
Tri-Art
AUDIO

User Manual

B-Series

5 open speaker



Natural/Naturel
#10844

#15723 (w/ crossover)



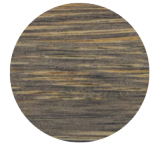
Black/Noir
#33528

#33532 (w/ crossover)



Distressed/Affligé
#33529

#33533 (w/ crossover)



Graphite Grey/Gris Graphite
#33530

#33534 (w/ crossover)

*Read the user manual
before operating.

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safety information

Before you start...

Warning of a hazard for the user, the unit or possible misuse. Important notice.



Thank you for buying a Tri-Art Audio product. Please read through this manual to understand and operate this product correctly. Please keep this manual in a safe place so that you may refer to it whenever necessary. Please ensure the product you are using is rated for your country's electrical system, or it will not be covered under our warranty.

Warning:

To prevent fire or shock hazard, do not expose this product to rain or moisture.

Important Notice:

The serial number for this equipment is located on the bottom of this component. Please write this serial number on the enclosed warranty card and follow the instructions to register your product for our five (5) year limited warranty.

This equipment is designed for consumer use, such as home audio systems. It is not designed to operate in a business environment or a mobile application. Mobile, pro or commercial businesses such as restaurants will not be covered under warranty.



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



safety information

Safety Instructions

Read Instructions:

All the safety and operating instructions should be read before operating this equipment.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed All Warnings:

All warnings, set up procedures, and operating instructions should be strictly adhered to. Follow all instructions carefully.

Water and Moisture:

Under no circumstances should this audio component be used near water. It is not to be used in a bathroom, water closet, shower, kitchen, wet basement, pool/spa/sauna area, or outside.



safety information

Safety Instructions

Ventilation:

Please ensure that the location of this equipment is such that in no way does it prevent adequate ventilation. Do not enclose this in fabric or enclose in a cabinet where there is no adequate ventilation. In no instance should the product be located where the flow of air is impeded or cannot allow proper ventilation.

Heat:

This product should be located well away from all the heat sources such as but not limited to heaters, forced air heat, radiators, stoves, and fireplaces.

Power Sources:

The Tri-Art component should be connected to a power supply as listed on the actual component and manual.

Cleaning:

Your Tri-Art product was soaked and finished in hemp oil. Do not use lacquers or aerosol wax products with this product. Do not pour water on the surface at any time.

Heavy Objects:

Do not place heavy objects on this component.



