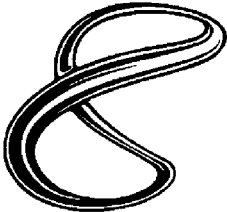




ENVIRONMENTAL REFERENCE STANDARD SERIES

OWNER'S MANUAL

ERS 500-800



Infinity[®]

The Infinity logo features a stylized infinity symbol at the top, followed by the word "Infinity" in a large, bold, sans-serif font. A registered trademark symbol (®) is located at the bottom right of the word.

It is recommended you read these instructions thoroughly before attempting to install and operate your Infinity ERS Wallspeakers. A separate Installation Guide, detailing the installation procedures for new and existing construction, is packaged with the Installation Kit. **Please save these manuals for future reference.** Also, save your bill of sale in case you need warranty service.

UNPACKING

Check the speakers carefully. If they have been damaged in transit, report the damage by calling your dealer and/or the trucking firm that delivered them immediately.

Save the shipping cartons and packing materials in case of future need.

POSITIONING

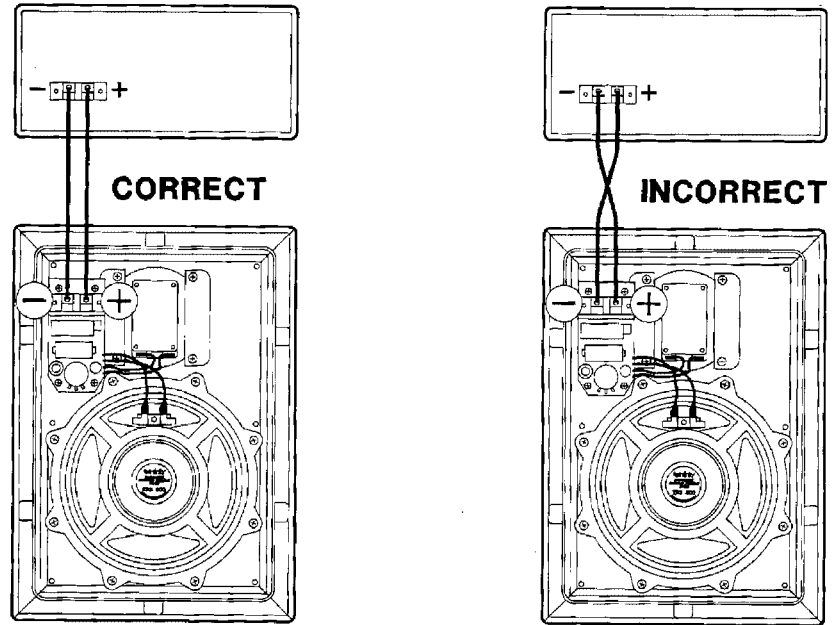
For the best stereo image, the speakers should be placed not less than 7 to 10 feet apart. Keep the speakers at least 2 to 3 feet from the adjacent walls: proximity of your speakers to room corners can affect tonal balance in the bass and lower middle frequencies. Mount the speakers so the tweeters are at ear level during normal listening sessions.

WIRING

Connect your amplifier to the speakers using two-conductor, stranded speaker wire with polarity coding. For lengths up to 30 feet, use 16 gauge or heavier wire. (Short runs, 6 feet and under, can be made with 18 gauge.) When spanning 30 to 50 feet, use 14 gauge or larger; over 50 feet, use 12 gauge or heavier wire. To maintain proper signal balance, the wires should be approximately the same length, even if one speaker is closer to the amplifier than the other.

It is important that the speakers are connected "in-phase." Use the wire's polarity coding to make sure that the "+" (red) terminal of each speaker is connected to the amplifier's "+" output. See figure 1.

Figure 1



The amplifier's LEFT channel output must go to the wallspeaker on the left side of the room and the RIGHT channel output must go to the speaker on the right side.

Before switching on, check carefully to make sure that no stray or frayed strands of wire are touching both the "+" and "-" terminals at either the speaker or the amplifier connections, as this will cause a short.

