



**Owners Manual  
for the  
Infinitesimal  
Micro Satellite/  
Subwoofer**

# CONNECTING YOUR SATELLITES

## UNPACKING

Inspect your speakers carefully after unpacking. If they have been damaged in transit, call your dealer or the trucking firm that delivered them for instructions on how to file a claim.

## POSITIONING

Proper positioning of the speakers within the listening room is of primary importance in order to achieve the best possible sound. Room reflections, furniture placement, heavy draperies, window reflections and so on can influence sonic quality, balance and the stereo image. It is essential to experiment with different locations to determine which placement offers the best overall balance and imaging. For the best stereo effect, the speakers should be placed at least 7-10 feet apart (2 to 3 meters). At times, angling the speakers slightly inward toward the listening position will add to overall spaciousness and deliver a more realistic sound stage.

The Infinitesimal Micro can be mounted on a wall by using the special brackets which come with the speaker. Be certain the brackets are fastened to a stud where they cannot pull loose from the wall. Use heavy duty screws with long threads so there is an adequate number of threads holding the bracket to the wall. Test the mounting thoroughly before installing the speaker to the bracket.

If the speakers are mounted to the wall and they are higher than ear level, tilt the speakers downward to direct the tweeters toward the listening position. This can be done by placing a shim underneath the upper portion of the wall bracket before it is screwed into the wall. The speakers may be placed on a table top, desk, or any piece of furniture.

Do not install the satellites very close to your television. It is advisable to keep them at least a foot away from the picture tube.

## CONNECTING THE SYSTEM

Make sure all equipment is turned off before making connections.

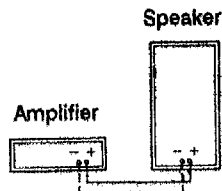
### Satellites without Subwoofer:

Connect your power amplifier to your speakers by using heavy gauge (#16, 14 or heavier) wire with polarity coding. The side of the wire with a ridge or other coding should be considered plus (+). The speakers must be connected in phase (both woofers always moving in the same direction at the same time) and every precaution must be taken to insure proper in-phase hookup (see diagram). If the speakers are out of phase (one speaker moving outward while the other moves inward) the result will be cancellation of bass frequencies and a floating effect preventing instruments and vocalists from stabilizing in their proper perspective.

## PROTECTION CIRCUITRY

The Infinitesimal Micro speakers include special protection circuitry which protects the drivers from overload. The circuit automatically resets after a few seconds restoring operation of the drivers. Should you hear the drivers switching in and out, or if there is a reduction in volume, immediately turn down the volume level until the protection circuitry is no longer activating.

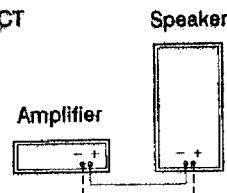
### CORRECT PHASE:



### In phase:

Plus (+) of amplifier goes to plus (+)(red) of speaker  
Minus (-) of amplifier goes to minus (black) of speaker

### INCORRECT PHASE:



### Out of phase:

Plus (+) of amplifier goes to minus (-)(black) of speaker  
Minus (-) of amplifier goes to plus (+)(red) of speaker

## **UNDERSTANDING MIN/MAX POWER RATINGS**

An amplifier with limited power output can actually cause damage to your speakers. A lower powered amplifier, when played beyond its power capability will go into clipping. This generates spurious high frequency signals which, when routed to the tweeter, can cause it to overheat and fail. The active protection circuitry in your Infinity speaker will generally safeguard against such failure; however, no protection circuit is foolproof and, therefore, overdriving the power amplifier must be avoided. It is for this reason that choosing an amplifier with more power than you need is always a wise choice.

## **ACOUSTIC FEEDBACK**

Acoustic feedback is created when sound waves from your speakers reach your turntable and are fed back through the phono pickup to the power amplifier. It is a never ending cycle which can cause distortion across the entire audio band. To avoid acoustic feedback problems, place your turntable on a heavy, solid support and as far away from the speakers as possible. At times, isolating the turntable with special rubber mounts may aid in reducing this form of distortion.

