

Cool Particulate Regeneration™, CPR™

Volkswagen LNT Jetta Demonstration



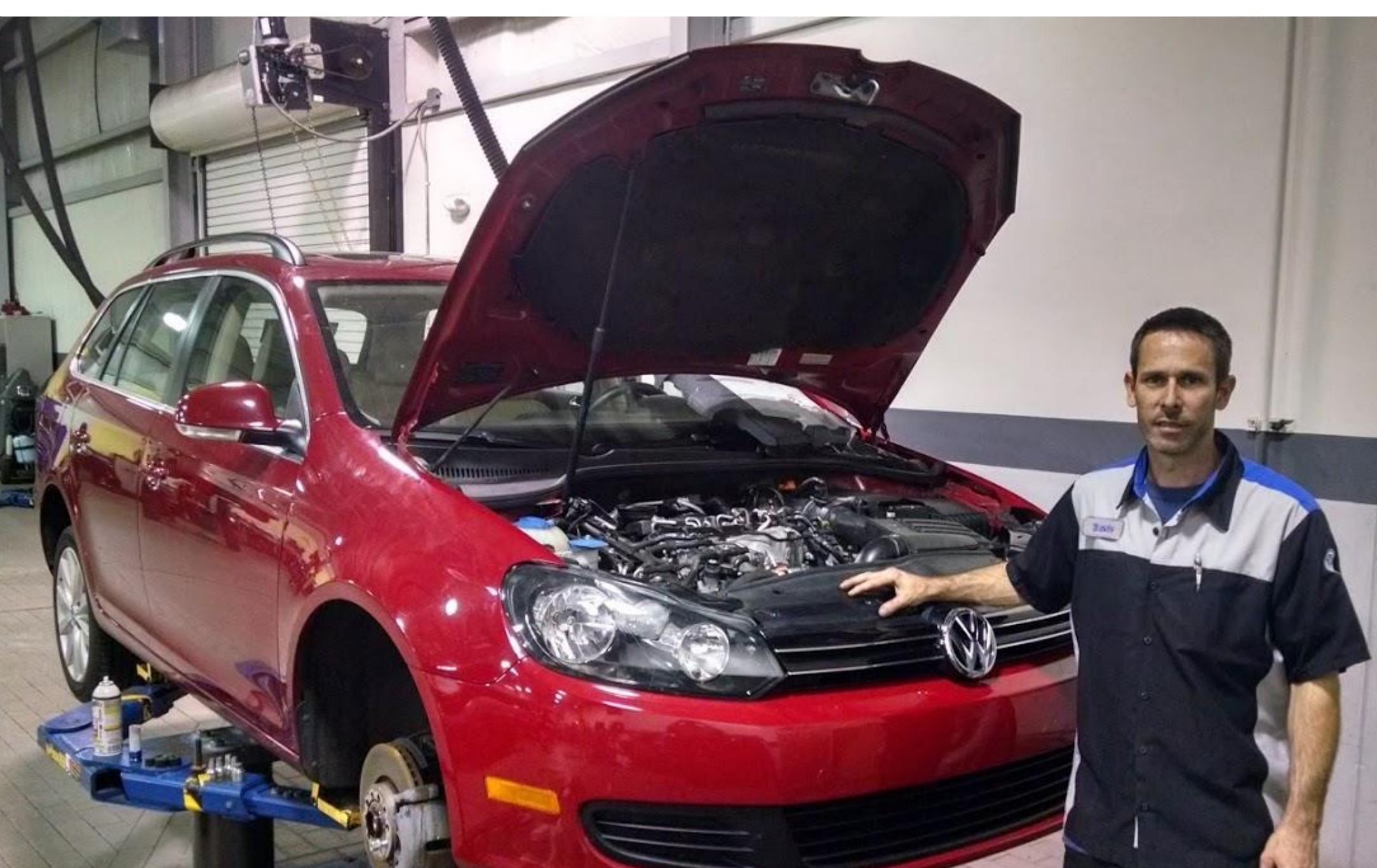
- Flexible Hose Connection Capable of CPR Regeneration Pressure Designed and Procured
- ECM Simple Digital Closing of VW Exhaust Flapper for Regeneration Control
- Innovative New CPR Regeneration Valve Control Requires No Additional Electronic Controls
- 12.3 Liter PM Storage (Oil Change Interval)



10 Channel DAS CPR Valve



10.4 Liter Storage Tank Packaged within Front Fender



Volkswagen Dealer Installed

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



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

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