

U.S. Department of Energy  
Office of Transportation Technologies

# Heavy Vehicle and Engine Resource Guide



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**<http://www.afdc.doe.gov/pdfs/hvrg.pdf>**

For more information about Heavy Duty Vehicles  
visit the Alternative Fuel Vehicle Fleet Buyer's Guide

**<http://www.fleets.doe.gov/>**

or call the National Alternative Fuels Hotline

**Phone: 800-423-1DOE**

**Local/International: 703-934-3069**

**Fax: 703-934-3183**

**E-mail: [hotline@afdc.nrel.gov](mailto:hotline@afdc.nrel.gov)**

For additional information contact the National Alternative Fuels Hotline.

**Updated December, 2001**



# About This Guide

Welcome to the U.S. Dept. of Energy's *Heavy Vehicle & Engine Resource Guide*, a comprehensive product catalog of medium- and heavy-duty engines and vehicles with alternative fuel and advanced powertrain options.

The information included in this guide was collected by the National Renewable Energy Laboratory to provide fleet operators, policymakers, alternative fuel industry participants, and other interested parties with an overview of heavy vehicle and engine products currently available in the United States.

Beside product information, the guide also includes:

- contact information for vehicle and engine manufacturers as well as organizations and government agencies involved in the alternative fuel and advanced vehicle and engine market,
- a glossary of commonly used alternative fuel and advanced vehicle and engine terms and acronyms and
- a chart with applicable vehicle and engine emission certification specifications.

Product information in the guide is divided into three categories:

**Alternative Fuel Medium & Heavy Engines, Natural Gas & Propane Medium & Heavy Vehicles, and Hybrid-Electric, Battery-Electric & Fuel-Cell Heavy Vehicles.**

Product information was furnished by original equipment manufacturers. Respondents were asked to provide accurate, up-to-date information about all their heavy vehicle and engine products. All information in the guide is subject to change. Please visit manufacturer Web sites for the most up-to-date

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product information.

Best efforts were made to collect information from all manufacturers offering commercially available medium and heavy vehicles and engines with alternative fuel and advanced technology options, and to collect information on all their alternative fuel products. However, some manufacturers and products may not appear in the guide.

Our thanks go out to all manufacturers whose products appear in the guide for their cooperation. We hope you find the information useful and refer to it often!

# A Glossary of Abbreviations

<b>APU</b>	auxiliary power unit	<b>L</b>	liter
<b>bhp</b>	brake horsepower	<b>lb. or lbs.</b>	pounds
<b>CARB</b>	California Air Resources Board	<b>LEV</b>	low-emission vehicle
<b>CFF</b>	clean fuel fleet	<b>LNG</b>	liquefied natural gas
<b>CI</b>	cubic inch or compression ignition	<b>LPG</b>	liquefied petroleum gas
<b>CFFP</b>	Clean Fuel Fleet Program	<b>MD</b>	medium-duty
<b>CNG</b>	compressed natural gas	<b>mph</b>	miles per hour
<b>CO</b>	carbon monoxide	<b>MSRP</b>	manufacturer's suggested retail price
<b>DGE</b>	diesel gallon equivalent	<b>MY</b>	model year
<b>EPA</b>	Environmental Protection Agency	<b>N/A or NA</b>	not available or not applicable
<b>EV</b>	electric vehicle	<b>NMHC</b>	nonmethane hydrocarbons
<b>ft.-lb. or lb.-ft.</b>	foot-pound (pound-foot)	<b>NO<sub>x</sub></b>	oxides of nitrogen
<b>gal</b>	gallons	<b>OEM</b>	original equipment manufacturer
<b>g/bhp-hr</b>	grams per brake-horsepower hour	<b>PM</b>	particulate matter
<b>GVW</b>	gross vehicle weight	<b>rpm</b>	revolutions per minute
<b>HCHO</b>	formaldehyde	<b>scf</b>	standard cubic feet
<b>HD</b>	heavy-duty	<b>SI</b>	spark ignition
<b>HEV</b>	hybrid-electric vehicle	<b>SULEV</b>	super ultra low-emission vehicle
<b>ILEV</b>	inherently low-emission vehicle	<b>THC</b>	total hydrocarbons
<b>in</b>	inches	<b>ULEV</b>	ultra low-emission vehicle
<b>in<sup>3</sup></b>	cubic inches	<b>v</b>	volts
<b>kW-hr</b>	kilowatts hours	<b>ZEV</b>	zero-emission vehicle

