

TECHNOLOGY DATA SHEET

AS FEATURED ON THE VISTEON/3M PROMOTYPE VEHICLE

AIR INDUCTION SYSTEMS W/ VARIABLE NOISE CONTROL

DESCRIPTION:

Visteon's Air Induction System with Variable Noise Control uses an active resonator that changes tuning according to engine speed and operating condition. It eliminates multiple passive tuning devices while providing a higher level of engine sound tuning.



VALUE OPPORTUNITY

- Low cost alternative to Active Noise Control systems
- Eliminates proliferation of resonators required to address full RPM range
- Allows use of common hardware across multiple vehicles and multiple engines
- Sound attenuation strategy is software based, allowing NVH retuning without hardware changes

Actual hardware configuration will be developed to meet customer package and appearance requirements.

TECHNICAL BENEFITS

- Provides shaping of induction noise into specified sound signatures or to meet engine order based targets
- Creates brand specific sound signatures from the same powertrain
- Improves NVH for engine operation with cylinder deactivation by changing to an alternative attenuation strategy
- Provides up to 2% horsepower increase while maintaining the sound level

MARKET ASSESSMENT

Target Market:

OEM's interested in ability to "tune" their vehicle's engine sound to the vehicle target market. Performance based or luxury owners who prefer the quieter engine to improve the overall sound quality of their interior.

Initial Vehicle Segments:

Select buyers from all segments.

Annual Sales Potential (Based on Segments Above)*:

Approximately 8 million units

MegaTrend Categories:



*Annual sales potential based on 2007 U.S. sales (Jan-Nov) and analyst Dec projections.

PRODUCTION AVAILABILITY – 2009 CALENDAR YEAR

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