a sound relationship

Russound



P100BT/P200BT AMPLIFIERS

Dual-Source Stereo Power Amplifiers

Designed for adding additional rooms of audio, with easily customizable features. This includes an integrated volume and balance control, dual source capability and the ability to drive multiple pairs of speakers.

INSTALLATION GUIDE

Download the Latest Manual

Russound.com/ PSeries-manual

OVERVIEW

Since 1967, Russound has been dedicated to providing premium audio components and accessories designed for improving the quality of life of its customers. From amplifiers to speakers to advanced control systems that make it easy for anyone to listen to their favorite music, movies, podcasts, or any audio content. The P100BT/P200BT from Russound add high-power amplification in an elegant design with easy-to-use front panel controls perfect for locating in any area of the home or for installation in an equipment rack.

WHAT'S IN THE BOX

1 Russound P-Series Amplifier
1 Bluetooth Antenna
1 6-foot Power Cord
1 Set of Rack Mount Ears with Mounting Screws
(Rack Mount Screws Not Included)

WHAT YOU NEED FOR THE INSTALLATION

#2 Philips Screwdriver for attaching the included rack mount ears (Optional)
Wire Strippers

AUTOMATIC SOURCE SWITCHING

The P100BT/P200BT uses a powerful auto-detect feature to allow for the easy use of 2 different audio sources that can switch automatically in addition to its built-in Bluetooth™ source. This is designed for applications where there is a default source that is the primary audio source used almost all of the time and a second "interrupting" source that is turned on occasionally and takes priority whenever it is used. For example, a streaming audio box is normally used as the source but occasionally using a secondary source such as a turntable or CD player is desired. By connecting the streaming audio box to the "Default" connection on the P100BT/P200BT amplifier and the other audio source to the "Interrupting" connection, the P100BT/P200BT will play the streaming audio and automatically switch to the other source when it detects the audio signal being used. The P100BT/P200BT amplifier will switch back to the streaming audio box source a few seconds after the other audio source is no longer present.

DUAL SPEAKER OUTPUTS

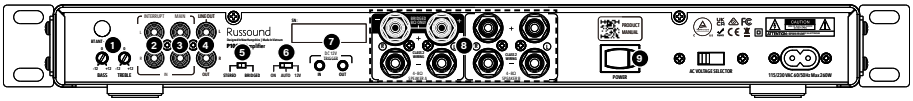
The P100BT/P200BT amplifiers support up to two distinct speaker outputs, labeled as Speakers A and B. This allows the amplifier to be easily used as a basic multi-room amplifier. For example, with a pair of speakers in the Living Room that are used all of the time and a second pair of speakers on the Patio that are used only when entertaining outdoors. With the Dual Speaker Outputs of the P100BT/P200BT, it's possible to connect the Living Room speakers to the "Speaker A" connection and either pair of speakers to the "Speaker B" connection and the Patio speakers can be turned on and controlled easily from the front panel controls of the amplifier.

MAKING THE CONNECTIONS

Note: All wiring connections must be made with the system powered off and the power cord disconnected from the electrical mains (unplugged from the wall outlet).

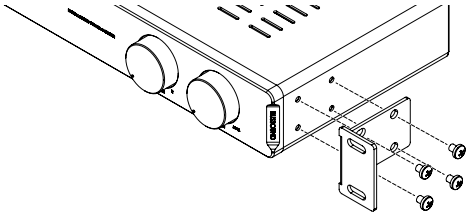
The P100BT/P200BT Power Amplifier is very easy to install and only requires three connections: audio source(s), loudspeakers, and power.

The amplifier may be placed on a shelf or installed into an equipment rack using the rack ears included within the box.



