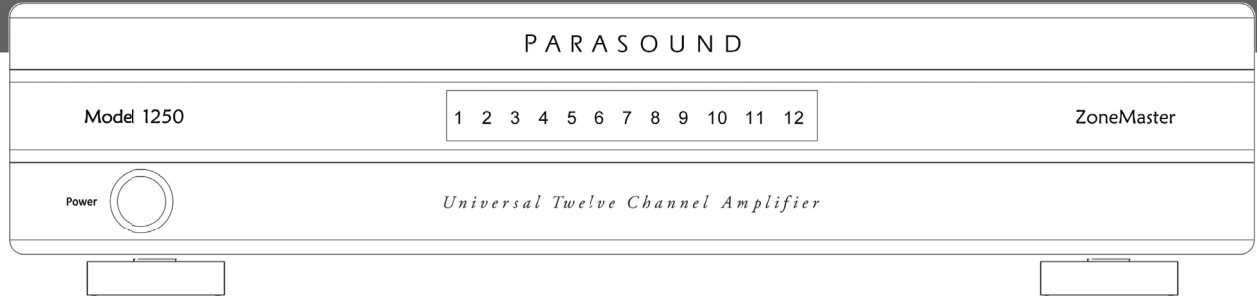


PARASOUND®



ZoneMaster™

Model 1250

Universal Twelve Channel Amplifier

OWNER'S Manual



RoHS
COMPLIANT



Important Safety Instructions

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of “dangerous voltage” inside the product that may constitute a risk of electric shock.

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 product.

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

1. **Read Instructions** — Read all the safety and operating instructions before operating this product.
2. **Retain Instructions** — Retain safety and operating instructions for future reference.
3. **Heed Warnings** — Adhere to all warnings on the product and in the operating instructions.
4. **Follow Instructions** — Follow all operating and use instructions.
5. **Cleaning** — Unplug this product from the wall outlet before cleaning. Use a damp cloth for cleaning. Clean the outside of the product only.
6. **Attachments** — Do not use attachments that are not recommended by the product manufacturer; they may be hazardous.
7. **Water and Moisture** — Do not use this product near water.
8. **Accessories** — Do not place this product on an unstable cart or stand. The product may fall, causing bodily injury and damage to the product. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart to overturn.
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.
10. **Power Sources** — Operate this product only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. This product is equipped with a three-prong grounding plug. This plug will only fit into a grounding power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
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.
12. **Lightning** — Unplug the unit from the wall outlet for added protection during a lightning storm and when it is left unattended and unused for long periods of time. This will prevent damage to the product due to lightning and power line surges.
13. **Overloading** — Do not overload wall outlets or extension cords. This can result in a fire or electric shock.
14. **Inserting Objects into Unit** — Never push objects of any kind into this product through any openings; they may touch dangerous voltage points or short out parts that could result in fire or electric shock.
15. **Servicing** — Do not attempt to repair or service this product yourself. Opening or removing covers may expose you to dangerous voltage and other hazards. Refer all servicing to qualified service personnel.
16. **Damage Requiring Service** — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: **a)** If the power-supply cord or plug is damaged. **b)** If liquid has been spilled into the product. **c)** If the product has been exposed to rain or water. **d)** If the product does not operate normally by following the operating instructions. **e)** If the product has been dropped or damaged in any way. **f)** If the product exhibits a distinct change in performance.
17. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer. Unauthorized substitutions may result in fire, electric shock, and other hazards.
18. **Safety Check** — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
19. **Wall or Ceiling Mounting** — Mount the product to a wall or ceiling only as recommended.
20. **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

INTRODUCTION

Congratulations on your purchase of this precision audio product and thank you for selecting Parasound. We are proud to offer you this versatile amplifier, knowing that it will bring you many years of enjoyment and dependable operation. Please take a few moments to read the following instructions so you can enjoy all the benefits of your new ZoneMaster 1250's advanced performance capabilities.

You can find details of the ZoneMaster 1250's specifications and advanced technology at www.parasound.com.

Enjoy.

The Parasound Staff
www.parasound.com

- ***Keep your Purchase Receipt/Dealer Invoice for future reference***
- ***Keep the carton in the event it is needed in the future***

Record the 5 digit serial number located on the bottom side of your ZoneMaster 1250 in the space below. Also note your Parasound dealer's name and telephone number. Your purchase receipt-dealer invoice is required to determine if your ZoneMaster 1250 is eligible for Parasound warranty service. We recommend that you make an extra copy of your original purchase receipt-dealer invoice and store it inside the ZoneMaster 1250's carton. If the ZoneMaster 1250 should require warranty repair you will need its original carton and foam packing inserts to ship it.

Please do not throw away the carton or foam packing inserts.

Parasound ZoneMaster 1250 Serial # _____

Parasound Dealer: _____

Parasound Dealer Phone Number: _____

Date of Purchase: _____

Important Warranty information

There is no Parasound warranty for this unit if it was not purchased from an Authorized Parasound Dealer. Investigate warranty coverage statements made by *unauthorized* dealers very carefully, as Parasound will not provide service under our warranty and you will need to depend entirely upon the unauthorized dealer for warranty service. A list of Authorized Parasound Dealers and detailed warranty information is available at www.parasound.com or you can call Parasound at **(415) 397-7100** between 8:30 am and 4 pm Pacific time.

