episode
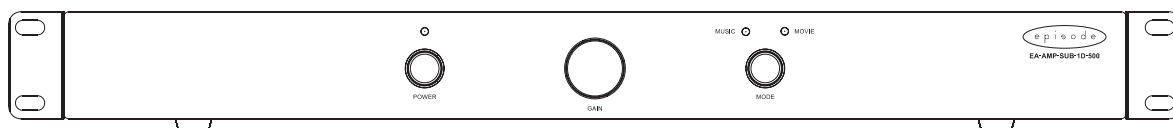
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OWNER'S MANUAL >> SUBWOOFER AMPLIFIER

EA-AMP-SUB-1D-500

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 and keep these instructions for future reference.

2. Do not use this apparatus near water.

3. Clean only with a dry cloth.

4. Do not block any ventilation openings. Install according to manufacturer's instructions.

5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

6. 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.

7. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where it exits from the apparatus.

8. Only use attachments/accessories specified by the manufacturer.

9. 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.

10. Unplug this apparatus during lightning storms or when unused for long periods of time.

11. 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.

12. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle

13. This is CLASS II apparatus with double insulation, and no protective earth provided.

⚠ CAUTION ⚡

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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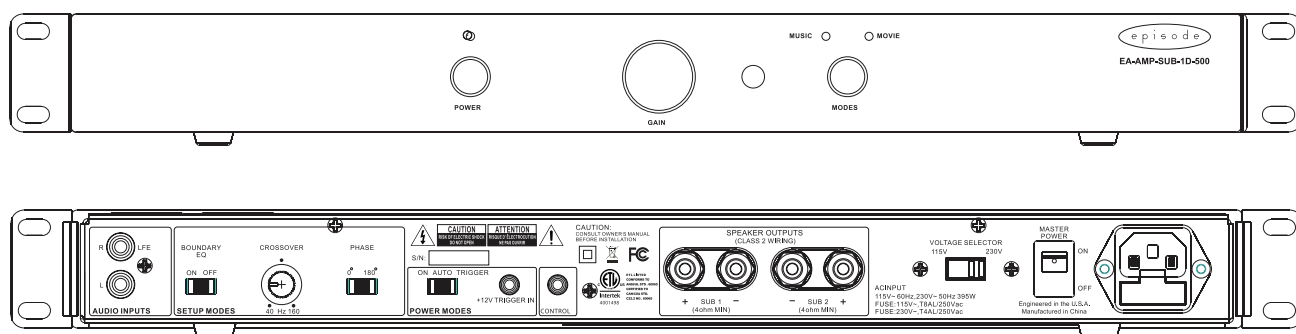
The exclamation point within an equivalent triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
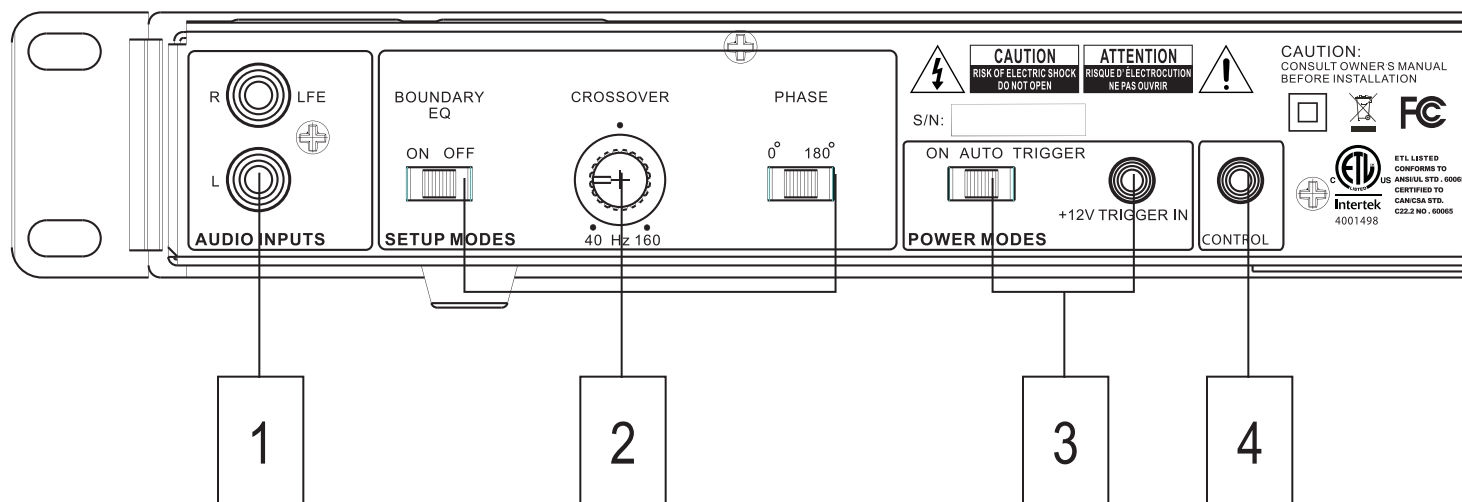
WELCOME TO EPISODE

