

Available Natural Gas Vehicles and Engines
a listing of
Light-, Medium- and Heavy-Duty Vehicles and/or Engines
available directly from
Large Original Equipment Manufacturers (OEM)
or via **Qualified System Retrofitters Using EPA-/CARB-Certified Systems**
from **Small Volume OEMs (SVM)**

updated 7/21/2006

NGVAMERICA

Natural Gas Vehicles for America

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Original Equipment Manufacturer (OEM) Vehicles

General Motors

connie.scarpelli@gm.com

- GMC 6.0L V8 Bi-Fuel + Dedicated Sierra C/K 1500 2WD/4WD **Order cut-off: 3-10-06**
- Chevy 6.0L V8 Bi-Fuel + Dedicated Silverado C/K 1500 2WD/4WD **Order cut-off: 3-10-06**
- GMC/Chevy 6.0L V8 Savana /Express Vans (KL5 gaseous fuel engine option available for SVOEM system retrofit) **Order cut-off: 4-28-06**
- GMC/Chevy 6.0L V8 3500 Series Cutaway (KL5 gaseous fuel engine option available for SVOEM system retrofit) **Order cut-off: 4-28-06**

American Honda

gunnar.lindstrom@ahm.honda.com

- Honda 1.7L I4 Dedicated Civic GX

OEM Heavy-Duty Engines (see also: SVM Chart for additional listings)

Cummins Westport Inc

gexel@cumminswestport.com

5.9L "B Gas Plus" (spark-ignited)

195-230 HP; Is well suited to medium-duty applications such as shuttles, buses, pickup and delivery trucks, step vans, yard spotters, and street sweepers.

8.3L "C Gas Plus" (spark-ignited)

250-280 HP; Is for medium-duty truck and refuse truck applications, as well as urban and transit bus applications. Factory available in Autocar X-peditor and Peterbilt LCF 320 refuse vehicles, Allianz 4000 Series sweepers, Schwarz sweepers. Factory option on Crane-Carrier LCF and LET refuse

8.9L "L Gas Plus" (spark ignited)

320 HP; Is for heavy refuse trucks, dump and medium-duty trucks, heavy transit applications and articulated buses.

8.9L ISL G (spark-ignited)

CWI has announced that its ISL G 9.0L natural gas engine, to be available for MY 2007 vehicles, will meet the 2010 EPA emissions requirement of .2 NOx and .01PM

John Deere

cummingstone@johndeere.com

8.1L 6081H (spark ignited)

250-280HP; well-suited to transit, work truck and school bus applications. Factory supplied with Blue-Bird RE and Thomas Saf-T-Liner transit-style school buses; Crane-Carrier LCF and LET refuse trucks.

9.0L 6090 (spark ignited)

JDPS will offer its 2010-compliant 280-300+HP natural gas engine for MY 2007 orders. This new unit will take place of 8.1L unit now available in transit, school bus and vocational truck market.

Emission Solutions Inc

jimmoore@emissionsolutionsinc.com

7.6L NG Phoenix (spark-ignited)

265 HP; CNG/LNG-capable engine based on DT466 platform; ideal for DT466 engine replacement in existing school bus, medium- and medium-heavy-duty work truck applications.

Hybrid Fuel Systems

svanhooser@hybridfuelsystems.com

11.9L (Diesel-cycle)

HFS' EPA-certified dual-fuel system retrofits an existing Mack diesel engine to operate on a mix of natural gas and diesel fuel (up to 80% displacement of diesel with natural gas)

Notes for Chart A: Spark-Ignited Natural Gas Engine Retrofit ("Conversion") Systems