A missing or altered serial number could indicate that this unit was re-sold by an unauthorized dealer or is stolen merchandise. If this unit is missing its serial number or the serial number has been altered, you should return it to your dealer immediately for a full refund.

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Unpacking your ZoneMaster 1250 & Placement Guidelines

Unpacking Your ZoneMaster 1250

Carefully remove your ZoneMaster 1250 from its shipping carton and locate its AC power cord and these included accessories:

- Two 12V trigger wires with mono 3.5mm to 3.5mm mini plugs at both ends.
- Left and right 2U rack mount side brackets and 8 bracket screws.
- Two different size screwdrivers, the larger one is for the speaker output connectors and the smaller one is for the speaker level input connector.

While you are unpacking your ZoneMaster 1250, inspect it thoroughly for evidence of possible shipping damage and tell your Parasound dealer immediately if you find any. If possible, save and store both the inner and outer cartons and—most especially—the foam packing inserts, to protect the ZoneMaster 1250 if you have to move it or ship it. This would be a good time to make a copy of your sales receipt for storage with the ZoneMaster 1250's original packing. **Again: Do not throw away the carton or foam packing inserts.**

Placement Guidelines

Install your ZoneMaster 1250 away from heat sources such as heating ducts, radiators, or other heat-producing components. Always position the ZoneMaster 1250 horizontally. Observe the following ventilation guidelines when installing the ZoneMaster 1250 in an equipment rack or any other enclosed space:

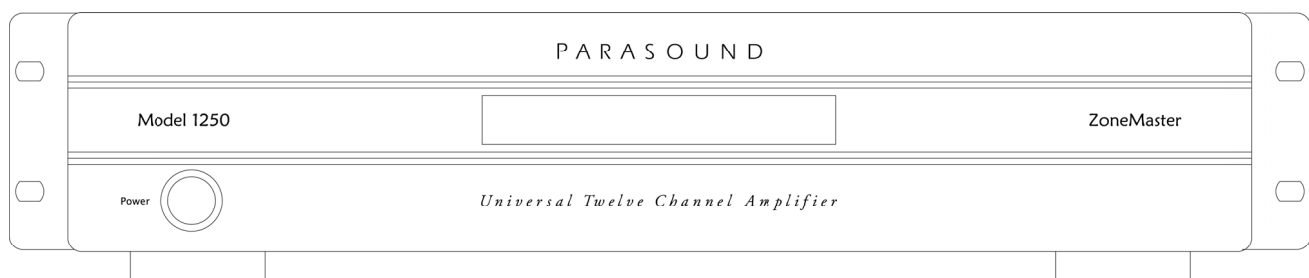
You should never install the ZoneMaster 1250 in an unventilated equipment cabinet or compartment because hot air will not exhaust adequately to prevent overheating. Even a cabinet or enclosure whose front and back sides are open doesn't guarantee that air will circulate adequately pockets of intense heat can still develop around any heat-producing equipment. Allow a few inches of empty space on each side and above the unit and try to avoid crowding or stacking the ZoneMaster 1250 tightly between other components. A ventilation fan is also recommended where other heat-producing equipment must be mounted close to the ZoneMaster 1250.

⚠ Safety Caution ⚠ The ZoneMaster 1250, as with any other high powered amplifier, could overheat if it is installed in a confined space without adequate ventilation. Continuous overheating can damage an amplifier and could ultimately pose a risk of fire.

If you are installing the ZoneMaster 1250 yourself, use input and output cables that are long enough to leave at least two feet of slack; that will enable you to pull the ZoneMaster 1250 out of a cabinet to check or to change connections without inadvertently disconnecting cables. If you're putting the ZoneMaster 1250 inside a cabinet, it needs a space that's at least 11 inches wide so you'll be able to turn it around for access to its rear panel connections.

Rack Mounting Your Parasound ZoneMaster 1250

Brackets and 8 screws for mounting in a standard 19" equipment rack are included in the box with the ZoneMaster 1250. The rack bracket "ears" attach to each side of the amplifier using the 8 screws that are packed in the bag with the brackets. First remove and discard the 8 screws that come preinstalled on the side of the amp. These are just installed for cosmetic reasons and will not be needed if the amp will be rack mounted. If you intend to run the ZoneMaster 1250 into speaker loads less than 4 ohms (or less than 8 ohms when channels are bridged) adequate ventilation should be provided. To improve air flow around the amp we recommend leaving at least 1 empty rack space above and below the amplifier. If more than two amps will be racked mounted on top of each other ("flat stacked") a properly designed forced-air ventilation system should be used.



AC Mains Voltage

BEFORE plugging in the ZoneMaster 1250's AC power cord: Check if the rear panel is marked for 115V or 230V. These markings are located below the AC line (mains) inlet.

The ZoneMaster 1250 has been set by the factory to either 115V or 230V AC mains operation. The unit can be seriously damaged if it is plugged into the incorrect AC mains voltage. The operating voltage for this model can be changed only by a qualified electronics technician.

