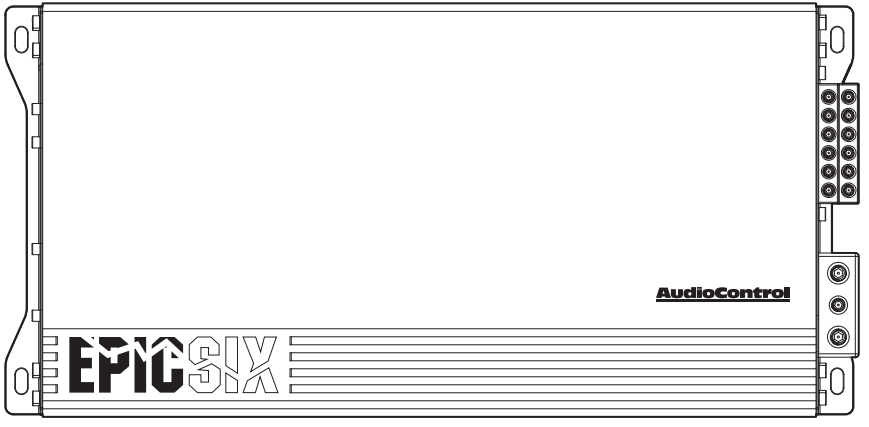
AudioControl®

Making Good Sound Great™



Features

- Compact High-Power Class D Amplifier
- High-Current Design - 2 ohms Stable
- 6 x 100 Watts @ 4 ohms
- 6 x 200 Watts @ 2 ohms
- 2 x 400 Watts @ 4 ohms Bridged (Ch. 3/4 and 5/6)
- Smart Auto-Reset Protection Circuit
- Serious power. Questionable self-control.

EPICSIX

SIX CHANNEL AMPLIFIER

Quick Start Guide

Important Safety Instructions

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 a 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 mufflers, silencers, exhaust pipes, or other apparatus (including amplifiers) that produce heat.
9. **WARNING:** Improper installation may lead to permanent injury or death. Installation of the apparatus 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.
10. Provide +12V and Ground wiring of sufficient size to ensure adequate current to the amplifier.
11. Use rubber grommets to protect wiring whenever passing wires through metal openings or bulkheads.
12. Only use attachments/accessories specified by the manufacturer.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power input terminals are damaged or objects have fallen into the apparatus, does not operate normally, or has been dropped.
14. Fuses shall be replaced only with the correct type and fuse value, and only when the apparatus is powered off.
15. Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: to reduce the risk of electric shock, do not disassemble the apparatus.There are no user-serviceable parts inside. Refer servicing to qualified personnel.

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 apparatii. 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.

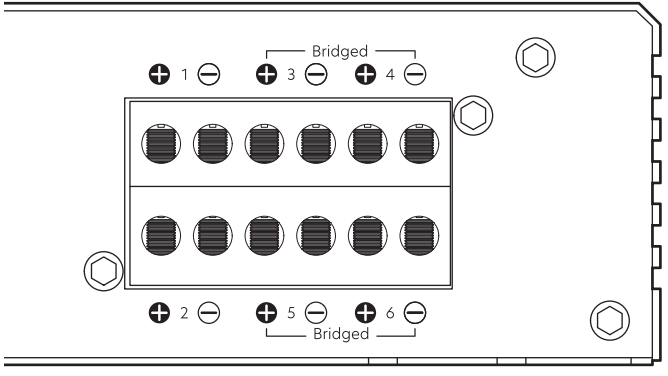
Quick Start

Here are a few general steps to get your EPICSIX six channel amplifier up and running:

1. Undo the +12V and Ground connections to the vehicle battery before making any connections to the amplifier.
2. Pick a mounting location that will provide access to the controls and connections, provide plenty of good ventilation, and protect the amplifier from heat, moisture, and dirt. Make sure the heat sink fins are not covered.
3. The EPICSIX six channel amplifier needs to be securely mounted using the four mounting holes located in each corner.
4. ⚠ Before drilling any holes, take every precaution to prevent any damage to fuel lines, power and other electrical wiring, hydraulic brake lines, and other systems that might compromise vehicle safety.
5. When making connections, designate red RCA plugs as right, and designate white, black, or gray plugs as left. This is a good idea for consistency.
6. Use quality interconnect cables.
7. ⚠ Always connect the Ground terminal first before connecting the 12V power wire to the amp. **NEVER REMOVE THE GROUND WIRE** from the amp while the 12V wire is connected. Not following these instructions could result in damaging the amp and this would not be covered under warranty.
8. Connect the Ground terminal of the amplifier to a clean, solid ground in the vehicle, i.e. sheet metal. Use the shortest length possible of quality insulated wire of the recommended wire gauge (see specifications). Grind away any paint or coatings to ensure a clean, metal to metal contact. Use a sheet metal screw with a serrated flange, or a bolt and star washer.
9. Connect the +12V terminal of the amplifier to the +12V terminal of the vehicle battery. Use the same gauge wire used for the Ground wire.

