



ENTRA[®] POINT FIVE HTS

Owner's Guide



IMPORTANT SAFETY PRECAUTIONS

Read First!

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To prevent electric shock, do not remove the grounding plug on the power cord, or use any plug or extension cord that does not have a grounding plug provided. Make certain that the AC outlet is properly grounded. Do not use an adapter plug with this product.

 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.

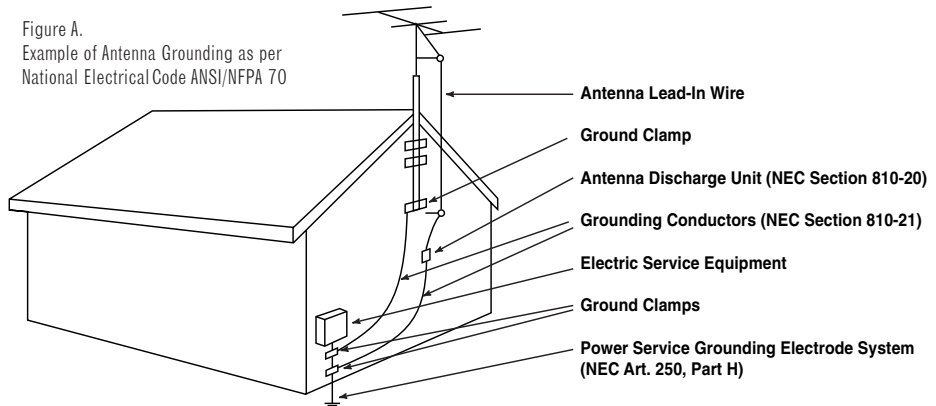
 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- 1. Read Instructions.** All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions.** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings.** All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions.** All operating and use instructions should be followed.
- 5. Cleaning.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments.** Do not use attachments not recommended by the product manufacturer, as they may cause hazards.
- 7. Water and Moisture.** To reduce the risk of fire or electric shock, do not use this product outdoors or near water—for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; near a swimming pool; or the like.
- 8. Accessories.** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9. A Product and Cart Combination Should Be Moved with Care.** Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
- 10. Ventilation.** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or



- rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11. Power Sources.** This product 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 supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
 - 12. Grounding or Polarization.** This product may be equipped with a polarized alternating-current-line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
 - 13. Power-Cord Protection.** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
 - 14. Nonuse Periods.** The power cord of the product should be unplugged from the outlet when left unused for long periods of time.
 - 15. Outdoor Antenna Grounding.** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
 - 16. Lightning.** For added protection for this product 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 product due to lightning and power-line surges.
 - 17. Power Lines.** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be

- taken to keep from touching such power lines or circuits, as contact with them might be fatal.
- 18. Overloading.** Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.
 - 19. Object and Liquid Entry.** Never push objects of any kind into this product 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 product.
 - 20. Servicing.** Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 - 21. Damage Requiring Service.** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. The power-supply cord or the plug has been damaged; or
 - b. Objects have fallen onto, or liquid has been spilled into, the product; or
 - c. The product has been exposed to rain or water; or
 - d. The product does not operate normally when 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 a qualified technician to restore the product to its normal operation; or
 - e. The product has been dropped or damaged in any way; or
 - f. The product exhibits a distinct change in performance; this indicates a need for service.
 - 22. Replacement Parts.** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
 - 23. 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.
 - 24. Wall or Ceiling Mounting.** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
 - 25. Heat.** The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.