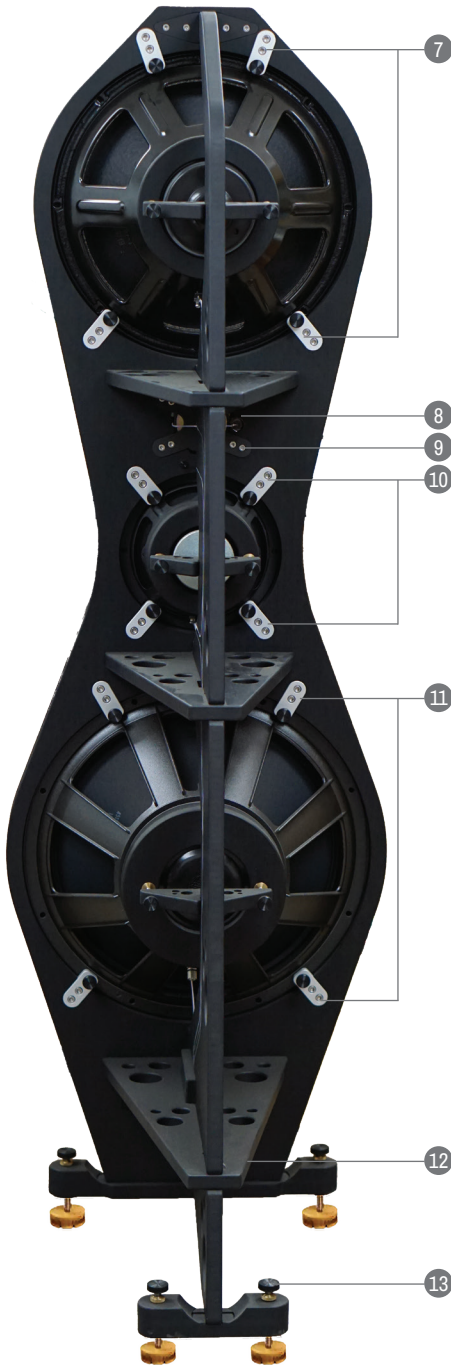
speaker front



- 1 Bass Driver
- 2 Soft Dome Tweeter
- 3 Super Tweeter
- 4 Alnico Full Range Driver
- 5 Sub Bass Driver
- 6 Spike Cups



speaker back



- 7 Mounting Braces for Bass Driver
- 8 Mounting Brace for Soft Dome Tweeter
- 9 Mounting Block Super Tweeter
- 10 Mounting Braces for Anico Full Range Driver
- 11 Mounting Braces for Sub Bass Driver
- 12 Speaker Inputs (hidden in photo)
- 13 Leveling Spike Feet



speaker specs

Drivers:

| | |
|-----------------------|---|
| Total Drivers: | Five (5) |
| | 1. One (1) 1" (254mm) Fabric Soft Dome Tweeter |
| | 2. One (1) Super Tweeter |
| | 3. One (1) 8" (203.2 mm) Full Range Paper Cone Cloth Edge Alnico Magnet |
| | 4. One (1) 15" (381mm) Paper Cone Cloth Edge woofer (Upper Bass) |
| | 5. One (1) 18" (457.2) Paper Cone Cloth Edge woofer (Sub Bass) |

External Crossover:

| | |
|------------------------------------|--|
| External Crossover | (Two) |
| Tweeter | >13000 Hz, 20 watts max |
| Full Range | 100hz-20000Hz |
| Super Tweeter | 40000hz |
| Bass | Single open air inductor filter 100hz @1st order 6 db Slope (note the bass driver is not controlled by the attenuator) |
| Sub Bass | Single open air inductor filter 50hz @1st order 6 db Slope (note the Sub bass driver is not controlled by the attenuator) |
| Inputs: | Three (3) Sub Bass, Full, Bass |
| Outputs: | Three (3) Sub Bass, Full, Bass |
| Jumper Cables: | Stranded Cable Supplied (for single amp use) |
| Speaker to Crossover cable: | Three (3) Pair 20" .5mm supplied |
| Gain Control: | 100 Watt Attenuator Controls gain to full range and tweeter |

Speaker:

| | |
|-----------------------------------|--|
| Speaker Connections: | 5-way binding posts identified as Sub Bass, Full, Bass |
| Adjustable Volume Control: | 47 Ω resistor |
| Support Feet: | Eight (8) Adjustable Bronze Spikes with iso feet. |
| Design: | Open Baffle |
| Nominal Impedance: | Single Input 8 Ω |
| Recommended Amplifiers: | 25 Up to 150 Watts RMS |
| Sensitivity: | 94 dB SPL (1W/1M) |
| Volume Matching: | Crossover Only |
| Frequency Range: | 30 – 40,000 Hz |
| Mode: | Floor Standing |
| Finish: | Bamboo Laminate Soaked in Hemp Oil |
| Stands: | Bamboo Stand with 4 Brass-Collared, Bronze Spikes with Bamboo Spike Cups |

Dimensions: H: 62.0" (157.48cm) W: 19" (48.26cm) D: 16.25" (41.27cm)

included in the box

- One (1) Pair of 5 Open Speakers
- One (1) Pair of 5 Open Speaker stands
- One (1) Pair of 5 Open Crossovers
- One (1) Pair of 0.5m 20" 99.999 Oxygenated copper (solid) speaker cables with banana plugs (for connection to crossovers)
- One (1) Pair of single-strand jumpers for single amplifier use
- Eight (8) Bronze spikes with adjustable handles (top mounted)
- Two (2) Sets of Bamboo Spike cups (eight total)

Optional:

- #16820 1.5 M Tri-Art B Speaker Cable for single amplifier
- #34951 Tri-Art Tri-Wire Cable for two amplifiers [Bi-Amp]
- #34952 Tri-Art Speaker Cable for three (3) amplifiers [Tri-Amp]



use & guidelines

Setting up the Open 5 Series Speakers

We recommend the use of a laser measurement device (not included) for best results. Due to the size and weight of the speakers, it is recommended that two people remove the speaker from its packaging.

