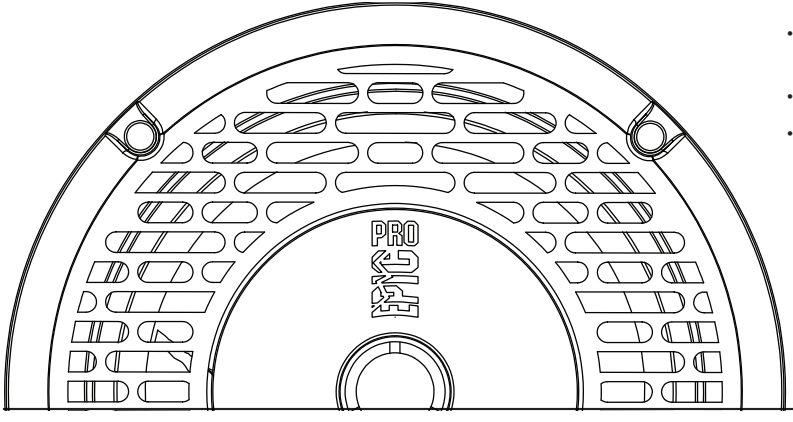
AudioControl®

Making Good Sound Great™



FEATURES

- Lightweight 1.5" midrange voice coil for high SPL output
- Precision-designed horn flare for extended high-frequency response
- Aluminum compression horn tweeter diaphragm for high-volume, precision wide band sound
- Double-roll cloth surround for accurate sound reproduction
- High-tensile, stamped-steel basket for improved damping
- High-density composite fiber cone — Delivers warm, natural tonality with Exceptional Damping
- Mounting hardware and grilles included
- Warning: Your neighbors may not approve

EPIC PRO

HORN PROAXIAL SPEAKERS / EPICPRO6HCX

User Guide

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not submerge this apparatus in water.
6. Clean only with a dry cloth.
7. **WARNING:** The speakers must be properly secured in the vehicle. Improper installation may lead to permanent injury or death. Installation of the speakers must be done with great care by qualified personnel, to prevent damage to fuel lines, power and other electrical wiring, hydraulic brake lines, and other systems that might compromise vehicle safety.
8. Use speaker wire of sufficient size to ensure adequate current to the speaker. For EPIC Series Speakers, this typically means 14-18 gauge speaker wire.
9. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any way, such as damaged input terminals, objects falling into the apparatus, abnormal operation, or if it has been dropped.
10. Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.



The exclamation point inside an equilateral triangle is used to alert the user to important operating instructions in the literature that comes with the speakers.



Recycling notice: If the time comes and this apparatus has fulfilled its destiny, do not throw it out into the trash. It has to be carefully recycled for the good of mankind, by a facility specially equipped for the safe recycling of electronic apparatuses. Please contact your local or state recycling leaders for assistance in locating a suitable nearby recycling facility. Or, contact us and we might be able to repair it for you.

CE

Speaker Talk

Congratulations on acquiring this impressive set of beautifully engineered and obnoxiously loud speakers!

We feel for your neighborhood.

If you didn't attend auto shop in school or struggle with plugging in power tools, your best bet is to seek out a qualified AudioControl dealer. They have the skills, experience, and specialized tools to get your vehicle sounding like a live concert – and they usually smell alright too.

Pro Audio

This EPIC Pro range of speakers is a far cry from traditional car speakers. These speakers are designed for one job – to be loud!

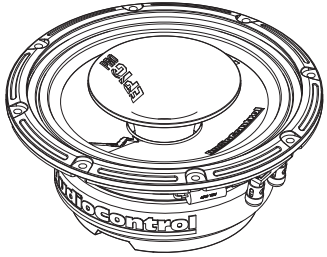
The speaker technology and engineering are entirely focused on efficiency, which requires different components compared to "normal" car audio, such as lightweight composite cones and dual-roll cloth surrounds. These features help increase efficiency, or "SPL". The greater the efficiency, the louder we go! By pairing these high-efficiency soft parts with a perfectly engineered motor structure and voice coil, the result is concert-level sound, directly from your car.

