

e p i s o d e

engineered by  
**Snap**  
av

## OWNER'S MANUAL

>> **Multi-Channel, Class D,  
70 Watt Amplifier**

**EA-AMP-12D-70**

12 CHANNEL

**EA-AMP-8D-70**

8 CHANNEL

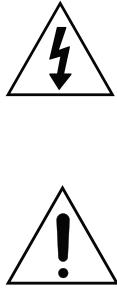


## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus in or near rain or moisture.

1. Read the following instructions carefully.
2. Keep manual for future reference.
3. Heed all warnings.
4. Follow all instructions in this manual.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install according to 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 override the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades - one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is 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 plug, convenience receptacles, and the point where it exits from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a 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 when the 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. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle.



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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## **WELCOME TO EPISODE®**

Episode® is one of the most highly-regarded brands of audio products available today. We appreciate your business, and we stand committed to providing our customers with the highest degree of quality and service in the industry.

These Episode® Amplifiers are built on the latest digital technology and deliver efficient, clean power to every room. Each model is designed to produce the subtle details of music, while having the flexibility to meet a variety of installations. For the best sound quality, use Episode® Speakers to complete the system.

## **FEATURES**

### **DURABLE AUDIOPHILE DESIGN**

These Episode Amplifiers use the latest digital technology to deliver cool-running performance from a compact, reliable package. Plus, they feature superior quality components for outstanding sound quality and are up to 90% more efficient than conventional analog designs.

### **MULTIPLE STAGES OF PROTECTION**

Each pair of channels (or Zone) is individually protected with an operation mode indicated by bi-color LEDs on the front of the amplifier. These enable simple troubleshooting. If the circuitry determines that a channel must be shut down for protection due to a short, only the channels that are affected will be turned off. The LEDs for zones with trouble will turn red. The other zones will continue to play and maintain blue status LEDs. Once conditions return to normal for the channels with trouble, the status LED color will return to blue.

### **GLOBAL AND DIRECT INPUTS**

A dedicated input can be assigned to each channel via the channel Line In connection. Each channel can also be configured to play common signals from the global input. When using the global connections, odd-numbered channels will receive the left channel, and the even-numbered channels will receive the right channel. This is further indicated by the color of the channel Line In jacks (odd numbers have white jacks and even numbers have red jacks). A two-position switch is available for each channel pair to choose between the line-in and the global-input. This provides unparalleled flexibility that is needed for today's demanding custom audio installations.

### **INDIVIDUAL CHANNEL AND GLOBAL LEVEL GAIN ADJUSTMENTS**

Each channel has its own level adjustment in addition to a global level which adjusts the maximum output to all channels. This allows the output of each speaker to be perfectly matched to its area. It can also serve to provide a limit on how loud each speaker may be allowed to play.

### **INSTALLATION-FRIENDLY CONNECTIONS**

Each speaker channel features a removable speaker wire connector that accommodates up to 14 gauge stranded speaker wire. The power cord is removable as well, facilitating fast and simple installations. The Global Input and Output, as well as individual Channel Inputs, are high-quality RCA connectors.

### **BRIDGING**

The power output of adjacent channels can be combined to provide extra power when needed in certain areas. This is easily accomplished by flipping a single switch. Maintain an 8 ohm minimum when using bridge mode.

