

Magneplanar 30.7 Instruction Manual

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Special setup assistance from Magnepan

The 30.7 has more flexibility and setup options than any Magneplanar in our history. Due to the complexity of the setup and the variability of the customer's sound rooms, Magnepan is offering a special world-wide service to all 30.7 owners.

Wendell Diller of Magnepan will be personally assisting you in your setup. The dealer (or distributor) should contact Wendell in advance of the setup date. He will need a series of photos of the customer's sound room. These photos of the room should be taken in a clock-wise fashion, reduced to small files and attached to an email. Please do not send large files or videos.

General Description

The 30.7 is a 4-way, full-range ribbon design with a quasi-ribbon bass, quasi-ribbon midbass coupler, quasi-ribbon midrange, and true-ribbon tweeter.

Carton Contents

- 8 -- 1/4 (20) X 2 inch screws
- 8 -- 1/4 (20) X 2 1/2 inch screws
- 4 -- Magneplanar emblems
- 4 -- 1 ohm resistors
- 2 -- 2 1/2 amp 3AG fuses
- 4 -- 5 amp 3AG fuses
- 1 -- 5/64 inch HEX wrench
- 2 -- .925 mh inductors

Packaging

Save all packaging. If you need to transport the speakers, they can only be shipped safely in the original packaging. You may never have to return your loudspeakers, but should the occasion arise, they should not be shipped in any packaging but the original. Should you discard it, packaging is available.

Assembly

- Remove speakers and feet from carton.
- We suggest the assistance of a second person to facilitate the installation of the feet. Place the speaker on its side edge.
- Note that one end of the foot is longer than the other end. Place the longer end toward the front of the speaker. Carefully align the foot on the backside of the panel so the holes in the foot line up with the bolts in the panel. Using your fingers, insert a bolt through the center hole until the bolt engages with the nut in the panel. Do not use a screwdriver until the bolt has engaged the threads. Care must be taken to avoid cross-threading the bolts.
- Repeat the same procedure for top hole.
- Tighten all the bolts securely.

Tweeter Protector Strips

- Remove the tweeter protector strips.
- The tweeter ribbon is fragile. Tweeter protector strips should always be installed to protect against any situation that would cause a change in air pressure such as shipping. Do not vacuum the front grille.

Hookup

- A. Magnepan's high current connectors provide optimum contact area with 10 gauge or smaller wire (or banana connectors). Banana plug connectors can be used and locked in place with the set screws. Spade lug adapters are available from your Magneplanar dealer for spade connectors that are incompatible with the Magneplanar high current connector.
- B. A short length of speaker cable is required to connect the high output of the bass panel to the tweeter/midrange panel.

Caution

The terminal plate on the narrow panel (tweeter/midrange panel) states a maximum fuse value of 5 amps Type 3AG ("normal" or "fast blow") for the midrange and 2 1/2 amps for the tweeter. The midbass coupler fuse located on the wide bass panel states a maximum fuse value of _____ amps. The bass section does not require fusing protection. These fuse values should never be increased or bypassed. Do not use slow-blow fuses. THE WARRANTY DOES NOT COVER BURNED-OUT DRIVERS THAT ARE FUSED.

Typical setup in a shoe-box shape room

The bass panels can be butted up against the side walls for maximum bass performance. The tweeter/midrange panels can be placed for best imaging.