   ⚠ This wire must be fused close to the battery with an in-line fuse. See specifications for the recommended fuse rating.
10. Connect the remote power terminal of the amplifier to the remote turn-on output of your source unit.
11. Connect your source or line output converter (LOC) outputs to the amplifier.
12. Connect your loudspeakers (minimum impedance of 2 ohms or 4 ohms bridged).
13. Set the crossovers to the frequency recommended by the loudspeaker manufacturer.
14. When all connections are made, reconnect the vehicle battery.
15. Adjust your gain settings to maximize your signal level.
16. Enjoy the drive!

Speaker Output Connections



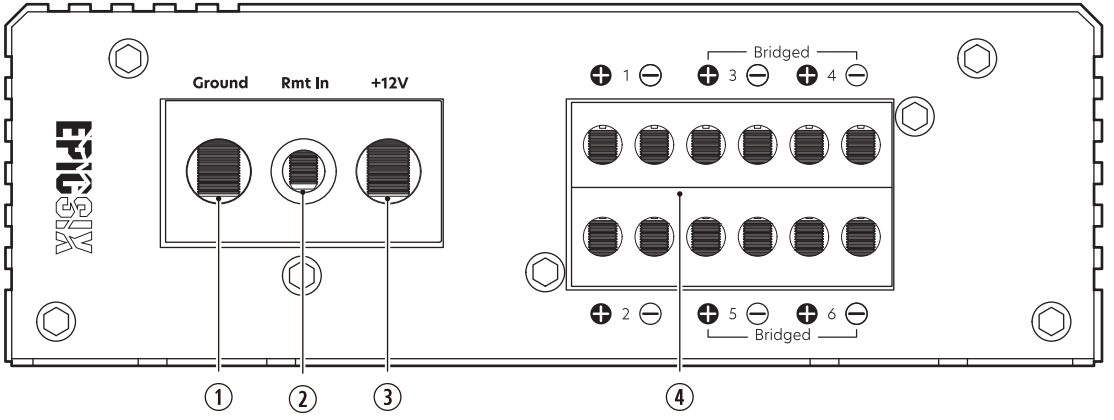
The EPICSIX features six speaker output channels arranged in two horizontal rows.

Channel 1 is located on the far left of the top row, with **Channel 2** directly below it on the bottom row, forming a vertical ***(up-and-down)*** pair. These channels are intended for speakers requiring a high-pass filter only, such as coax, and ***cannot be bridged.***

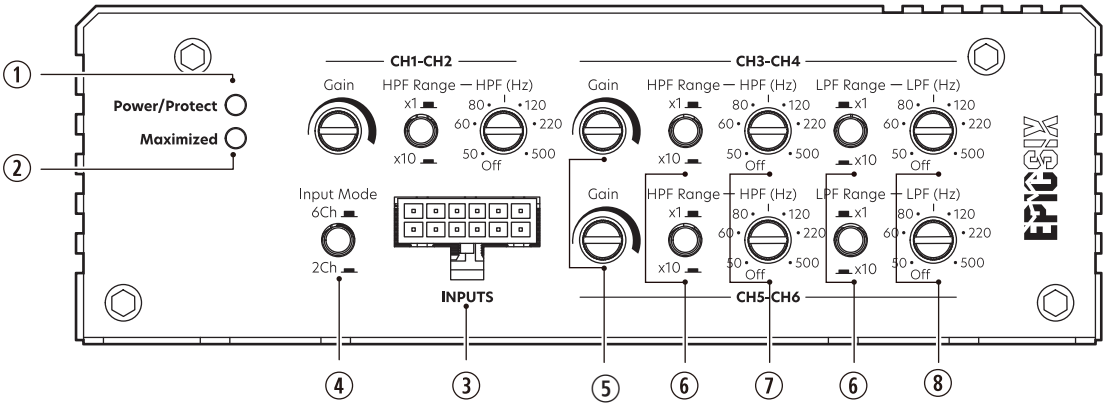
To the right, **Channels 3 and 4** are positioned side by side on the top row in a left-to-right orientation and ***may be bridged together.*** **Channels 5 and 6** are positioned side by side on the bottom row in a ***left-to-right*** orientation and ***may also be bridged together.***

Warning: Incorrect connection of speakers to the amplifier's speaker outputs may result in poor audio performance and/or damage to the speakers. Ensure that each speaker is connected to the correct channel, that ***non-bridgeable channels*** are not bridged, and that all wiring follows the specified channel configuration before powering on the system.

Connections & Control Panel Features



1. **Ground Terminal** – This screw terminal connects to a clean, solid ground in the vehicle. Use the shortest length possible of quality insulated wire of the recommended wire gauge (see specifications).
2. **Remote Power Input Wire** – This wire connects to the 12V remote trigger output of some head units and controls the on/off state of the amplifier.
3. **Power Input Terminal +12V** – This screw terminal connects to the +12V binding post of the vehicle battery. Use quality insulated wire of the same gauge used for the Ground connection.
4. **Speaker Output** – Connect these speaker terminals to your speakers using quality insulated wiring of the recommended wire gauge (see specifications). Make sure the speaker impedance does not dip below 2 ohms, or 4 ohms in bridged mono mode.



1. **Power/Protect LED** – When the unit has been powered on, this LED will glow a soothing **blue**, a color rarely seen in our Northwest skies.