### **RACK-MOUNTABLE**

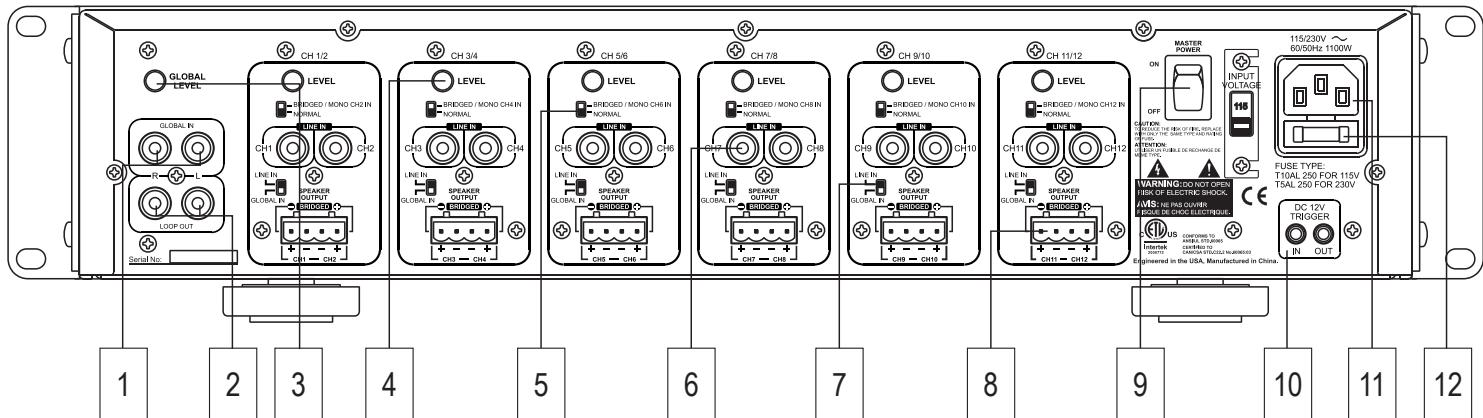
Each Episode amplifier includes an accessory package of rack 'ears' that may be attached to the amplifier by simply removing the four (4) side cover screws near the front of the amplifier, and re-installing them through the rack 'ear'. The amplifier feet can be easily removed for clean rack mounting. The amplifier chassis and rack ears are NOT designed to support anything other than the amplifier. DO NOT stack components on top of the amplifier, as it could damage the amplifier's chassis.

### **POWER MODE**

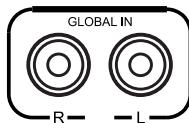
Power state can be toggled using the Power Button from the front of the unit. If the 'Trigger' jack is used, the amplifier will turn on when 12V power is applied to the 3.5mm jack (tip is positive).

Note: Front power button must be in standby mode (Red LED) for the 12 volt trigger to operate