1. Bass/Treble Adjustments – Convenient audio adjustments up to +/- 12dB, with a handy detent at flat (0 dB)
2. Interrupting Input – RCA Stereo Analog Input for the audio source that will take priority when an audio signal is detected
3. Main Input – RCA Stereo Analog input for the default audio source
4. Line Out – RCA Stereo Analog Loop Out for connecting an additional amplifier. This output is a line-level output of the currently playing audio on the amplifier.
5. Stereo/Bridged – Use this slide switch to enable "Bridged" mode for extra amplifier power where needed in a mono output. Make sure to connect your speaker(s) properly for both Bridged and Stereo Modes
6. Turn-On Mode Switch – Select between "Always On", Auto (Signal Sensing) or 12V to use the 12V trigger input to activate the amplifier
7. 12V Trigger In/Out – To use the 12V Trigger Input to activate the amplifier as needed, make sure the Turn-On Mode Switch is set to 12V. The 12V Trigger Out will be active whenever the amplifier is active.
8. Speaker Outputs – Nickel Plated 5-Way Binding Posts – Connect your speaker(s) properly for either Bridged or Stereo Mode. For Stereo Mode, there is a 4-ohm minimum impedance, and for Bridged Mode, there is an 8-ohm minimum impedance requirement. If using Stereo Mode, up to 2 pairs of 8-ohm speakers may be used, 1 for Speaker Output A and 1 for Speaker Output B
9. Power Switch – Use to turn on/off the amplifier. When switched to the Off position, the amplifier consumes no electricity and is fully powered off

RACK MOUNTING



When installed in a rack, the four mounting feet on the bottom of the chassis may be removed if needed. Save the feet in case the amplifier is ever moved back to a shelf-mounted type of installation so that they may be re-attached. Do not use the amplifier on a shelf or other surface without the mounting feet being installed. They help provide ventilation space at the bottom of the amplifier.

The P100BT/P200BT is 1U rack height. One empty rack space should be left above and below the amplifier to allow adequate ventilation.

CONNECTING AUDIO SOURCES

There are two input source connections on your Russound P100BT/P200BT amplifier: **Default Input & Interrupting Input**

MAIN INPUT

This is the primary connection for any audio source. If you are only using a single audio source, connect it to the Main Input connection.

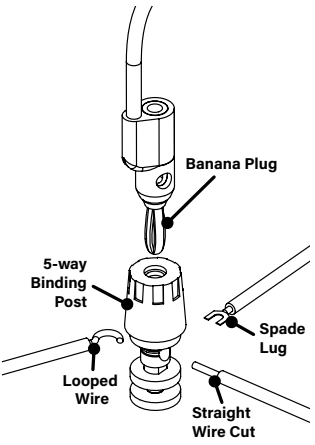
INTERRUPTING INPUT

The Interrupting Input is only used when connecting a second audio source to the P100BT/P200BT amplifier. The "Interrupting" source will interrupt the main source and become the active audio source of the amplifier whenever it has an active audio signal. A few seconds after the "Interrupting" audio signal stops, the amplifier will automatically switch the input back to the "Main" input.

For all input source connections, use high-quality RCA cables and make sure all cables are fully attached and secured to the input source and to the amplifier.

CONNECTING LOUDSPEAKERS

Loudspeaker connections should always be made with the electrical power removed from the P100BT/P200BT amplifier. Simply disconnect the power cord while wiring connections are being made and re-connect the power cord when finished.



Loudspeakers will always connect directly to the P100BT/P200BT amplifiers unless a separate impedance matching volume control, speaker selector or similar device is required (all sold separately). CL2 rated wire must be used when running wire within a home's walls. The loudspeaker connectors are designed to use up to 12ga wire. The 5-way binding posts allow for the use of straight wire, looped wire, spade lugs, speaker pins, or banana plugs as shown.

When connecting the loudspeaker wires, be sure to observe proper polarity. The positive and negative terminals on the amplifier must correspond with the positive and negative terminals at both the left and right loudspeakers. This is also true of the connections at the loudspeaker side of the connection. Make sure that all connectors are tight and that there are no loose strands.

Speakers may be connected to the Speaker A or Speaker B connections. If using a single set of speakers, we recommend using Speaker A connections. Make sure the polarity and left/right connections are made properly.

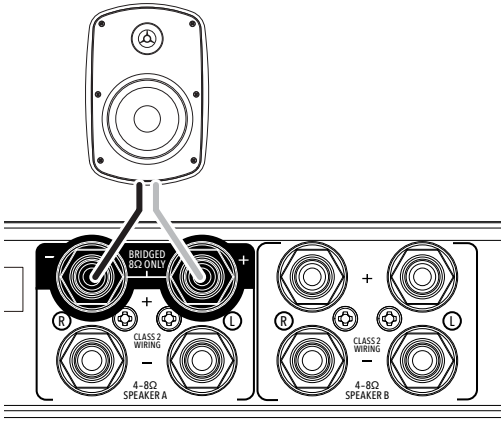
Both Speaker A and B outputs are stable to 4 ohms, which means that up to 2 pairs of 8 ohm speakers may be connected to each. Do not use multiple pairs of 6 ohm or 4 ohm speakers so that the total impedance of the connected speakers does not drop below 4 ohms.