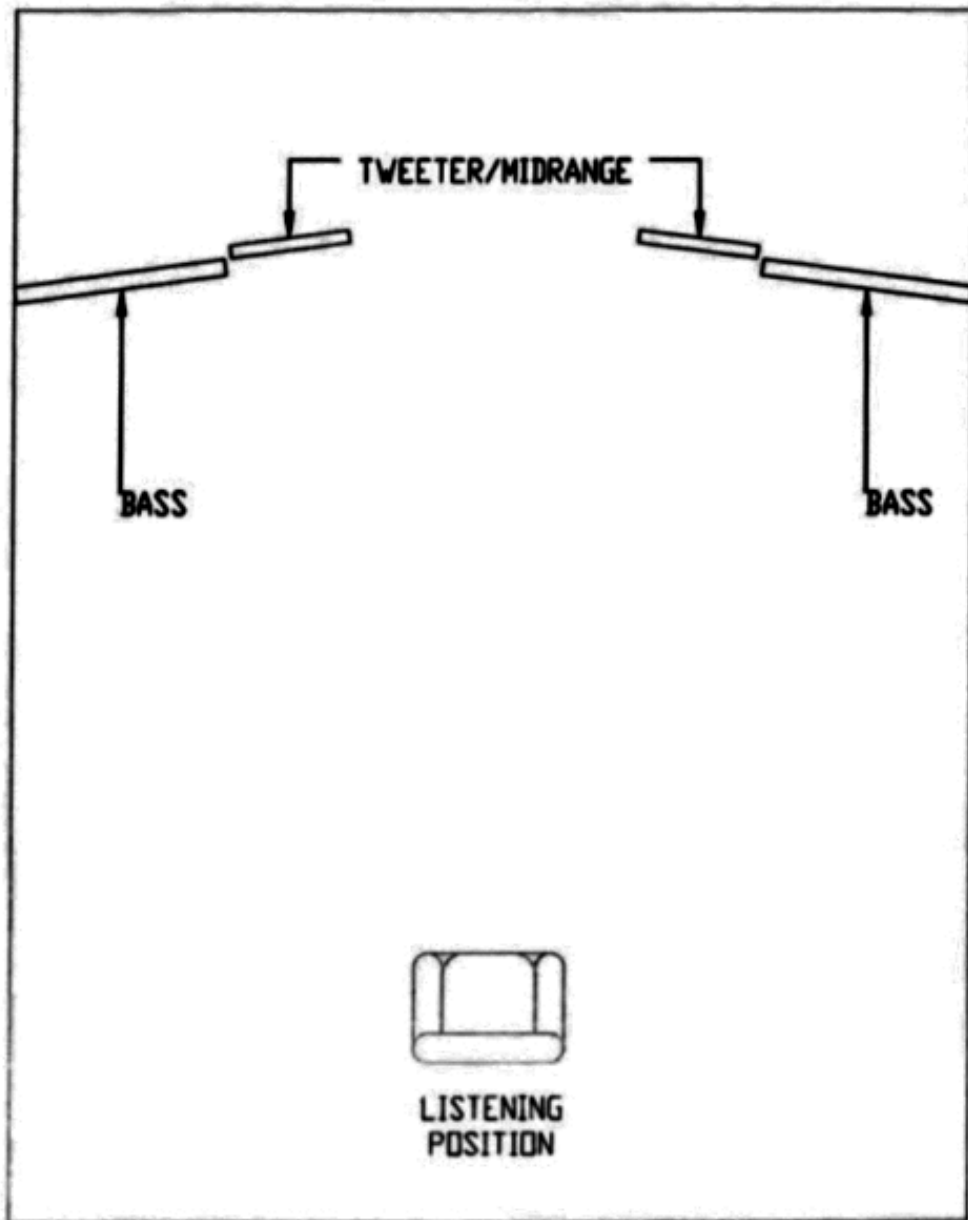


Fig. 1

Phasing

First step-- measuring from the seated position, the tweeter/midrange panel should be approximately 6 inches further from the listening seat than the bass panel. (For example, if the distance to the bass panel is 10 feet, the distance to the T/M panel should be approximately 10 feet, 6 inches.)

Second step--**Measuring from your seated position, if the tweeter/midrange panel is 10 feet, 6 inches, the tweeter should be at least 10 feet, 7 inches (think in distance, not angles).** This rule applies whether the tweeters are positioned on the inside of the T/M panel or the outside of the T/M panel.

The angle of the bass panel will be determined by trial-and-error. Due to room interactions, no definitive guidelines can be given.

Room Acoustics

The judicious use of diffusers and damping material can improve the sound.

Acoustical damping can be achieved with household items or wall hangings. A word of caution--when audiophiles discover the effectiveness of damping material, they sometimes overdo it (on the premise that if a little is good, more is better). Before making a permanent change to your room, experiment with the positioning of the damping material. Usually a portion of one or two parallel walls should have some damping. However, it is a trial-and-error process.

An over-damped room will provide very precise imaging, but the sound will seem "dead." An under-damped room may heighten the illusion of being in a concert hall, but the imaging will seem imprecise with all the instruments mixed together. "Hardness" or over-bright sound is usually the result of a room with hard surfaces (glass, hard paneling, etc.). Moderation is the key.

Diffusers are also very helpful to improve the acoustics of a room. Extensive use of diffusers does not carry the same risks as too much absorption. Some of the best sound rooms we have heard had a large number of diffusers.

Optional Tweeter ,Midrange and Midbass Attenuation

To attenuate the tweeter or midrange, remove the jumper(s) and install a resistor.

The 1 ohm resistor is the standard tweeter and midrange resistor values. Other tweeter and midrange resistor values are available from your Magneplanar dealer.

Attenuation of midbass is accomplished with inductors. Your dealer or Magnepan will assist you in selecting inductors for midbass reduction.

Specifications

System Description	4-Way, full-range ribbon speaker with quasi-ribbon midrange, quasi-ribbon midbass coupler and quasi-ribbon bass and true ribbon tweeter.
Frequency Response	25Hz--40kHz
Sensitivity	87 dB, 500Hz, 1 meter, 2.83V
Impedance	Nominal 4 Ohms
Dimensions	
Warranty	Warranty LIMITED (non-transferrable). 5 years to original owner. 1 year on ribbon tweeter.
Shipping Weight	435 lbs.

* Because there are no universally accepted methods for loudspeaker measurements, frequency response specifications may be stated by most manufacturers without reference to measurement techniques and/or specific locations in rooms. Magneplanar loudspeaker frequency response specifications are average performance levels that may reasonably be expected in normal installations.