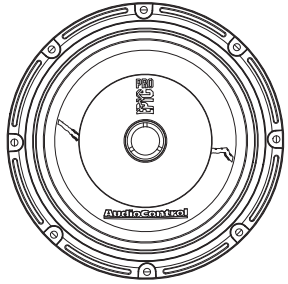
The horn coaxial speaker combines a high-efficiency midrange driver with a wideband horn driver to deliver an incredibly loud, full-range response from a single point source. By integrating both components into one unit, it eliminates the need for separate mid and high-frequency drivers, simplifying installation without sacrificing performance.

You get the best of both worlds – the punch and clarity of our EPIC midrange combined with the power and projection of a pro-grade bullet tweeter - all packed into one seriously loud, seriously capable speaker.

We advise that you adjust the crossover on your amplifier according to each speaker's technical specification in this manual.

Now get out there and bring the noise!



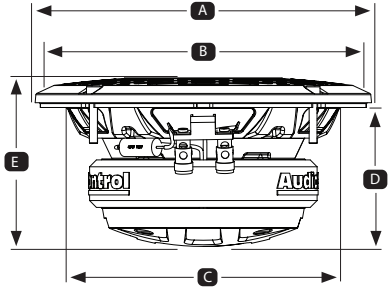


Specifications

DC Resistance (Re).....3.2 ohms
Voice Coil (Tw / Mid) .....1.0 / 1.5 in / (25.4 / 38.5 mm)
System Frequency Response ..... 120 Hz to 20,000 Hz
Sensitivity*.....93.4 dB @ 1 W / 1 m
.....97 dB @ 2.83 V / 1 m
Magnet Weight .....21 oz / 595 g
Magnet Dimensions .....4.33 x 1.77 x 0.59 in / 110 x 45 x 15 mm

Dimensions

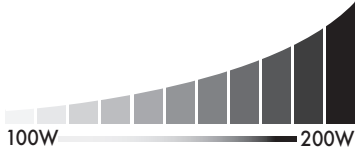
Overall Diameter + Grille (A) .....6.7 in / 170 mm
Overall Diameter w/o Grille (B).....6.53 in / 166 mm
Cut-Out Diameter (C) .....5.55 in / 141 mm
Mounting Depth (D) ..... 2.76 in / 70.2 mm
Total Depth (E) ..... 3.35 in / 85.2 mm



**We show sensitivity in both 2.83 V / 1 m and 1 W / 1 m for the most helpful comparison. Most amps work by delivering voltage, not a fixed wattage. Since 2.83 V equals 1 W into an 8 Ω speaker but 2 W into a 4 Ω speaker, this gives you a reliable way to compare speakers, no matter the impedance.*

Suggested Amplifier Power

Performs with precision at 100 watts, but push it to 200 watts and it unleashes maximum SPL with incredible clarity — built to handle serious power with ease.



The power handling of the **EPICPRO6HCX** is determined by the crossover points at which the driver is used.

Please see below to determine the crossover points at which you will operate and the power handling capabilities.

(Integrated capacitor provides high-pass filtering to protect the tweeter, eliminating the need for an external high-pass filter)

Power handling chart

Sound	HPF	Slope	Power
Enhanced Bass/Midbass	100 Hz	12 dB	100 W
Warm Midbass, high-volume	150 Hz	12 dB	150 W
Powerful Midrange, max-volume	200 Hz	12 dB	200 W