ENTRA POINT FIVE HTS OWNER'S GUIDE

Table of Contents

ii	Important Safety Precautions
1	Introduction
1	Unpacking the System
1	Planning Your System
2	Placement
2	Wall-Mounting the Satellites
3	Center and Satellite Speaker Connections
4	Subwoofer Controls
5	Subwoofer Connections
6	Operation
6	Maintenance and Service
8	Specifications

INTRODUCTION

Infinity Entra Series

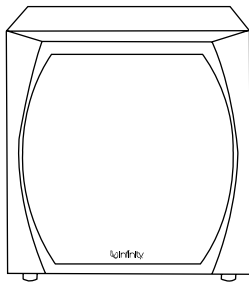
The Entra Series of loudspeakers continues Infinity's longstanding commitment to accurate sound reproduction. Our proprietary Ceramic Metal Matrix Diaphragm™ (C.M.M.D.™) drivers, precision dividing networks and rigid, well-braced enclosures combine to deliver uncompromised performance in any stereo or multichannel home theater system. In addition, Entra Series speakers, except for the powered subwoofer, are magnetically shielded for safe placement adjacent to a television.

Unpacking the System

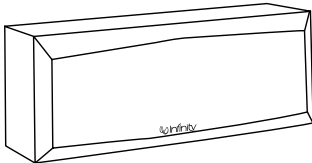
Carefully unpack the system. If you suspect damage from transit, report it immediately to your dealer and/or delivery service. Keep the shipping carton and packing materials for future use. Open the package and verify the following contents:

- Warranty Statement

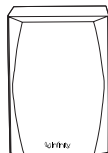
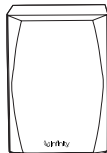
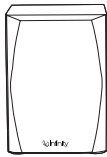
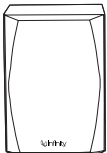
(1) Entra Sub



(1) A/C Power Cord



(1) Entra Center



(4) Entra Point Five Satellite Speakers

(16) Rubber Feet



PLANNING YOUR SYSTEM

Before deciding where to best place your speakers, survey your room and study Figures 1 and 2.

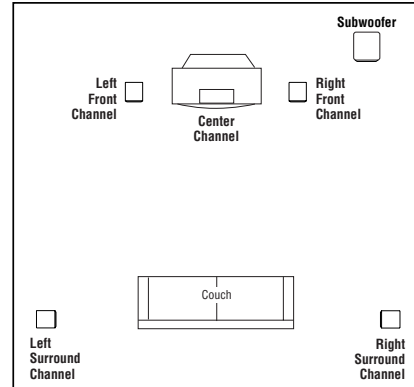


Figure 1. In this overhead view of a typical installation, satellite speakers are used to reproduce sound for the front and surround channels. The center channel reproduces sound and dialogue. The powered subwoofer provides bass for effects and music.

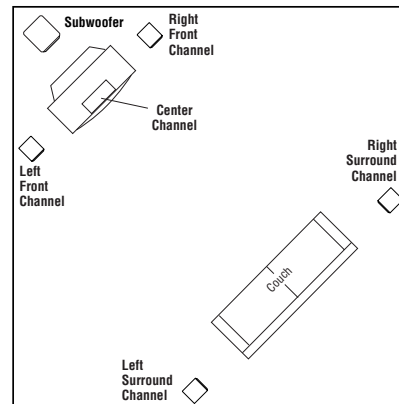


Figure 2. This figure shows an alternative layout which may be more suitable for some rooms.

PLACEMENT

NOTE: The satellite speakers can be placed directly on a shelf, or mounted on a wall using the built-in keyhole mount or optional wall brackets.

Left and Right Front Channels

For left and right front channels, place one satellite to the left and another to the right of the television, as shown in Figure 1. Since the speakers are magnetically shielded, you can place them very close to the TV without worrying about the magnetic field distorting the picture.

Center Channel

For the center channel, place the speaker directly on top of, or below, your television. Use a shelf if the television does not provide a stable platform.

Surround Channels

For left and right surround channels, place one speaker on the left and another on the right, to the side of or slightly behind the listening area. The surround speakers should be mounted at a height of between 4 feet and 7 feet.

Subwoofer

Since the installation of a subwoofer can be somewhat more complicated than installing full-range speakers, it is essential that you read this section very carefully prior to connecting the subwoofer to your system. Should you have questions relating to installation, it is advisable to call either your dealer or Infinity's Customer Service Department for advice.