## EA-AMP-12D-70

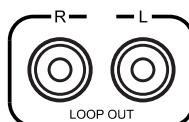


## REAR PANEL FEATURES (12D and 8D)



### 1. GLOBAL INPUT

Easily amplify outputs from any stereo source across any/all channels



### 2. LOOP OUT

Allow global inputs to be sent to other amplifiers



### 3. GLOBAL LEVEL

Master Gain control for the amplifier



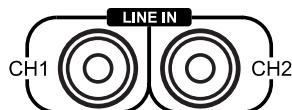
### 4. GAIN CONTROL

Allows independent gain for each pair of inputs



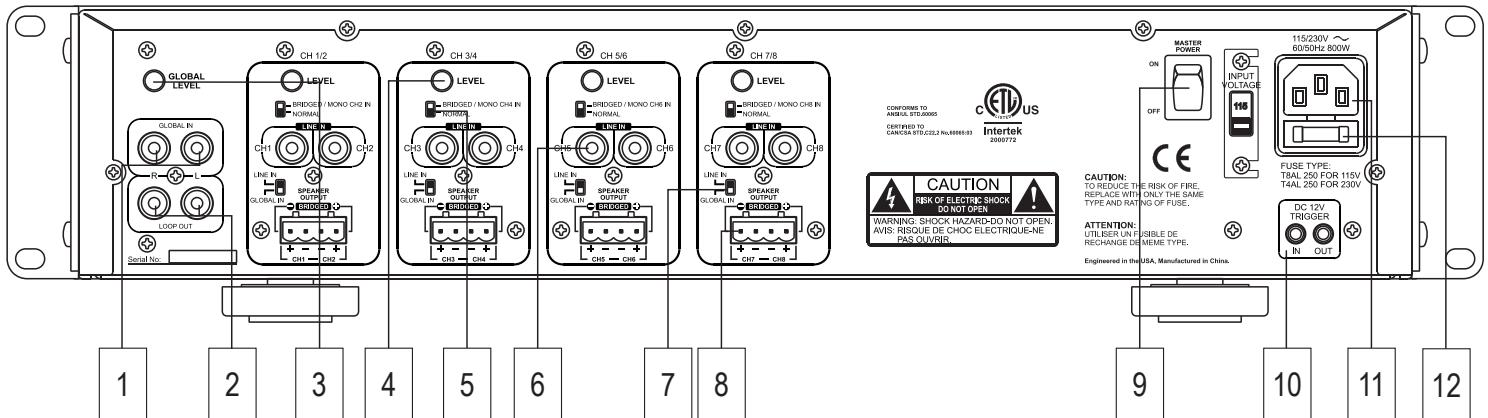
### 5. BRIDGED SWITCH

Easily couple two channels together for increased power  
NOTE: 8-ohm minimum when using bridge mode



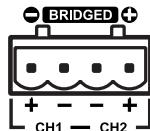
### 6. LINE INPUTS

Individual channel inputs for use with multi-channel preamps/ controllers



## 7. INPUT SWITCH

Choose between global inputs and individual inputs for each channel



## 8. SPEAKER OUTPUTS



## 9. MASTER POWER SWITCH

Disables power to the amplifier



## 10. 12V TRIGGER IN/OUT

Requires 12 Volt DC input for triggering the state of the amplifier

Note: Front power button must be in standby mode (Red LED) for the 12 volt trigger to operate



## 11. POWER CONNECTOR



## 12. FUSE LOCATION

## INSTALLATION – FIRST STEPS

### POSITIONING YOUR EPISODE AMPLIFIER

Episode amplifiers are designed to help deliver a great audio experience that makes your music come alive for years to come. However, where you place the amplifier can have a large effect on the performance that you receive, and the life of the unit. If you are not rack-mounting the amplifier, position it with all feet resting on a solid level surface. Be sure that the amplifier is in a well-ventilated area that provides adequate cooling. If your installation lacks good air flow (such as in solid door cabinets or wall-mounted racks), it may be necessary to create ventilation to allow outside air into the space.

### VENTILATION

Do not block the ventilation holes, or place anything directly on top of, next to, or under the amplifier. Do not place the amplifier on carpeting or any similar material. Do not install the amplifier near a source of heat, or in an extremely humid or wet location.

### INSTALLATION – GETTING CONNECTED

**CAUTION:** All connections and switching must be done with the amplifier's power switch positioned to 'Off'. Connect the power cord last to ensure that the amplifier is off during all of your connections and set up.

### INPUTS

For line level connections, use high-quality RCA cables that feature low impedance, shielding and high-quality connectors.

### SPEAKER OUTPUTS

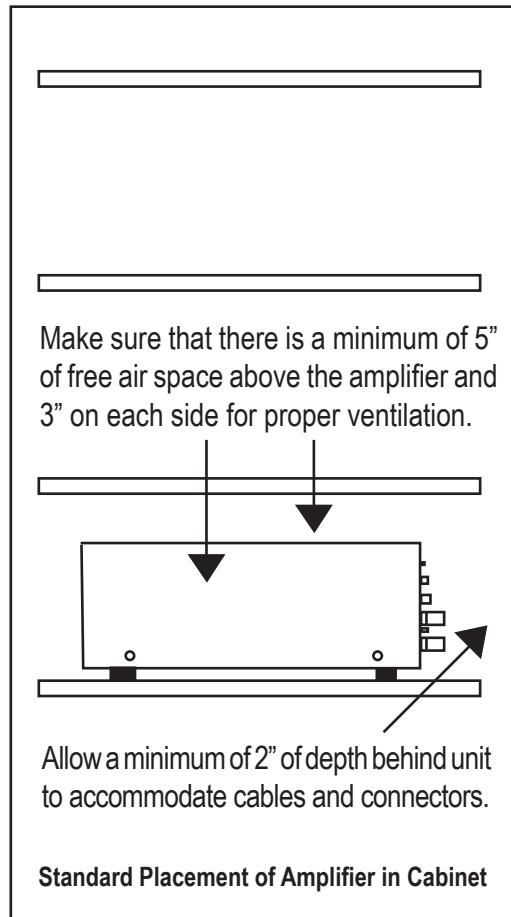
Use 14-18 gauge stranded two-conductor loudspeaker wire for all high level connections. At each loudspeaker-level connection, ensure that at least 2 inches of each conductor are separated. Strip away 1/4 inch of insulation from each conductor. Connect the appropriate conductor to each screw terminal, observing correct polarity.