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## **SPECIFICATIONS, INFINITESIMAL MICRO SATELLITE**

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Power Rating .....	10 to 50 watts per channel, RMS
Frequency Response .....	150 Hz - 22 kHz +/- 3 dB
Efficiency .....	87 dB @ 1 watt, 1 meter
Nominal Impedance .....	6 ohms

## CONNECTING YOUR SUBWOOFER

The Infinitesimal Micro subwoofer is a passive system (does not have a power amplifier built into the enclosure) and can be used with any quality stereo integrated amplifier, receiver, or separate components. Although designed specifically for use with the Infinitesimal Micro satellites, the subwoofer may be used to enhance the bass response of any satellite system. After unpacking, observe the following procedures for installing the subwoofer.

### A WORD OF ADVICE

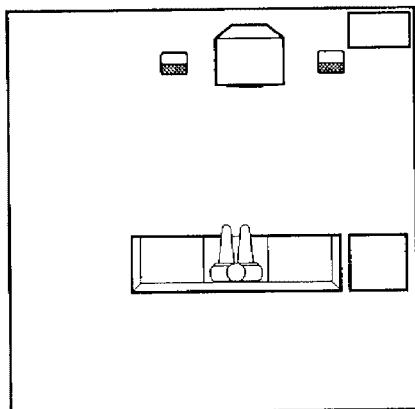
It is not advisable to operate the subwoofer with the tone controls of your stereo system set to maximum boost. In fact, it is always good practice to keep the tone controls set to reasonable boost levels because excessive bass and treble can damage your satellites as well as the subwoofer.

The volume control settings on your stereo preamplifier, receiver or integrated amplifier is not a indication of the overall volume level of your system. 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 when changing a record or switching inputs from AM to FM, phono or CD operation. Excessively loud transients (loud pops and clicks) can damage your speakers. Whenever changing plugs, cables, etc., always turn off your system. This will prevent transients from reaching your speakers and also prevents electrical energy from reaching you. Keep electrical connections out of reach of children.

### POSITIONING

The performance of the Infinitesimal Micro subwoofer is directly related to its position in the listening room. At times, moving the subwoofer merely an inch or two can make a significant difference in the way it will sound. If bass response is judged to be light, move the subwoofer closer to a corner. The corner enhances the subwoofer's ability to couple to the room and will create more bass. If bass response is judged too heavy, move the subwoofer away from the wall or corner. The subwoofer does not have to be positioned between the two satellites for best overall sonic balance. It may be placed anywhere it sounds best. Low frequencies are non-directional which means you can place the subwoofer either in the middle or to the left or right of the satellites and obtain optimum bass balance. Experimentation by positioning the subwoofer in several different locations will reveal which position yields optimum results.



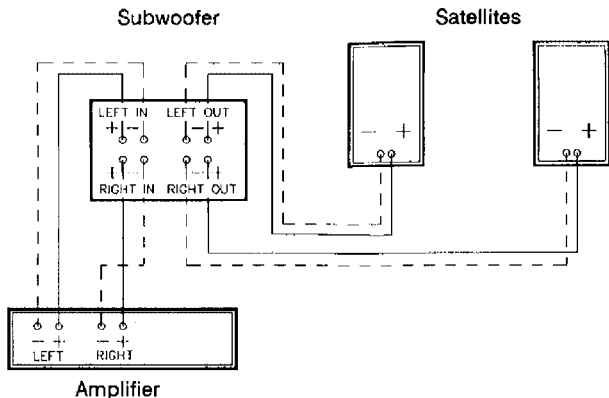
The subwoofer may be mounted on its side if required but do not mount it so the port faces the floor. The port must be unobstructed for proper performance.

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## SPECIFICATIONS, INFINITESIMAL MICRO SUBWOOFER

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Power Rating	10 to 100 watts per channel, RMS
Frequency Response	.50 Hz - 150 Hz +/- 3 dB
Efficiency	87 dB @ 1 watt, 1 meter
Nominal Impedance	6 ohms



## INSTALLATION OF THE SUBWOOFER

Refer to illustration for hook up diagram. Connect the Left and Right OUTPUTS of your amplifier to the corresponding Left and Right INPUT terminals on the subwoofer. Connect the satellites to the Left and Right OUTPUT terminals on the subwoofer. Observe polarity. **CAUTION:** Do not connect the satellites directly to your amplifier bypassing the subwoofer's output terminals. The satellites must always be connected to the output terminals on the subwoofer.

