



Outlaw[®]

Ultra-X13 Subwoofer Quick Start Guide

Important Safety & Warranty Information

“The best values in home theater are just a mouse-click away”[™]

Please Read First



- CAUTION:** To reduce the risk of electric shock, do not remove the cover. No user serviceable parts inside. Refer to qualified personnel.
- WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

WARNING: Important Safeguards

- ▶ **Read Instructions** All the safety and operating instructions should be read before the unit is operated.
- ▶ **Retain Instructions** The safety and operating instructions should be retained for future reference.
- ▶ **Follow Instructions** All operating instructions should be followed.
- ▶ **Cleaning** Unplug the unit from the wall outlet before cleaning. The unit should be cleaned only as recommended by the manufacturer.
- ▶ **Attachments** Do not use attachments not recommended by the unit manufacturer as they may cause hazards.
- ▶ **Water and Moisture** Do not use the unit near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool.
- ▶ **Power Sources** The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your unit dealer or local power company.
- ▶ **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 where they enter a plug, or a convenience receptacle, and the point where they exit from the unit.
- ▶ **Lightning** For added protection for the unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power-line surges.
- ▶ **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- ▶ **Object and Liquid Entry** Never push objects of any kind into the unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
- ▶ **Servicing** Do not attempt to service the unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to Outlaw Audio.
- ▶ **Damage Requiring Service** Unplug the unit from the wall outlet and refer servicing to Outlaw Audio under the following conditions:
 - » When the power-supply cord or plug is damaged,
 - » If liquid has been spilled, or objects have fallen into the unit,
 - » If the unit has been exposed to rain or water,
 - » If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by Outlaw Audio to restore the unit to its normal operation,
 - » If the Ultra-X13 has been dropped or damaged in any way, the unit should be examined by Outlaw Audio.
 - » When the unit exhibits a distinct change in performance—this indicates a need for service.



The lightning flash with arrowhead, 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 electrical shock to persons.



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

Precautions

Verify The Line Voltage

Your new Subwoofer has been factory configured for 120 volt AC lines. Connecting the Ultra-X13 to a line voltage other than that for which it is intended can create a safety and fire hazard, and may damage the subwoofer. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact Outlaw Audio before plugging the unit into a wall outlet.

Verify AC Circuit Capacity

The high power output of your Ultra-X13 may require heavy power draw under full load conditions; connecting it to a circuit used by other heavy power devices, such as air conditioners, may cause circuit breakers to trip.

▶ *It is always a good idea to avoid using any audio or video equipment on the same AC circuit as equipment with motors, such as air conditioners or refrigerators. This will lessen the possibility of power variation and electrical start-up noise affecting your sound system.*

Extension Cords and Power Strips

We do not recommend that extension cords be used with this product unless they are of sufficient gauge to pass the necessary current during full load conditions. Most inexpensive extension cords are not capable of such high-current loads. Similarly, should you use a power strip, surge protector or any type of AC power line conditioning equipment, make certain that it is also able to handle the high current loads this product will produce.

Handle the AC Power Cord Gently

When disconnecting the power cord from an AC outlet, always pull the plug, never pull the cord. If you do not intend to use the subwoofer for any considerable length of time, disconnect the plug from the AC outlet. If the power cord is replaced, make certain that it is of similar gauge. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately with cords meeting factory specifications.

Wiring

Cables that are run inside of walls should have the appropriate markings to indicate compliance with, and listing by the UL, CSA or other standards required by the UL, CSA, NEC or your local building codes. Questions about cables inside of walls should be referred to a qualified custom installer, or a licensed electrician or low-voltage contractor.

Do Not Open The Cabinet

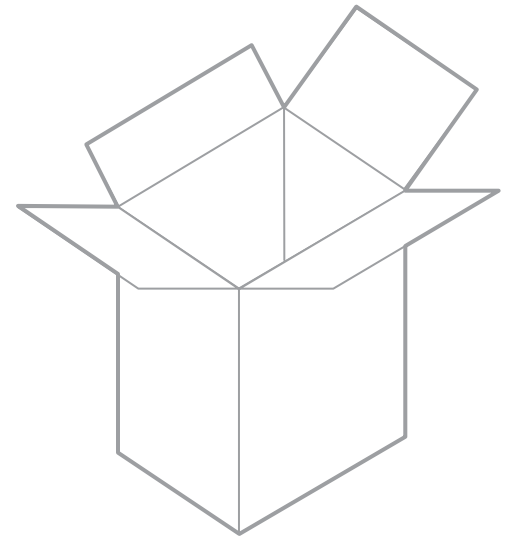
There are no user serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty. If water or any metal object, such as a paper clip, coin or a staple, accidentally falls inside the unit, disconnect it from the AC power source immediately, and contact Outlaw Audio for further instructions.