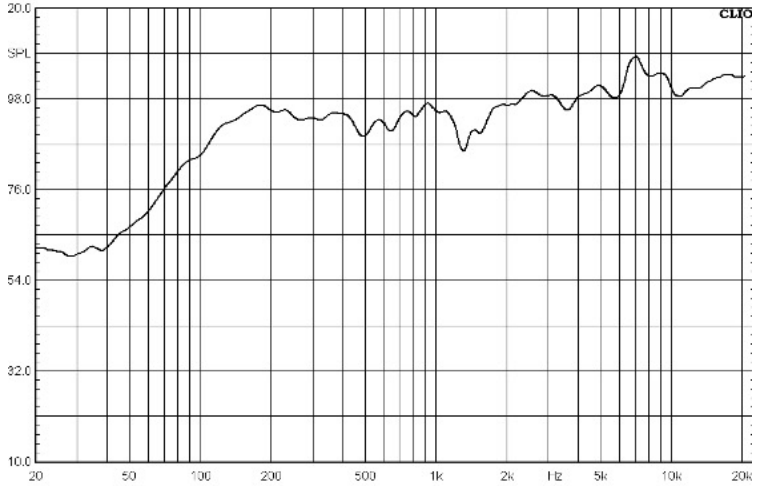
TS Parameters

Below are the TS parameters related to the **EPICPRO6HCX** coaxial driver. The parameters can be used to plot and design specific enclosures for the driver if required.

Q_{ES}	0.83
Q_{MS}	8
Q_{TS}	0.75
F_S	130 Hz
V_{AS}	5.72 L
M_{MS}	6.95 g
C_{MS}	0.21 mm/N
R_{MS}	0.714 Ns/m
R_E	3.2 Ω
B_L	4.69 T.m
L_E	0.29 mH
S_D	0.0139 m²
X_{MAX}	2 mm (one way)
Sensitivity	93.9 @ 1 W / 1 m 98 @ 2.83 V / 1 m

