Fuel Conversion Solutions

Lanny Wagoner - Vice President
CONVERSIONS
Fuel Conversion Solutions provides conversion systems for a wide variety of dedicated or bi-fuel vehicles running on Compressed Natural Gas (CNG) or Liquid Propane Gas (LPG). Our ASE Certified technicians install and service only EPA Certified systems. We enable fleets and individuals to run their vehicles on clean, cost-effective domestic fuels and provide unparalleled service and support. We’re based out of Grain Valley, Missouri and have performed conversions for customers in Missouri, Kansas, Nebraska, Oklahoma and Iowa. Contact us to learn what vehicles are available.

We currently provide systems for a dozen GM and Ford light-duty "engine families" covering about 40 vehicle models and new ones are being added frequently. To confirm the availability of a system for a particular vehicle please contact us with vehicle details and we’ll provide specifics on what options are available.

TRAINING
Fuel Conversion Solutions provides comprehensive training on CNG and LPG systems for technicians, fleet managers, first responders and others interested in the safe, efficient operation of these vehicles. President Nick Wagoner has been a nationally recognized alternative fuels trainer and consultant for over 19 years. Training can be provided at our facilities or at your location.

INSPECTIONS
CNG and LPG vehicles require regular inspections by a Certified Fuel System Inspector in order to ensure the safety and integrity of the systems. Fuel Conversion Solutions can provide these inspections or train your staff to become certified.

FCS can help you to begin using CNG or LPG vehicles in your fleet now and help you maximize the economic and environmental benefits of using these American fuels.
Types of Conversions?

- 3 types – Bi-Fuel, Dedicated, Dual Fuel
- 4 major components
  a) CNG system
  b) Tank
  c) Lines, Fittings, cover, etc...
  d) Labor
- High Pressure Tanks and lines – Low Pressure under hood
  a) 3600 psi
  b) NFPA 52 sets installation guidelines
## Overview of Program Elements

<table>
<thead>
<tr>
<th>Vehicle/Engine Age</th>
<th>Conversion Manufacturer Requirement</th>
<th>Certificate Issued?</th>
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</thead>
<tbody>
<tr>
<td>Category</td>
<td>Applicability</td>
<td>Example for 2013</td>
</tr>
<tr>
<td>New</td>
<td>MY &gt;= current calendar year - 1</td>
<td>MY 2011, 2012, 2013 and &lt; useful life mileage</td>
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<tr>
<td>Outside useful life</td>
<td>Exceeds useful life</td>
<td>MY2002 and older or &gt; full useful life in mileage</td>
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AVAILABLE EPA SYSTEMS

○ EPA Certified Systems
  a) Typically 2010 or newer
  b) CNG Conversion does not effect OEM Warranty
  c) Mainly Ford, GM and Dodge trucks and vans
  d) SUV’s – Tahoe, Suburban, Journey
  e) FEW cars are available – Avenger, Caravan, Transit Connect
  f) No EPA systems available for foreign vehicles (Toyota, Nissan, Kia, etc...)

[Note: This list may not be exhaustive and is subject to change. Contact local resources for the latest information.]
GM Model Vehicles
Ford Model Vehicles
Dodge/Chrysler
SUPPLIER PARTNERS

- FCS is a certified dealer/installer for:
  - Autogas America
  - Impco Automotive
    - Natural Drive
    - Evotech
  - Altech-Eco
  - Landi Renzo US
  - NatGasCar
Additional Providers

- **Westport LD / BAF**
  - Select Ford Vehicles
    - Dedicated and Bi-Fuel applications

- **Venchurs**
  - Ford F250/350
THANK YOU!

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