



OSD[®]

BLACK

THEATRO X11
AMPLIFIER INSTALL 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 dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture'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 defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding 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 the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
16. **WARNING:** The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.



17. - This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
 - Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
18.  Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
19. No naked flame sources, such as lighted candles, should be placed on the apparatus.
20. Do not install this equipment in a confined or building-in space such as a book case or similar unit, and remain a well ventilation conditions at open site. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
21. **WARNING :** For the terminals marked with symbol of "⚡" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
22. **CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
23. **Class 2 wiring:** To reduce the risk of electric shock, The external wiring connected to the terminals marked with "class 2 wiring" requires installed with class 2 wiring by an instructed person or the used of ready-made leads or cords.
24. This apparatus is for professional use only.
25. Use of the apparatus in moderate climates.

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REAR PANEL:

1. Unbalanced RCA Input

Connect to the unbalanced RCA output of preamplifier.
 NOTE: Many RCA type patch cords can be very tight fit and some have to be removed by twisting action.

2. Balanced XLR Input

Connect to the balanced XLR output of preamplifier.
 NOTE: Balanced connection offer superior noise immunity over unbalanced RCA connection. Use balanced XLR connection whenever possible.

3. Speaker Outputs

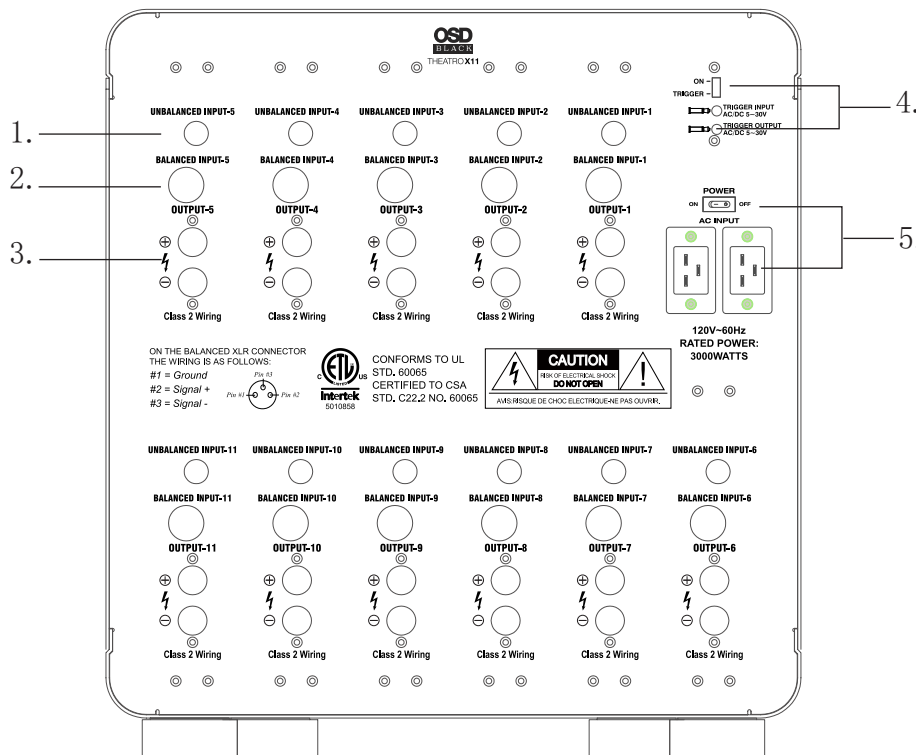
- Connect the speaker wires to the Binding Posts.
 NOTE: Red is Positive and Black is Negative.
- Spade connections or banana plugs ensure a simple, solid fit in the terminal, whereas bare wire may be awkward when the terminal is screwed down to compress the wire into place.

4. Power Mode

- ON - In the ON position, the switch on the front of the amplifier is the method you will use to power up and power down the amplifier.
- TRIGGER - In the TRIGGER position, the amplifier's ON and OFF functions are controlled by a source or preamplifier device.
 NOTE - Use the 1/8" mono mini-jack to connect a 5-30V AC/DC trigger wire from preamplifier.
- The X11 supply TRIGGER link out to another amplifier (Use the 1/8" mono jack connect).

5. AC Power

- Power ON/OFF switch for the amplifier.
- Input voltage requires 120VAC.
- IEC Power Socket.



TROUBLE SHOOTING:

The X11 is the product of careful design and construction, with two years of free warranty service. Most problems that occur can usually be solved by checking your setup or making sure that the audio and video components connected to the amplifier are on and fully operational. The following information will help you deal with common setup problems you may experience during normal use of your unit. If problems persist, contact your Dealer for help.

INTRODUCTION:

Thank you for your purchase of the The Theatro X11, which is a flexible, high performance amplifier. It has been designed for maximum performance, easy to use, and installation flexibility. By employing cutting edge technology, the X11 will easily power your speakers at high power levels, at the same time remaining as efficient as possible, regardless of volume levels. This allows you to fully enjoy audio and video sources without concern for dynamic headroom during complex musical passages and high level effects. What's more, the X11 does it all with exceptionally refined cosmetics and a sound quality that will satisfy even the most discriminating tastes.

The X11 Power Amplifier is a rock solid component that allows you to control and manage all of your system's speakers with 11 individual amplifiers in a single, easy to use amplifier chassis. This makes installation of your home entertainment system much easier than connecting multiple mono two channel amplifiers.

Please read through this manual to familiar yourself with any safety advice and how to set up your amplifier. Please retain this manual for future reference.