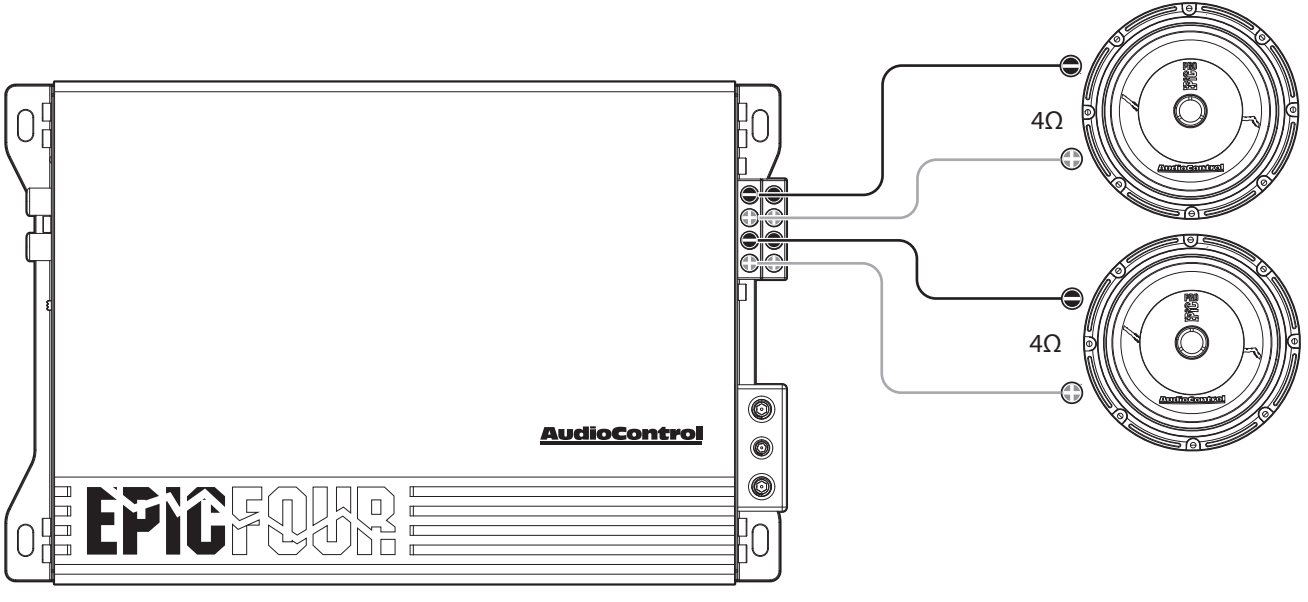
Frequency Response Graph

The frequency response graph below details the bandwidth in which the **EPICPRO6HCX** operates. This graph will help you determine the crossover settings for your coaxial drivers on your amplifier, as well as their integration with additional subwoofers in your system.



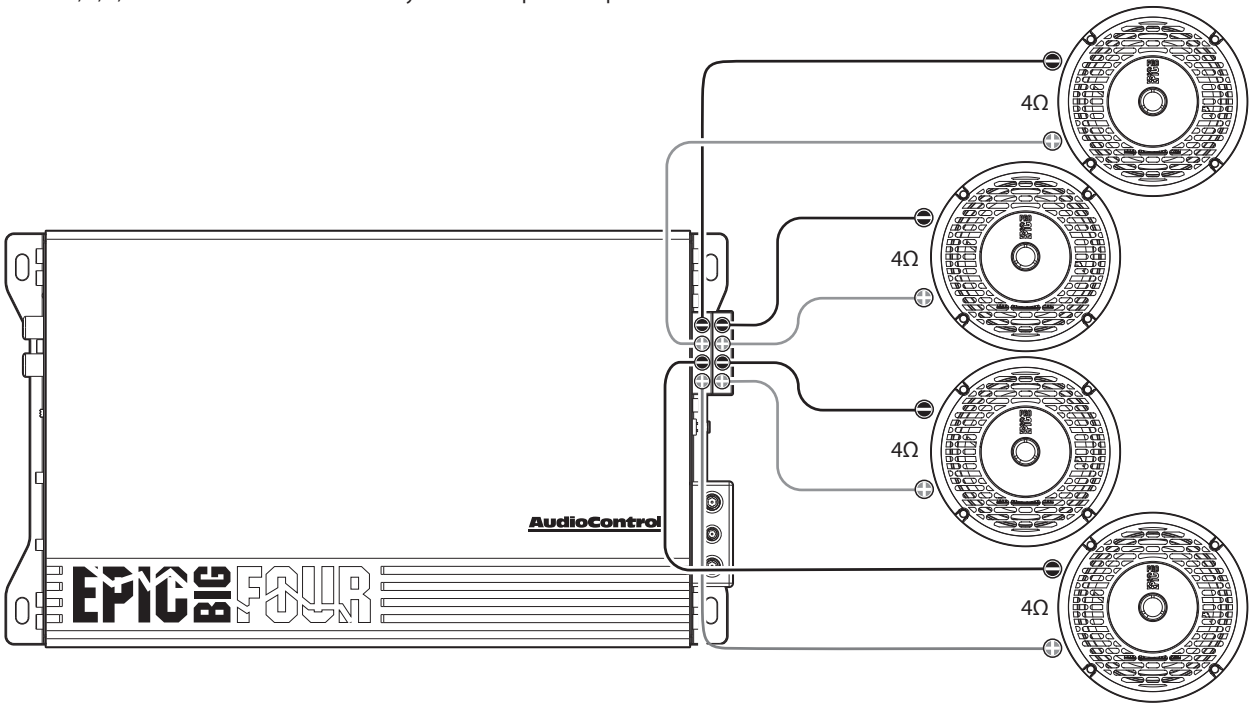
2-Speaker Installation: 4Ω Bridged

In this example, we are connecting two **EPICPRO6HCX** 4Ω speakers to the **EPICFOUR** 4-channel amplifier.
Channels 1+2 to the EPIC midrange speakers, leaving channels 3-4 spare for and EPIC subwoofers or a pair of EPIC Pro tweeters..