   If this LED illuminates **red**, the amp is not blushing; this signifies the amp is in protection mode and something is wrong. EPIC Series amplifiers feature a **Smart Auto-Reset Protection** circuit. If cycling the power to the amplifier does not take the amp out of protection, try disconnecting the speaker wires and cycle power. If the amp is no longer in protection, check the speakers and wires for shorting. If the LED stays on with the speaker wires disconnected then contact AudioControl technical support for further instruction.

2. **Maximized LED** – This LED indicates when the amplifier inputs have been optimized for maximum performance. This LED should illuminate momentarily during brief bursts of music playback at max volume. In most scenarios, it should not be constantly illuminated for long periods of time.

3. **RCA Inputs** – Connect the line level outputs from your source or line output converter (LOC) to these inputs.

4. **Input Mode** – When connecting three pairs (six channels) of input signals, disengage this button to 6Ch. When only one pair of input signals is available, engage this button to the 2Ch position and connect the RCA pair to CH1/CH2. The EPICSIX will route the signals from CH1/CH2 to all six channels.

5. **Gain Control -** Use this dial to match the source unit's output voltage with the inputs of the amplifier. Remember, this is NOT a volume knob. With the source unit set to 75%, adjust this knob to the point where the maximized light shines briefly. This will be your optimal gain setting.

6. **HPF/LPF Range** - The range button allows you to multiply the setting of the high pass or low pass filter by x10 when the button is pressed. For example, if you are looking to set your high pass filter to 4 kHz, you would turn the HPF dial to 400 Hz and press the range button in.

7. **High Pass Filter (HPF) -** Blocks low bass and lets higher frequency sounds through. It's used to protect small speakers like tweeters and mids from distortion or damage caused by low frequencies. Use the HPF dial to set the cutoff point.

   Press the **Range button** to switch from 50–500 Hz (x1) to 500–5,000 Hz (x10).

   Example: To block below 3,000 Hz, set the dial to "300" and press the Range button.

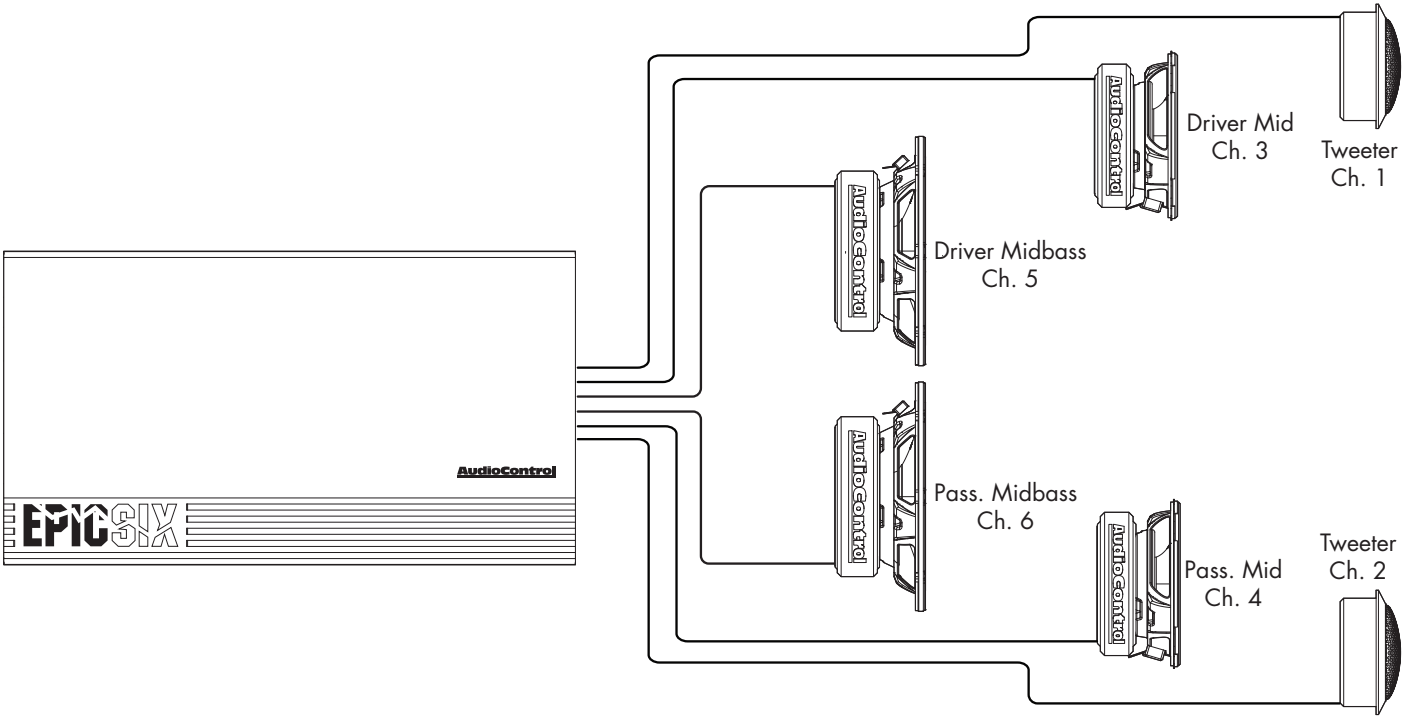
   Start around ***3,000–5,000 Hz*** for tweeters, or ***300–400 Hz*** for mids, and ***80–400 Hz*** for midbass depending on size. Too low and your sound gets muddy; too high and you lose detail.