The chart on the following three pages lists EPA- and CARB-certified systems available to "convert"/retrofit existing gasoline engines to run either as dedicated natural gas engines or bi-fuel engines (capable of running on either natural gas or gasoline). EPA and CARB certifications are for specific model years and installation time-periods. Unlike the unregulated "conversion kits" that were available from dozens of manufacturers in the late-1970s through the mid-1990s, all gaseous fuel engine systems on the market today are engineered and tested to comply with the same tough CARB/EPA emissions performance requirements as the large automobile manufacturers. Some of the systems listed are for use in light-duty vehicles (<8500 pounds) and are therefore certified to a specific EPA- or CARB-designated emissions level (e.g., ULEV, SULEV), which may have bearing on the amount of state or federal incentives available. Vehicles over 8500 pounds are designated heavy-duty vehicles by EPA, or - under CARB's certification system - one of several graduated vehicle weight classifications (e.g., medium-heavy-duty, heavy-heavy-duty, etc). For both jurisdictions, vehicles above 8500 pounds are not delineated further, e.g., as ULEV

Several engine families, such as the 6.0L GM units may be certified for use in LDVs (<8500 pounds, e.g., a 1500 series Silverado) or for use in HDVs (>8500 pounds, e.g., GM's C/K 2500 utility chassis work truck). Only an engine certified for use in a HD application may be installed in an HDV. All the systems certified for the GM 8.1L and the Ford 6.8L engines are considered HDV certifications. Furthermore, all SVOEMs' systems may be installed before placing the vehicle into active service or afterward. System installations are usually handled by the firms noted here or their qualified systems retrofitters. Contact manufacturers for more information on certification levels, applicable model years and locations of qualified installers.

Chart "A": Spark-Ignited Natural Gas (SING) Engine Retrofit ("Conversion") Systems

Engine	Make	Model	Baytech Corporation			BAF Technologies			USEIC/Hybrid Fuel Systems			ECO Fuel			Campbell Parnell Tech.		
			Bi/ Ded.	EPA/ CARB	Model Year(s)	Bi / Ded.	EPA/ CARB	Model Year(s)	Bi / Ded.	EPA/ CARB	Model Year(s)	Bi / Ded.	EPA/ CARB	Model Year(s)	Bi / Ded.	EPA/ CARB	Model Year(s)
General Motors																	
3.1L V6	Buick	Century							Bi	E	2003	Bi	E	2003			
3.1L V6	Chevy	Malibu							Bi	E	2003	Bi	E	2003			
3.1L V6	Pontiac	Grand Prix							Bi	E	2003	Bi	E	2003			
3.4L V6	Chevy	Impala							Bi	E	2003	Bi	E	2003			
3.4L V6	Chevy	Monte Carlo							Bi	E	2003	Bi	E	2003			
3.4L V6	Olds	Alero							Bi	E	2003	Bi	E	2003			
3.4L V6	Pontiac	Grand Am							Bi	E	2003	Bi	E	2003			
3.4L V6	Pontiac	Grand Prix							Bi	E	2003	Bi	E	2003			
3.5L	Chv/GM	Colorado/Canyon 2WD/4WD										Ded	E	2006			
3.5L	Hummel	H3 AWD										Ded	E	2006			
3.8L V8	Buick	LeSabre							Bi	E	2003	Bi	E	2003			
3.8L V8	Buick	Park Avenue							Bi	E	2003	Bi	E	2003			
3.8L V8	Buick	Regal							Bi	E	2003	Bi	E	2003			
3.8L V8	Chevy	Impala							Bi	E	2003	Bi	E	2003			
3.8L V8	Chevy	Monte Carlo							Bi	E	2003	Bi	E	2003			
3.8L V8	Pontiac	Grand Am							Bi	E	2003	Bi	E	2003			
3.8L V8	Pontiac	Grand Prix							Bi	E	2003	Bi	E	2003			
4.3L V6	Chevy	Astro Minivan	Bi+Ded	E + C	2000-03				Bi	E	2003-05						
4.3L V6	Chevy	Astro Minivan	Ded.	E + C	2004-05												
4.3L V6	Chevy	Blazer 2WD/4WD	Bi+Ded	E + C	2000-03				Bi	E	2003-05						
4.3L V6	Chevy	Blazer 2WD/4WD	Ded.	E + C	2004-05												
4.3L V6	Chevy	Express Cargo Van G1500/2500	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	Chevy	Express Pass. Van G1500/2500	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	Chevy	S-10 2WD/4WD	Bi+Ded	E + C	2000-03				Bi	E	2003-05						
4.3L V6	Chevy	Silverado C/K1500 2WD/4WD	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	Chevy	Sonoma 2WD/4WD	Bi+Ded	E + C	2000-03				Bi	E	2003-05						
4.3L V6	GMC	Jimmy 2WD/4WD	Bi+Ded	E + C	2000-03												
4.3L V6	GMC	Jimmy 2WD/4WD	Ded.	E + C	2004-05				Bi	E	2003-05						
4.3L V6	GMC	Safari Minivan	Bi+Ded	E + C	2000-03												
4.3L V6	GMC	Safari Minivan	Ded.	E + C	2004-05				Bi	E	2003-05						
4.3L V6	GMC	Savana Cargo Van G1500/2500	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	GMC	Savana Pass. Van G1500/2500	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	GMC	Sierra C/K1500 2WD/4WD	Bi+Ded	E + C	2000-05				Bi	E	2003-05						
4.3L V6	Workhor	P Chassis	Bi+Ded	E + C	2000-03												
4.8L V8	Chevy	Express Pass/Cargo G1500/2500/3500										Ded	E	2006			
4.8L V8	Chevy	Silverado C/K1500 2WD/4WD							Bi	E	2005	Bi	E	2005			
4.8L V8	Chevy	Silverado C/K1500 2WD/4WD										Ded	E	2006			
4.8L V8	Chevy	Tahoe C/K 1500 2WD/4WD										Ded	E	2006			
4.8L V8	GMC	Savana Pass/Cargo G1500/2500/3500										Ded	E	2006			
4.8L V8	GMC	Sierra C/K1500 2WD/4WD							Bi	E	2005	Bi	E	2005			
4.8L V8	GMC	Sierra C/K1500 2WD/4WD										Ded	E	2006			
4.8L V8	GMC	Yukon C/K 1500 2WD/4WD										Ded	E	2006			

