



SEE THE MUSIC

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M I R A G E A C O U S T I C S

# USER INFORMATION

## DEAR MIRAGE OWNER

Congratulations for having selected the best: MIRAGE loudspeakers. Although Mirage loudspeakers are easy to set up, we ask that you read the following instructions: following them will ensure that you attain the superb performance for which these speakers were designed.

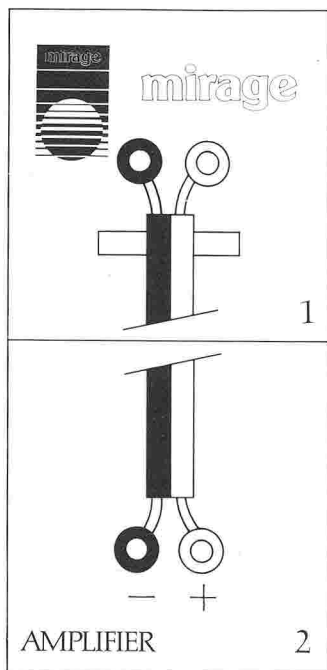
## SPEAKER WIRES

The length and type of wire you use will have audible effects. Your speakers will work with typical 18 gauge "lamp cord" for runs less than 3 metres (10 feet), or 16 gauge for 3-6 metres (10-20 foot) runs. Special speaker cables which offer better definition and tighter bass are available from your Mirage dealer. These

are recommended for optimum performance. If you have a separate preamplifier and power amplifier, it is preferable to use long cables between the pre-amp and power-amp, keeping the speaker wires as short as possible.

## CONNECTING YOUR SPEAKERS

The terminals on your Mirage loudspeakers will accept bare wires or banana plugs. The left and right speakers must be "in phase" with each other (connected in the same way). All speaker cables are marked so that you can tell the conductors apart. Connect the red or "+" amplifier output (Figure 2) to the red speaker terminal (Figure 1) and the black or "-" amplifier output (Figure 2) to the black speaker terminal (Figure 1). Make sure there are no fine strands of loose wire that could short between the red and black terminals, and tighten the terminals securely.



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## SPEAKER PLACEMENT — ALL MODELS

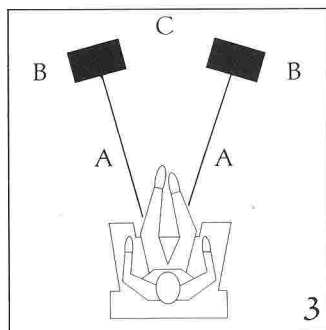
For optimum performance, your loudspeakers should each be the same distance from the listening position ("A", Figure 3). They may be toed in to point at the listener. The speakers should be closer to each other than they are to the listener. The listener should typically be 1/3 farther from the speakers than they are from each other.

The placement of your speakers in your room will have a large effect on bass response and "imaging" (the illusion of space and depth behind your speakers). Your speakers should be kept away from side walls (at least 60 cm or 2 feet) ("B", Figure 3) to reduce midrange reflections

and avoid excessive mid-bass reinforcement.

The distance between your speakers and the wall behind them ("C", Figure 3) will have a major effect on the achieved bass response. Generally speaking, placement close to or against the wall will result in the smoothest mid-bass response, and maximum low frequency energy. However, the sense of depth and space may be reduced when speakers are placed very close to the wall. (This is true for all speakers, including those intended for use against the wall). It is worth your time spending a few minutes to experiment with the speaker-to-wall distance. Most audiophiles find a distance of 45 to 60 cm (18" to 24") results in both good imaging and bass reinforcement.

In addition, the amount of perceived bass will increase as the listener gets closer to the wall behind the listening position.



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## BOOKSHELF SPEAKER PLACEMENT

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The smaller Mirage speakers, bearing model designations below "500", may be used on bookshelves, stands, or custom mounted on the wall. If they are used on a bookshelf, they should be placed approximately at ear level, when seated at your usual listening position. Best performance is achieved with your speakers standing vertically.

If stands are used, the speakers should be vertical. They may be used on high stands with ear level mid-way between the woofer and the tweeter, or on specially designed low stands (Mirage T-1) which tilt the speaker towards the listener. The Mirage T-1 stands are specially

designed for use with Mirage 450 loudspeakers.

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## MIRAGE SUBWOOFER PLACEMENT

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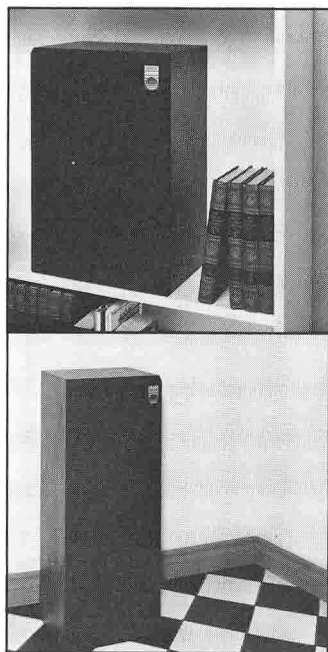
If you have purchased your Mirage speakers together with a Mirage Subwoofer System, you should refer to the detailed instructions supplied with the Subwoofer, in order to obtain optimum performance from your system.

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## LARGE & FLOORSTANDING MODEL PLACEMENT

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The larger Mirage speakers, including the 550 & 650, are designed to be used directly on the floor. The 750 is designed specifically for use on the T-2 stands. The model 750 is "mirror-imaged", and therefore the left and right speakers are different. Please make sure their position corresponds to the "left or right" label on the rear of the speaker.



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## GRILLES

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Mirage Acoustics uses only the most acoustically transparent grille cloth, on frames designed for minimum diffraction; however, demanding audiophiles may want to remove the grilles for serious listening sessions.

The grilles of the models 550, 650 and 750 are raised slightly above the bottom edge of the cabinet so as to not snag on carpet or to wear unduly when placed directly on the floor.

produced can damage *any* speaker. This type of damage is not covered under the warranty.

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## FURTHER HELP

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If you have any questions about your Mirage loudspeakers, or associated components, please feel free to write or call us. We will be glad to help.

Sincerely,

MIRAGE ACOUSTICS

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## POWER HANDLING

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All Mirage loudspeakers will handle high power levels. They are not fused, due to the negative audible side-effects of fuses. Avoid "clipping" your amplifier (playing it louder than it is capable of with low distortion), as the distorted signal



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