8. **Low Pass Filter (LPF) -** Does the opposite—it blocks highs and lets bass through. It keeps subwoofers or midbass drivers from playing harsh upper frequencies and helps them blend into the next speaker. Set the LPF dial to choose the cutoff point, and use the **Range button** to switch to the 500–5,000 Hz range when needed.

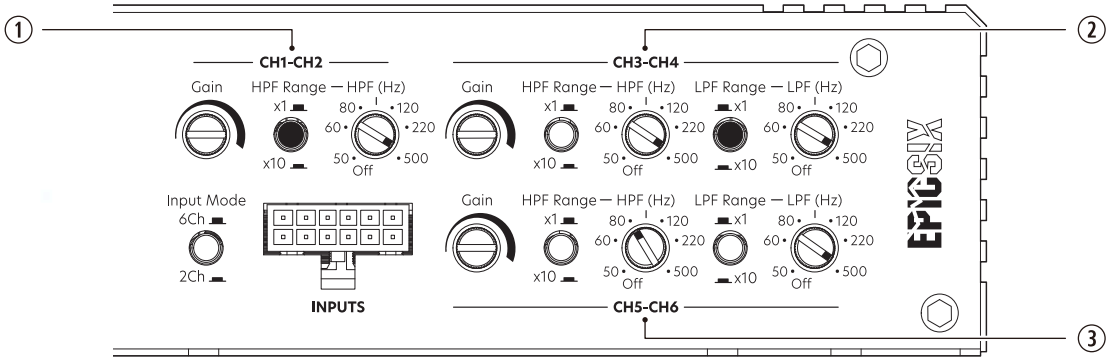
   Example: To block above 3,000 Hz, set the dial to "300" and press the Range button.

   Use ***60–100 Hz*** for subs, and ***3,000–5,000 Hz*** for mids crossing into tweeters. If it's set too high, things get harsh; too low, and you lose punch.

Audio Connections: Active 3-Way Diagram



Active 3-Way Tuning

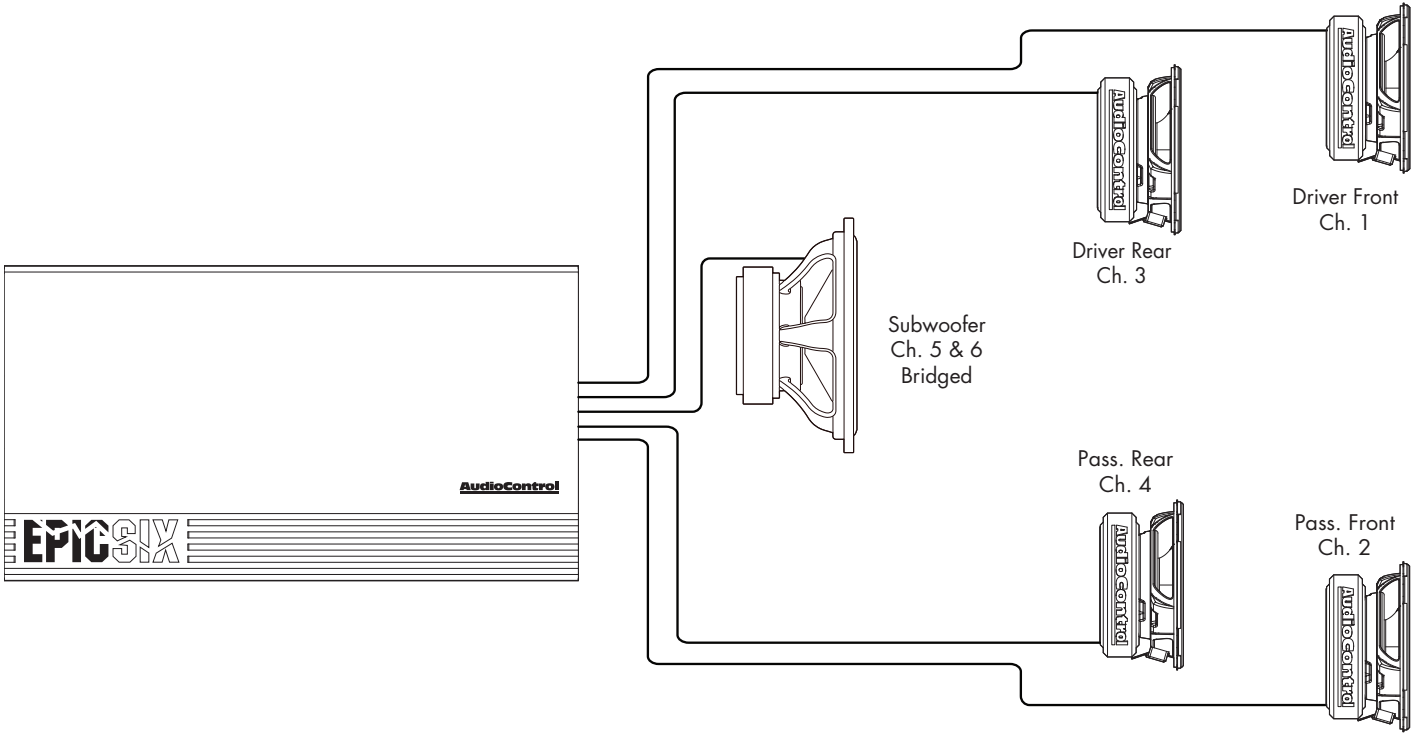


This amplifier is configured to operate a fully active 3-way front speaker system consisting of tweeters, midrange speakers, and midbass speakers.