4-Speaker Installation: 4Ω

In this example, we are connecting four **EPICPRO6HCX** 4Ω speakers to the **EPICBIGFOUR** 4-channel amplifier.
Channels 1, 2, 3, and 4 are connected individually to the EPIC proaxial speakers.

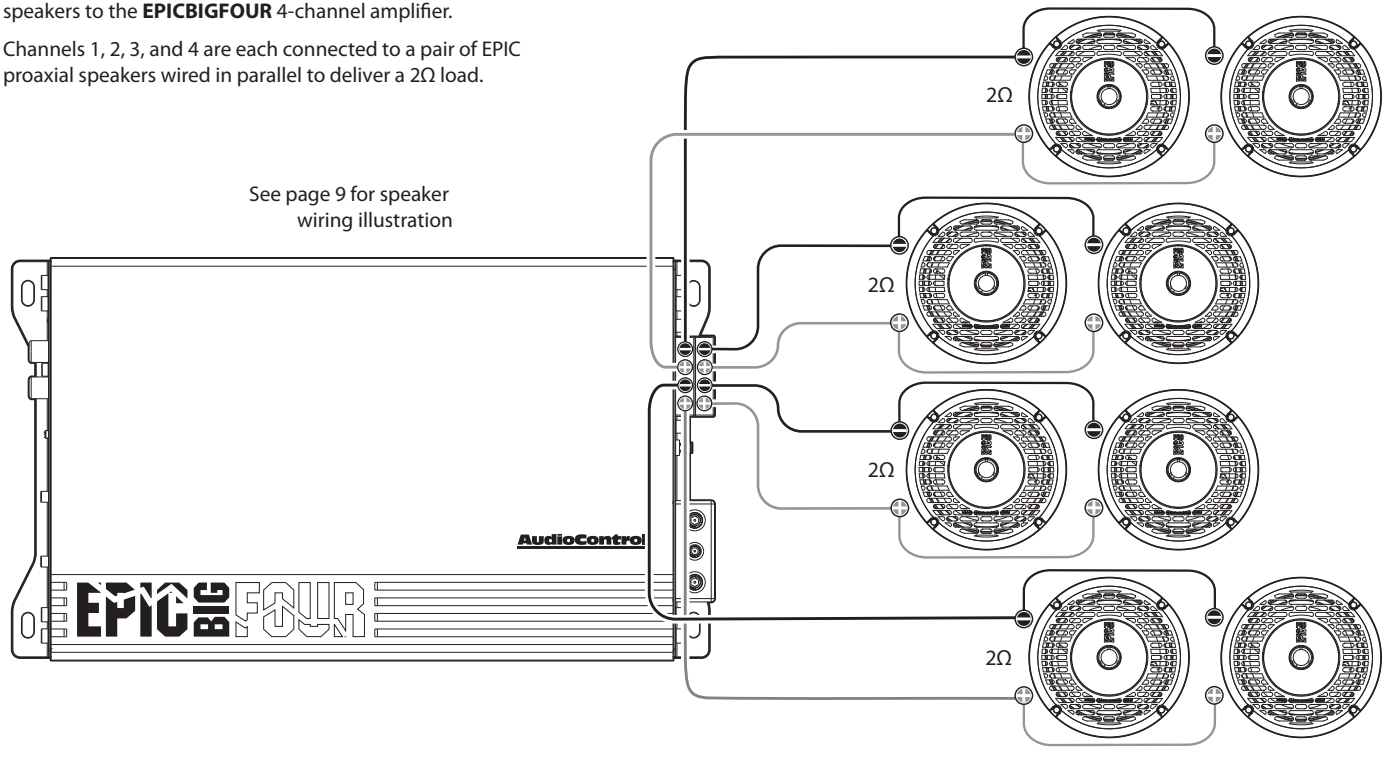


8-Speaker installation: 2Ω

In this example, we are connecting eight **EPICPRO6HCX** 4Ω speakers to the **EPICBIGFOUR** 4-channel amplifier.