UNPACKING:

Care must be taken at all times when handling the amplifier due to the weight and the construction of the product. We recommend a four-person lift wherever appropriate.

The main power cord and trigger lead are contained separately in the packaging and should be removed prior to unpacking the amplifier.

First remove the crate lid and sides. Next remove the protective foam top to expose the X11's built-in handles on the sides of the amplifier.

FRONT PANEL:

1. STANDBY

- a. Dim Red light - Standby mode.
- b. Blue light - Power Mode is on.

Turn on or off the X11 by touching this button. When the "ON/TRIGGER" switch at the rear panel is set to "ON".

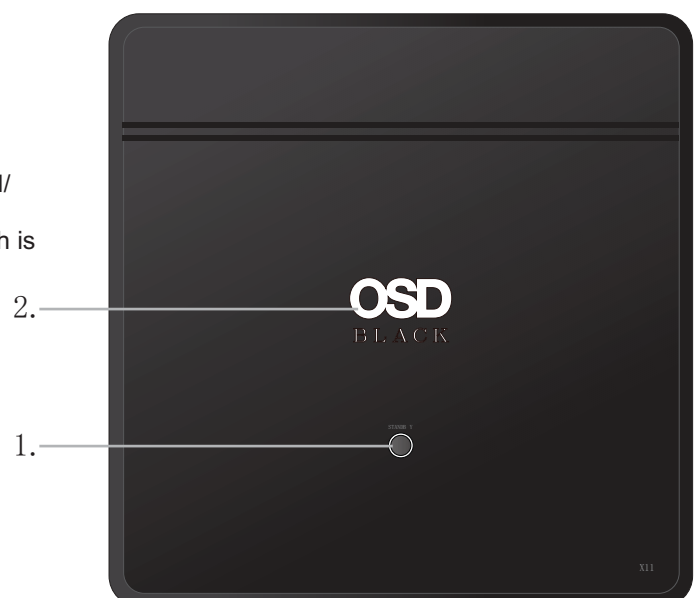
This button has no function when the "ON/TRIGGER" switch is set to "TRIGGER". See the feature of "Power Mode".

2. AMPLIFIER DISPLAY

- a. Blue light - Power Mode is on.
- b. Red light - This indicate a fault condition.

The fault condition is one or more of the followings:

- Excessive Operating Temp;
- Excessive Current (Short Circuit);
- DC on the output.





TROUBLE SHOOTING:

No audio output	<ul style="list-style-type: none"> • Speaker cables may have come undone. Turn off your system and check the cables, and tighten the amplifier and speaker binding posts. • Damaged audio cable. • The preamplifier volume level is low for the channels concerned. Recheck the preamplifier calibration procedure. • Amplifier is in standby mode, and needs to be turned on "BLUE LED" • Check in case any missing channels have been turned off in a preamplifier setup menu. For example, the center amplifier channel will not receive a signal if the preamplifier has been set to "Phantom". • The ON/TRIGGER switch on the X11 might be in the wrong position. • A fuse on the unit may have blown or the individual fuse within the power module may have blown.
Hum or Buzzing Sound is Heard	<ul style="list-style-type: none"> • If your preamplifier has XLR balanced outputs, use them because they offer greater immunity to noise fields. • Remember to turn off all components in your system, including the amplifier, before disconnecting or connecting any cables during troubleshooting. • Disconnect all cables which come from outside the room, and check if the hum goes away. This includes such connections as cable TV, satellite, or roof top antennas. • Try moving the speaker cables away from any power cords. Try just one speaker, connecting it to each amplifier channel and see if one channel is bad.
Amplifier will not turn on	<ul style="list-style-type: none"> • The amplifier must be plugged into a live outlet. • The power switch on the rear panel must be on. • The power mode switch may be set to the wrong mode for your system.

SPECIFICATIONS:

Rated Power Output:	380 Watts RMS at 8 ohms, 600 Watts RMS at 4 ohms
Frequency Response:	+/- 0.1dB: 10Hz-20kHz +/- 3 dB: 5Hz-80kHz
Signal to Noise Ratio:	110 dB Un-weighted
Distortion:	<0.01% (THD 20hz-20kHz)
Damping Factor:	>300
Gain:	0.9V(1.2dBm) /UnBal 1.2V(3.8dBm) /Bal
Input Impedance:	>20K ohms
External Trigger:	5~30V AC/DC
DC Offset:	Less than 5mv
Power Requirements:	120V~60Hz 3000W
Standby Power Consumption:	5 Watts
Chassis Type:	10 RU Chassis
Weight:	234 lbs.
Dimensions:	17.25" W x 18.3" H x 21.37 " D

WARRANTY INFO

All Optimal Speaker Design electronics products have a 2 Year Limited Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period Optimal Speaker Design will replace any defective part and correct any defect in workmanship without charge for either parts or labor. Optimal Speaker Design may replace returned speakers with a product of equal value and performance. In such cases, some modification to the mounting may be necessary and are not Optimal Speaker Designs responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by Optimal Speaker Design. The unit must be returned to Optimal Speaker Design at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by Optimal Speaker Design.

Optimal Speaker Design sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any Optimal Speaker Design product purchased from an unauthorized dealer or other source, including retailers, mail over dealers and on-line sellers will not be honored or serviced under existing Optimal Speaker Design warranty policy. Any sale of product by an unauthorized source or other manner not authorized by Optimal Speaker Design shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number# then the unit must be shipped to Optimal Speaker Design at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the speaker(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.