If you connect your speakers out of phase, one speaker will be playing at the opposite 'time' as the other, which will result in sound that lacks bass and sounds 'warbly' or 'distant' with vocals. If you suspect the sound in a zone is not right and you cannot see any markings on the wire to verify that the polarity is correct, try this simple test:

- Sit between the loudspeakers.
- Play some music with your receiver set to Mono.
- Listen to the bass. Is it full or thin? Listen to volume of the bass as well.
- Turn off your receiver and reverse the connections for one of the speakers connected to your Episode amplifier.
- Repeat your test at the same volume level. When the sound has the loudest and best sounding bass and also sounds best in the vocal region, your connections are correct and in-phase.

### LOOP OUTPUTS

Any source connected to the Global Input can be sent to other components or amplifiers by connecting them to the Global Loop output connectors.



## INSTALLATION – SETUP AND OPTIONS

### INPUT SELECTION

**CAUTION:** Only change switch positions when the amplifier is turned off.

Each channel is capable of delivering the source from a dedicated Line-In or the Global-Input by changing the Line-In/ Global In switch.

### POWER CONNECTION

Plug the supplied power cord into the amplifier and to a polarized wall outlet or appropriate surge protector.

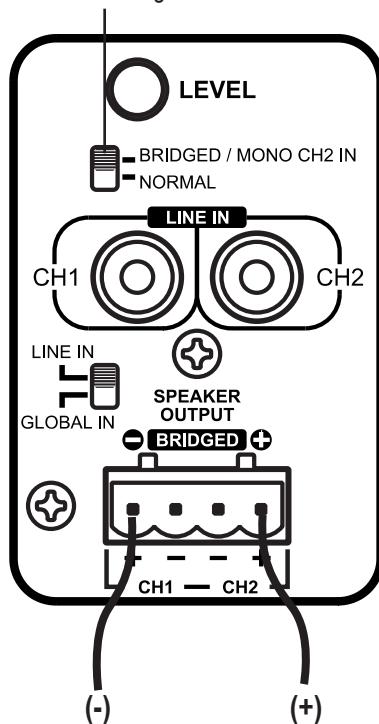
**CAUTION: DO NOT** plug the amplifier's power cord into a switched outlet, such as what is provided on some Surround Receivers. If you wish to have the amplifier turn on when the Receiver is powered up, use the 12V trigger jack.

### BRIDGING CHANNELS

There are situations when you may wish to combine two channels into one through a process known as bridging. The output of the two combined channels can then be used to power one speaker. To bridge two adjacent channels, first make sure that the amplifier is powered down, and then move the switch to the "Bridged/Mono" position. The speaker must be connected to the positive (+) position of the removable terminals as indicated in the illustration to the right. All input selection and volume settings for bridged channels will be controlled by the RED channel. **DO NOT** connect more than one speaker to the outputs of the bridged channel.

NOTE: 8-ohm minimum when using bridge mode

Switch in bridged mode



### Wires from Speaker

Observe correct connection and polarity when bridging channels.

## OPERATION

### POWER SWITCH/ LED

The Power switch on the front panel of the amplifier will turn off the amplifier no matter what state the front Power button is in. When the amplifier is on, the POWER LED will be blue. Refer to the "Power Mode" section for further information.