The performance of the subwoofer is directly related to its placement in the listening room and how you align the subwoofer with the satellite speakers. Setting the volume of the subwoofer in relation to the left and right speakers is also of critical importance because it is essential that the subwoofer integrate smoothly with the entire system. Setting the subwoofer's volume level too high will result in an overpowering, boomy bass. Setting the volume level too low will negate the benefits of the subwoofer.

Here are several additional facts on installation that may prove useful. It is generally believed that low frequencies (below 125Hz) are nondirectional and, therefore, placement of a subwoofer within any listening room is not critical. While in theory it is true that the larger wavelengths of extremely low frequencies are basically nondirectional, the fact is that, when installing a subwoofer within the limited confines of a room, reflections, standing waves and absorptions generated within the room will strongly influence the performance of any subwoofer system. As a result, specific location of the subwoofer becomes important, and we strongly recommend that you experiment with placement before choosing a final location. Placement will depend upon your room (for example, whether or not your room permits placement of the subwoofer near either satellite) and the amount and quality of bass required.

WALL-MOUNTING THE SATELLITES

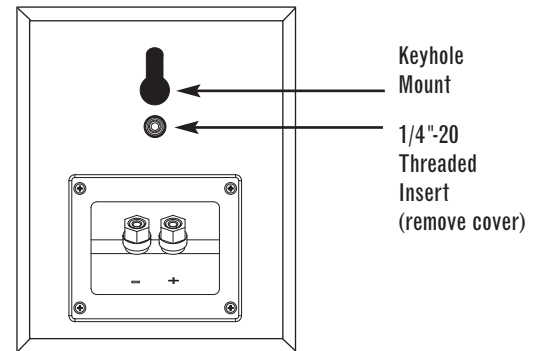
The Entra Point Five satellites are designed to mount directly to a wall. Each satellite speaker has a keyhole on the back. Each speaker will require (1) 1-1/2," #10 wood screw fastened to a wall stud. If a wall stud is unavailable, install an anchor appropriate for a 1-1/2," #10 screw.

NOTE: The customer is responsible for the correct selection and use of mounting hardware (available through hardware stores) that will ensure the proper and safe wall-mounting of the speakers.

Step 1.

Mark the position on the wall where you would like to place the mounting screw.

Figure 3.



Step 2.

Fasten a 1-1/2," #10 wood screw to the wall using the markings placed in Step 1 as your guide. Leave a 11/16" space between the wall and screwhead. If a wall stud is not available, use an appropriate anchor.

Step 3.

Place the speaker on the wall by aligning the keyhole on the back of the speaker to the screwhead on the wall. Once positioned properly, the speaker should slide down slightly and become secure.

The Entra Point Five also allows the use of third-party wall brackets using the 1/4"-20 threaded insert located beneath the keyhole mount. Consult the wall-bracket manufacturer for selection of proper bracket.

CENTER AND SATELLITE SPEAKER CONNECTIONS

Turn Off All Power

After placing the speakers, you are ready to connect your system. First, turn off all audio-system power. Use high-quality speaker wire to make your connections. Use at least #16-gauge speaker wire with polarity coding. The side of the wire with a ridge or other coding is usually considered positive polarity (i.e., +). Also, consult the owner's manuals that were included with your amplifier or receiver to confirm connection procedures.

Satellites

Observe polarities when making speaker connections, as shown in Figure 4. Connect each + terminal on the back of the amplifier or receiver to the respective + (red) terminal on each speaker. Connect the - (black) terminals in the same way.

Important!

Do not reverse polarities (i.e., + to - or - to +) when making connections. Doing so will cause poor imaging and diminished bass response. Be certain that positive and negative wire strands are completely isolated to avoid short circuits that may damage your equipment.

