

Signature Series



500W Mono Dual Subwoofer Amplifier

SAFETY INSTRUCTIONS

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-servicable parts inside. Refer servicing to qualified service personnel.		

1. Read Instructions - all the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and other instructions should be followed.
5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washtowel, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

PORTABLE CART WARNING



7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCES ELECTRIQUES, INTRODUIRE LA LAME LA LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

• Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of insulated "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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

9. Heat - The appliance should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
10. Power Source - The appliance should be concerned to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
12. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
13. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
14. Object and Liquid Entry - Care should be taken so that objects do not fall into and liquids not spilled into the inside of the appliance.
15. Damage Requiring Service - The Appliance should be serviced by qualified service personnel when:

- a. The power-supply cord or the plug has been damaged; or
- b. Objects have fallen onto, or liquid has been spilled into the appliance or;
- c. The appliance has been exposed to rain; or
- d. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e. The appliance has been dropped, or the cabinet damaged.

16. Servicing - The user should not attempt to service the appliance beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.

17. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.

FEATURES

- High Power Mono Dual Subwoofer Amplifier
- Low Pass Filter Crossover Adjustment
- EQ Modes: Music (Flat), Movie (+8dB @40Hz)
- Power On Modes: Manual, Auto On via Audio Sense or 12volt Trigger.
- Rack Mountable (1U Space)
- Remote Control Included
- 110V/230V

SPECIFICATIONS

- Power Output: 312W RMS at 8ohms, 500W RMS at 4ohms
- Frequency Response: 18Hz – 160Hz
- Low Pass Variable Filter: 40Hz – 160Hz
- Impedance: 4ohm or greater
- Phase: 0 or 180
- Distortion: 0.04% THD+N 1W/2W 100Hz
- Auto On Sensitivity: 3mV
- Input Connection: RCA
- Output Connection: Binding Posts
- Weight: 19.7 lbs.
- Dimensions: W 17" (432mm) x H 1 ¾" (45mm) x D 13 ¼" (337mm)

CONNECTIONS

Audio Inputs - If your source provides an LFE output you can use the top input marked "LFE". If your source is a stereo output, use the appropriate L&R inputs.

Voltage Trigger - If you will be turning the amplifier on by using a voltage trigger supplied by another component connect the 12V AC or DC output to the 12V Trigger In

IR Input - The amplifier comes with a supplied IR Remote that functions through the IR window on the front of the amplifier. You may wish to still use the remote but have the amplifier hidden in a cabinet. If so, you can use an IR Receiver (not supplied) such as the Vanguard Dynamics IR-REC and plug it into the IR Input Jack.

Subwoofer Speaker Outputs - The SubAmp-500 will power up to 2 subwoofers if the total impedance does not drop below 4ohms. For example, two 8ohm subwoofers could be used. Both subwoofer outputs deliver the same signal. It is a mono output and therefore there is no Left and Right. Connect the subwoofer speaker wires to the appropriate terminal paying close attention to polarity (+ and -).

- 3 Prong Removable Power Plug - Connect the supplied power cable to this input.

FUNCTIONS

Master Power ON/OFF - This must be turned to the ON position for the amplifier to operate in any mode; manual, auto or trigger. If the amplifier is not to be used for an extend period, please leave this switch in the off position.

Power Button - This is located on the front panel. Its operation is detailed below and is dependent upon the setting of the Power Mode Switch.

Power Mode - There is a three-position switch to choose how the amplifier will be turned on and in some cases off. Each switch position is detailed below.

- **ON** (left position) When this is selected the amplifier can be manually turned on and off using the power button on the front of the amplifier.
- **Auto** (middle position) When this is selected the amplifier will be turned on when it senses an audio signal from the RCA inputs. When the signal has stopped the amplifier will turn off after approximately 20 minutes.
- **Voltage** (right position) When this is selected the amplifier will turn on once it senses a 12V signal connected to the Voltage Trigger input connection. The amplifier will remain on as long as there is voltage and will turn off once the voltage is stopped.

