

SETTING UP THE ESS amt 1

You now have the world's most advanced loudspeaker, the ESS amt 1. Because it is of radically different design, there are some steps to be taken in its installation which have no counterpart in speakers with which you may be familiar. Please read these instructions before proceeding to set up the ESS amt 1.

INSTALLATION

Carefully remove the amt 1 from its packaging and set it in the desired room location. Gently tip the unit forward allowing access to the input terminal plate located on the underside of the unit.

Connect the RED input terminal post of the amt 1 to the "+" or red terminal of the associated amplifier or receiver. Connect the BLACK terminal post of the amt 1 to the "-" or black terminal of the amplifier or receiver. If you are setting up a stereo system, connect the amt 1 on your left as you face the loudspeakers from your listening area to the LEFT channel output of the amplifier or receiver, and the amt 1 on your right to the RIGHT channel output.

By unscrewing the large plastic portion of the terminal post on the amt 1, plain wire may be secured without the use of attachment hardware. The use of dual banana plugs which are designed expressly for this type of connector is, however, strongly recommended. If you are not using connecting hardware be certain that no wire strand or end touches the adjacent terminal of the amt 1 for it will short the amplifier's output and activate its protective circuitry.

If you are setting up a quadrasonic installation, follow the connection instructions supplied with the associated electronics.

Number 16 gauge wire is recommended for most installations. Use a smaller wire (larger gauge numbers, such as 18 or 20) only for connecting amt I's 12 feet or less from the associated electronics.

ADJUSTMENTS

The brightness control allows three positions of high frequency response to match room acoustics. The NORMAL position gives a truly flat response and is suited for average furnished and draped rooms. The BRIGHT position increases the response of the Heil Air Motion Transformer by approximately 3db and is suited for heavily draped and carpeted rooms. The SOFT position decreases the response of the Heil Air Motion Transformer by approximately 2db and is suited for rooms having a minimum of draping and lots of sound reflecting surfaces. These recommendations are only general guides and final adjustments will have to be made on a basis of personal preference.

For listeners who would like to have a higher apparent sound source, the Heil Air Motion Transformer may be tipped back to face at an upward angle. Remove the grill cloth cap from the amt I by inserting your fingers in the recess above the walnut finish and raising the cap carefully upward. If the cap has become slightly wedged during shipment, apply a "rocking" motion while lifting upward. Loosen the two large hex head bolts on the top of the black case of the Heil Air Motion Transformer. Unscrew these long bolts until the head of the bolt is approximately 1/4 inch above the top surface of the transformer unit. Place a wedge under the front of the transformer, tipping it back approximately 10 degrees. Finger tighten the bolts down onto the transformer so that there is no possibility of rattling. Carefully replace the grill cap. Remember, the Heil Air Motion Transformer is no longer fully secured, do not transport or tip the amt I without removing the wedge and tightening the two securing bolts.

WARRANTY

The Heil Air Motion Transformer unit is fabricated in its entirety by ESS and is warranted to be completely free from defects in material and workmanship. Should such a defect occur while the amt unit is in the possession of the original owner, it will be repaired or replaced without charge for material or labor. Unauthorized removal of the diaphragm from the Heil Air Motion Transformer will void the warranty for the unit. The remainder of the amt I system is warranted to be free from defects in material and workmanship for a period of five years. In this period such a defect will be rectified without charge for material or labor. These warranties do not cover accidental or intentional abuse or damage resulting from the failure or misuse of associated equipment. The warranties must be registered by the return of the enclosed warranty card within 10 days of purchase.

CARE

The ESS amt I needs no more care than that normally given a piece of fine furniture. The grill may be vacuumed gently or brushed to remove dust and debris, while the lower surfaces may be cleaned with any commercial polish or dusting spray. Do not allow the spray to be directed toward the drivers beneath the grill cap. Do not use abrasive compounds or strong solvent cleaners on any portion of the amt I.

The ESS amt I is made up of rugged reliable components. Used properly, it is practically ageless and will provide outstanding listening pleasure for a lifetime. We are certain that the ESS amt I will surpass your most demanding expectations and provide an exciting new revelation in sound as clear as light.

IMPORTANT

Amplifiers capable of 300 watts or more RMS power per channel have the capacity for destroying any loudspeaker system. When driven to excessive levels with

these amplifiers, most loudspeakers will give sonic indication of approaching a danger level by an onset of distortion particularly noticeable as a "hardening" in the upper frequencies. Because of its unique and specific design for maximum dynamic (instantaneous) response, the ESS amt 1 will not give this warning.

Therefore, amplifiers capable of 300 or more watts RMS power per channel (including the ESS 500 which is conservatively rated) should not be consistently operated at or near clipping levels into the ESS amt 1 even though the speaker gives no audible signs of distress. Because of the energy distribution in musical material, and the fact that when operated into a 4 ohm system such as the ESS amt 1, an amplifier is capable of delivering far more than its 8 ohm rated power: 300 watts available at 8 ohms is equivalent roughly to 500 watts at 4 ohms. Meter operation on the amplifier can serve only as a guide as to actual energy delivered. As a rule of thumb: do not advance volume to the point at which instantaneous peaks reach OVU on the amplifier's meters.

Do not under any circumstances drive the system with sine wave signals, or replace the fuse with one of a higher value.

Failure to observe these precautions will be considered unreasonable abuse and will not be covered by the warranty.