The 5 Open baffle speaker does not have a rear enclosure which allows it to produce startlingly real bass with amazing depth and spectacular imaging. To capitalize on its strengths, a few basic tips on speaker placement are needed.

Position from the side wall to the speakers:

The open baffle speaker is similar to a dipolar speaker that emits sound waves from both the front and back of the speaker. In the popular rectangular room setup, the speakers should be moved away from the short wall to at least 3 feet away. Placement too close to the short back wall can result in an imperfect bass response or cancellation of frequencies. We suggest using the rule of thirds or the Golden Ratio for some truly spectacular imaging and bass (see below)

In our showroom and our demonstration suites at Audio Trade shows, we usually position them in front of the short wall. For positioning;

Example: Room 10" X 12" or 304.8 x 365.76 cm (Long Wall 12 Feet 365.76 cm) For the recommended distance, we will use the rule of thirds. We measure the long wall distance and use either 1/3 or 1/6 of the long wall distance. In this example, the result of our calculation of 1/3 of the long wall is 4 feet or 121.92cm. Therefore We position them at 4 feet - 121.92 cm from the back wall.

Position from Side Walls:

The side walls are less likely to pose node cancellation at first reflection issues because of the quasi-Figure-8 pattern of the sound wave that open baffles project. This allows you to move them further apart than traditional box speakers. We have had great results but as a rule of thumb try to allow at least 18" or 45.5 cm distance from the side walls to the speaker. Let your ears be the final arbiter of the best sound in your listening room.

Level the Speakers:

What seems like a minor item is important: leveling the speakers. This pays huge dividends and is worth the initial effort. Install and adjust the spike feet to level the speaker. Note: We recommend the speaker to be level. Some users like to tilt the speaker forward **which we do not recommend for safety purposes**. Tri-Art Audio shall not be held responsible for the incorrect installation of our speakers.

Connections (note the 4 Open speakers do not have internal crossovers)

All connection examples here within are with Tri-Art Speaker Cables. #334951 #16709

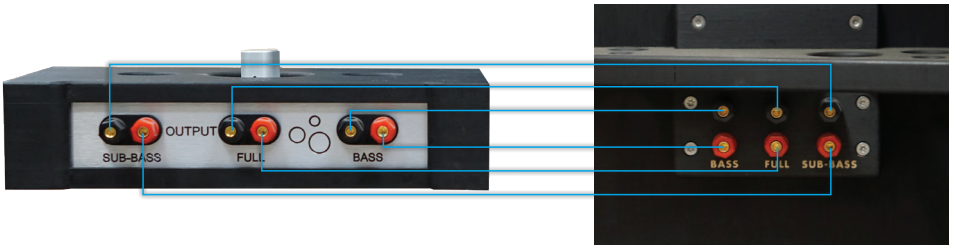
Open 5 Connections

The 5 Open connectivity options shown here are single amp and bi-amp.
Contact us for tri-amp option.

1. Crossover-To Speaker Connections Single Amp

Crossover Output To Speakers (all configurations)

- Connect the Full-Range Output to the Full Input terminals on the 5 Open Speaker
- Connect the Bass Output from the crossover to the Bass Input terminals on the 5 Open Speaker
- Connect the Sub-Bass output to the Sub-Bass Input terminals on the 5 Open Speaker



