Cool Particulate Regeneration™, CPR™

Volkswagen LNT Jetta Demonstration

Volkswagen Lean NOx Trap (LNT) TDI US Tier 2 Bin 5 Solution

Efficient CPR Particulate Matter Removal allows Increased Exhaust Gas Recirculation and/or Increased LNT Regen Frequency

Goals of Volkswagen CPR Demo:
- Design, Procure, and Install CPR into VW Jetta
- Limited Modifications
- Complete CPR System Bench and Vehicle Demonstration
  - Maintain or Enhance Vehicle Performance* (ongoing testing)
  - Maintain Vehicle Efficiency* (ongoing testing)
  - Tier 2 Bin 5 Emissions*
    * - will require OEM/Supplier Support

- Flexible Hose Connection Capable of CPR Regeneration Pressure Designed and Procured
- ECM Simple Digital Closing of VW Exhaust Flapper for Regeneration Control
- Innovative New CPR Regeneration Valve Control Requires No Additional Electronic Controls
- 12.3 Liter PM Storage (Oil Change Interval)

CPR Bench Test with Full System - sequential frames Regeneration @ 240 Frames/sec >160 km/hr Regeneration Exit Velocity

10 Channel DAS CPR Valve

10.4 Liter Storage Tank Packaged within Front Fender

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