Company	Contacts Address	Telephone	E-Mail
American Honda Motor Co.	1919 Torrance Blvd, MS 100-3C-3A, Torrance, CA 90501	310-781-4412	gunnar_lindstrom@ahm.honda.com
BAF Technologies	2415 Beatrice Street, Dallas, TX 75208	214-231-1458	bcalvert@baftechnologies.com
Baytech Corporation	PO Box 1148, Los Altos, CA 94022	650-949-1976	sales@baytechcorp.com
Campbell-Parnell USA	1720 Deer Valley Rd #101, Phoenix, AZ 85024-5603	623-581-8335	tac1@parnellusa.com
Cummins Westport Inc.	1750 West 75th Ave., #101, Vancouver, BC V6P 6G2	604-718-2012	gexel@cumminswestport.com
ECO Fuel Systems Inc.	#2-20043 92A Ave, Langley, BC V1M 3A5	604-888-8384	markus@ecofuel.com
Emission Solutions Inc.	2001 Central Circle, Ste 106, McKinney TX 75069	972-369-0092	jimmoore@emissionsolutionsinc.com
General Motors	100 Renn. Ctr, 483A20B98 M.C., Detroit, MI 48265	313-665-0672	connie.scarpelli@gm.com
US Energy Initiatives/Hybrid Fuel Systems	2701 North Rocky Point Drive, Tampa, FL 33607	813-287-5787	svanhooser@hybridfuelsystems.com
John Deere Power Systems	P.O. Box 5100, Waterloo, IA 50704	319-292-5220	cummingstome@johndeere.com

For more information, please contact:

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