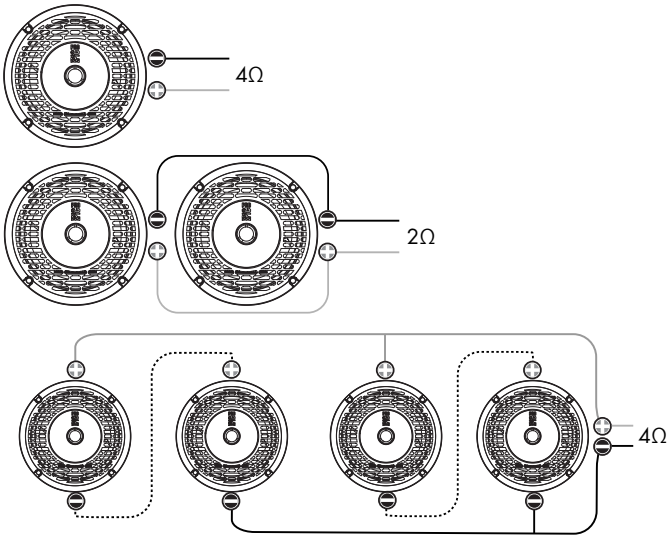
Channels 1, 2, 3, and 4 are each connected to a pair of EPIC proaxial speakers wired in parallel to deliver a 2Ω load.

See page 9 for speaker wiring illustration



Speaker Wiring Configurations

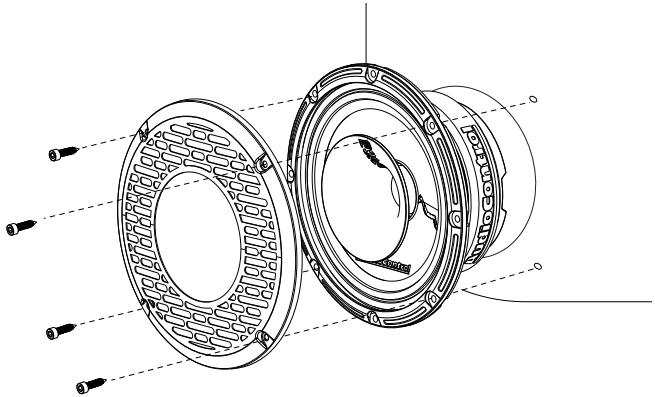
The illustrations below show how to configure your **EPICPRO6HCX** pro audio speakers for different impedance levels, ensuring optimal installation within your system.



- Large speaker terminal = positive (+).
- Small speaker terminal = negative (-).

Horn Proaxial Installation

- First, determine where the speaker will be mounted. Next, make sure the area has a flat surface for the speaker to mount.
- Check the mounting depth of the desired location (see page 4 for mounting dimensions.)
- If the speaker will be mounted in a door, roll the windows up/down and lock/unlock the doors making sure there are no obstructions that the speaker will hit.
- Using the cut-out template, mark the location for the speaker to be mounted.
- With the tool of your choice, cut out the marked hole.
- After the speaker has been wired, place the speaker into the hole. Use supplied mounting hardware to keep the speaker in place.
- Sit back and enjoy.



The Warranty

In just the same way as walking into a room and seeing a big hairy spider on the wall, people are scared of warranties. Lots of fine print. Months of waiting around. Well, fear no more. This warranty is designed to make you rave about AudioControl. It's a warranty that looks out for you and your client, plus helps you resist the temptation to have your friend Sparky, who's "good with electronics," try to repair your AudioControl product. So go ahead, read this warranty, then register the information at www.audiocontrol.com/product-registration and include your comments.

