

StageFront™ Technology

StageFront™ Technology UpStage™ System 500-Series was developed by StageFront™ audio engineers to create a superior live event listening experience in vehicles of all types.



Attending the live event:

The impact of StageFront™ technology is immediately obvious – the voices and instruments seem to magically take shape in a seamless sound stage directly ahead above the dash. The result is to create a listening experience that is much more like the experience of attending the live event – the musicians and sound sources seem to be arrayed in front of you as if you were sitting at the live concert first row. Several psycho-acoustic effects need to be accomplished in order for this to work so well.

High frequencies to the front:

The sound image is moved more towards the front of the vehicle by gradually shifting the highest frequencies exclusively to the front of the vehicle, purposely directing (cross-firing) them inward and at an angle, using the windshield as a virtual ground plane. It is unlike any conventional speaker placement philosophy, but no other system creates the imaging effect of StageFront™ technology.

Less "highs" from the doors:

All door speakers in the system are sheped and blended to keep the existing (typically two-way) door speakers radiating nearly flat power up to carefully lowered upper cutoff frequency. These higher frequencies are typically directional and can interfere with the angular dispersion pattern created by the StageFront™ super tweeters mounted "cross-firing" up on the dash. This careful shaping and blending process enables the dash mounted tweeters to work transparently without creating a haze of localized reverberation in the front of the car. Unless the special StageFront™ universally compatible blending filter modules are used, the added tweeters would actually collapse the more natural and transparent frontal sound field that StageFront™ creates. Our extensive listening tests support this conclusion. The effects of StageFront technology are NOT subtle.

Reflective Cross-Firing

In our "UpStage" system 500 series only the highest frequencies are handled by the cross-firing tweeters that are mounted up on the dash or a-pillars. These tweeters utilize the surface of the windshield to project a sound field of great clarity and transparency. The sound images can even appear to originate from beyond the windshield given good source material. On all source material, StageFront™ technology ensures the apparent location of the sound source will not be associated with the position of the tweeters whether virtual or actual. This is a characteristic of any good speaker when properly set up. Extra spaciousness and clarity in the sound can be achieved. StageFront™ technology brings ideal "UpStage" imaging into any vehicle.

StageFront "UpStage" System, remove the distracting and low image sound effects from your conventional systems drivers and move your sound onto a seamless sound stage directly ahead up above the dash.

The Upstage™ system is available as a kit to transform your vehicle. It includes a special set of frequency-control modules that can be combined with various speaker components that include tweeters, crossover modules, and mounting kits.

The Upstage™ 500 series add-on module in the kit is a specific blending band-control module to set up the "cross-firing" windshield tweeters. This blending module also shape and filters the signals going to the door speakers to maintain non-varying controlled dispersion. On-board jumpers set up various types of door speakers. Level-matching options are also provided to set up the tweeters and perfect frequency tuning of the door speakers. A set of these tweeters and various mounting options completes the primary front kit.

One of the best things about the Upstage™ system is that none of your speakers, none of your crossovers, not one part of your system whatsoever needs to be ripped out or thrown out. The UpStage™ 500 system is an addition that improves and enhances what you already have.

Adding those two super tweeters (plus the addition of specially engineered shaping and blending modules you cannot see) will make you see the light... will make you see the future of more accurate, more realistic, and more exciting sound reproduction... and the future of music on the road



Dash cobra mount



Dash surface mount



A-Pillar flush mount



A-Pillar surface mount

