

Instruction and installation
manual for your new Infinity
ES-1 Electrostatic
Headphones

Congratulations! With the purchase of your new Infinity ES-1 Electrostatic Headphones, you have joined an ever-increasing family of devoted music and sound perfectionists. Infinity has put years of experience and many hundreds of hours of work into the development of these headphones so that we are able to bring you the finest sound your money can buy.

After opening your carton, make a careful examination of your headphone system, checking for possible shipping damage. If there is damage, contact your dealer immediately.

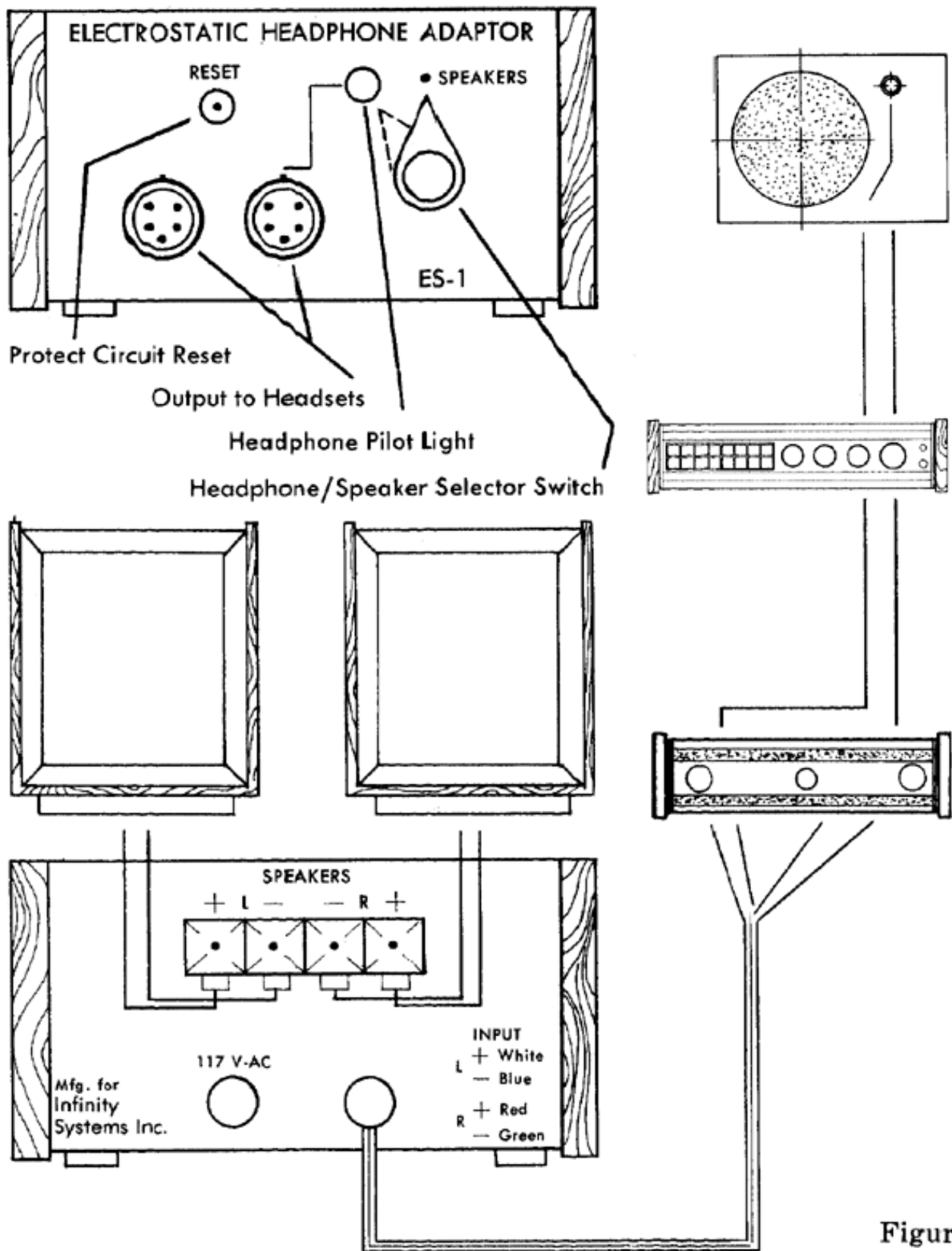
Related Components

Selection of related components for use with the Infinity ES-1 Headphone System is the prime factor in assuring the best performance of the system. It is those components you will hear, not the ES-1 Headphone System. While it is true that the ES-1 Headphone System will perform with a wide variety of quality Hi Fi Components, only the finest will optimally demonstrate their capabilities. Be aware that the ES-1 Headphone System is ruthless in revealing poor quality in recordings. Should you notice poorly balanced sound, excessive noise, etc., it is usually caused by the source material. On the other hand, with a recording of superior quality, the ES-1 has no match.

Installation Instructions

The Infinity ES-1 Headphone System functions on the electrostatic principle, in the push-pull mode. The low mass conductive

diaphragm is modulated through the use of electrostatic fields set up around the constant bias voltage of the diaphragm, with the signal from your power amplifier boosted via an audio matching transformer. This necessitates the use of a separate box to house the power supply and matching transformers. Fig. 1 shows a diagram of the system's hook-up. Note that the Headphone power supply will become a permanent part of your Hi Fi System. It provides front panel switching for either use of your headphones or speaker system. In addition, the ES-1 Headphone System power supply offers two output connectors, allowing use of an optional second headset (which can be purchased through your dealer) for dual listening enjoyment. The power supply is connected to your power amplifier output via the four connector cables on the rear panel. The speaker wires are then connected to the headphone power supply speaker terminals. All that remains is to plug the headphone power supply into an AC receptacle, the headset into the front panel headphone output, and you are ready for operation. With the selector switch in the speaker position, your system will operate normally through