

Side Biasing

- Acknowledging the fact that you don't get to sit in the middle of the car is the first step to understanding side biasing. At home you can either move the speakers around to suit the position of the furniture, or vice-versa. In a car, you're stuck with sitting on the right or left, not in the middle where the sound is ideal. To further the problem, car manufacturers rarely put speakers where they'll sound best. Instead, they are usually placed where they'll conveniently fit. Add to that the speaker's physical cone construction (usually a generic design with no control of the sound wave pattern) and you have the problem of one side always being more predominant than the other side.
- This can only be fixed (or at least helped) in two ways. The most effective way, and most important factor in ANY stereo system, is to place the speakers where they are at similar distances from the ear of the listener. As you may have noticed, many OEM speaker locations are not this way, such as dashboard top locations and some door mount locations. Ideally, you want to move speakers into better positions where the path length of the left and right speakers are the same distance to the ear of the listener (or at least close). Sometimes this requires more custom work than you'll be willing to do to your car. But there's another good solution.
- Now, if you don't want to (or can't) move your speakers, why not just choose speakers with a more focused direction of sound? Speakers that send the sound in a more direct route rather than just emanating all over the cabin of your car. Most garden variety speakers do not address the fact that they will be used in a small space, like your car. You need speakers in the car that have some control of the sound pattern. The CDT speakers help to achieve this goal by their unique Contoured Dispersion Technology. While it won't change the position of your speakers, the Contoured Dispersion Technology in the CDT speakers will create the absolute best sound from the OEM speaker locations.

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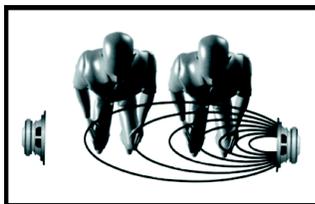
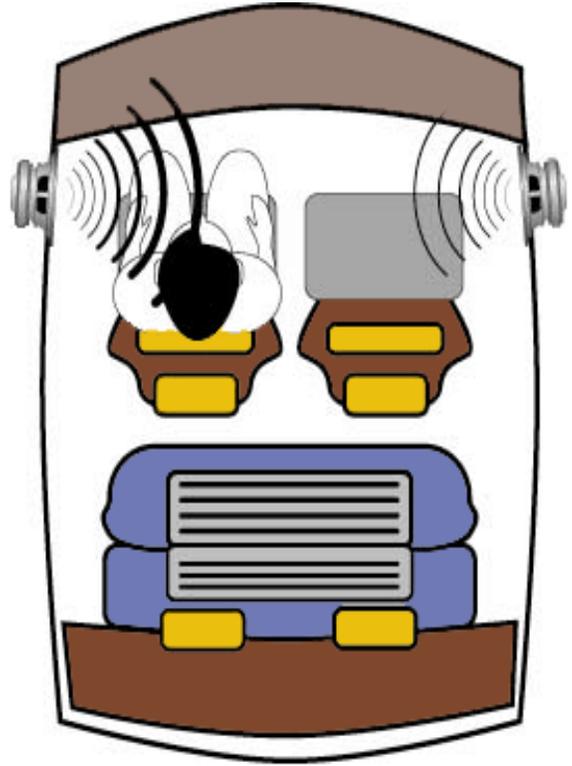


Figure A. Contoured dispersion.
Superior sound stage imaging

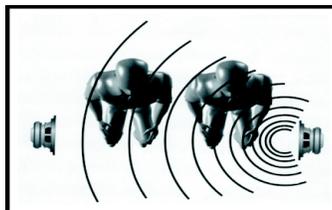


Figure B. Uncontoured dispersion.
Poor sound stage imaging

CDT Contoured Dispersion

Highly defined front sound stage and imaging in most vehicle types with a simple installation.

Un-Contoured Dispersion

Other brands create a confused sound stage and poor imaging, requires a difficult install to correct.

Tip: Either put your speakers in the optimum location or put the optimum speakers in the location you already have. Ideally, you could do both.

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