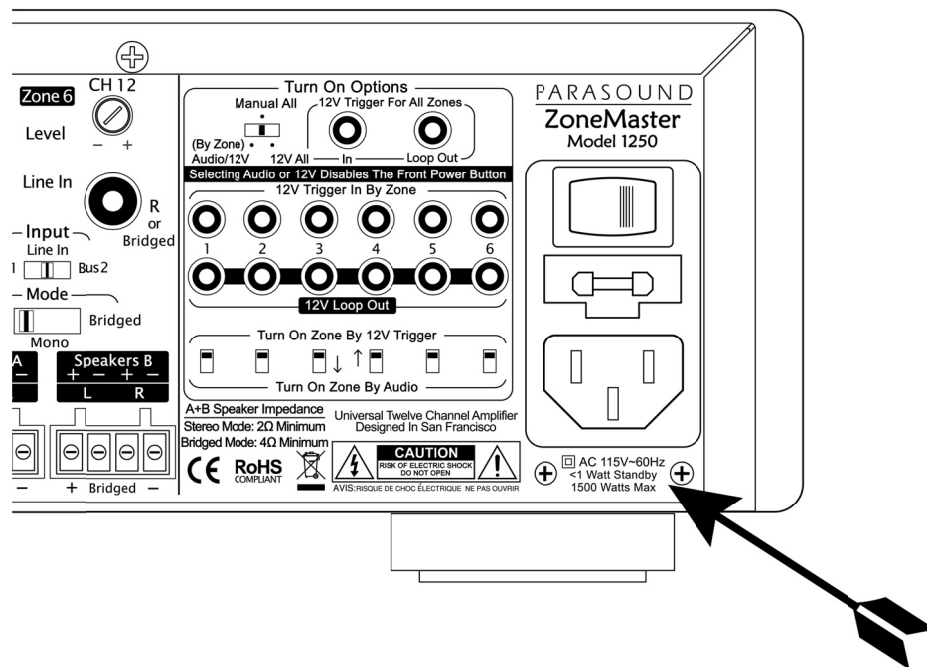
In the 115V position the ZoneMaster 1250 can safely operate with AC line voltages between 110V-120V which is correct for North America, including Mexico, as well as in Taiwan. In some countries, such as Brazil, AC voltage varies by region. Most other countries require setting this switch to 230V. With the 230V setting the ZoneMaster 1250 can operate safely with AC line voltages between 220V-240V.

If you are not certain of your local AC voltage call your dealer. The following website will also be helpful:

http://en.wikipedia.org/wiki/Mains_electricity_by_country#Voltage_ranges

Note: A ZoneMaster 1250 that has been damaged by connection to the incorrect AC voltage is not covered by the Parasound warranty.

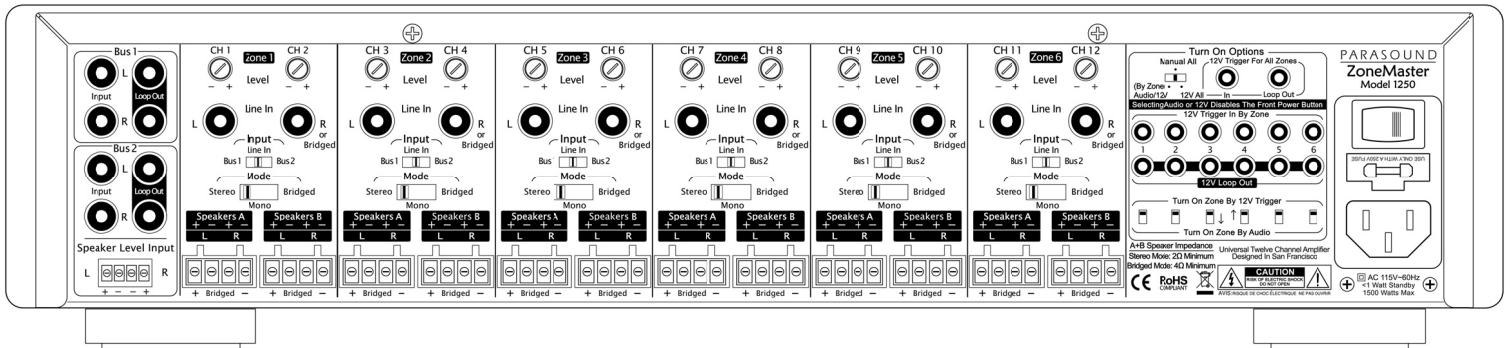
AC Voltage Marking:



Rear Panel Audio Connections

Channel pairs (left and right) are grouped into 6 zones. Typically each room or area is considered a zone but this will be determined by the system integrator.

Always disconnect the AC cord to your ZoneMaster 1250 before plugging in or unplugging any connections. Inserting or removing an interconnect cable's plug from any power amp's input jacks while this power amp is turned on can result in a burst of sound that can damage your loudspeakers. Make sure there is no strain or tension on any input cables, speaker wires DC trigger wires or the AC cord that could cause them to pull loose.



Audio Input Connections

Bus 1 and Bus 2 Input Jacks

These are standard RCA line level audio Inputs that any zone can select as its source. To select Bus 1 as the input for one or more zones set each zone's Input switch to its Bus 1 position. To select Bus 2 as the input for one or more zones set each zone's Input switch to its Bus 2 position.

Bus 2 Speaker Level Input Connector

This is an additional type of audio input that any zone can select as its source. The speaker level input enables the ZoneMaster 1250 to connect to any audio receiver or stereo system even if it lacks preamp output jacks. This is a high impedance input and the ZoneMaster 1250's speaker level input can connect to the speaker terminals on any receiver or amplifier. This will not reduce its output power or degrade the sound quality of the speakers that are already connected directly to the "host" receiver or amplifier. Audio connected to the Bus 2 Speaker Level input connector can be routed to any zone by setting each zone's Input switch to Bus 2. Speaker level audio is also converted to line level and routed to the Bus 2 Loop Out jacks which provide a line level output to drive additional amplifiers.