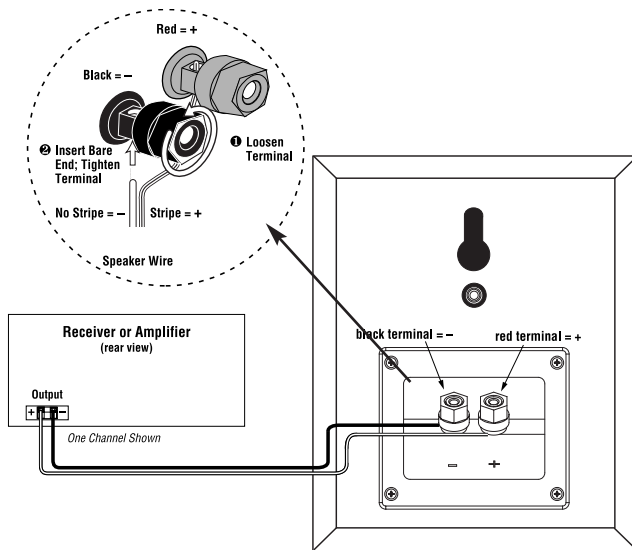


Figure 4. Wiring diagram shows polarity connections for one channel of a home theater system.

Center Channel

Observe polarities when making speaker connections, as shown in Figure 5. Connect each + terminal on the back of the amplifier or receiver to the respective + (red) terminal on the speaker. Connect the - (black) terminals in the same way.

Important!

Do not reverse polarities (i.e., + to - or - to +) when making connections. Be certain that positive and negative wire strands are completely isolated to avoid short circuits that may damage your equipment.

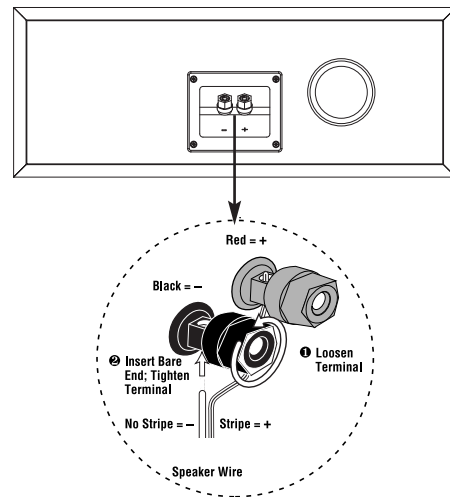
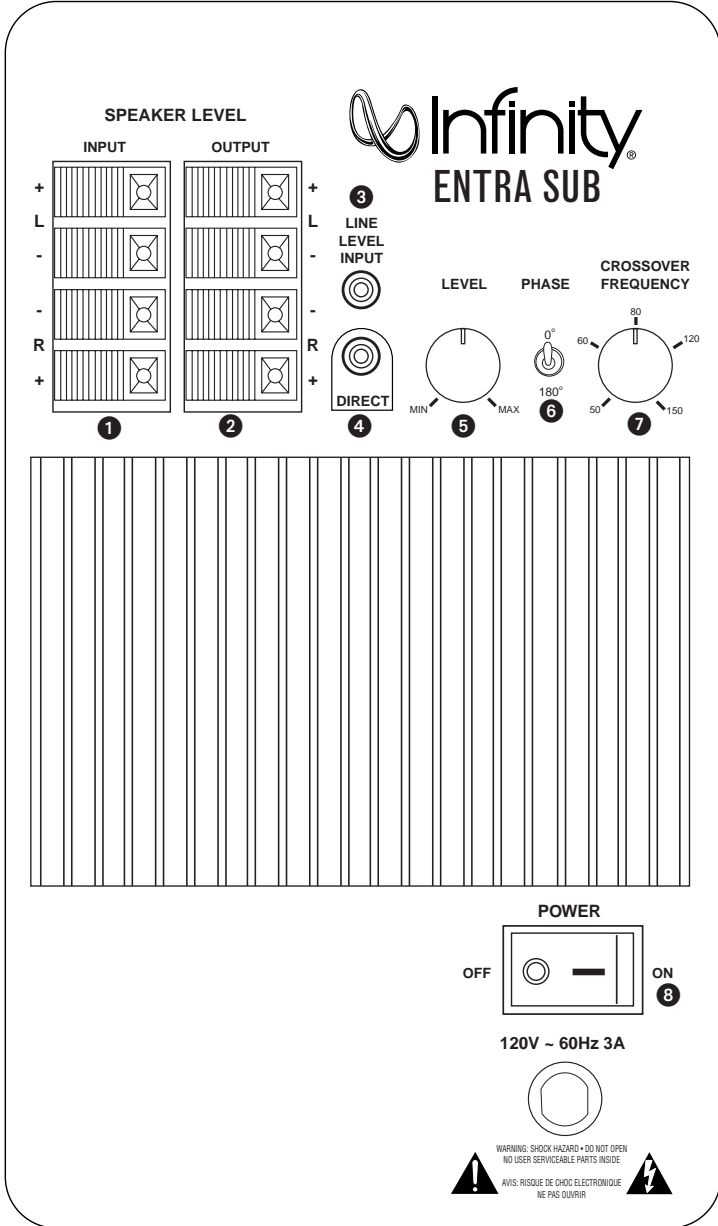