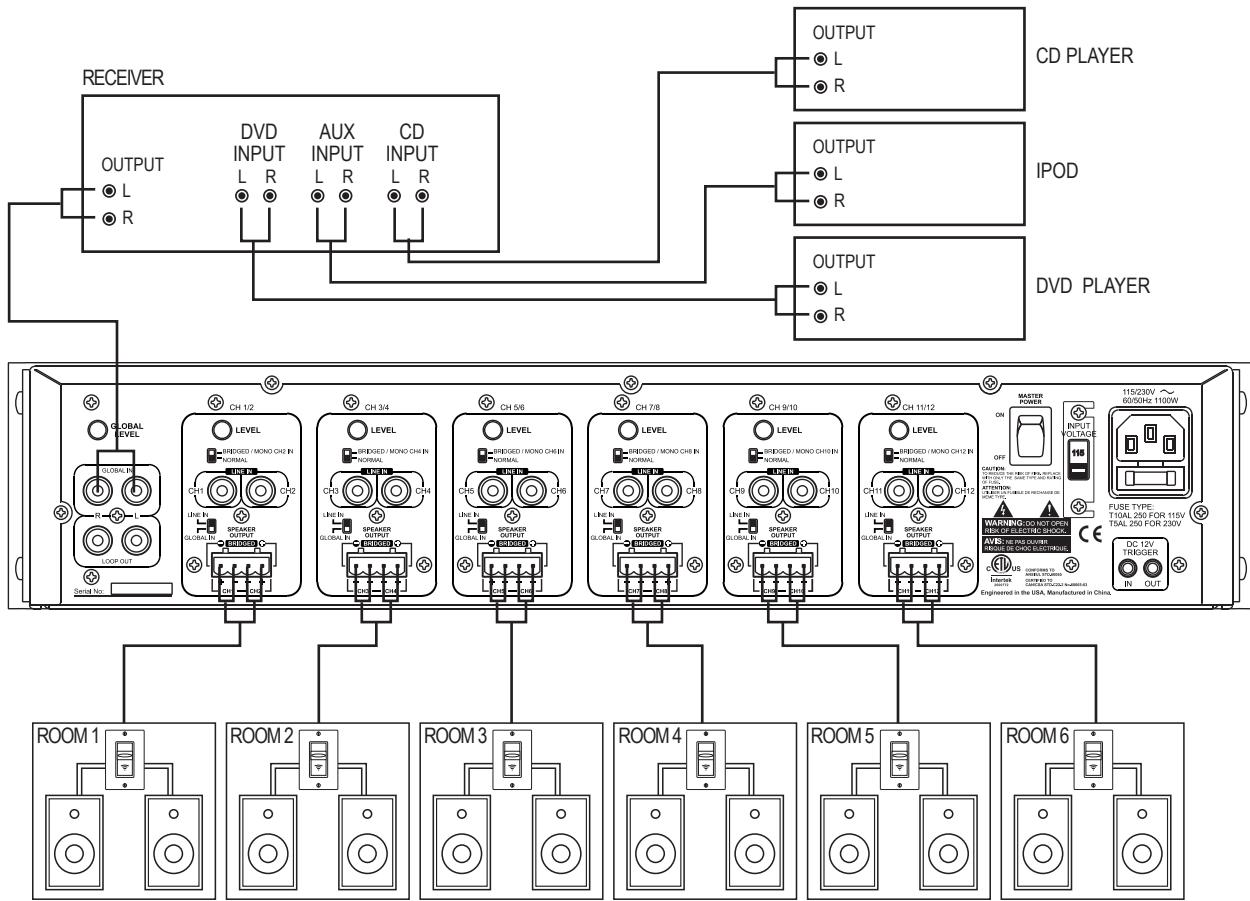
### ZONE LED INDICATORS

When lit, the LED section on the front panel indicates that the amplifier is operating. Each Zone (or pair of channels) has one bi-color LED assigned to it. Operation is normal when the LED is blue. A red LED indicates a short in one of the speaker wires connected for that zone. When power is on and the LED is not lit, this indicates the zone is not operating.

