

Beale Street Audio

IC6-B, IC6-MB, IC6-BB, IC8-B, IC8-MB,
IC8-BB, ICA6-B, ICA6-MB, ICA6-BB, IC6DVC-B,

BS650 In Ceiling Speakers

ICS6-MB, ICS8MB In Ceiling Subwoofers

Installation Guide



Get Reale. Get Beale.™

Introduction

Congratulations and thank you for purchasing Beale Street Audio In Ceiling speakers and subwoofers with Sonic Vortex®.

Our patented Sonic Vortex Technology is based on Ported Transmission Line design and incorporates a compact, integrated enclosure. Most In Ceiling speakers do not utilize a back box, even fewer have an enclosure, and only a Sonic Vortex speaker has an Integrated Transmission Line Ported Enclosure. Without something behind the speaker driver the music not only plays into the room, but also bleeds into adjoining rooms such as the attic or an occupied room. The bleed negatively affects performance, and sound consistency.

The Sonic Vortex enclosure directs all of the sound from the speaker driver into the room it is intend to be in, so you get to enjoy your speakers without disturbing the rest of the house. Great bass response, stereo image, and big sound that you can't get with any other in ceiling speaker.

Beale Street Audio In Ceiling speakers and subwoofers install with ease using the 'dog' mounting system and magnetic bezelless grilles for fast, clean installations.

Please follow the instructions in this manual to assure proper installation and to achieve the full performance and satisfaction you would expect from Beale Street Audio.

Speaker Placement

When installing in ceiling speakers or subs, (or in ceiling anything for that matter) it is always a good idea to find out what is in the ceiling before cutting holes. Be aware of the location of plumbing, electrical and structural elements that may affect speaker placement.

Stereo

It is also a good idea to locate stereo speakers so they are centered to the main listening position in which the user/s will normally be located. Whenever possible, try to position the left and right speakers at the same distance from each other as they are from the main listening position.

Subwoofer

Subwoofers are omni-directional so placement of in ceiling subs is somewhat less critical, but placement can be affected (good and bad) by corners and walls, so try to find a location that will be somewhat unaffected by placement.

Angled

If using the 'Angled In' speakers, be sure to position them so the speakers are facing into the room and directed toward the main listening position.

Surround

Locate surround speakers according to the recommendations in the surround processor's owner's manual

Installation

SPEAKER WIRE

Pull one run of 16AWG stranded speaker wire from the amplifier location to each speaker location. If in pre-wire, while the walls are open and it's easy, pull extra wire to any location that may be desirable to add speakers at a later date. Leave extra length of wire on each end to allow making connections and installing/removing speakers.

Use the chart below to determine the proper gauge of wire, based upon wire length from the amp to the speakers. If using volume controls, include the total length from the amp to the volume control and then to the speakers.

SPEAKER WIRE GAUGE TABLE	
SPEAKER WIRE LENGTH	SPEAKER WIRE GAUGE
150' (46m)	16AWG
400' (122m)	14AWG

NEW CONSTRUCTION

Beale Street Audio speaker installation can be simplified by using a Beale Street Audio new construction EZBracket®, (sold separately; visit www.getbeale.com for additional information). This is installed prior to drywall installation and allows for precise speaker placement and simplifies the final installation of the speaker.

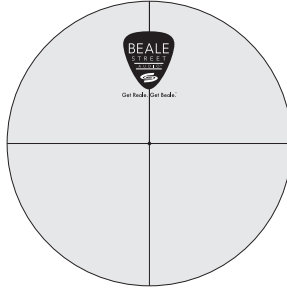
EXISTING CONSTRUCTION

Speaker wire must be run from the equipment or volume control location to each potential speaker location.

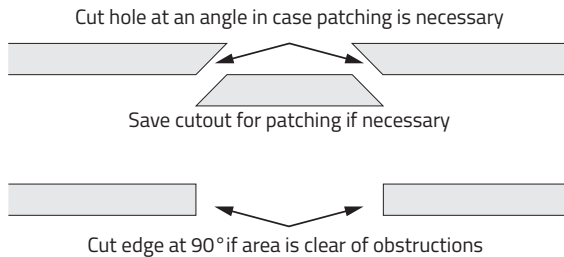
- Choose a location for each speaker that is free of obstructions created by joists, HVAC duct-work, electrical wire runs, plumbing or anything else that might not allow for the depth of the speaker or create interference or noise.

Installation

- Once you have determined your locations, use a pencil to mark the hole to cut out for the speaker using the supplied template. Don't forget to allow for the size of the speaker bezel if you are installing the speaker near a sidewall or other item that could become an obstacle.