your speakers. When the switch is moved to the headphone position, the headphone power supply is activated, delivering bias voltage to the headset diaphragm and switching your power amplifier outputs from speaker operation to headphone operation. Be sure to turn the gain down on your preamplifier before switching. Switching at excessive levels can cause damage to either the headphones or speaker system, and



Figure

would not be covered by your warranty. Once activated, it will take a few seconds for the electrostatic elements to reach full output. After a few minutes of activation, the headphones will reach full stability and their maximum performance level.

Protection Circuitry

To avoid damaging the unit from possible overloading, the headphon power supply is provided with a fast-acting protection circuit. This protection circuit will trip around 50 watts @ 1 KHz peak

input level. When the circuit is activated, either one channel, or both, will be switched off, depending upon which channel was overloaded. The circuit is easily reset by pushing the re-set button on the front panel.

In case you have problems

Please refer to your warranty card for full details on your warranty. Should you suspect trouble in your ES-1 Headphone System, please make sure that the problem does not lie elsewhere in the system. If there is still a question in your mind as to the proper functioning of the system, have it checked

by your dealer. If it becomes necessary to return your system to the factory, please follow the instructions on your warranty card. It should be packed in its original packing material. If it is no longer available, write directly to Infinity for packing. Expect an average of 2 weeks repair time from the day of receipt at the factory. Do not ship by bus or parcel post. We recommend that headphone systems be returned by United Parcel Service (UPS) or ground freight to:

Infinity Systems, Inc.
7930 Deering Avenue
Canoga Park, California 91304
(213) 883-4800

Headphone Specifications

Sensitivity: 98 db SPL at 1 KHz/2 v input
Maximum Output Level: 118 db SPL at 1 KHz
Total Harmonic Distortion: Less than 0.3%
at 100 db SPL
Frequency Response: 20-25,000 Hz \pm 2 db
Maximum Input Levels: 50 W. 1 KHz
Source Impedance: 4-16 ohms

External Power Requirement: 117 v/AC or
220 v/AC; 50-60 Hz/.01 W
Headphone Weight: 9 oz.
Headband Adjustment Length: 11.4"-13.8"
Headphone Cable: 98.4" (with plug)
Power Supply Size: 5.2" (w) x 3" (h) x 7.3" (d)
Power Supply Weight: 1.9 lbs.
AC Cord: 67" (with plug)



We get you back to what it's all about. Music.

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Infinity ME-10D Bias Power Supply