BRIDGING LOUDSPEAKER CONNECTIONS (BRIDGED MODE)

Please note that all wiring changes and changes to the settings switches on the rear of the P100BT/P200BT amplifier should be done with the amplifier powered off by removing the power cord from the rear of the amplifier.

The amplifier includes a powerful feature called “Bridging”. Bridging combines 2 output channels to form a single, higher power mono output. It is perfect for larger spaces, and especially for any outdoor audio zones where higher power is required. When using bridging, an 8 ohm speaker connection is required. When bridged, only Speaker Output A is used. Speaker Output B will be disabled and not able to be selected from the front panel.

The wiring method for bridged connections is different from that of normal stereo pairs of loudspeakers. When bridging, only the top connectors of the Speaker A output are utilized. The negative conductor of your loudspeaker wire will connect to the top left-most position on the Speaker A connection, and the positive conductor will connect to the top right-most position as indicated and shown below.



Please make sure to verify the polarity of the wiring, matching the amplifier connection to the loudspeaker connection.

Once the loudspeaker wiring has been configured and before powering on the amplifier, set the “Stereo/Bridged” slide switch to the right for “Bridged” operation.

POWER CONNECTION

Once the source and loudspeaker connections have been made and the stereo/bridged mode setting made, you can connect the power cable to the rear of the amplifier.

BASS/TREBLE ADJUSTMENTS

The P100BT/P200BT amplifiers have a convenient audio output adjustment on the rear panel, allowing for +/- 12dB changes to both the bass and treble. Using a flat-bladed mini-screwdriver, adjust the bass and treble switches to the desired position. Please note that the Flat "0" setting without any adjustment is the vertical position of the switch as marked.

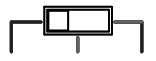
TRIGGER IN/OUT

The 12VDC Trigger Input is used to turn on the amplifier, toggling between standby mode when no 12V signal is present and On mode when a 12V signal is present. This is very helpful for audio sources that have a low output signal or where discrete, dedicated control of the amplifier status is required.

The 12VDC Trigger Output is activated when the amplifier is active. This includes when a 12VDC input signal is present in 12V mode, when the unit turn-on mode is set to "On", and when the unit turn-on mode is set to "Auto" and an input signal is present.

TURN ON MODE

The P100BT/P200BT amplifiers have three turn-on modes:



ON – The amplifier is always on and ready to be used. The amplifier consumes more electricity in this mode.

12V – The amplifier will turn on whenever a 12VDC signal (~100mA) is detected at the 12V trigger "In" connection. When no 12V signal is present, the amplifier will enter standby mode after a delay of approximately 1 second and will then consume less than 0.5W of electricity.

AUTO – The amplifier will automatically detect an input signal for either input and will turn on when needed. When no signal is detected, the amplifier will enter standby mode after a delay of approximately 10 minutes. When in

standby mode, it will consume less than 0.5W of electricity.

Russound recommends using the amplifier in AUTO mode to reduce electricity consumption.

REAR PANEL POWER SWITCH

The rear panel power switch is a “vacation mode” type of switch which allows the amplifier to shut down completely and consume no electricity. The front panel switches, including the front panel power switch will be inoperable if the rear panel switch is turned off.

LINE OUT

The P100BT/P200BT amplifier’s audio can be extended to an additional amplifier(s) for use with larger rooms or spaces. Simply connect a stereo RCA cable to the Line Out connection on the rear of the amplifier and connect to a second amplifier as desired. Please note that this signal is not buffered so a maximum of 3 daisy-chained connected amplifiers could be used. The audio output will match the currently playing audio output of the P100BT/P200BT, including any active Bluetooth audio content.

AC VOLTAGE SWITCH

The AC Voltage Switch should not normally require any adjustment unless the amplifier is transported to a country or area with a different voltage power system.

The AC Voltage Switch should only be adjusted with the amplifier disconnected from the electrical mains (the power cord disconnected). For 230V operation, slide the switch to the 230V position. For 115V operation, slide the switch to the 115V position.

FRONT PANEL POWER BUTTON

The Front Panel Power Button will toggle between “On” and “Off” modes. It can be used to easily turn the unit off and on. It is also used to enter Bluetooth Pairing Mode by pressing and holding the button for a few seconds until the status LED begins blinking in blue.