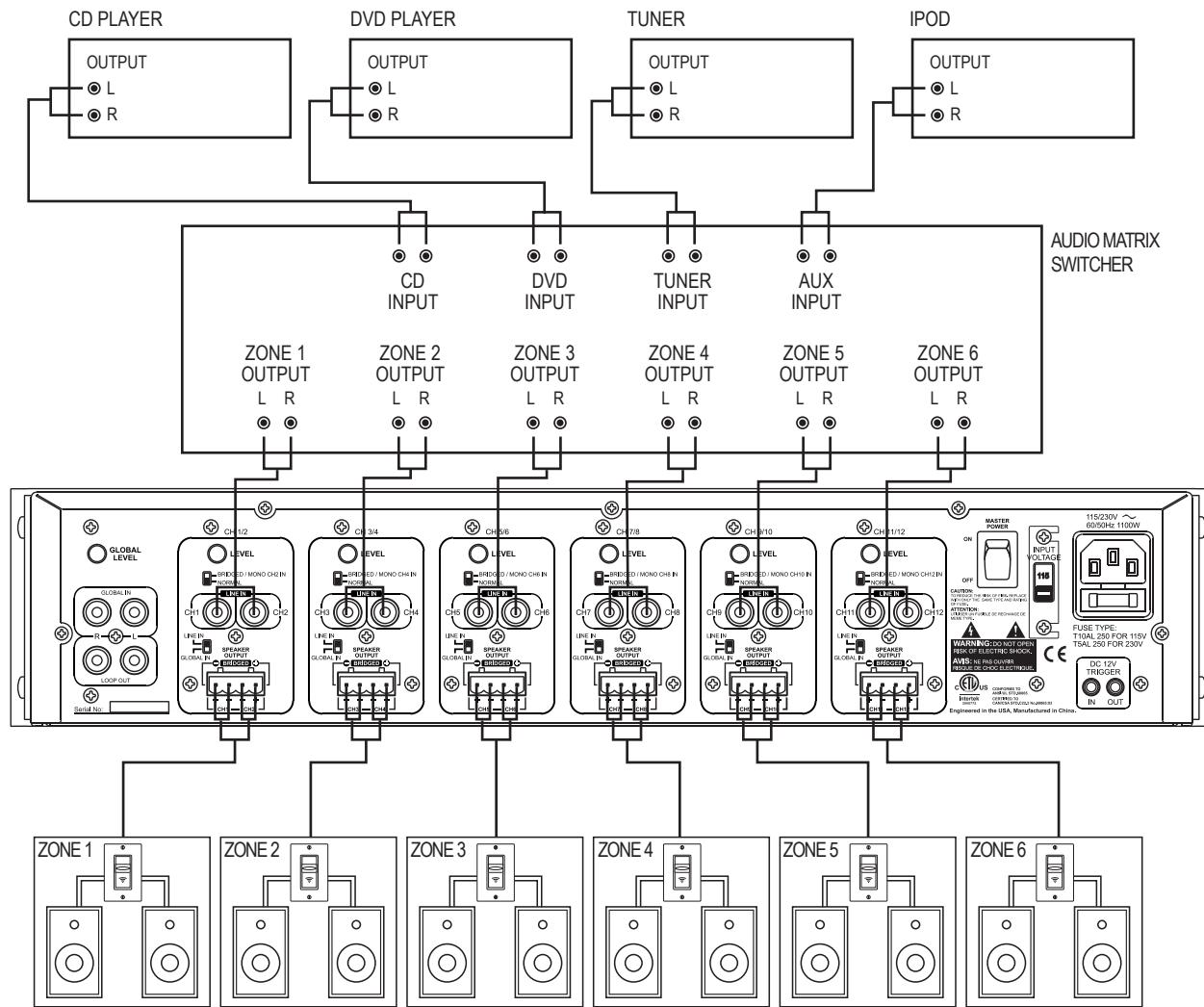
### LEVEL ADJUSTMENT

The level adjustments on the back panel of the amplifier can be used to easily adjust the level of each channel pair. One great use for this feature is to limit the volume level in an area, such as a child's room or guest area. Be sure set the volume at a level that does not clip or cause distortion when the volume is at the maximum level. This can cause damage to the speakers and the amplifier.