IMPORTANT SAFETY NOTE

Before connecting a new component such as the Ultra-X13 to your audio or home theater system, it is always good practice to make certain that all components are turned off, and preferably unplugged from their AC power source. Many modern electronics products feature automatic turn-on circuits that may be activated during an installation, causing the potential for damage to electronic components and/or speakers. Such damage is not covered by product warranties and Outlaw Audio specifically disclaims responsibility for any such damage.

Unpacking

Save all packing materials



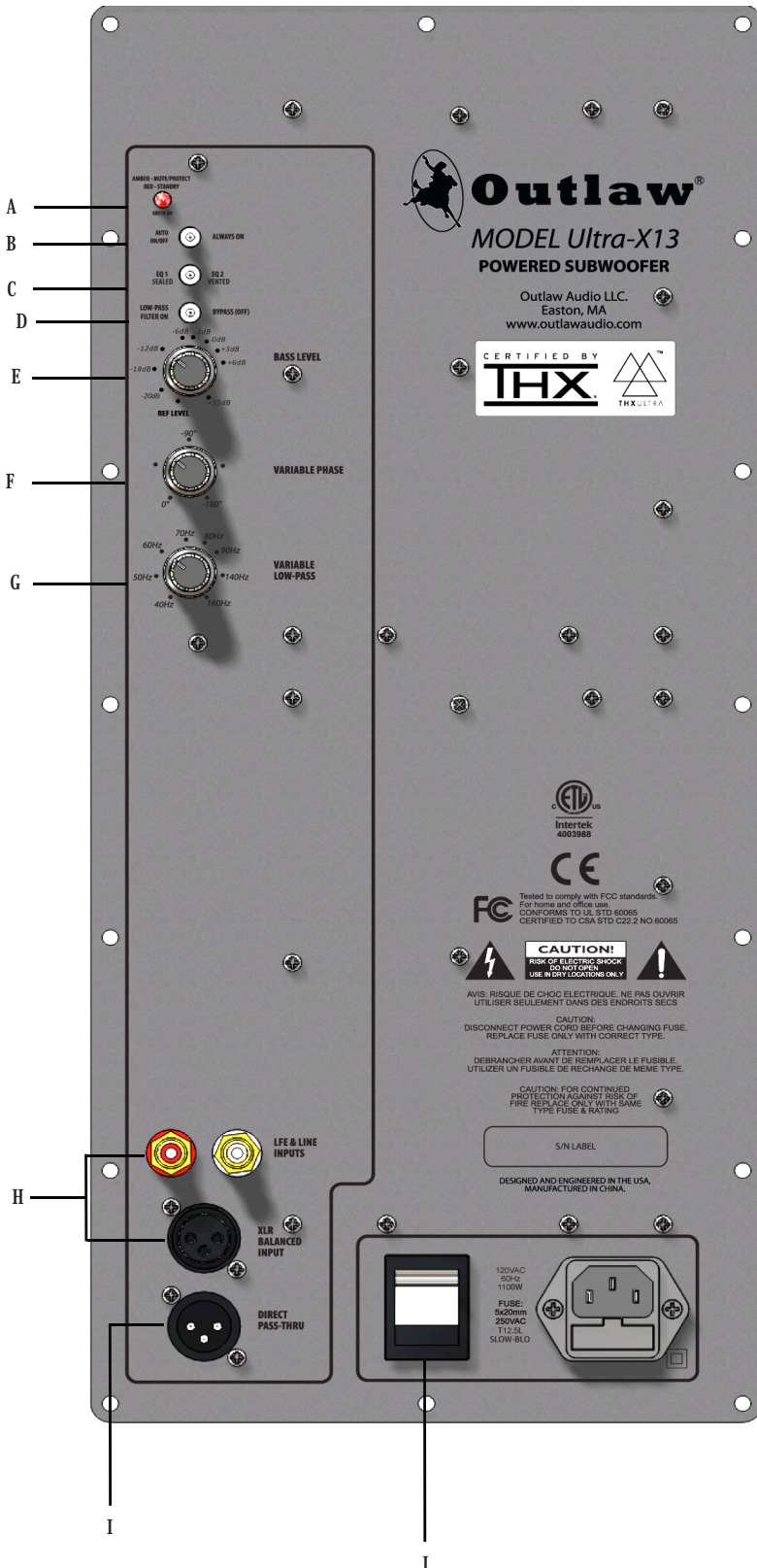
The carton and packing materials used in shipping your new subwoofer were specially designed to cushion it from the shocks and vibrations of shipping. We require that you save the carton and packing materials in case the unit ever needs to be shipped back to us for any reason.