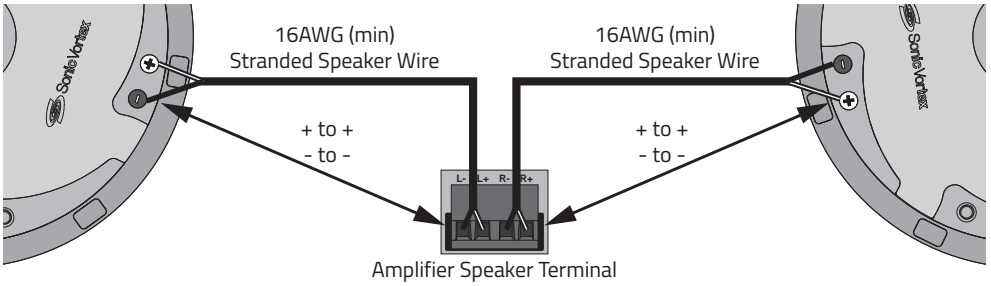


- If you are unsure of potential obstacles, carefully cut your holes using an angle to the inside of the cutout area. This will allow you to "plug" the hole easily if needed. If the area is clear and is a good location for the speaker, go ahead and cut the edges of the opening at 90 degrees to accommodate the speaker diameter.

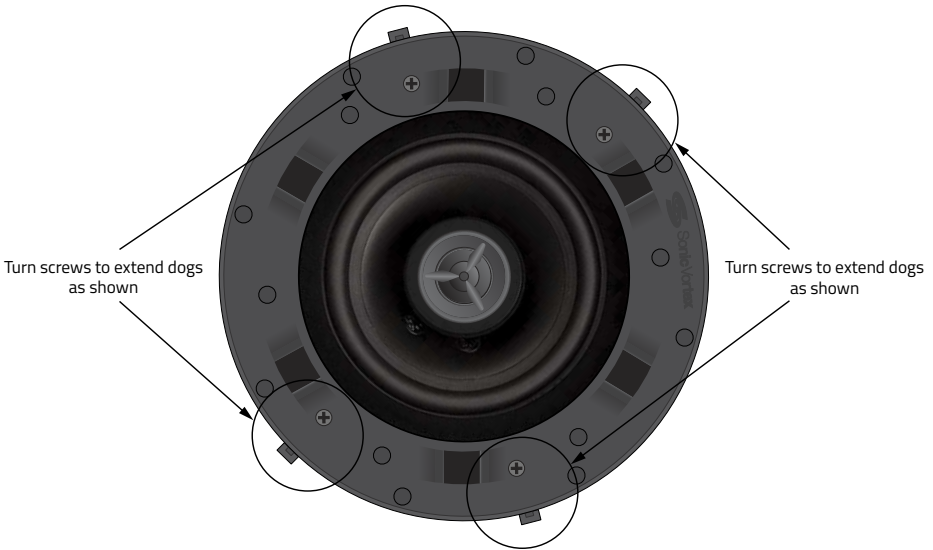


- Strip the insulation on each conductor approximately 1/2" (12.7mm) and insert to the speaker terminals. Ensure that there are no stray strands of wire protruding from the connectors that can cause shorts. Observe proper polarity (+ to + and - to - for each speaker and at the amplifier) and that surround channels are properly positioned and connected, if used.

Installation

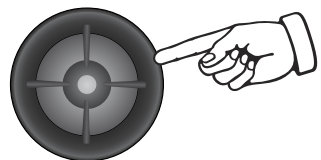


- With the 'dogs' flush to the side of the speaker, insert the speaker into the ceiling and tighten each of the four screws for the speakers' dogs, enough to clamp the speaker to the drywall. Do not over-tighten.



- With the speaker installed, the tweeter can be pivoted to point directly into the main listening area for tighter imaging of high frequency content. Pointing the tweeter away from the main listening area will create a more ambient sound.

Carefully press the edge of the tweeter as shown to pivot the tweeter to the desired position.



Installation

PAINING

The grille may be painted, but go as light as possible to not to clog the fine holes with paint. Only paint grilles when they have been removed from the speakers and be sure to remove the cloth on the backside of the grille before painting. If the cloth is not removed for painting, it will absorb the paint and clog the grille, significantly affecting the sound...and not in a good way. (We have taken great effort to eliminate any 'color' from the sound of our speakers, so let's try to keep it that way...OK?)

TROUBLESHOOTING

Beale Street Audio speakers are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, please check the list of simple fixes below.