Volume - The rotary volume control knob on the front panel is used to adjust the volume of the subwoofer(s). It is an infinite knob. The display indicates the volume level. The volume can also be raised, lowered or muted via the enclosed IR remote.

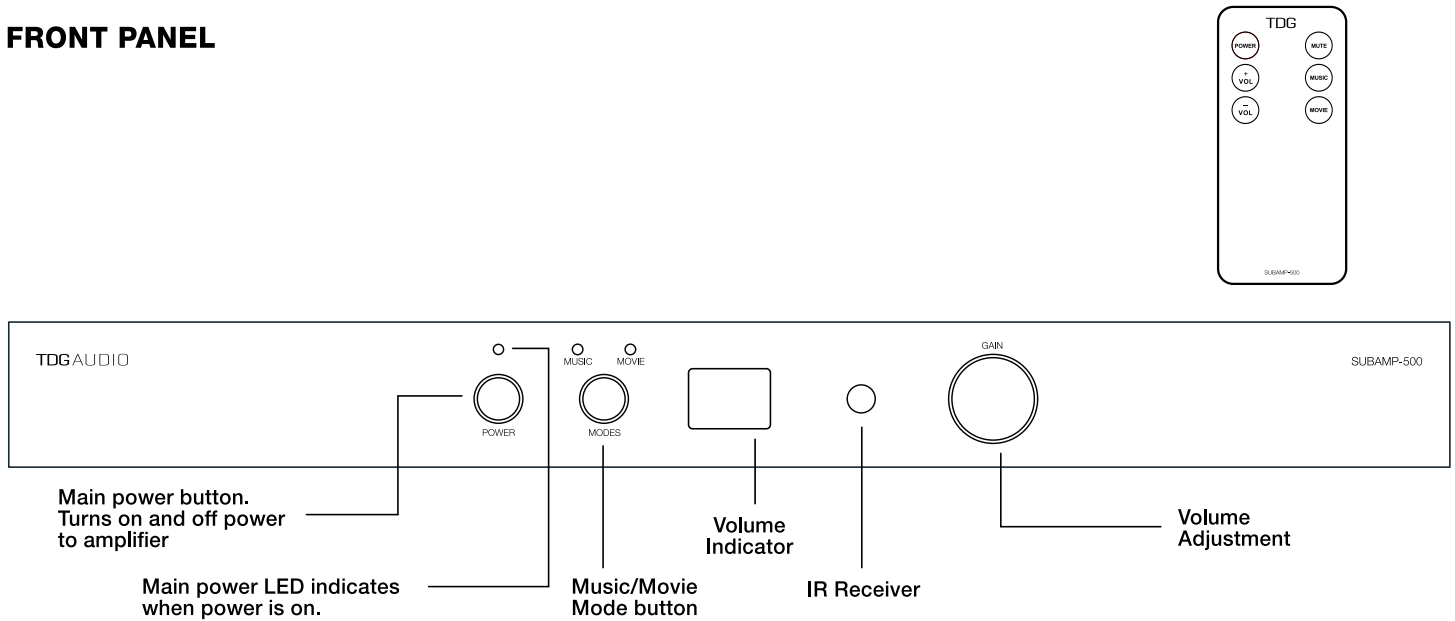
Music / Movie Mode - This EQ button is used to best match the amplifier performance to the audio content. If you will primarily be listening to music leave this in the music mode. If primary listening to movies leave it in that mode. You may also quickly adjust this setting with the included remote control.

Crossover Adjustment - Use this rotary control to set the low pass crossover point of the subwoofer. We recommend leaving it in the factory position to start and adjusting as necessary according the system requirements.