Note: You should connect only the Bus 2 Input jacks or the Speaker Level input connector, but not both.

Note: You can detach the speaker input connector block from the 1250 to make it easier to attach and secure the 4 speaker wires. It accepts bare wires up to AWG 16. Each wire should be twisted tightly and/or tinned with solder to prevent stray strands that could short circuit the amplifier. Since the Speaker Level input consumes a small fraction of a watt of your receiver's power output using large gauge speaker wire provides absolutely no performance advantage.

Line Input Jacks for Channels 1 through 12

These are standard line level audio Inputs for each channel. Connect these jacks to the Left and Right output jacks on your preamp, whole-house audio controller or the zone outputs of your AV receiver. Ensure that the Input switch is set to Line In for each zone that is connected this way.

Audio Output Connections

Bus 1 and 2 Loop Out Jacks

These jacks enable the audio source connected to the Bus 1 and 2 Input jacks to pass along or “daisy chain” to an additional amplifier. The volume level and signal voltage at the Bus 1 and 2 Loop Out jacks is the same as the volume level and signal voltage of the sources that are connected to their corresponding Bus 1 and 2 Input jacks. Audio from the Speaker Level Input connector is converted to line level and simultaneously routed to the Bus 2 RCA Loop Out jacks to drive additional amplifiers.

Connecting Speaker Wires

Detach the green speaker output connecting blocks by pulling them away from the ZoneMaster 1250 rear panel. This makes attaching speaker wires far more convenient. Removing them might require a bit of effort because the connecting blocks are seated very securely. Connect the connecting block's + and – terminals to the corresponding + and – speaker wires.

Note: The minimum speaker load impedance is 2 ohms in Stereo Mode or 4 ohms when Bridge Mode is selected. When driving low impedance loads ensure that the ZoneMaster 1250 has adequate ventilation and is not installed in a cabinet that is totally enclosed.

Note: The speaker connector blocks accept bare wires as large as AWG12. The ends of the wires should be twisted tightly and/or lightly tinned with solder to prevent stray wire strands from short circuiting the amplifier.

Speaker A and B Outputs

The ZoneMaster 1250 is equipped with connections for two speakers on each channel (labelled A and B). This unique feature gives system designers greater flexibility and can usually avoid the added expense, complexity, heat and power consumption of additional amplifiers. The ability of the ZoneMaster to drive two pair of speakers is credited to Parasound's 2 ohm stable high current design.

Typical applications for using both Speaker A and B outputs might include a large living room with four ceiling speakers. Another use for the B speakers could be in a subzone like a bathroom or hallway adjacent to the room where the A speakers are installed. This adjacent subzone might also use a passive in-wall volume control to adjust its listening level separately.

Speaker A and B Impedance: When you select the Stereo Mode the R and L channels are each capable of driving speaker loads as low as 2 ohms. An example of a 2 ohm load is one 4 ohm speaker connected to a channel's speaker output A while another 4 ohm speaker is connected to the same channel's speaker output B. When driving 2 ohm loads ensure the amplifier has adequate ventilation.

When you select the Bridged Mode the L and R channels are used together as one channel with higher power output. A channel pair, or zone, in bridged mode is capable of driving a 4 ohm minimum load. An example of a 4 ohm load is a single 8 ohm speaker connected to the L+ and R- output of Speaker A and another 8 ohm speaker is connected to the L+ and R- output of Speaker B. See page 9 for more information on Bridged Mode.

CONNECTION WARNING:

Never combine the Speaker L & R channel negative (-) outputs together.

Combining the negatives of any two channels could seriously damage the amplifier. Speakers cannot be wired where the L and R channel speakers share a single negative (-) wire. Some speaker selectors combine the negative connections and are not compatible with the ZoneMaster 1250.

Rear Panel Controls for Each Zone

Input Select Switch

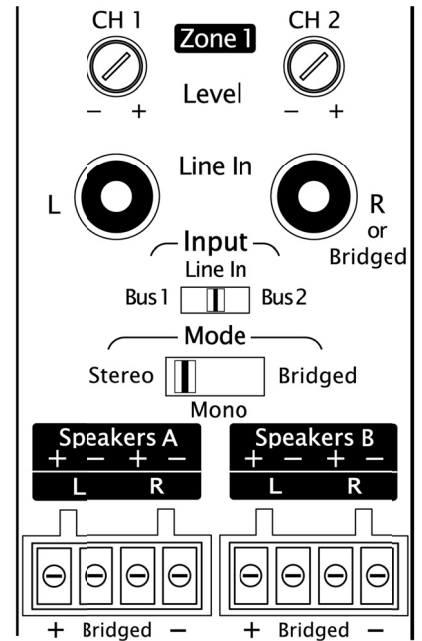
The Input Select switch selects which audio source will play in that zone.

There are three options:

Line Input: The zone will play the audio source that is connected to the zone's L and R Line Input jacks.

Bus 1 Input: The zone will play the audio source that is connected to the Bus 1 L and R Input jacks. The L and R level controls will still adjust the channel levels for the zone.

Bus 2 Input: The zone will play the audio source that is connected to either the Bus 2 L and R RCA jacks or the L and R Speaker Level input connector. The L and R level controls will still adjust the channel levels for the zone.