Figure 5. The satellites and center channel speaker feature terminals that can be connected in several different ways: e.g., banana plugs, spade terminals and direct wiring (as shown here).

SUBWOOFER CONTROLS

Rear Panel



- 1 Speaker-Level Inputs
- 2 Speaker-Level Outputs
- 3 Line-Level Input
- 4 Direct (LFE) Input
- 5 Subwoofer-Level Control
- 6 Phase Switch
- 7 Low-Pass Frequency Adjustment
- 8 Power Switch

A Few Suggestions

We recommend that you do not operate your speakers or subwoofer with the bass, treble and loudness controls set to full boost. This will place undue strain on your electronics and speakers and could damage them.

The volume control setting on your processor/preamp or receiver is not a specific indication of the overall loudness level of the speakers. The only important consideration is the loudness level at which the system can be played, regardless of where the volume control is set.

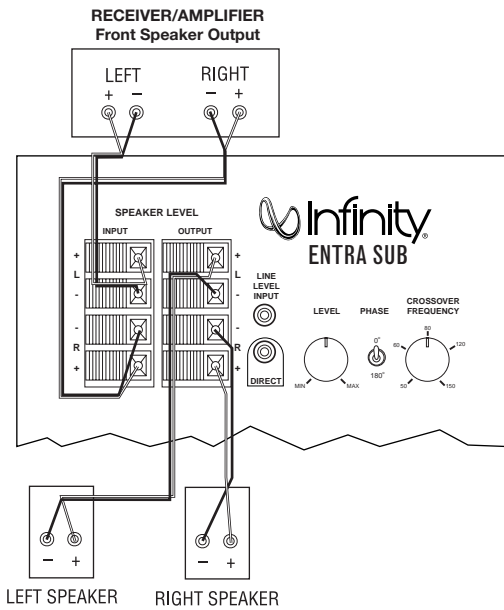
Always turn down the volume control setting on your processor/preamp or receiver when changing a cassette or CD, or switching inputs to AM or FM operation. Excessively loud transients (clicks or popping sounds) can damage the satellite speakers and possibly the subwoofer.

Important!