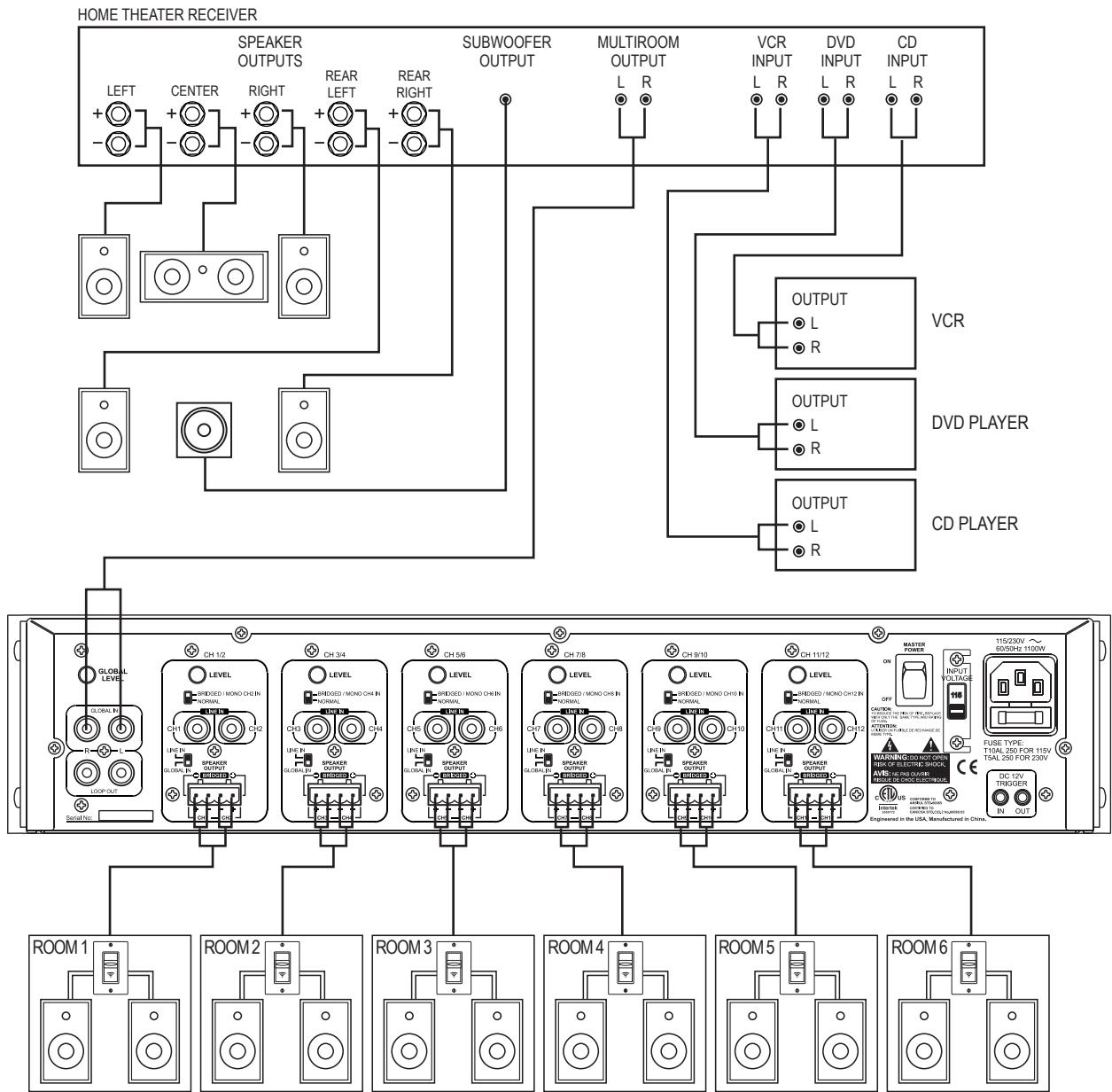
## **EPISODE® MULTI-ROOM INSTALLATION**



## EPISODE® MULTI-ZONE INSTALLATION



## EPISODE® HOME THEATER/MULTI-ROOM INSTALLATION



## TROUBLESHOOTING

No audio from any channel.	<ul style="list-style-type: none"> <li>Power cable to the amplifier is incorrectly connected or plugged into an outlet that does not have power. Check connections and verify power on the outlet.</li> <li>Audio cable to the source component is not connected properly, connected to incorrect BUS input or the cable is defective. Check connections or replace cable with one that has been verified as good.</li> <li>The Input Selection switches are set incorrectly. Refer to instructions for correct settings.</li> </ul>
No audio from one or more channels.	<ul style="list-style-type: none"> <li>Audio cable to the source component is not connected properly or the cable is defective. Check connections or replace cable with one that has been verified as good.</li> <li>The Input Selection switch is positioned incorrectly. Refer to installation instructions for proper settings.</li> <li>The Bridging switch is positioned incorrectly. Refer to installation instructions for proper settings.</li> <li>Check the connections of the speaker wire at both the speaker and amplifier.</li> </ul>
No audio from one channel or one zone only.	<ul style="list-style-type: none"> <li>Check the front panel LED for the zone that is not working. If it is red, you may have a short on either one of the speaker wires for that zone. Check wires and speaker connections for shorts.</li> <li>The level adjustment on the channel is turned down. Turn it slowly to the right to raise the volume.</li> <li>Test the bad channel by connecting it to a speaker that you know works.</li> <li>Audio cable to the source component is not connected properly or the cable is defective. Check connections or replace cable with one that has been verified as good.