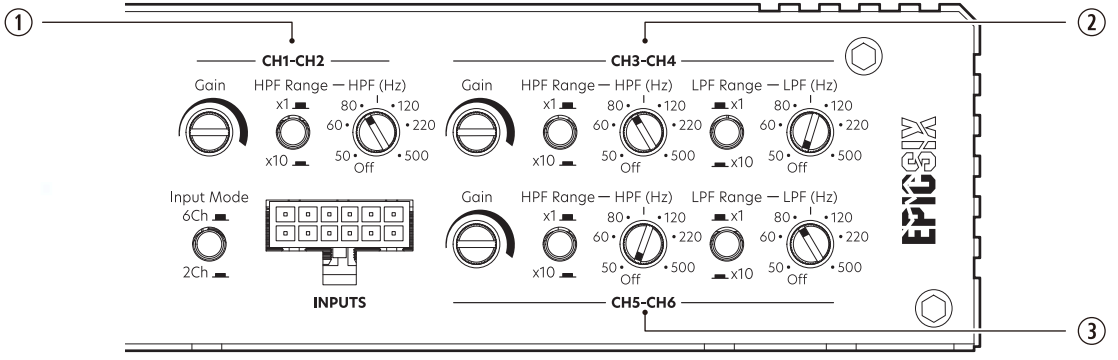
1. **Channels 1 & 2 (Tweeters) –** These channels are dedicated to the tweeters. Set the High-Pass Filter (HPF) to 4 kHz by setting the HPF dial to 400 Hz and engaging the HPF Range button.
2. **Channels 3 & 4 (Midrange) –** These channels are dedicated to the midrange speakers. Set the amplifier to Band-Pass operation from 400 Hz to 4 kHz by setting the HPF dial to 400 Hz, then setting the LPF dial to 400 Hz and engaging the LPF Range button.
3. **Channels 5 & 6 (Midbass) –** These channels are dedicated to the midbass speakers. Set the amplifier to Band-Pass operation from 80 Hz to 400 Hz by setting the HPF dial to 80 Hz and the LPF dial to 400 Hz.

This crossover configuration ensures proper frequency distribution, improved sound clarity, and reliable speaker protection in a 3-way active system. Final crossover points and gain settings may be fine-tuned based on speaker specifications and vehicle acoustics.

Audio Connections: 5-Channel Diagram



5-Channel Tuning



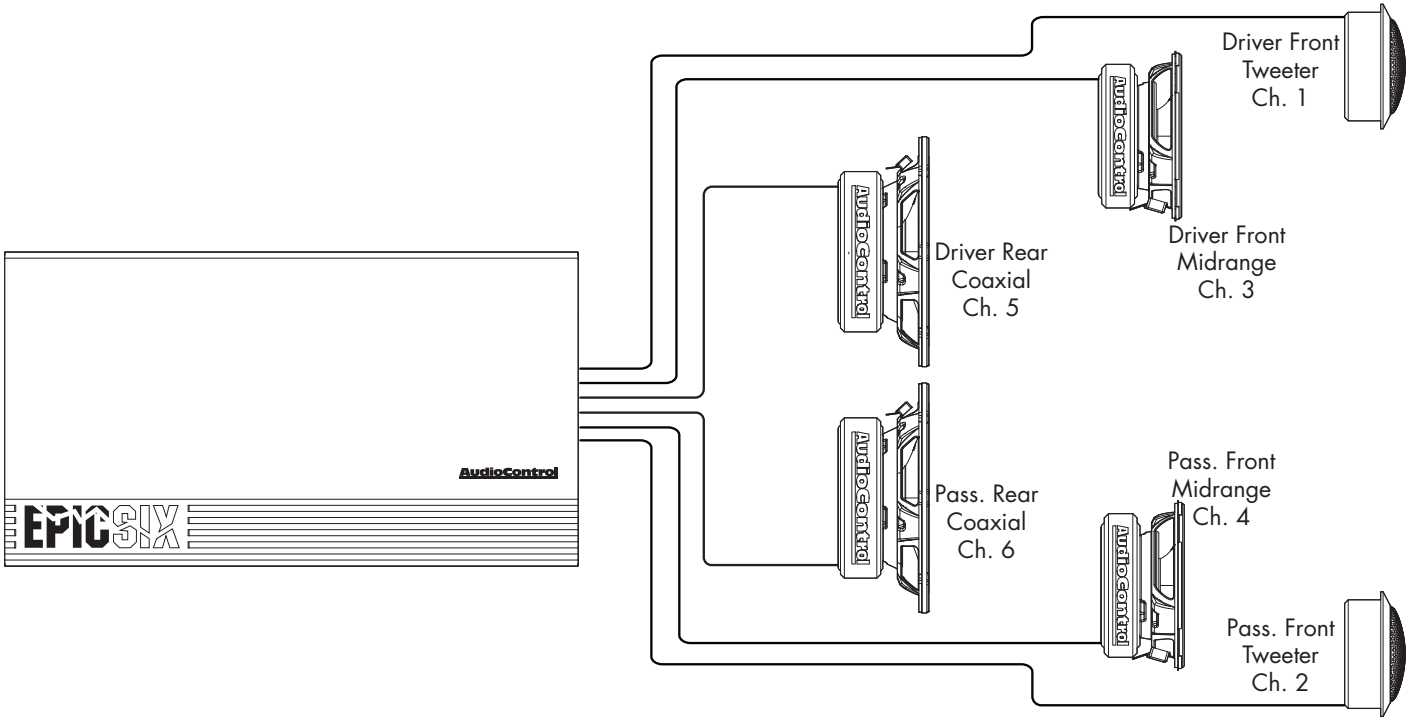
This amplifier is configured for a 5-channel speaker system with front and rear speakers, plus a dedicated subwoofer.

