165.5 mm (6")	165.5 mm (6")	165.5 mm (6")
High frequency diameter/ material/type	25.4 mm (1")	25.4 mm (1")	25.4 mm (1")

Physical			
Back can	(BACK CAN S): Steel, with powder coating	(BACK CAN S): Steel, with powder coating	(BACK CAN S): Steel, with powder coating
Baffle	Reflex loaded UL94 V-0 rated ABS	Reflex loaded UL94 V-0 rated ABS	Reflex loaded UL94 V-0 rated ABS
Grille	Steel, with weather resistant coating	Steel, with weather resistant coating	Steel, with weather resistant coating
Safety features	N/A	N/A	N/A
Clamping design	Security toggle clamp	Security toggle clamp	Security toggle clamp
Connectors	Phoenix Contact terminal block	Phoenix Contact terminal block	Phoenix Contact terminal block
Dimensions			
Dimensions (HxWxD)	98 x 241 x 241 mm (3.9 x 9.5 x 9.5")	127 x 241 x 241 mm (5 x 9.5 x 9.5")	114 x 241 x 241 mm (4.5 x 9.5 x 9.5")
Bezel dimensions	241 x 241 mm (9.5 x 9.5")	241 x 241 mm (9.5 x 9.5")	241 x 241 mm (9.5 x 9.5")
Mounting depth	90 mm (3.5")	119 mm (4.7")	106 mm (4.2")
Hole cutout dimensions	202 mm (8")	202 mm (8")	202 mm (8")
Net weight	2.6kg	3.0kg	2.9kg
Included accessories	Circular baffle, square baffle, circular grille, square grille, circular paint mask, square paint mask, cutout template, screws(4 pcs)	Circular baffle, square baffle, circular grille, square grille, circular paint mask, square paint mask, cutout template, screws(4 pcs)	Circular baffle, square baffle, circular grille, square grille, circular paint mask, square paint mask, cutout template, screws(4 pcs)
Optional accessories	Option 1: BACK CAN S Option 2: PMK 6"	Option 1: BACK CAN S Option 2: PMK 6"	Option 1: BACK CAN S Option 2: PMK 6"
Packed quantity	1	1	1

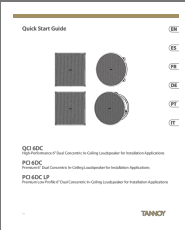
## Other important information

### Important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting [tannoy.com](http://tannoy.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.
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 [tannoy.com](http://tannoy.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 [tannoy.com](http://tannoy.com). Alternatively, please submit an online warranty claim at [behringer.com](http://behringer.com) 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.

**TANNOY**

## Documents / Resources

	<p><a href="#">TANNOY QCI 6DC High-Performance 6" Dual Concentric In-Ceiling Loudspeaker</a> [pdf] User Guide</p> <p>QCI 6DC, PCI 6DC, PCI 6DC LP, High-Performance 6 Dual Concentric In-Ceiling Loudspeaker</p>
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## References