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

The Episode® EA-AMP-SUB-1D-500 Subwoofer Amplifier is a superb choice for a variety of subwoofer applications and is designed to work with almost every type of home theater or audio system. It has been designed with advanced technological components that produce astounding sound effects in movies, as well as recreating the heights and depths of all types of music. Episode® amplifiers provide the best value and quality possible for your home theater needs.

This Digital Subwoofer Amplifier can be installed in cabinetry, on an equipment shelf, or rack-mounted into a standard 19″ Equipment Rack, utilizing a sleek 1U design to minimize space requirements. EQ settings, Volume, and Power can be controlled using the supplied hand-held IR remote. The EA-AMP-SUB-1D-500 has two EQ mode settings: Music or Movie. Frequency, phase, and boundary adjustments offer customized bass management. The included remote can be downloaded into learning remotes. User controls are also located on the front panel. The Front Panel of the Amplifier has an IR Receiver. There is a second hard-wired IR jack on the back of the unit. The Class D design keeps the amplifier running cool while providing ample power for the ES-SUB-IW-DUAL8. The low impedance drive capabilities offer massive headroom and allow for multiple ES-SUB-IW-DUAL8 connections. Two subwoofer output connections simplify wiring to multiple subwoofer locations. Built for today's sophisticated home theater LFE signals, the EA-AMP-SUB-1D-500 protects the speaker from clipping.
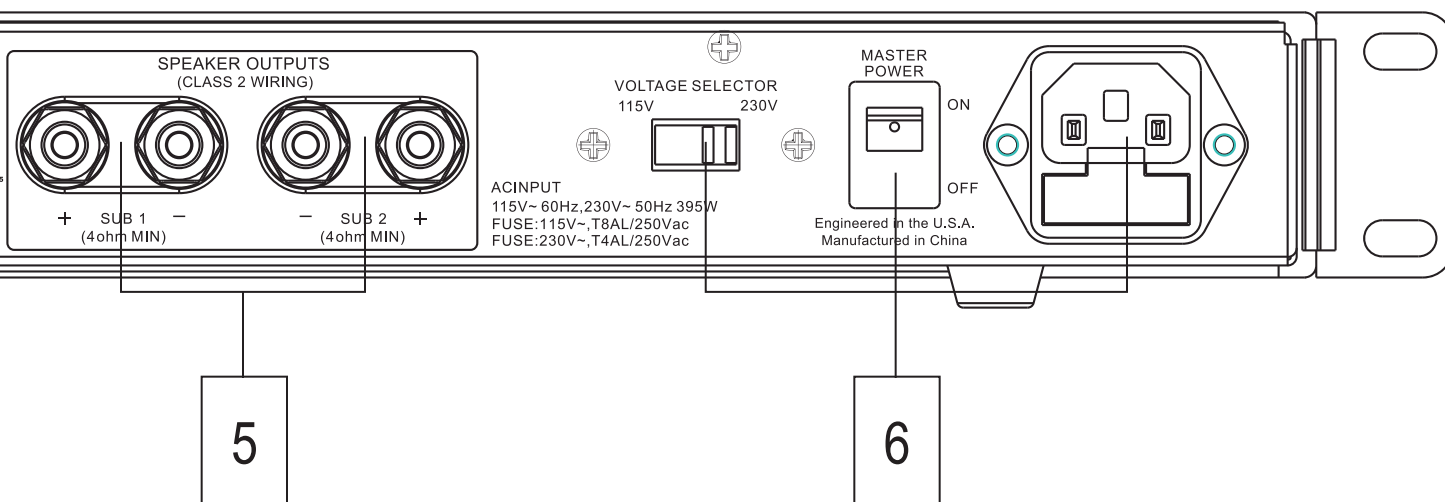
REAR PANEL FEATURES

1. AUDIO INPUTS
  a. Connect to Unbalanced Female RCA Inputs.

  b. Connect to the Right Female RCA input from a LFE output connection on a receiver or pre-amp processor.
NOTE: If not using an LFE connection, both inputs have been calibrated to the same sensitivity level and should be connected. When connecting to a stereo pre-amp connection, use a Y-Adapter when connecting