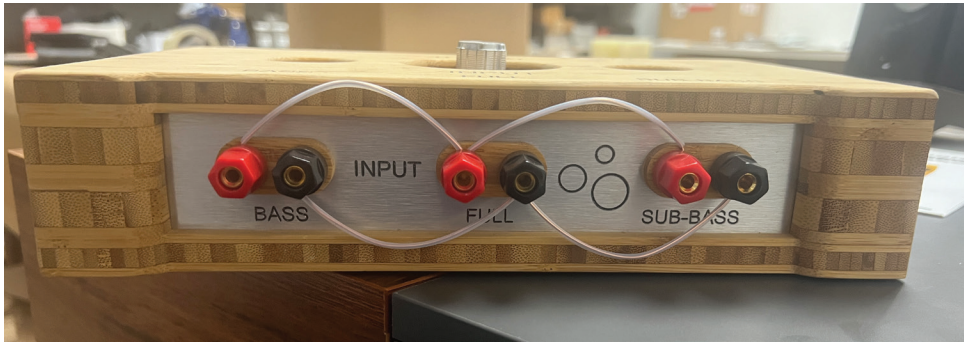
2. Single Amplifier Option 1 with Jumpers

2.1 Jumper Configurations for Single Amplifier Connection

The First step is to connect the jumpers:

Connect the stranded copper jumpers to the crossover inputs as follows (see photo below).

- A. FULL (RED) to Bass (RED)
- B. FULL (RED) to Sub Bass (RED)



C. Connect the Amplifier R/L Outputs to the Crossover FULL (R/L) inputs

* Note the jumpers can be eliminated by using Tri-Art Tri Cable #16409

3. Connections for Bi-Amping the 5 Open

Crossover Output To Speakers (all configurations)

- Connect the Full-Range Output to the Full Input terminals on the 5 Open Speaker
- Connect the Bass Output from the crossover to the Bass Input terminals on the 5 Open Speaker
- Connect the Sub-Bass output to the Sub-Bass Input terminals on the 5 Open Speaker

Bi-Amp with jumpers Configuration

The First step is to connect the jumpers to the bass drivers:

Connect the stranded copper jumpers to the crossover inputs as follows

- A. Bass (RED) to Sub Bass (RED)
- B. Bass (BLACK) to Sub Bass (BLACK)
- C. Connect the L/R output of Amplifier One to the Full Input On Crossover
- D. Connect the L/R output of Amplifier Two to the Bass Input on the crossover
(with bass jumpers installed)

*Note the jumpers can be eliminated by using Tri-Art Tri Cable #34951



Volume Matching (blend switch)

Each crossover has an attenuator (see fig. below) on the top panel that can increase or decrease the output of the audio signal to the full range and tweeter drivers. This allows the perfect blending of these frequencies above 100hz with the non-attenuated control of the bass driver. Note the bass driver does not have a gain switch and this is intentional. With the correct positioning of the speaker, the bass will be optimized to the best the room can provide. At this point all the listener has to do is adjust the signal gain of the full range and upper frequencies to match the output for exceptional repeatable performance in any room.

Troubleshooting

RATTLE SOUND

Sometimes during shipment or installation of the spikes, they are not tightly set. In this case, a slight rattle sound may be detected.

If you hear this:

1. First, check the adjustment screws in the feet and tighten if necessary. This is the most likely cause. See page 4.
2. Check the adjustment on the drivers in the rear they should be snug (not overtightened). See page 5.

The sound is just Bass, with little to no high frequencies.

1. Most likely the attenuator is set to 0 (far left) adjust the gain switch on the crossover
2. You have connected the amplifier to the sub Bass setting with a single amp
3. You are using a single amplifier and have not used the jumpers
4. Your amplifier is not connected to the full range.



warranty information

For Your Protection

Completely and immediately mail the product registration card so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Safety Act, or for other reasons Tri-Art Audio may deem necessary.

Service & Support

For all service and/or update inquiries, please use the Contact Us form from our web site www.triartaudio.com.

Manufacturer's Limited Five Year Warranty

Tri-Art Audio warrants this unit to be free from defective material or workmanship and will repair or replace this unit or any part thereof if it proves defective in normal use or service within five (5) years from the date of original purchase.

This warranty will be considered void if the unit has been tampered with, improperly serviced, subjected to abuse or misuse or if installed in a commercial vehicle. This warranty does not cover accidental damage.

For all warranty information please see Tri-Art Audio's warranty information card included with your new equipment.



Tri-Art AUDIO

triartaudio.com



Designed. Fabricated. Assembled.
In Canada