1. **Channels 1 & 2 (Front) –** These channels are dedicated to the front speakers. Set the High-Pass Filter (HPF) to 80 Hz by adjusting the HPF dial to 80 Hz.
2. **Channels 3 & 4 (Rear) –** These channels are dedicated to the rear speakers. Set the High-Pass Filter (HPF) to 80 Hz by adjusting the HPF dial to 80 Hz and set the Low-Pass Filter (LPF) to Off.

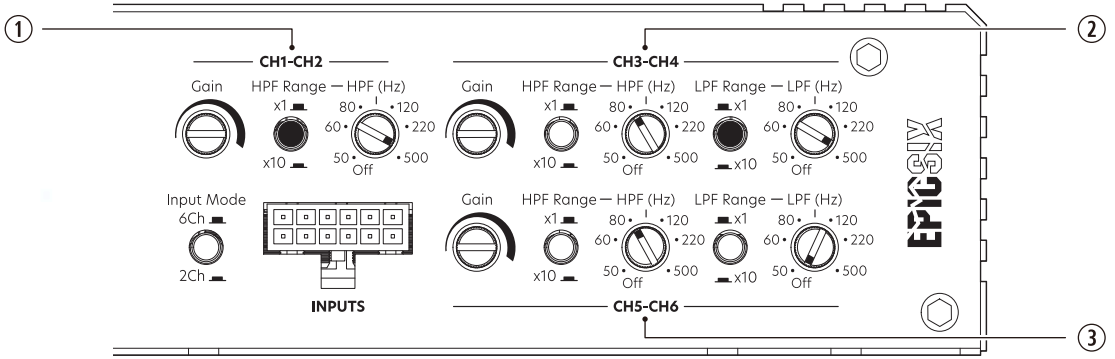
Channels 5 & 6 (Subwoofer) – These channels are dedicated to the subwoofer. The subwoofer must be wired to a 4-ohm load and connected by bridging Channels 5 and 6. Set the Low-Pass Filter (LPF) to 80 Hz by adjusting the LPF dial to 80 Hz.

This crossover configuration ensures proper frequency distribution, improved sound clarity, and reliable speaker protection in a 5-Channel system. Final crossover points and gain settings may be fine-tuned based on speaker specifications and vehicle acoustics.

Audio Connections: Active 6-Channel Diagram



Active 6-Channel Tuning



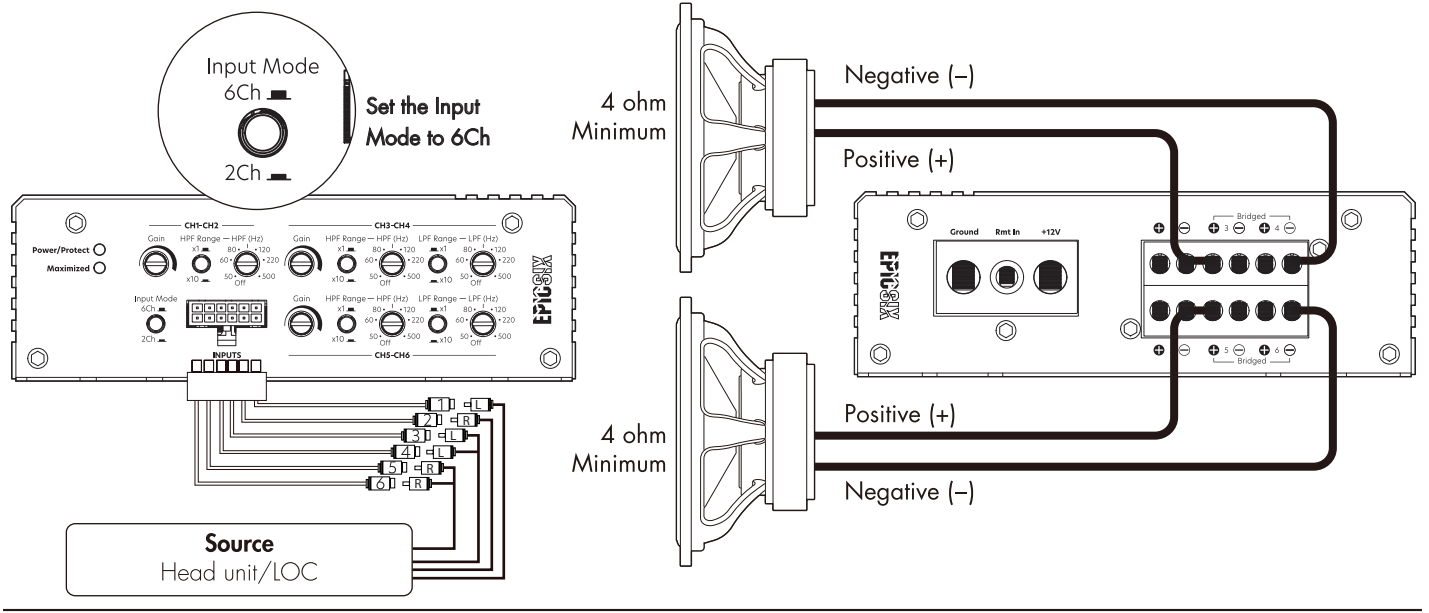
This amplifier is configured to operate a fully active front speaker system with two-way components (tweeters and midrange) in the front and coaxial speakers in the rear.

