Sturman Industries

“The Environmental Injector: Beyond Common Rail And Hydraulic Intensification”

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Business Team

Poster Location P-15

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Beyond Common Rail and Hydraulic Intensification

- Move the fuel accumulator volume from the fuel rail to the injector nozzle. Maintain desired pressure throughout multiple injection events.

- Allow higher injection pressure by reducing pressure spikes at nozzle.

- Significantly reduce parasitic losses associated with venting by locating all high pressure fuel within the injector.

- Allow a wide range of alternative fuels via elimination of fuel as the working fluid within the injector. The Intensifier and Control valves operate in hydraulic fluid.

- Reduce cost and improve safety. Eliminate the high pressure pump and high pressure fuel lines under hood.

- Utilize hydraulic rail for multiple applications: hybridization, injectors, ride control, accessory drives, engine valves…