SPEAKER TROUBLESHOOTING	
PROBLEM	SOLUTION
NO SOUND	Verify that there is audio from the source selected. Select another source if necessary.
	Ensure that the amplifier is turned on and connected properly.
	Check any connections at other devices, such as a volume control. Temporarily bypass the control if needed.
	Check wire connections at each speaker not producing sound for good contact to bare wire, not wire insulation.

Specifications

6.5" IN CEILING

IC6-B 6.5" In Ceiling 2 Way

- Woofer: 6.5" Poly
- 1" Silk Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 46 Hz - 22 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- Speaker Weight: 7lbs (3.18kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

IC6-MB 6.5" In Ceiling 2 Way

- Woofer: 6.5" Fluted Injected Poly
- 1" Aluminum Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 43 Hz - 24 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- Speaker Weight: 7.10 lbs (3.22kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

IC6-BB 6.5" In Ceiling 2 Way

- Woofer: 6.5" Carbon Fiber
- 1" Titanium Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 40 Hz - 25 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- Speaker Weight: 7.10 lbs (3.22kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

8" IN CEILING

IC8-B 8" In Ceiling 2 Way

- Woofer: 8" Poly
- 1" Silk Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 38 Hz - 22 kHz
- Sensitivity: 92db
- Gold Spring Push Terminal Connector
- Depth 8.6" (219.5mm)
- Speaker Weight: 8.38 lbs (3.8kg)
- Cutout: 10.3" (261.5mm)
- Diameter 11.3" (284mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: B

IC8-MB 8" In Ceiling 2 Way

- Woofer: 8" Fluted Injected Poly
- 1" Aluminum Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 35 Hz - 24 kHz
- Sensitivity: 92db
- Gold Spring Push Terminal Connector
- Depth 8.6" 219.5mm
- Speaker Weight: 8.38 lbs (3.8kg)
- Cutout: 10.3" (261.5mm)
- Diameter 11.3" (284mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: B

IC8-BB 8" In Ceiling 2 Way

- Woofer: 8" Carbon Fiber
- 1" Titanium Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 32 Hz - 25 kHz
- Sensitivity: 92db
- Gold Spring Push Terminal Connector
- Depth 8.6" (219.5mm)
- Speaker Weight: 8.38 lbs (3.8kg)
- Cutout: 10.3" (261.5mm)
- Diameter 11.3" (284mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: B

Specifications

6.5" ANGLED IN CEILING

ICA6-B 6.5" Angled In Ceiling 2 Way

- Woofer: 6.5" Poly
- 1" Silk Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 46 Hz - 22 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- 15 Degree Angled Woofer
- Speaker Weight: 6.97 lbs (3.16kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

ICA6-MB 6.5" Angled In Ceiling 2 Way

- Woofer: 6.5" Fluted Injected Poly
- 1" Aluminum Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 43 Hz - 24 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- 15 Degree Angled Woofer
- Speaker Weight: 6.97 lbs (3.16kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

ICA6-BB 6.5" Angled In Ceiling 2 Way

- Woofer: 6.5" Carbon Fiber
- 1" Titanium Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 40 Hz - 25 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- 15 Degree Angled Woofer
- Speaker Weight: 6.97 lbs (3.16kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- Pivoting Tweeter
- EZBracket Size: F

6.5" DUAL VOICE COIL

IC6DVC-B 6.5" In Ceiling Dual Voice Coil

- Woofer: 6.5" Poly
- 1" Silk Dome Tweeter
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Installed Frequency Response: 46 Hz - 22 kHz
- Sensitivity: 89db
- Connector Type: 4 Pin Terminal
- Depth 6.8" (172mm)
- Speaker Weight: 7lbs (3.18kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-90W
- Pivoting Tweeter
- EZBracket Size: F

CONTRACTOR SERIES SPEAKERS

BS650 6.5" In Ceiling 2 Way

- Woofer: 6.5" Poly
- 1" Silk Dome Tweeter
- Butyl Rubber Surround
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 8Ω
- Frequency Response: 46 Hz - 22 kHz
- Sensitivity: 89db
- Gold Spring Push Terminal Connector
- Depth 3.3" (84mm)
- Speaker Weight: 2.69lbs (1.22kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-90W
- Pivoting Tweeter
- EZBracket Size: F

Specifications

6.5" IN CEILING SUBWOOFER

ICS6-MB 6.5" In Ceiling Subwoofer

- Woofer: 6.5" Kevlar
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Magnetic Bezelless Grille; White - Paintable
- Impedance: 4Ω
- Installed Frequency Response: 38 Hz - 300 Hz
- Sensitivity: 90db
- Gold Spring Push Terminal Connector
- Depth 6.8" (172mm)
- Speaker Weight: 7.10 lbs (3.22kg)
- Cutout: 8.4" (214mm)
- Diameter 9.4" (239mm)
- Power Handling: 5-120W
- EZBracket Size: F