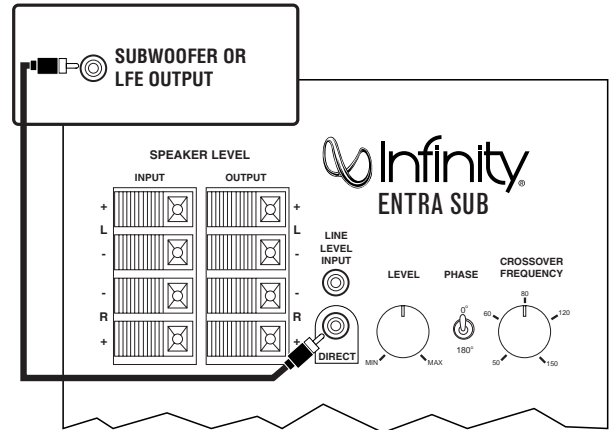
Whenever changing cables, pulling plugs, etc., ALWAYS TURN OFF ALL EQUIPMENT, including the subwoofer.

SUBWOOFER CONNECTIONS

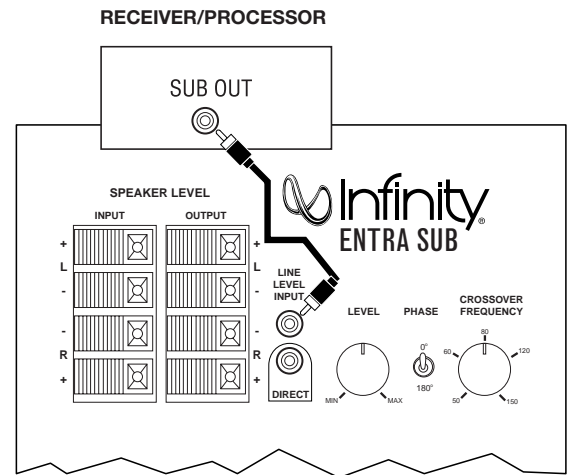
If your receiver/processor does not have subwoofer outputs for the left and right channels or an LFE output:



If you have a Dolby* Digital or DTS® receiver/processor with a low-frequency-effect (LFE) or subwoofer output:



If your receiver/processor does not contain a Dolby Digital or DTS processor but has a subwoofer output:



NOTE: Some receivers have two subwoofer outputs. In that case, it is recommended that you use a Y connector (not included) to maximize performance.

OPERATION

Surround Modes

When using the Entra Point Five HTS in a Dolby Pro Logic* home theater system, make sure the receiver's center channel mode is set to "Normal." When using the system in a Dolby Digital or DTS home theater system, make sure all speakers are set to "Small".

Some Dolby Digital-equipped receivers/processors offer different setup options for each source or surround mode, e.g., CD-stereo, videotape, Dolby, Pro Logic. In each case, follow your equipment's instructions to ensure that the subwoofer output is turned on and that the speakers are set to "Small" in each mode.

Power On

Plug your subwoofer's AC cord into a wall outlet. Do not use the outlets on the back of the receiver.

Initially set the subwoofer's Level control **5** to the "MIN" position.

Turn on the subwoofer by pressing the Power button **8** on the rear panel.

Turn on your entire audio system and start a CD or movie soundtrack at a moderate level.

Important Note: The Entra Sub includes an Auto-On/Auto-Off circuit. During periods of normal use, the power switch should always be left on. It should only be turned off during extended periods of nonoperation, e.g., when you are away on vacation.

Adjust Gain

Turn the subwoofer's Level control **5** up about half way. If no sound emanates from the subwoofer, check the AC-line cord and input cables. Are the connectors on the cables making proper contact? Is the AC plug connected to a "live" receptacle? Has the Power button **8** been pressed to the "On" position? Once you have confirmed that the subwoofer is active, proceed by playing a CD, record or cassette. Use a selection that has ample bass information.

Set the overall volume control of the receiver/processor to a comfortable level. Adjust the subwoofer's Level control **5** until you obtain a pleasing blend of bass. Bass response should not overpower the room but rather be adjusted so there is a harmonious blend across the entire musical range. Many users have a tendency to set the subwoofer volume too loud, adhering to the belief that a subwoofer is there to produce lots of bass. This is not entirely true. A subwoofer is there to enhance bass, extending the response of the entire system so the bass can be felt as well as heard. However, overall balance must be maintained or the music will not sound natural. An experienced listener will set the volume of the subwoofer so its impact on bass response is always there but never obtrusive.