USING BLUETOOTH

To pair a Bluetooth device with the P100BT/P200BT, press and hold the front-panel power button for a few seconds until the LED begins blinking blue to enter Pairing Mode.

Use your phone or tablet to search for a device named “P100BT” or “P200BT”, then complete the pairing process.

Once paired, you can stream Bluetooth audio to your connected loudspeakers. The maximum output level is determined by the front-panel volume control knob.

SPEAKER SELECTION

There are two buttons labeled “A” and “B” for selecting the active speaker output. You can toggle either or both speaker connections on and off with the convenient front panel button. Please note that if the amplifier is in Bridged Mode, Speaker Output B will be disabled.

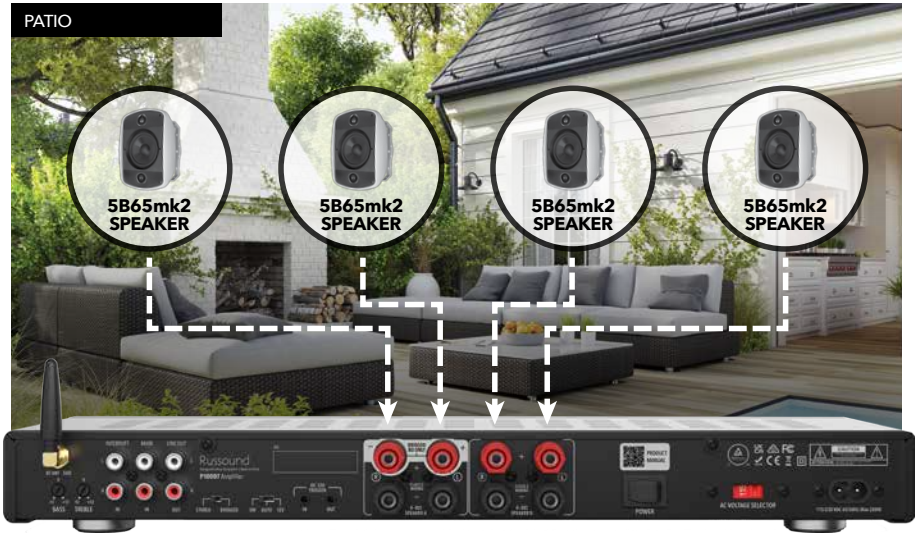
BALANCE CONTROL

The front panel balance control allows a convenient adjustment of the audio balance between left and right speakers. For example, a typical application for this is where the listening position is closer to one speaker than to the other. Using the balance adjustment allows for the signal to be adjusted so that the listener hears both channels equally.

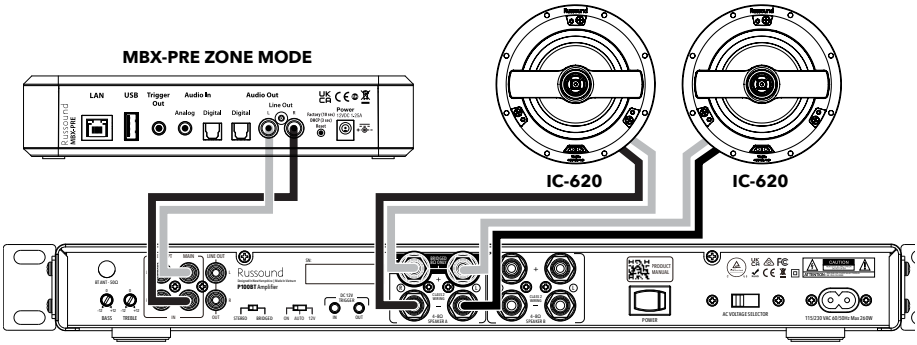
VOLUME CONTROL

The front-panel volume control adjusts the output level for the selected speakers. If both Speaker A and Speaker B are connected, they share the same volume control and cannot be adjusted independently. Avoid setting the volume too high, as clipping or distortion can damage your loudspeakers. If distortion occurs, reduce the volume immediately.