For new construction, run the wires to the speakers before installing the drywall or panelling. (A speaker terminal plate can be used, located off to one side and along the bottom of the wall as a connecting point for the output wires from the amplifier if the position of the amplifier is not known at the time of construction.)

INSTALLING THE MOUNTING BRACKETS

See the Installation Guide (part #930-4367), packaged with the Installation Kit, for installation instructions.

CONNECTING THE SPEAKERS

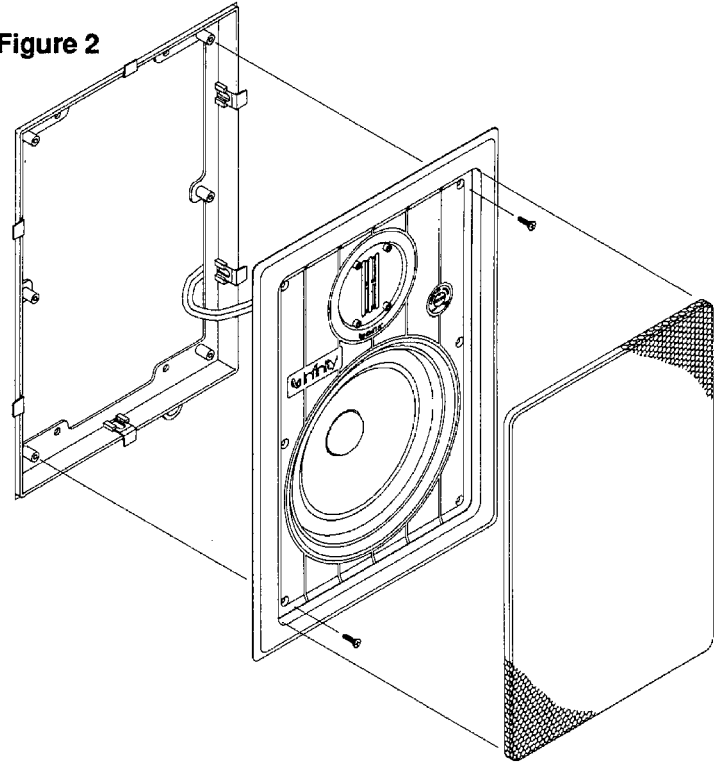
Make sure the amplifiers are switched off before making connections.

Prepare the speaker wires as follows: for the ERS 600 and 800 remove about 3/8" of the wire's insulation and tightly twist the ends. For the ERS 500, strip and twist 3/8" and either attach female speaker lug clips (available through your dealer) to the ends of the wires, or solder the wires to the terminal lugs of the speakers.

Carefully remove the Grille from one of the Speakers by inserting the point of an awl into one of the holes along the edge of the Grille and gently but firmly lifting the Grille away from the Speaker.

Connect the wires to the Speaker, observing proper polarity (amplifier's "+" to the red speaker terminal, amp's "-" to its black terminal - the unmarked terminal on the ERS 500). Be sure all connections are solid and will not work loose with time. Position the Speaker into the mounting frame and secure it with the 1/2" Flat Head Screws. **Do not overtighten the screws!** See figure 2.

Figure 2



Set one of the Foam Grille inserts behind a Grille (if desired for cosmetic appearance) and gently press the Grille edges into the slot in the Speaker. Seat the Grilles fully and evenly in the slot.

SETTING THE TWEETER CONTROLS

The ERS 600 and 800 employ tweeter level controls on their front baffles. Start with the control at the 12:00 position and listen to a wide variety of program material. Adjust until the high frequencies blend well with the upper midrange frequencies. Generally, once set, the controls will remain at the chosen settings until there is a major change in the room environment.

Rooms with heavy drapes, thick carpets and heavily padded furniture will require more output from the tweeters than rooms with wide expanses of glass, or mirrors, hard floors and smooth furniture.

ASSOCIATED COMPONENTS

The choice of associated components in your system is critical and should be made with great care. Here are several suggestions:

Employ a high powered amplifier. Higher power results in not only cleaner, more open sound but it insures that the speaker will not be harmed by an overdriven system that is generating distortion.

