

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.

616 NW Valley Ridge Ct. Suite A • Grain Valley, MO 64029
816-443-2984 • www.fuelconversionsolutions.com

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.

FCS OK, 1026 S. 66th Street, Hanger 25, Enid, OK 73701
580-234-1400 * www.fuelconversionsolutions.com

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

Conversion Details



EPA vs. GENERIC

Overview of Program Elements					
Vehicle/Engine Age			Conversion Manufacturer Requirement		Certificate Issued?
Category	Applicability	Example for 2013	Demonstration	Notification	
New	MY \geq current calendar year - 1	MY 2011, 2012, 2013 and $<$ useful life mileage	Exhaust, Evap, and OBD testing ²	Certification application	Yes
Intermediate age	MY \leq current calendar year - 2 and $<$ useful life	MY 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 and $<$ useful life mileage	Exhaust and Evap testing ² + OBD scan tool test and attestation	Compliance submission ³	No
Outside useful life	Exceeds useful life	MY2002 and older or $>$ full useful life in mileage	Technical justification ⁴ and OBD scan tool test and attestation	Compliance submission ³	No

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...)

GM Model Vehicles



Hydrogen power



Ford Model Vehicles



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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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