</li> <li>The Input Selection switch is positioned incorrectly. Refer to installation instructions for proper settings.</li> <li>The Bridging switch is positioned incorrectly. Refer to installation instructions for proper settings.</li> <li>Check the connections of the speaker wire at both the speaker and amplifier.</li> </ul>
Hum or buzzing sound is heard.	<ul style="list-style-type: none"> <li>Check RCA input cables by removing them one at time (powering down the amplifier before disconnecting) and checking to see if a connection or cable is to blame.</li> </ul>
Amplifier will not turn on.	<ul style="list-style-type: none"> <li>The amplifier must be plugged into a live outlet.</li> <li>The power switch on the back panel must be on.</li> <li>Ensure 12V is present if using the trigger input.</li> </ul>
12 Volt trigger not working.	<ul style="list-style-type: none"> <li>Ensure the amplifier power button on the front of the unit is in standby mode, indicated by a red LED.</li> </ul>

For Technical Support, call 1.866.838.5052

## SPECIFICATIONS

Continuous Power Output All channels driven	50 watts RMS at 8 ohms 70 watts RMS at 4 ohms
Bridged Power Output All channels driven	140 Watts per channel RMS at 8 ohms Note: Maintain 8 ohm minimum when using bridge mode
Input Sensitivity	500mV
Input Impedance	20,000 ohms
S/N ratio	95 dB
Frequency Response	20 Hz to 20 kHz
Distortion (Unbridged)	0.1% THD 20 Hz-20 kHz
Distortion (Bridged)	0.1% THD 20 Hz-20 kHz
Dimensions	17" w x 4" h (including feet) x 13" deep
Weight	32 lbs.
Certification	Meets FCC Part 15, ETL Listed and tested under UL/EN60065

\*All specifications are subject to change without notice

## WARRANTY

### 2-Year Limited Warranty

Episode® Amplifier Products have a 2-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).