2. SETUP MODES
  a. BOUNDARY EQ – Select the appropriate setting based on these guidelines below.

  b. PHASE – Factory-set at 0°, adjustable to 180°. The phase of the subwoofer can be adjusted to fine tune the signal coincidence of the subwoofer and the lower frequencies of your speakers. Adjust the phase, listening for an increase in mid bass in the crossover region.

  c. CROSS-OVER – Crossover frequency setting of the Low Pass Filter. Factory-set at 80Hz.
Each EA-AMP-SUB-1D-500 has the capability to be adjusted from 40 to 160Hz.

  d. Boundary EQ – Removes exaggerated boomy sounds created by corner loading, large wall surfaces, or installations inside custom cabinetry. For a natural, tighter performance in less than ideal installation circumstances where boundaries are influencing the sound desired, select the ON position to compensate. For all other installations, or for when the exaggerated boomy sound is desired, leave the boundary switch in the OFF position.

3. POWER MODES
  a. ON – Always On

  b. AUTO – On, triggered via signal sense; when signal is off, amp will stay on for approximately 15 to 20 minutes.

  c. TRIGGERED – On, triggered by 12 VDC, 100mA minimum. NOTE – Use the 1/8″ mono mini-jack to connect a 12 volt trigger wire from other devices. Connector polarity is tip positive.

SPEAKER OUTPUTS
(CLASS 2 WIRING)

+ SUB 1 −   − SUB 2 +
(4ohm MIN)   (4ohm MIN)

VOLTAGE SELECTOR
115V   230V

ACINPUT
115V~ 60Hz,230V~ 50Hz 395W
FUSE:115V~,T8AL/250Vac
FUSE:230V~,T4AL/250Vac

MASTER
POWER
ON

OFF

Engineered in the U.S.A.
Manufactured in China

5

6

4. CONTROL INPUT

a. Use this 1/8″ Mono mini-jack to connect to most IR emitter output connections. The signal will be transferred and flashed to the IR receiver internally behind the front panel. This will eliminate the need to add "stick-on" emitters in most systems. NOTE: Due to variations in IR system types, not all are compatible with this control jack. In some cases, an emitter will be needed to place over the front panel IR window.

5. SPEAKER OUTPUTS

a. Connect the speaker wires to the Binding Posts.
   NOTE: Red is Positive and Black is Negative.
           Bridged output, do not ground.

b. Use either Bare Speaker Wire or Banana Plugs to terminate the speaker wire.

6. AC POWER

a. Master Power ON/OFF power switch for the amplifier.

b. Input voltage setting selects the appropriate 115V or 230V setting.

c. IEC Power Cord

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 some solid door cabinets or wall-mounted racks, it may be necessary to create some ventilation to air outside the cabinet or rack.

VENTILATION

Do not block ventilation holes, or impede air flow by placing objects on or around 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.

Make sure that there is a minimum of 5" of free air space above the amplifier and 3" on each side for proper ventilation.

Allow a minimum of 2" of depth behind unit to accommodate cables and connectors.

Standard Placement of Amplifier in Cabinet

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 be sure that the amplifier is off during all of your connections and set up.
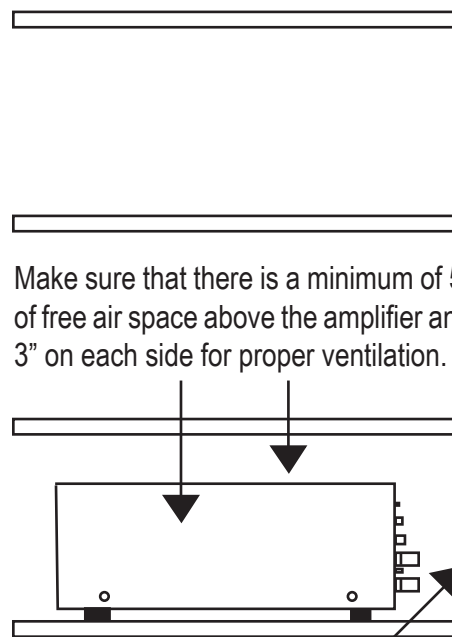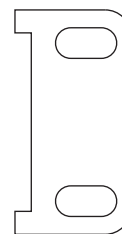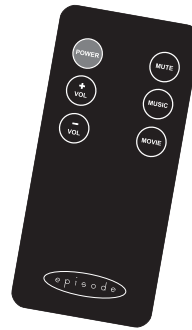
INPUTS

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.

RACKMOUNT INSTALLATION

1. Remove the amplifier's four feet from the bottom of the chassis.
2. Attach the included rack-mount ears to the front sides of the amplifier chassis.
3. Securely mount the amplifier into the 19" equipment rack. The amplifier will occupy 1U of rack space.
4. Even though the amplifier produces very little heat, it is always wise to leave ventilation between components.