Mode Select Switch

The Mode select switch determines how the amplifier is utilized in that zone. The Mode select switch has the same effect whether you have selected the Line inputs or one of the Bus inputs. There are three options:

Stereo: The Stereo setting routes the Left channel input to the Left channel speaker outputs and the right channel input to the Right channel speaker outputs.

Mono: The Mono setting combines the Left and Right channel inputs into a summed L + R mono signal and routes it to both the Left and Right channel speaker outputs. In the Mono mode you can connect two mono speakers to the A output, one speaker connects to the L+ and L- and the other speaker connects to the R+ and R- terminals). An additional two mono speakers can be connected to the B output terminals. All speakers will play the same Mono signal.

The Mono Mode is particularly useful for applications such as bathrooms and hallways where mono speakers and a single speaker wire are more practical than separate L and R wires and a single one-point stereo speaker.

Bridged: The Bridged Mode setting internally reconfigures the left and right amplifier channels into a single channel amplifier with more than the twice as much power output to drive a single speaker. The bridged mode can be used to drive larger or less efficient speakers in larger spaces where more power is needed. Another application for the Bridged mode is to power a single passive subwoofer.

Note: When the Bridged Mode is selected only the R channel Input jack and Level control are used.

When connecting the speaker wires to a zone where you selected Bridged Mode you must only use the L+ and R- terminals. The L- and R+ terminals will not be used. Follow the markings on the rear panel located below the speaker terminal.

⚠ Safety Caution ⚠ Bridged Mode 4 Ohm Minimum Speaker A+B Impedance

- If you plan to connect two speakers in the bridged mode, the speakers connected to the A and B Bridged outputs must each be 8 ohms.
- Do NOT connect two speakers in the bridged mode if the speakers connected to the A and B Bridged outputs are each 4 ohms.
- Sustained high power operation in Bridged Mode driving two speakers could overheat the ZoneMaster 1250 if it is installed in a confined space without adequate ventilation. As with any high powered amplifier, continuous overheating can damage the amplifier and could ultimately pose a risk of fire.

Channel Level Controls

Each of the twelve channels has its own level control. Fully counter-clockwise is all the way off and no sound will be heard from that channel. Fully clockwise is maximum volume. We made the Level control shafts very short so they are less likely to be turned unintentionally. When installed in a rack you may find it easier to use a Phillips head screwdriver to adjust the Level controls.

Additional Uses for the Level Controls:

Passive In-Wall Volume Controls

The Level controls are particularly useful when an in-wall passive volume control is used to adjust the listening level in a room or zone. By reducing the ZoneMaster 1250's maximum output level you reduce the amount of power that is absorbed when the in-wall volume control level is turned down. This prevents the volume control from overheating or even vibrating from the stress of absorbing extra amplifier power. It avoids wasting amplifier power and reduces distortion. For a room or zone with an in-wall volume control the correct way to optimize the settings for the Level controls and the in-wall volume control is this:

1. Music should be playing.
2. Turn the ZoneMaster 1250's Level knobs for that room or zone fully counterclockwise to their minimum settings.
3. Turn the in-wall volume control knob fully clockwise to its maximum setting.,
4. Slowly turn up the ZoneMaster 1250's Level controls until the volume level in the room or zone is as high as you or the home owner might ever want it to be. This is the most appropriate setting for the Level controls because it will improve sound quality and prevent the home owner from over-driving the speakers.

Improving the Audio Trigger Turn On for Listening at Very Low Volume

You might prefer to listen to music in some zones at an extremely low volume level. The audio signal voltage at very low volume levels could fall below the threshold for the Audio trigger On-Off circuit to function and the zone will not remain on or it might continue to turn on and off every few minutes because the amp "thinks" there is no source playing. To overcome this, simply turn down **both** the L and R Level controls for that zone by the same amount. This way the Audio On-Off function will keep that zone powered on even for very low listening levels. Setting the level controls to 12 o'clock is a good place to start.

Limit Maximum Volume for a Room

By adjusting the channel level controls you can limit the maximum volume in a zone regardless of how high someone turns up the volume on the preamp or whole-house controller.

(See **Passive In-Wall Volume Controls** above)

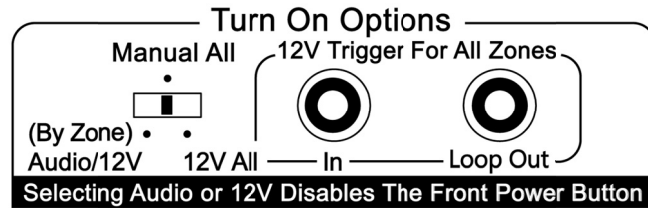
Reducing Background Hiss

If you hear hiss or other background noise you can reduce its audibility by turning down the Level controls until you no longer hear the noise.

Balance Left and Right to Compensate for Room Placement

Adjust only the left or right channel Level knob until you hear your music equally from your preferred listening location.

Turn On Options



The setting of the rear panel Turn On Options Switch determines whether all six zones turn on and off together or if each zone turns on and off individually. There are three positions for this switch:

Manual All

Pressing the Power button on the front panel will turn all six zones on and off together.

12V All

When a 12V trigger voltage is applied to the 12V Input jack marked "*Trigger For All Zones*" all six zones will turn on together. When the trigger voltage is removed all six zones will turn off together.

Note: Whenever the 12V All switch is set to 12V All the ZoneMaster 1250's front panel Power button will be disabled to prevent the amplifier from being turned on or off manually or by mistake.