Crossover Adjustments

NOTE: This control will have no effect if the Direct Input is used. If you have a Dolby Digital or DTS receiver/processor, the Low-Pass Frequency is set by the receiver/processor. Consult your owner's manual to learn how to view or change this setting.

Low-Pass Frequency Adjustment control **7** — The Low-Pass control determines the highest frequency at which the subwoofer reproduces sounds. For the Entra Point Five HTS, it is recommended that this control be set at 120Hz.

Phase Control

The Phase switch **6** determines whether the subwoofer speaker's piston-like action moves in and out with the main speakers, 0°, or opposite the main speakers, 180°. Proper phase adjustment depends on several variables such as room size, subwoofer placement and listener position. Adjust the phase switch to maximize bass output at the listening position.

Final Positioning

After correctly connecting the Entra system and verifying that both the subwoofer and all satellite speakers are playing, it is time to optimize the system for your particular listening room. Earlier, you placed the subwoofer in its general location. Finding the exact location for optimum performance sometimes only involves moving the speakers up to a few inches in any direction. We urge you, therefore, to experiment with placement, if possible, until your speakers deliver their full potential.

MAINTENANCE AND SERVICE

The satellite and subwoofer enclosures may be cleaned using a soft cloth, dampened with water only, to remove fingerprints or to wipe off dust.

The grilles may be gently vacuumed. Stains may be removed with an aerosol cleaner, following its instructions. Do not use any solvents on the grille.

All wiring connections should be inspected and cleaned or remade periodically. The frequency of maintenance depends on the metals involved in the connections, atmospheric conditions, and other factors, but once per year is the minimum.

If a problem occurs, make sure that all connections are properly made and clean. If a problem exists in one loudspeaker, reverse the connection wires to the left and right system. If the problem remains in the same speaker, then the fault is with the loudspeaker. If the problem appears in the opposite speaker, the cause is in another component or cable. In the event that your Entra Point Five HTS ever needs service, contact your local Infinity dealer or Infinity directly at 1-800-553-3332 (USA only) or www.infinitysystems.com for a service center near you.

NOTES:

SPECIFICATIONS

Entra Point Five HTS

	Satellites	Center Channel
Frequency Range:	100Hz – 20,000Hz (±3dB)	95Hz – 20,000Hz (±3dB)
Recommended Amplifier Power Range:	15 – 100 watts	15 – 125 watts
Sensitivity: (2.83V @ 1 meter)	86dB	89dB
Nominal Impedance:	8Ω	8Ω
Crossover Frequency:	2500Hz, 24dB/Octave	2500Hz, 24dB/Octave
Midrange Driver(s):	4" C.M.M.D., magnetically shielded	Dual 4" C.M.M.D., magnetically shielded
High-Frequency Driver:	3/4" C.M.M.D., magnetically shielded	3/4" C.M.M.D., magnetically shielded
Dimensions (H x W x D):	7-5/8" x 5-5/8" x 5-1/2" (194mm x 143mm x 140mm)	6-1/2" x 17" x 5-1/4" (165mm x 432mm x 133mm)
Weight:	6 lb (2.7kg)	12 lb (5.5kg)

Powered Subwoofer

Frequency Range:	34Hz – 150Hz (±3dB)
Amplifier Output:	150 watts RMS, 500 watts Peak
Low-Frequency Driver:	10" C.M.M.D.
Crossover Frequency:	50Hz – 150Hz, 24dB/Octave, continuously variable
Dimensions (H x W x D):	15" x 14-1/2" x 17" (381mm x 368mm x 432mm)
Weight:	47 lb (21.4kg)

Infinity continually strives to update and improve existing products, as well as create new ones. The specifications and construction details in this and related Infinity publications are therefore subject to change without notice.



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