## IN CASE OF TROUBLE IN YOUR STEREO SYSTEM

Before consulting your dealer, INFINITY service facility or factory service department, there are tests you can do to locate and solve possible problems in your speakers. You can use your stereo's two channels of information for simple trouble-shooting. If the sound quality is distorted, listen to each speaker separately to check if the fault is present in both. If it is, then the trouble is likely to be elsewhere in your system. If the fault is in one channel only, reverse the outputs of your amplifier to the speakers. If the distortion moves to the other channel, the fault is not in the speaker. If distortion remains in the speaker, contact your dealer for assistance.

**NOTE: DO NOT SHIP ANY PARTS OR WHOLE SPEAKERS FOR SERVICE WITHOUT PRIOR APPROVAL ("RETURN AUTHORIZATION"), AND DO NOT SHIP WITHOUT ENCLOSING A COPY OF YOUR ORIGINAL BILL OF SALE.**

If there is no authorized service facility near you...

Write or phone the service department (INFINITY Customer Service, 9409 Owensmouth Avenue, Chatsworth, CA 91311; (818) 407-0228) and describe the difficulty as specifically as possible. The service department will advise you of what action you should take.

**INFINITY constantly strives to update and improve existing products, as well as create new ones, therefore, the specifications and construction details in this and related publications are subject to change without notice. © 1990, Infinity Systems, Inc.**

# LIMITED WARRANTY

## Who is protected by the warranty?

Your Infinity warranty protects the original retail purchaser and all subsequent owners for a period of five (5) years (parts and labor) from any failure as a result of an original manufacturing defects so long as: (1) your Infinity loudspeakers were purchased within the fifty United States or by military personnel from an authorized military outlet and (2) the original dated bill of sale is presented whenever service is required during the warranty period. This warranty does not apply to products purchased elsewhere; other purchasers should contact their local Infinity distributor for warranty information.

## What does the Infinity warranty cover?

Except as specified below, this warranty covers all defects in original materials and workmanship. The following are not covered: damage caused by accident, misuse, abuse, neglect, product modification; damage occurring during shipment; damage caused by failure to follow instructions in the owner's manual, including failure to perform recommended periodic or routine maintenance; damage resulting from repairs by someone not authorized by Infinity; claims based upon any misrepresentations by the seller; and any Infinity product on which the serial number has been altered, defaced or removed.

## Who pays for what?

During the period of this warranty, subject to the above conditions, Infinity will pay all of the labor and material expenses to repair a warrantable defect.

You are responsible for transporting your product to either Infinity or an authorized service center and for payment of all shipping charges; however, Infinity will pay the return shipping charges (in the event you return the product to us) if the repairs are covered by warranty. If you experience difficulty in transporting your product or are in need of packing materials, please advise us and we may be able to suggest alternative procedures and/or provide adequate packaging materials.

## How can warranty service be obtained?

In the event that your Infinity loudspeaker(s) should require service, you should first contact the Infinity dealer from whom the product was purchased or, if this is not practical, contact Infinity directly (ATTN: Customer Service) at 9409 Owensmouth Avenue, Chatsworth, CA 91311 (818)407-0228. We may direct you to an authorized service center for Infinity products or ask you to send them to us for repair. In either case you will have to present your original dated bill-of-sale to establish warranty coverage. Do not send your speaker(s) to us without prior authorization from our Customer Service department!

**LIMITATION OF IMPLIED WARRANTIES:** All implied warranties, including fitness for a particular purpose and merchantability are limited in duration and length to the warranty period for your product.

**LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES:** Infinity is not responsible for any incidental or consequential damage of any kind. Our liability is limited to the repair or replacement, at our option, of a defective product.

Some states do not allow limitations on how an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damage, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**NOTE:** In the event that there is difference between this warranty and the provisions in any advertisements, product brochures or packaging cartons, the terms of this warranty will prevail.