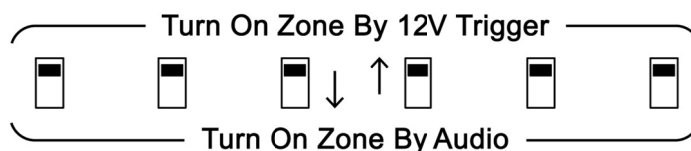
Note: The 12V turn on trigger circuit in the ZoneMaster 1250 requires a mere 5mA from the 12V trigger source.

Audio/12V By Zone

Each zone can be turned on and off individually by either an audio signal or a 12 volt trigger. The setting of the Six Zone 12V / Audio switches determines whether an individual zone is turned on and off by 12 volts or turned on and off by audio. Whenever the switch is set to "*Audio/12V By Zone*" the front panel Power button will be disabled to prevent the amplifier from being turned on or off manually or by mistake.

Note: The 12V turn on trigger circuit in the ZoneMaster 1250 requires a mere 5mA for each 12V input.

Selecting Audio Trigger or 12V Trigger by Zone



When the Turn On Options switch is set to "Audio/12V By Zone" you can set the six small 12V/Audio switches to select Audio or 12V turn on/off for each zone. For a zone that you wish to turn on and off by 12 volts, set that zone's switch to the up position labeled "Turn On Zone By 12V Trigger." For a zone you wish to turn on and off by audio, set that zone's switch to the down position labeled "Turn On Zone By Audio."

Turn On Zone by 12V Trigger

These jacks are labeled "12 Volt Trigger In By Zone 1-6." A zone will turn on only when an external 9 - 12 volts is applied to that zone's 12V Trigger Input jack. When the external trigger voltage ceases the zone will immediately turn off.

Turn On Zone by Audio

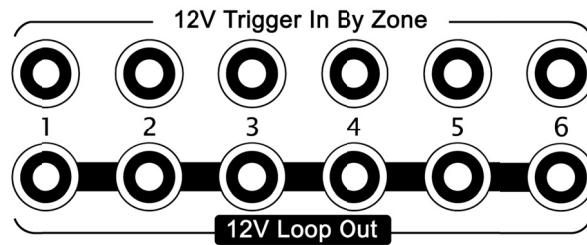
When an audio signal is present at the Left or Right input jacks of an individual zone only that zone will turn on. After the audio signal ceases the zone will remain on for about 6 minutes before shutting off. This prevents unintended turn-off during pauses in your music or movies.

Note: The audio sensing circuit functions the same way whether the zone is using the Line Input jacks, Bus 1, Bus 2 Input Jacks or the Speaker Level Input.

Audio Trigger Sensitivity: The audio trigger in the ZoneMaster 1250 is not adjustable. It is calibrated for turn on at a very low volume level (an audio signal as low as 2mV). If you need a Zone to turn on at an even lower volume level, simply turn down both Level control knobs for that zone. Start with the level controls at 12 o'clock and see if the volume level is low enough when the amp turns on.

Whenever either the 12 volt or the Audio Turn On option is selected the front panel Power button will be disabled so that turn on and off is determined solely by the 12V trigger voltage from the preamp, receiver or by an active audio signal.

12 Volt Trigger Jacks by Zone



12V In Jacks

The ZoneMaster 1250 “12V All” jack and six individual zone jacks are 3.5mm mini jacks (mono). To use a 12V trigger, insert the trigger wire plug into the jack and the plug at the wire’s other end into the AV receiver or house controller’s 12V Output jack. We have included two trigger wires with 3.5mm mini plug at both ends.

Note: If the controller’s or preamp’s 12V trigger output is a + and – terminal instead of a jack, you can cut the 3.5mm plug off one end of one of the included trigger wires and attach its bare wires to these terminals. The trigger plug tip is + (positive) and its sleeve – (negative).

Note: Each 12V input jack draws a negligible 5 mA. The total load on your preamp’s trigger output(s) is the sum of the trigger current drawn by each of the components you’ve looped together. Check the maximum capacity of your AV receiver, processor or home controller’s trigger outputs so you do not overload it by connecting too many power amplifier trigger inputs. 12V trigger outputs are typically rated for 50mA to 100mA.

12V Loop Out Jacks

The Trigger Out jacks lets you loop or daisy-chain the incoming trigger voltage from one zone to another zone or from one zone to an additional amplifier. For example, if you wish to turn on zones 1, 4 and 6 by 12V you would connect the 12V trigger source to the Zone 1 12V input jack. Then connect a trigger wire from the Zone 1 Loop Out jack to the Zone 4 12V input jack. Connect the Zone 4 Loop Out jack to the Zone 6 12V input jack.