REMOTE CONTROL

The remote control has the following functions:

1. POWER - Toggles between Standby Mode and ON.

2. VOL+/- – Adjusts the volume.

3. MUTE – Mutes the subwoofer. Press again to unmute.

4. MUSIC/MOVIE – Selects the corresponding EQ mode.

OPERATION

The EA-AMP-SUB-1D-500 can be controlled manually from the front panel or via the supplied hand-held remote. A remote IR input can also be used for systems hidden behind closed cabinet doors or in an equipment rack located in other areas of the home. On the front panel, you will find the following features:

1. Master Volume Control – The master volume knob is a continuous rotary control. To adjust volume, use the gain adjustment on the AV receiver or pre-amplifier to make minor adjustments. Use a dB meter to measure the subwoofer output to the level suited for the room and the listener.

2. Music or Movie quick EQ adjustments – The Music or Movie toggle button changes the EQ to an appropriate curve for the source material. You can use the hand-held remote to change the curve between Music and Movie modes. The Music or Movie mode IR codes can be inserted into IR learning macros to change the EQ per source. LEDs placed above the Music or Movie text on the front panel indicate the EQ mode. Music mode is flat; Movie is bumped 8dB between 30Hz and 80Hz for added impact.

HINTS

For single in-room subwoofer placement, room shape, size, and environment play a large role in the impact of a subwoofer's perceived output. Due to the bass waves that pass through the room, certain areas can be perceived to sound thin and lacking bass while others sound boomy and unnatural. This often happens within a few feet, and can cause the main listening area to be an undesirable location. If you are forced to symmetrically install the subwoofer box in the home theater, use the phase switch located on the back of the amplifier. The ideal placement for a single subwoofer is in the room location that receives the highest dB level from the audio source (ex. CD player, AV receiver, etc.). This can be tested with a dB meter by measuring various spots in the room. Mark the highest-rated spots with masking tape to determine the best location. Consider the best sound, aesthetics, and installation-ease when choosing location.

Dual subwoofer installations will cancel standing waves or "quiet" spots in the room, and often ensure the most even distribution of bass in a theater. Most home theater rooms, even smaller ones, benefit greatly from adding a second subwoofer. The Episode™ subwoofer amplifier was designed for multiple subwoofer connections. (Note: This is a single amp with two paralleled connections for convenience.)

The boundary switch and phase switch can create hidden and unique placement options not found on ordinary subwoofer amplifiers.

CLEANING

Use a soft cloth or paper towel to clean the amplifier.

SPECIFICATIONS

Continuous Power Output	312 watts RMS at 8 ohms 500 watts RMS at 4 ohms
Input Sensitivity	200 mv for full output, 500 watts, with level control set to max.
Frequency Response	18 - 160 Hz
Distortion	.04% THD+N 1W/2W 100 Hz
Auto On Sensitivity	3 mv
External Trigger Voltage	5 V - 20 V
EQ Modes	Music: Flat Movie: +8dB@40Hz (30-80Hz)
Boundary EQ	ON = Flat OFF = +3dB
Dimensions	17˝ W (18.9˝ including rack mounts) 1.7˝ H (1.9˝ including feet) 10.4˝ D (11.2˝ including speaker connections)
Weight	19.7 lbs.
Certification	ETL Listed and tested under UL/EN60065 for US and Canada

TROUBLE SHOOTING

This amplifier is designed to function trouble-free. Most problems that occur are due to simple issues.
If you have trouble, check the list of simple fixes below. If the problem persists, contact your authorized
Episode dealer or Episode technical support at 866-838-5052.

No audio output	• Power cable to the amplifier is incorrectly connected or plugged into an outlet that does not have power. Check connections and verify power at the outlet. • Audio cable to the source component is not connected properly, connected to output or the cable is defective. Check connections or replace cable with one that has been verified as good. • Amplifier is in standby mode, and needs to be turned on "BLUE LED". • Check the connections of the speaker wire at both the speaker and amplifier. • The level adjustment is turned down. Turn it to the right slowly to raise the volume.
Hum or buzzing sound is heard	• Check RCA input cables by removing them one at a time (powering down the amplifier before disconnecting) and check to see if a connection or cable is to blame.
Amplifier will not turn on	• The amplifier must be plugged into a live outlet. • The Power Switch on the front panel must be on. • The Power Mode switch may be set to the wrong mode for your system.

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 the SnapAV or a designated service center with prior notification and an assigned return
authorization number (RA).