1. **Channels 1 & 2 (Tweeters) –** These channels are dedicated to the tweeters. Set the High-Pass Filter (HPF) to 4 kHz by setting the HPF dial to 400 Hz and engaging the HPF Range button. This is an active configuration and does not require a passive tweeter crossover.
2. **Channels 3 & 4 (6.5 Midrange) –** These channels are dedicated to the midrange speakers. Set the amplifier to Band-Pass operation from 80 Hz to 4 kHz by setting the HPF dial to 80 Hz, then setting the LPF dial to 400 Hz and engaging the LPF Range button.
3. **Channels 5 & 6 (6.5 Coaxial) –** These channels are dedicated to the rear coaxial speakers. Set the amplifier's HPF dial to 80 Hz, then setting the LPF dial to off.

This crossover configuration ensures proper frequency distribution, improved sound clarity, and reliable speaker protection in a 6-Channel active system. Final crossover points and gain settings may be fine-tuned based on speaker specifications and vehicle acoustics.

Bridging Outputs

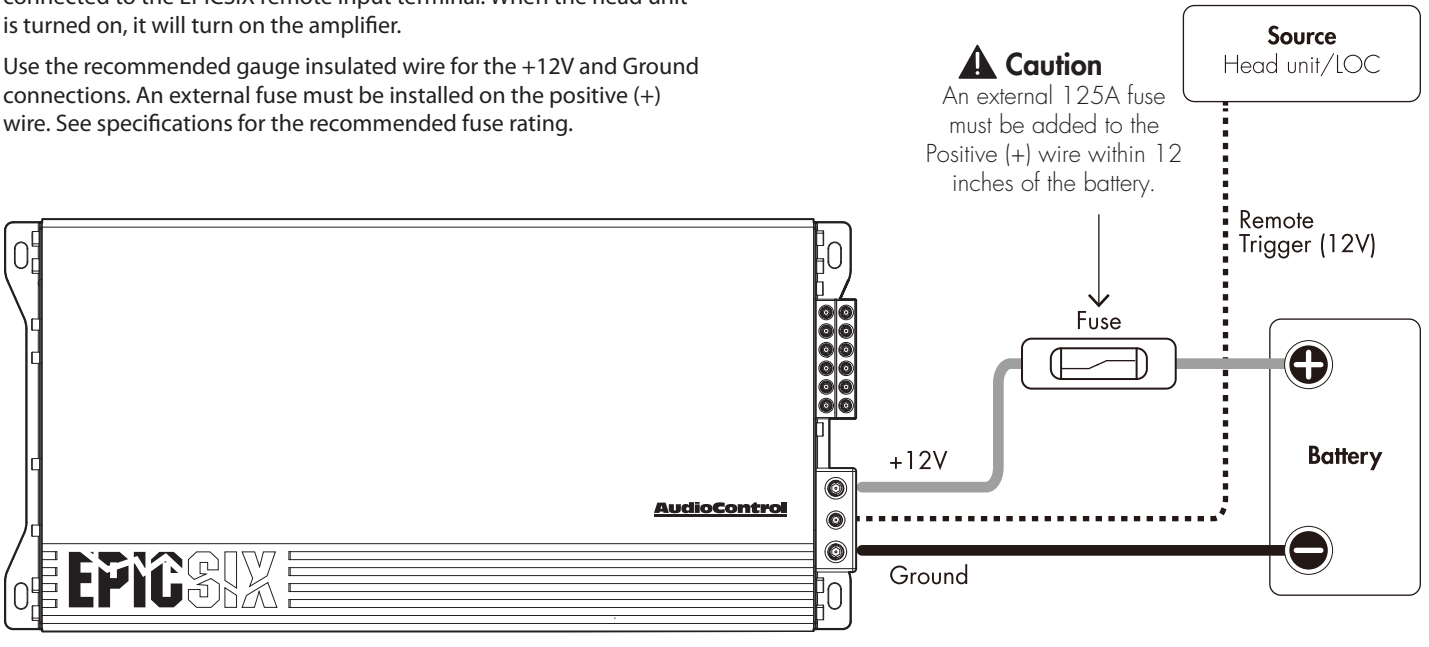
We said you weren't ready for this. AudioControl's EPICSIX is a true 6-channel amplifier delivering a conservative 400 watts RMS per channel at 4 ohms when bridged. Set Input Mode to 6 Ch. Connect the left source to CH3/CH4 and the right source to CH5/CH6 using Y-splitters. For the left speaker, use the positive (+) output of Channel 3 and the negative (–) output of Channel 4. For the right speaker, use the positive (+) output of Channel 5 and the negative (–) output of Channel 6. ***Channels 1 and 2 cannot be bridged.*** Channels 3–6 include high-pass and low-pass filters. Use the CH3/CH4 controls for the left speaker and CH5/CH6 controls for the right speaker, then match gains and crossovers to your system layout. Yup, things just got **EPIC!**