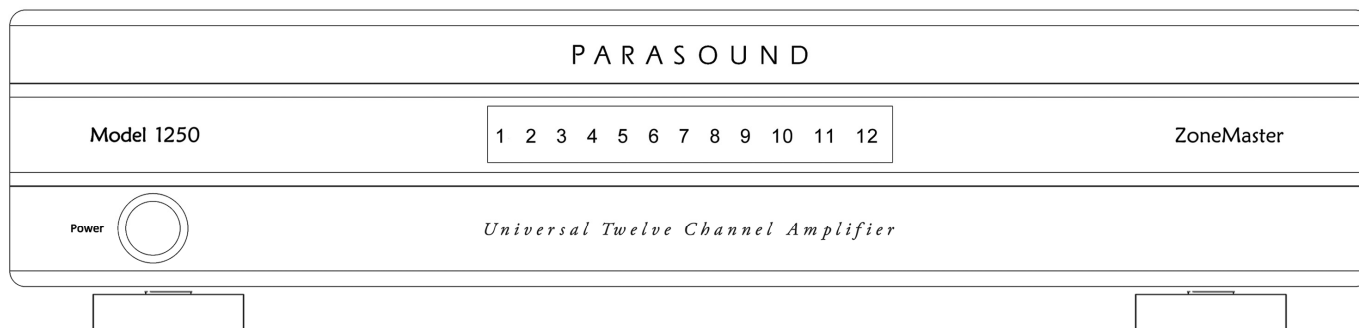
AC Line Power Cord

Connect your sources and preamplifier before you plug in the AC cord. The power cord supplied with your ZoneMaster 1250 is an IEC type AC cord. The AC ground potential can vary between your AC outlets and the result can be an audible 60Hz (or 50Hz) hum heard in your speakers. To help avoid this problem plug your ZoneMaster 1250 into the same AC wall outlet, power strip or line conditioner as all your other audio equipment.

Master AC Power Switch

The Master AC Power Switch is located just above the fuse holder in the AC power receptacle. Press the side marked 0 for off; press the side marked – for on. This switch will normally be left on but may be turned off if you will not be using the amplifier for an extended period of time.

Front Panel Power Button and Display



Power Button

Pushing the Power button turns on all channels/zones. When turned on the ring around the Power button and the 12 channel status indicators will illuminate green. Pushing the Power button again turns off all channels/zones. **If the rear panel Turn On Options switch is not set to “Manual All” the front panel power button will not operate.**

Channel Indicators (1 - 12)

The channel numbers on the front panel illuminate according to each channel's operational status. Both channel number indicators for a zone will always illuminate the same color. When a zone is turned on, both of the channel number indicators for that zone will illuminate green. When the Turn On Options switch is set to “Audio/12V By Zone” only the channel numbers for zones that are triggered on will illuminate green. For zones that are not turned on the corresponding channel pair indicators will not illuminate.

Channel indicators are illuminated by channel pairs that correspond to six zones:

Ch 1-2 = Zone 1

Ch 3-4 = Zone 2

Ch 5-6 = Zone 3

Ch 7-8 = Zone 4

Ch 9-10 = Zone 5

Ch 11-12 = Zone 6

Green: Indicates normal operation.

Red: Indicates the protection circuit has suspended operation of that channel pair to protect them from an overload or because one or both of their speaker wires are short-circuited. The indicators might also alternate flashing green and red, depending on the musical content and volume levels. This also indicates a problem. Both channel number indicators for a zone will always illuminate the same color. Causes for the front panel indicators to illuminate red are:

- The speaker outputs for one or both channels of that zone are short-circuited (negative to positive) either at the amplifier, at the speaker or somewhere along the speaker wire.
- The negative speaker terminals have been combined (negative to negative).
- Too many speakers are connected and the combined impedance is below 2 ohms.
- The unit has overheated.
- The AC line voltage has exceeded the maximum allowed (132V when set for 115V or 264V when set for 230v, depending on your region's mains voltage).
- The amplifier has been damaged.

Checking for Short Circuits on the Speaker Outputs

If your ZoneMaster 1250's front panel indicators are illuminated red or alternate illumination between green and red this indicates a problem. Your first step is to immediately turn off the amp with its master AC power switch (above the AC cord inlet). The most likely cause will be a shorted circuited speaker connection. To check for this type of fault temporarily unplug both of the zone's two green speaker connecting blocks (A and B). Now turn the amp back on and play music. If the front panel lights now illuminate green then you've eliminated the amp as the source of the problem. Please check your speaker wires and attached speakers for short circuits.

Frequently Asked Questions

The Unit will not turn on

- Check the setting of the Turn On Options switch (The front panel Power button will be disabled if the switch is set to Audio or 12V).
- Check that the AC power is live.
- Check that the master AC power switch is in the “– “(on) position.

When using the audio trigger a zone is turning off during quiet listening

- Turn down the Level controls for those channels (12 O'clock is a good place to start).
- See page 10 for details.

When using the audio trigger a zone never turns off

- The audio trigger circuit waits for up to 10 minutes before shutting the zone off. Try waiting at least 10 minutes after stopping the audio source.
- Ensure that the Turn On Option switch is set to the “Audio/12V By Zone” position.
- If the zone still will not turn off then you may have too much noise (hiss or hum) in the audio signal path. You must eliminate the source or cause of this noise. If you are unable to do this you will have to resort to using the 12V triggers.

Front panel channel indicators are red or flashing green and red

- Check speakers and speaker wires for short circuits.
- Ensure that you have not combined the negative (-) terminals of any of the speaker outputs.
- You may have attached a total speaker load that is below the 2 ohm minimum in Stereo Mode or the 4 ohm minimum in Bridged Mode. The total speaker load for that channel is the combined parallel impedance of the A and B output of one channel. If two 8 ohm speakers are attached the channel “sees” only 4 ohms. If two 4 ohm speakers are attached the channel “sees” only 2 ohms.
- The zone may have overheated and will not resume operation until it cools down. Ensure that you have provided adequate ventilation especially when driving low impedance loads.
- See page 14 for details.