LARGE OUTDOOR SYSTEM WITH THE P100BT/P200BT



EASY FULL STREAMING AUDIO SYSTEM



SPECIFICATIONS

DESCRIPTION	P100BT	P200BT
Number of Channels	2	2
Bridgeable	Yes	Yes
Minimum Impendence	4 ohm (stereo) 8 ohm (bridged)	4 ohm (stereo) 8 ohm (bridged)
4 ohm	100W /Channel, 1kHz Stereo Driven	200W /Channel, 1kHz Stereo Driven
8 ohm	60W /Channel, 1kHz Stereo Driven	100W /Channel, 1kHz Stereo Driven
8 ohm - Bridged	200W, 1kHz	400W, 1kHz
4 ohm, One Zone	Input Sensitivity: 690 mV for 100W @ 1kHz	Input Sensitivity: 770 mV for 200w @ 1kHz
8 ohm, One Zone	Input Sensitivity: 750 mV for 60W @ 1kHz	Input Sensitivity: 760 mV for 100w @ 1kHz
Input Impedance	>22k ohms Line Input	>22k ohms Line Input
Signal to Noise Ratio	>90dB A-weighted	>95dB A-weighted
Trigger Input	12VDC	12VDC
Trigger Output	12VDC	12VDC
Line Inputs	Primary Source & Interrupting Source	Primary Source & Interrupting Source
Speaker Connectors	5-way binding posts	5-way binding posts
Operating Temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Altitude	0 to 9,843' (3,000m)	0 to 9,843' (3,000m)
North American Model	T5A 250VAC	T8A 250VAC
International Model (-i)	T5A 250VAC	T5A 250VAC
Power Connector	IEC C8	IEC C14
Standby Power Consumption	<0.5W	<0.5W
Product Dimensions	17.13"(W) x 1.75"(H) x 6.54"(D) (43.5 x 4.4 x 16.6 cm)	117.13"(W) x 1.75"(H) x 10.47"(D) (43.5 x 4.4 x 26.6 cm)
Product Weight	5.51 lbs (2.5kg)	8.8 lbs (4 kg)
Shipping Dimensions	20.67''(W) x 5.83''(H) x 10.63''(D) (52.5 x 14.8 x 27 cm)	20.67"(W) x 5.83" (H) x 14.57"(D) (52.5 x 14.8x 37 cm)
Shipping Weight	P100BT shipping weight: 9.1 lbs (4.1kg)	P200BT shipping weight: 12.94 lbs (5.87kg)
Limited Warranty	2 Years	2 Years



	WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED 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 equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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 in the operating instructions should be adhered to.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus. Do not touch the appliance with wet hands. Do not handle the appliance or power cord with wet or damp hands. If water or any other liquid enters the appliance cabinet, take it to qualified service personnel for inspection.
6. Cleaning - The appliance should be cleaned only as recommended by the manufacturer. From time to time you should wipe off the front and side panels and the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.

7. 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. Place the unit in a well-ventilated location, leaving at least 2 inches (5 cm) of clearance on all sides, top and rear of unit for air flow. If ventilation is blocked, the unit may overheat and malfunction.
8. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers+6) that produce heat.
9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
10. 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, receptacles, and the point where they exit from the appliance.
11. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
12. Main Power Disconnect - The main power plug is used as the disconnect device and shall remain readily operable. When installing the product, ensure that the plug is easily accessible.
13. Non-Use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
14. Attachments - Only use attachments/accessories specified by the manufacturer.
15. Location of the Amplifier - Do not mount this unit under a kitchen cabinet. Do not expose the amplifier to direct sunlight or heating units as the amplifier internal components' temperature may rise and shorten the life of the components.
16. Avoid damp and dusty places.
17. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
18. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. Damage Requiring Service - The appliance should be serviced by qualified service personnel when: A. The power supply cord or the plug has been damaged; B. Objects have fallen, liquid has been spilled into the appliance; C. The appliance has been exposed to rain; or D. The appliance does not appear to operate normally; or E. The appliance has been dropped or the enclosure is damaged.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC WARNING

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence- exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

French: Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas causer d'interférences.
2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un fonctionnement indésirable de l'appareil.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

LIMITED WARRANTY

The Russound P100BT/P200BT is guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases, the repair will be made at the owner's expense. Accidental damage and shipping damage are not considered defects under the terms of the warranty. To return for repairs, the unit must be shipped to a repair facility designated by Russound at the owner's expense, along with a Return Authorization number and documentation explaining the nature of the service required. Any product returned without prior written permission will be returned to sender. Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

WARRANTY ADDRESS

Russound
Attn: RA# (Insert your RA number here)
1955 Wehrle Dr
Williamsville NY 14221

email: tech@russound.com

a sound relationship

Russound

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