Our warranty has conditional conditions! "Conditional" doesn't mean anything ominous. The Federal Trade Commission tells all manufacturers to use the term to indicate that certain conditions have to be met before they'll honor the warranty. If you meet all of these conditions, AudioControl will, at its discretion, repair or replace any AudioControl speaker products that exhibit defects in materials and/or workmanship for one (1) year from the date you bought it. We will repair or replace it, at our option, during that time.

Here are the conditional conditions:

1. You must fully register your purchase within 15 days of the purchase date by going to the AudioControl product registration page at:

   www.audiocontrol.com/product-registration

   Failure to register your product will negate the warranty.
2. You need to hold on to your sales receipt! All warranty service requires original sales receipt documentation. The warranty only applies to the original purchaser from an authorized AudioControl dealer. Note: Products purchased from unauthorized dealers are not covered under warranty.
3. The AudioControl speaker products must have originally been purchased from an authorized AudioControl dealer.
4. Our warranty covers AudioControl products that have been installed according to the instructions in this manual.
5. You cannot let anyone who isn't: (A) the AudioControl factory; or (B) someone authorized in writing by AudioControl, service your AudioControl product. If anyone other than (A), or (B) messes with your AudioControl product, the warranty is void.
6. The warranty is void if the serial number is altered, defaced or removed, or if your product has been used improperly. Now that may sound like a big loophole, but here is what we mean by this: Unwarranted abuse is: (A) physical damage (don't use your product to pound in fence posts); (B) improper connections (120 volts into the speaker terminals can fry the poor thing). This is the best product we know how to build, but for example, if you mount it to the front bumper of your car, drop it over Niagara Falls, or use it for anchoring your boat, something will go wrong.

Assuming you conform to 1 through 6, and it really isn't all that hard to do, we get the option of fixing your product, or replacing it with a new one, at our discretion.

In the event that your product is out of warranty or not covered under our warranty, you may request to have any damage repaired at our normal "Out of Warranty" repair cost.

Legalese

The warranty above is the only warranty issued by AudioControl. This warranty gives you specific legal rights, and you may also have rights that vary from state to state.

Promises of how well your AudioControl product will work are not implied by this warranty. Other than what we've said we'll do in this warranty, we have no obligation, express or implied. We make no warranty of merchantability or fitness for any particular purpose. Also neither we nor anyone else who has been involved in the development or manufacture of the unit will have any liability of any incidental, consequential, special or punitive damages, including but not limited to any lost profits or damage to other parts of your system by hooking up to the unit (whether the claim is one for breach of warranty, negligence of other tort, or any other kind of claim). Some states do not allow limitations of consequential damages.

For more information about this fine product, and for additional details of the limited warranty and repair services, please visit **www.audiocontrol.com**

For technical questions, please visit **www.audiocontrol.com/knowledge-base/**

AudioControl – "a Stinger Company"
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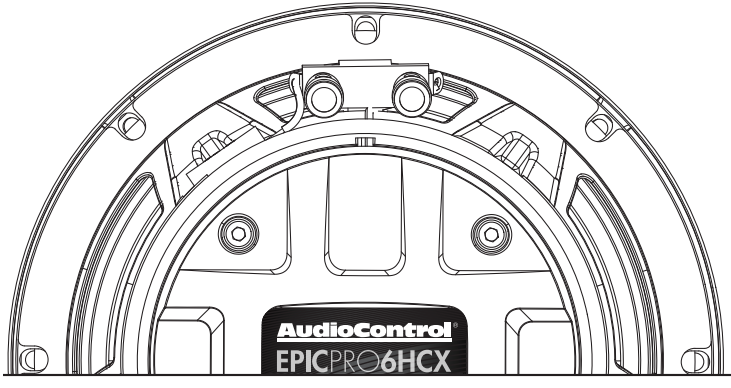
Support:

Phone: 425-777-7723

Email: support@audiocontrolmobile.com

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As technology advances, AudioControl reserves the right to continuously change our specifications, like our Pacific Northwest weather, although we are working on changing that as well.


AudioControl
EPICPRO6HCX