Why is there no sound from my speakers?

- Are the channel lights illuminated green on the front panel indicating that the zone is turned on?
- Check that input and output cables are plugged in all the way at both ends.
- Are your preamplifiers and all power amplifiers turned on?
- Is the correct input selected on the preamplifier?
- Is there an audio source playing (CD player, Tuner, etc.).

I can hear a hum or buzzing noise from my speakers

- Cable TV is the most common source of hum or buzzing noise in a system. If you have a cable TV box connected to your audio system temporarily remove the incoming cable from the Cable TV box. If the hum goes away the problem is with the cable TV ground. You will need a Cable TV Ground Loop Isolator which is an inexpensive device that attaches between your incoming cable and the Cable TV box.
- Light dimmers can cause noise in your audio. Try turning lights that are controlled by dimmers all the way off. If the hum goes away the problem is electrical noise the dimmers introduce into your home's AC power.
- Ground Loops are also a common cause of hum and buzzing noise. Finding a ground loop is a process of elimination. Unplug your source components one at a time. When the hum goes away you've identified the source of the ground loop. You might be able to stop the hum by attaching a wire from the chassis of the offending component to the chassis or ground screw of your preamplifier.

Maintaining Your ZoneMaster 1250

Your ZoneMaster 1250 requires no periodic maintenance and has no user serviceable parts inside. To avoid risk of electric shock do not remove the top cover. To keep it clean use only a soft cloth moistened with a few drops of clear water or window cleaner. Never use any solvents or abrasives.

Are You Having Difficulty?

Warranty Repair

Call your Parasound dealer first. If the dealer can't help you with your problem we encourage you to call Parasound's Technical Service Department at **415-397-7100**, Monday - Friday, 8am - 4pm Pacific time. We can suggest other diagnostic tests you can easily perform. If we determine that your ZoneMaster 1250 should be returned to Parasound or an Authorized Parasound Warranty Center for inspection and possible servicing, we will provide the location of a warranty center near you or shipping instructions for the unit's return to Parasound. Read your accompanying Parasound Limited Warranty carefully to understand the applicable rights and limitations. This section provides instructions for obtaining repairs, both for units covered under the Parasound Limited Warranty and for units or situations which are outside the Warranty.

Unit is not eligible for repair under the terms of the Parasound warranty if:

1. Unit was not purchased from a Parasound Authorized Dealer.
2. You do not have the original bill of sale or sales receipt from a Parasound Authorized Dealer.
3. You are not the original owner. The Parasound warranty is not transferable.
4. Unit's serial number was removed, modified, or defaced.
5. Unit shows evidence of abuse and/or misuse.
6. Unit was modified in any way.
7. A prior repair was attempted by an unauthorized repair station.

Before You Return Any Unit to Parasound for Service

Before you send your unit to Parasound, you will need to obtain a specific Return Authorization (RA) number and shipping instructions from Parasound's Technical Department. The RA number must be clearly marked on the outer carton. Use the original factory packing materials and arrange adequate insurance to cover its replacement value. You must include a copy of your purchase receipt, since this document establishes the validity of this unit's warranty. Warranty repairs are only performed by Parasound or Parasound Authorized warranty centers when your purchase receipt is from a Parasound Authorized Dealer or Parasound Authorized Reseller.

Do not ship to Parasound by the USPS (US Postal Service) - we will not accept delivery. We will also refuse delivery of units whose cartons show evidence of damage caused by inadequate packing.

Specifications and Details

Power Output – RMS, All Channels Driven (20 Hz - 20 kHz)

50 watts x 12 @ 8Ω
90 watts x 12 @ 4Ω or 2Ω
160 watts x 6 @ 8Ω (Bridged Mode)
200 watts x 6 @ 4Ω (Bridged Mode)

Minimum Speaker Impedance – A+B Outputs of a Single Channel

Stereo Mode: 2 Ω
Bridge Mode: 4 Ω

Note: Continuous operation at these minimum impedances might require additional ventilation for the amplifier.

Frequency Response

10 Hz - 60 kHz, +0/-3 dB

Total Harmonic Distortion

< 0.05 % at typical listening levels
< 1.0% at full power

Interchannel Crosstalk

70 dB at 20 kHz

Input Sensitivity:

700mv = Full output (50 Watts @ 8 Ω)
Total gain = 29 dB (Level controls set to Maximum)

S/N Ratio

> 112 dB, input shorted, IHF A-weighted

DC Trigger Requirements

+9 Vdc to +12 Vdc, 5 mA

Audio Trigger Requirements

2 mV audio signal

AC Power Requirement:

1500 Watts maximum
100 Watts typical
38 Watts idle (all zones on)
12 Watts idle (one zone on)
0.5 Watts standby
110-130 VAC 60 Hz or 220-255 VAC 50 Hz

Note: AC mains voltage must be set only by a qualified electronics technician.

Dimensions:

Width: 17.25" (437 mm)
Depth: 14.5" (369 mm)
Height, with feet: 4.15" (105 mm)
Height, without feet: 3.5" (89 mm)

Weight:

Net: 17 lbs (7.7kg)
Shipping: 23 lbs (10.4kg)

We invite you to visit www.parasound.com for the most up-to-date information on your unit and to find out about other Parasound products. Learn why Parasound has been a quality and value favorite of magazine reviewers, sound professionals and listeners like you since we were founded in 1981.

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