Power Connections

In this example, the source has a +12V trigger output that is connected to the EPICSIX remote input terminal. When the head unit is turned on, it will turn on the amplifier.

Use the recommended gauge insulated wire for the +12V and Ground connections. An external fuse must be installed on the positive (+) wire. See specifications for the recommended fuse rating.



Why is this manual taking so long?
Its not like it is going to win manual of the year - Kevin (The Boss)

EPICSIX Specifications

All specifications are measured at 14.4 VDC (standard automotive voltage). 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.

Amplifier Topology ..... Class D
Power Output RMS (14.4V, <1% THD) ..... 6 x 100 Watts @ 4 ohms
..... 6 x 200 Watts @ 2 ohms
..... 2 x 400 Watts @ 4 ohms Bridged
Frequency Response (+/- 3 dB) ..... 10 Hz - 22 kHz
S/N Ratio ..... -98 dBa, Ref 100 Watts @ 4 ohms
Power / Ground Wire Gauge ..... 4 AWG
Recommended Fuse Rating ..... 125 Amps
High Pass Filter ..... 12dB/octave Linkwitz-Riley, Off, 50 Hz to 5000 Hz
Low Pass Filter ..... 12dB/octave Linkwitz-Riley, Off, 50 Hz to 5000 Hz
Line-level Inputs ..... 500mV - 12V RMS
Speaker Terminal Wire Gauge ..... 10 AWG
Chassis Dimensions (LxWxH) ..... 12.56 in. x 6.1 in. x 2.01 in.
..... 319 mm x 155 mm x 51 mm
..... Dimensions do not include connectors

What's in the box: EPICSIX six channel amplifier, wrench, screws, manual

Warranty

A Few Words About Warranties

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 us to your friends. It's a warranty that looks out for you and helps you resist the temptation to have your friend, "…who's good with electronics," try to repair your AudioControl product. So go ahead, read this warranty, then take a few days to enjoy your new AudioControl amplifier before registering at http://audiocontrol.com/product-registration/.

"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, we will warranty all materials and workmanship on your AudioControl product for one year from the date you bought it from a Factory Direct authorized AudioControl retailer (five years if it is installed by a Factory Direct authorized AudioControl retailer). We will fix or replace it, at our option, during that time.

Products purchased from unauthorized resellers (including third-party sellers on marketplaces such as Amazon, eBay, or Best Buy) are not covered under AudioControl's warranty. To ensure full warranty coverage, products must be purchased directly from AudioControl/Stinger or from an authorized dealer.

EPIC Series Amplifiers Warranty

One (1) year from the original date of purchase

*Note: AudioControl/Stinger reserves the right to repair or replace returned items in lieu of credit.

Here Are The Conditional Conditions

1. You have to go online and register your AudioControl products.
2. You must keep your sales receipt for proof of purchase showing when and from whom the unit was bought. We're not the only ones who require this, so it's a good habit to get into with any major purchase.
3. Your AudioControl products must have originally been purchased from a Factory Direct authorized AudioControl retailer. You do not have to be the original owner, but you do need a copy of the original sales slip.
4. You cannot let anybody who isn't: **(A)** the AudioControl factory; **(B)** somebody authorized in writing by AudioControl to service your product. If anyone other than **(A)** or **(B)** messes with your AudioControl product, that voids your warranty.
5. The warranty is also void if the serial number is altered or removed, or if your AudioControl component has been used improperly. Now that sounds like a big loophole, but here is all we mean by it. Unwarranted abuse is:
   (A) physical damage (don't use it to level your RV);
   (B) improper connections (120 volts AC into a 12 volt DC power jack can fry the poor thing);
   (C) sadistic things (your imagination is best kept private)… This is the best product we know how to build, but if you mount it to the front bumper of your car or use it as a counter-weight for your daughter's trebuchet project, something will go wrong.
6. Assuming you conform to 1 through 5, and it really isn't all that hard to do, we get the option of fixing your old unit or replacing it with a new one. To initiate a warranty claim, please contact AudioControl and we will issue an RA (Return Authorization) number and provide shipping instructions. Products received at AudioControl without an RA number will be refused.

Legalese Section

This is the only warranty given by AudioControl. This warranty gives you specific legal rights that vary from state to state. Promises of how well your AudioControl component will perform are not implied by this warranty. Other than what we have covered in this warranty, we have no obligation, express or implied. Also, we will not be obligated for direct or indirect consequential damage to your system caused by hooking up your AudioControl component.

See ya!

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

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As technology advances, AudioControl reserves the right to continuously change our specifications.