8" IN CEILING SUBWOOFER

ICS8-MB 8" In Ceiling Subwoofer

- Woofer: 8" Kevlar
- Butyl Rubber Surround
- Sonic Vortex® Ported Transmission Line
- Grille: Magnetic Bezelless; White - Paintable
- Impedance: 4Ω
- Installed Frequency Response: 28 Hz - 300 Hz
- Sensitivity: 90db
- Gold Spring Push Terminal Connector
- Depth 8.6" (219.5mm)
- Speaker Weight: 11.8 lbs (5.35kg)
- Cutout: 10.3" (261.5mm)
- Diameter 11.3" (284mm)
- Power Handling: 5-240W
- EZBracket Size: B

Limited Lifetime Warranty

For Beale Street Audio Branded In-Wall and In-Ceiling Speakers and Subwoofers Purchased after May 1, 2017

Limited Warranty

Vanco warrants to you, the original consumer purchaser of speakers, that under proper use and conditions, and subject to the other conditions provided below, your speakers will be free from defective materials and workmanship for the life of the speakers. This warranty only applies to passive speakers. Active products, such as amplifiers, electronics, and powered subwoofers are not covered under the Lifetime Warranty. Please review the individual manual provided with each specific product for the warranty information.

What Vanco Will Do

If a speaker proves defective in either material or workmanship, Vanco, at its option, will either (a) repair and return it to you, or (b) replace and ship you a new speaker of the same model, unless your model is no longer available, in which case Vanco may replace your speaker with a current model of comparable value. In either case, Vanco will pay the shipping charge of sending you (US only) a replacement speaker or your repaired speaker. If a current model is substituted for your speaker, a modification to the mounting surface may be required. Vanco is not responsible or liable to make, account for or pay the cost of any such modification.

How To Make A Warranty Claim

The first step in making a claim under this limited warranty is to contact the Vanco authorized distributor/dealer where you purchased the speaker, or if you are unable to contact the distributor/dealer, you can contact Vanco directly, for instructions on what action to take. If it is necessary to return the speaker, it must be shipped in appropriate packaging to the destination given to you, prepaid with signature required for delivery, and be accompanied by (1) a document providing your name, address, phone number and email address, and a statement of why you believe the speaker is defective, and (2) a copy of your original receipt or bill of sale that identifies you as the original purchaser of the speaker and the authorized distributor/dealer you purchased it from ("Proof of Purchase"). You have the risk of loss or damage in transit to the destination, and therefore you are responsible for insuring the shipment for the full value of the speaker. Freight collect shipments will be refused. If Vanco determines this limited warranty does not cover your claim, your speaker will be returned to you freight collect.

Exclusions and Limitations

This limited warranty does not cover:

- > Speaker failure caused by anything other than a defect in material and workmanship.
- > Consequential damage to other components, equipment or premises regardless of the reason.
- > The cost of removing and reinstalling your speaker.
- > The cost of returning your speaker to Vanco.
- > Any claims if you are unable to provide Proof of Purchase from a Vanco authorized distributor/dealer.

Warranty continued next page

Limited Lifetime Warranty (cont)

For Beale Street Audio Branded In-Wall and In-Ceiling Speakers and Subwoofers Purchased after May 1, 2017

This Limited Warranty Is Null And Void If Your Speaker:

- > Was used in an application or environment other than that for which it was intended
- > Misused, abused, improperly installed or removed
- > Damaged by any accident, disaster or other cause not related to defects in materials and workmanship.
- > You sell or otherwise transfer your speaker to any other person.
- > Was modified or repaired by anyone other than Vanco, or its serial number is altered, defaced or removed.

REPAIR OR REPLACEMENT OF YOUR SPEAKER UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. IN NO EVENT WILL VANCO BE LIABLE FOR ANY AMOUNT GREATER THAN THE ACTUAL PURCHASE PRICE PAID BY YOU FOR THE SPEAKER. VANCO SHALL NOT BE LIABLE FOR ANY FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES HOWSOEVER CAUSED. THIS LIMITED WARRANTY REPRESENTS THE ENTIRE WARRANTY AGREEMENT BETWEEN YOU AND VANCO REGARDING YOUR SPEAKERS AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY, FROM STATE TO STATE. SOME STATES LIMIT WHAT WARRANTIES MAY BE EXCLUDED AS WELL AS HOW LONG AN IMPLIED WARRANTY LASTS, SO THESE LIMITATIONS MAY NOT APPLY TO YOU.

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A NEW BRAND FROM  **VANCO.**

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