To minimize the size of the carton for storage, you may wish to flatten it by carefully opening the top and bottom flaps and folding the carton. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

Your new Ultra-X13 subwoofer is engineered using heavy-duty materials for high reliability and weighs 104 pounds and requires that you pay special attention during unpacking and installation. You may wish to have someone help you remove the unit from its carton and place it in the proper location.

Subwoofer Quick Start Guide

In this quick start guide, we'll provide some information on the sub's features and will go into greater detail in the full Owner's Manual, located at www.outlawaudio.com



A. Indicator Light

This LED will light green when receiving signal. It will illuminate red when in standby.

B. Auto Switch

Setting this switch to AUTO enables the Ultra-X13's signal sense mode, allowing the unit to come out of standby when an audio signal is present.

C. EQ Switch

You can change the frequency response of the subwoofer by changing both the EQ switch along with how the subwoofer is ported. Please see the following for examples:

Freq. Resp. (-6dB)	Sealed	Vented (2 ports open)	Vented (1 port open)
EQ 1	20-200Hz	16-200Hz	15-200Hz
EQ 2	28-200Hz	*20-200Hz	23-200Hz

*This mode of operation is THX ULTRA Certified.

THX ULTRA Certified Mode of Operation:

For THX ULTRA Certified mode of operation, the X13 should be set as follows:

- Auto Switch set to: Auto on
- EQ Switch set to: EQ2 vented
- Low-pass filter Switch set to: BYPASS (off)
- Bass Level set to: REF LEVEL
- Variable Phase Switch set to: 0deg phase
- Either RCA or XLR input will work.

D. Low Pass Filter Switch

When an external crossover, such as those found in a modern AVR or surround processor, is used set this switch to BYPASS the Ultra-X13's internal crossover.

E. Bass Level

Use this knob to control the output level of the Ultra-X13. We recommend starting with the sub set to REF level and then calibrating your system with your AVR or surround pre-amp/processor.

F. Variable Phase

Adjusts the phase of the Ultra subwoofer with respect to the main speakers.

G. Variable Low Pass

Use this control to adjust the crossover frequency of the subwoofer.

H. LFE & Line Inputs; XLR Balanced Input

Connect the subwoofer output of your receiver, processor, or other source device to one or both of the RCA jacks, or the XLR input.

I. Direct Pass-Thru

When using XLR, you can use this jack to daisy chain to an additional sub.

J. Master Power Switch

Use this switch to turn the AC power to the Ultra-X13 subwoofer on or off. If the unit will not be used for an extended period of time, we recommend setting this switch to OFF.

Subwoofer Amp Plate Overview

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Please be aware, since the DSP is a mini computer, there are certain areas that the amp will function differently than analog circuits:

BOOT UP:

Once flipping the MASTER POWER switch, the amp will take approx. 30-45 seconds before it is ready to make a signal selection; during this time, the indicator light will flash red followed by a solid red indicator light. Signal selection and time for an actual sound present at the speaker will take another 5-10 seconds. This amount of time isn't long, but it is different than an analog circuit which will play music almost immediately after flipping the rocker switch.

SHUTDOWN:

Flipping the MASTER POWER off will start the shutdown. During this time the LED will blink. This takes approximately 20-30 seconds. The amp is muted during this time so noises are not transferred to the outputs. NOTE: if you try to flip the MASTER POWER back on during shutdown, the amp will give an error code (red/green blinking) and not turn back on. If this happens, simply flip the MASTER POWER switch back off and wait for the LED to completely stop blinking, then flip the rocker switch on to power up.

SIGNAL SELECTION:

whether the amp is in "auto" or "always on" the DSP will monitor the XLR and RCA inputs for the presence of a signal. Once detected the amp will lock on only one (XLR or RCA's). If there is signal present at both the XLR and RCA inputs, the amp will select XLR. There are 2 main differences here compared to analog: (1) approx. 5-10s to sense signal then turn on, and (2) you cannot hot swap between inputs because the amp will not look at the other input. The amp will need to be powered down, then turned back on to change inputs.