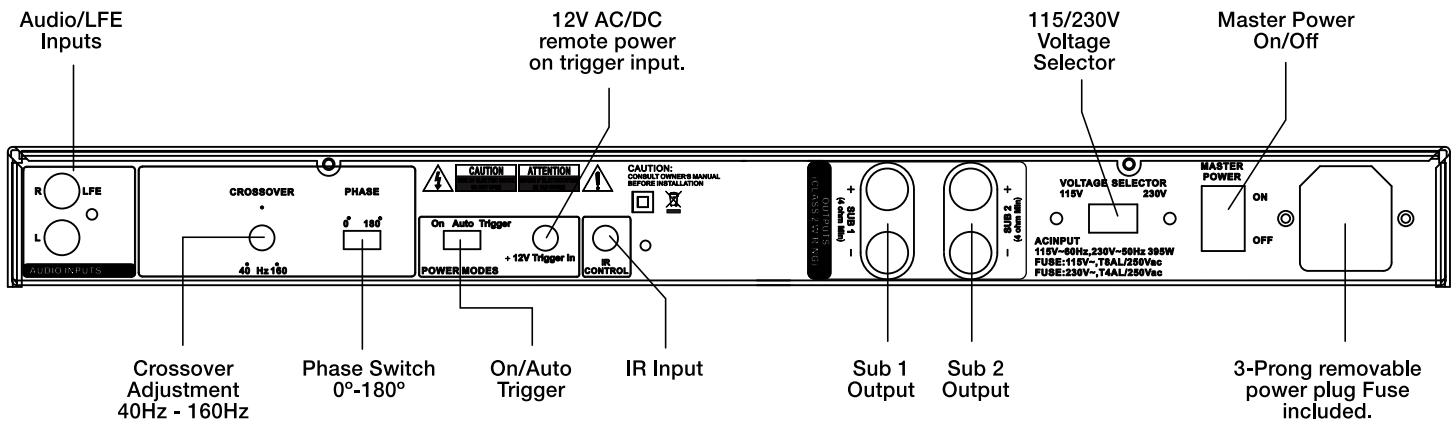
Phase Switch - This can be set to "0" degrees (In Phase) or "180" degrees (Out of Phase). The switch comes standard in the "0" position but you may increase performance by selecting "180" depending on room position and acoustics.

Voltage Selector - The SubAmp-500 is designed to operate at either 115V or 230V. If selecting for a position other than the default provided for your region please make sure you will be using the appropriate fuse as indicated.

FRONT PANEL



REAR PANEL



LIMITED FIVE-YEAR WARRANTY

TDG Audio warrants to the original retail purchaser only that this TDG Audio product will be free from defects in materials and workmanship, provided the speaker was purchased from a TDG Audio Authorized Dealer. Defective products must be shipped, together with proof of purchase, prepaid insured to the TDG Audio Authorized Dealer. Defective products must be shipped, together with proof of purchase, prepaid insured to the TDG Audio Authorized Dealer from whom they were purchased, or to the TDG Audio factory at the address listed on this installation instruction manual. Freight collect shipments will be reused. It is preferable to ship this product in the original shipping container to lesson the chance of transit damage. In any case, the risk of loss or damage in transit is to be borne by the purchaser.

If, upon examination at the factory or TDG Audio Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, TDG Audio or the TDG Audio Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, TDG Audio, at its sole option, may replace the unit with a current model or equal or greater value. In some cases where a new model is substituted, a modification to the moounting surface may be required. If mounting surface modification is required, TDG Audio assumes no responsibility or liability for such modification.

All replaced parts and product become the property of TDG Audio. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid. This warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by TDG Audio. This warranty also excludes normal cosmetic deterioration caused by environmental conditions.

This warranty will be void if the Serial Number on the product has been removed, tampered with or defaced. This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will TDG Audio be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if TDG Audio or a TDG Audio Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply. In our attempt to constantly improve our products, features and specifications are subject to change without notice.



BOX CONTENTS

- 1 SUBAMP500 Multi-Channel Amplifier
- 1 Power Cord
- 2 Rack Mount Ears



TDG AUDIO