Never operate your system with the bass, treble and loudness controls set to full boost. This will place undue strain on the speakers as well as the amplifier.

The volume control setting on your preamplifier or stereo 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 when changing a record, or switching inputs to AM or FM operation. Excessively loud transients (clicks or popping sounds) can damage the speakers.

Whenever changing cables, pulling plugs, etc., ALWAYS TURN OFF ALL EQUIPMENT to prevent transients from entering the speakers. It is always worthwhile discussing proper speaker connection and component selection with your dealer prior to setting up your system.

A WORD ABOUT TONE CONTROLS

The tone controls on your electronic components (pre-amp, receiver, etc.) should be used with the utmost discretion. Excessive boost can create severe power demands on your power amplifier. Maximum bass boost can create a demand for literally hundreds of watts in the bass region, whereas, in the "flat" position (or with the tone controls switched out of the system) your average listening level may be impressively and realistically loud at less than 10 watts. The remaining power capacity required is on reserve for power peaks on sharp transients and powerful crescendos.

NOMINAL IMPEDANCE refers to how much current is required, on the average, from an amplifier for a given voltage at its output terminals. A high impedance speaker will require less current than a low impedance speaker. Impedance is not an indication of quality or accuracy in a loudspeaker.

Solid state amplifiers, properly designed and constructed, will generally deliver more power at 4 ohms. Ask your dealer about the actual power and reliability of your prospective amplifier or receiver at this impedance.

UNDERSTANDING "MIN/MAX" POWER RATINGS

If you intend to use your speakers for background music, or at moderate levels in a small room, an amplifier or receiver with less than the recommended minimum power rating can be used. But it is important to be aware of potential damage to tweeters that exists when a low-powered amplifier or receiver is played at volumes beyond its normal limits.

At some loud "peak" listening levels, all amplifiers will "clip" the peaks of musical signals. When this happens, the resulting harsh distortion may contain a considerable amount of supersonic energy, which is routed to the tweeters. This high energy can destroy your tweeters.

The ERS 800 employs an internal protection device to help prevent its tweeter from being damaged in the case of overload conditions. If the sound from the tweeters cuts in and out, especially near your amplifier's power limits, turn the volume down.

The power rating of the Infinity ERS Series are as follows:

ERS 500 (IF995200)	5 to 50 watts per channel, RMS
ERS 600 (IF996200)	10 to 75 watts per channel, RMS
ERS 800 (IF998200)	15 to 100 watts per channel, RMS

PAINTING

The speaker's outer frame and grille may be painted to match or compliment the room decor if desired. Remove the grille and snap the Painting Mask provided over the face of the speaker. Paint the grille while it is removed from the speaker to prevent splatters or overspray from getting on the speaker's face. Use very light coats to keep the paint from clogging the holes in the grille.

The grilles may be covered with a special type of cloth if desired. Your audio dealer can help you locate acoustically transparent cloths available in a wide variety of colors and patterns. Apply a small amount of grille cloth adhesive (consult your dealer) around the inside edges of the grille, wrap the cloth smoothly around it and glue it in place. When the glue is dry, carefully trim away any excess cloth which would hinder installing the grille onto the speaker.

IN CASE OF TROUBLE...

Contact your Infinity dealer and get the name of the authorized Infinity service center near you. If there is no facility near you, contact Infinity's Customer Service department at (818) 709-9400, or write: Infinity Customer Service, 9409 Owensmouth Avenue, Chatsworth, California, 91311 (U.S.A.).

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

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 defect 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.

How can warranty service be obtained?

In the event that your 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) 709-9400. We may direct you to an authorized service center for Infinity product 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.

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 the 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 adequate packaging materials.

LIMITATION OF IMPLIED WARRANTIES: All implied warranties, including fitness for a particular purpose and merchantability are limited in duration to the length of 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 long 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 a difference between this warranty and the provisions in any advertisements, product brochures or packaging cartons, the terms of this warranty will prevail.

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 Infinity publications are subject to change without notice.