AUTO TURN-ON/OFF:

Note that this works with either XLR or RCA. The LED indicator light will be solid RED until it senses a signal, then will turn solid GREEN.

1xRCA	2xRCA	XLR
turn off >30min	>30min	>30min

ALWAYS ON:

After the amp boots up it will attempt to detect a signal at one of the inputs. During this time the LED flashes green. Once a signal is acquired, the LED will be solid GREEN and the other input will be ignored.

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THX ULTRA CERTIFIED



THX RECOMMENDED USE

Large Home Theaters or Living Rooms

THX CERTIFICATION FEATURES

Extended Bandwidth and Flat Frequency Response.

High Output, Low Distortion Design at 12 ft Listening Distance.

Conforms to THX Bass Management Requirements.

THX PERFORMANCE NOTES

Capable of THX Reference Level in a room up to 3,000 cubic feet (85 cubic meters).

THX.COM



The Outlaw Audio 30-Day Satisfaction Guarantee

This product is guaranteed to satisfy all your needs for a high quality subwoofer. If for any reason, you are not completely satisfied with it, please contact us at 866-OUTLAWS (688-5297) within 30 days of receipt of the unit and you will receive a return authorization.

The original box and packing materials are required for all returns, including returns for servicing.

If you decide to return the subwoofer, the only cost you will be responsible for is the original shipping charge at the time of purchase. When your unit arrives, we will inspect it to ensure that it was shipped back to us in original condition with all of the accessories. Upon satisfactory inspection, we will issue a credit for your original purchase price less your original outbound freight cost.

Outlaw Audio Limited Warranty

This warranty protects the owner of this Subwoofer (the PRODUCT) for three (3) years from the date of purchase.

This warranty covers all defects in material and workmanship with the following specific exceptions. These are:

- Damage caused by improper installation or adjustment
- Damage caused by accident, unreasonable use, neglect, or acts of God
- Damage from failure to follow instructions contained in this Owner's Manual
- Damage from the performance of repairs by someone not authorized by Outlaw Audio
- Any unit on which the serial number has been effaced, modified, or removed
- Damage occurring during shipment
- Units which have been altered or modified in design, appearance or construction

This warranty covers only the actual defects within the PRODUCT itself. IT DOES NOT cover any installation or removal costs, normal setup costs, claims based on any misrepresentation by the seller, or performance variations resulting from installation related circumstances such as signal quality, AC power or incompatibilities with speakers and/or other system components.

During the warranty period, Outlaw Audio will, at its option, either repair the defect, or replace the defective product, or the defective parts, or components thereof at no charge to the owner for parts and labor covered by this warranty. If necessary repairs are not covered by this warranty, or if a unit is examined which is not in need of repair, you will be charged for the repairs and/or the examination. If non-warranted repairs are needed, we will notify you of the estimated cost and ask for your authorization to perform said repairs.

You must pay the shipping charges incurred in getting your Product to Outlaw. We will pay the return shipping charges if the repairs are covered by the warranty. Please save the original shipping cartons as the unit MUST be returned in the original carton and packing. (Replacement cartons are available for purchase.)

If your product needs service, please call Outlaw Audio, LLC at: 866-OUTLAWS (688-5297).

You will need to present proof of purchase to establish warranty status. For warranty service, proof of purchase or proof of warranty transfer is required. In the event that such proof cannot be provided, non-warranty service is available, provided that the serial number label has not been altered in any manner.

In the event that you wish to return your Outlaw Product back to us, for any reason, please call to arrange for a Return Authorization Number. This will ensure that your problem is discussed with a service technician who will determine if there is a quick solution to your problem.

Outlaw Audio shall not be liable for, in any way responsible for, any incidental or consequential damages of any kind. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damages, therefore, the limitations and exclusions stated herein may not apply to you. This warranty gives you specific legal rights; and you may also have other rights which vary from state to state.

THERE ARE NO WARRANTIES GIVEN BY OUTLAW AUDIO WHICH EXTEND BEYOND THE DESCRIPTION GIVEN HEREIN. ANY IMPLIED WARRANTIES OF FITNESS FOR PURPOSE SOLD, MERCHANTABILITY, DESCRIPTION, QUALITY OR ANY OTHER MATTERS ARE LIMITED TO THE TERMS OF THE EXPRESSED LIMITED WARRANTY STATED HEREIN.

Products are sold on the basis of specifications applicable at the time of sales. Outlaw Audio shall have no obligation to modify products once they have been sold.

This warranty is applicable only in North America. For applicability in other areas, please call Outlaw Audio, LLC.

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