# ENGINE / VEHICLE EMISSION STANDARDS FOR THE UNITED STATES\*

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-hr)	CO (g/bhp-hr)	PM (g/bhp-hr)	NOx (g/bhp-hr)
CARB LEV	1992-2001	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW <sup>J</sup>	0.33/0.43	8.1/10.3	0.12/0.12	1.0/1.5
CARB ULEV	1992-2003	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW <sup>J</sup>	0.197/0.257	8.1/10.3	0.06/0.06	1.0/1.5
CARB SULEV	1992 and later	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW <sup>J</sup>	0.1/0.13	4.1/5.2	0.06/0.06	0.5/0.7
CARB LEV <sup>E</sup>	1992-2001	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.5 NMHC + NOx	14.4	0.1	3.5 NMHC + NOx
CARB ULEV <sup>E</sup>	1992-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB SULEV <sup>E</sup>	1992 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.0 NMHC + NOx	7.2	0.05	2.0 NMHC + NOx
CARB	1994 and later	Heavy-duty diesel engines/vehicles (except urban transit buses)	1.2 <sup>C</sup>	15.5	0.1 <sup>F</sup>	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (except urban transit buses) <sup>D</sup>	1.2-1.3	15.5	0.1	5
U.S. EPA	1998 and later	Heavy-duty diesel eng./vehic. over 8,500 lb. GVW (comp. ignit./urban buses)	2.5 NMHC + NOx	15.5	0.1/0.05 <sup>A</sup>	4
U.S. EPA	1998 and later	HD diesel engines/vehicles 8,501-14,000 lb. GVW (spark-ignition/Otto cycle)	0.9	14.4	NA	4.0 <sup>B</sup>
U.S. EPA	1998 and later	HD diesel engines/vehicles over 14,000 lb. GVW (spark-ignition/Otto cycle)	1.7	37.1	NA	4.0 <sup>B</sup>
U.S. EPA CFFP LEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	3.8 NMHC + NOx (Fed. fuel) <sup>M</sup>	15.5	0.1	3.8 NMHC + NOx
U.S. EPA CFFP ILEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	2.5 NMHC + NOx <sup>K</sup>	14.4	0.1	2.5 NMHC + NOx
U.S. EPA CFFP ULEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	2.5 NMHC + NOx <sup>L</sup>	7.2	0.05	2.5 NMHC + NOx
U.S. EPA CFFP ZEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	0	0	0	0
CARB	1998 and later	Heavy-duty engines/vehicles (except urban buses)	1.2	15.5	0.1	4
CARB	2000 and later	Urban transit buses (fleets choosing diesel path)	1.2	15.5	0.05	4
CARB	2000 and later	Urban transit buses (fleets choosing alt. fuels path)	1.2	15.5	0.05	2.5 (optional)
CARB LEV <sup>E</sup>	2002-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.0 NMHC + NOx	14.4	0.1	3.0 NMHC + NOx
CARB	2002 and later	Urban transit buses (fleets choosing diesel path)	2.5 NOx + NMHC 4.8 NOx fleet ave.	15.5	0.05	2.5 NOx + NMHC 4.8 NOx fleet ave.
CARB	2002 and later	Urban transit buses (fleets choosing alternative fuels path)	1.8 NOx + NMHC (opt.) 4.8 NOx fleet ave.	15.5	0.03	1.8 NOx + NMHC (opt.) 4.8 NOx fleet ave.
CARB	2002 and later <sup>D</sup>	Heavy-duty engines/vehicles over 14,000 lb. GVW (except urban buses)	1.8 to 0.3 NMHC + NOx	15.5	0.03 to 0.01	1.8 to 0.3 NMHC + NOx
CARB	2004 and later	Heavy-duty engines/vehicles (except urban buses) <sup>H,1</sup>	2.4-2.5 NOx + NMHC	15.5	0.1	2.4-2.5 NOx + NMHC
CARB	2004 and later	Urban transit buses (fleets choosing diesel path)	NA	15.5	0.01	0.5
CARB ULEV Opt. A <sup>E</sup>	2004 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB ULEV Opt. B <sup>E</sup>	2004 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.4 NMHC + NOx	14.4	0.1	2.4 NMHC + NOx
CARB	2004-2006	New diesel-fueled, dual-fuel, or bifuel HD engines in urban transit buses	0.05	5.0/7.0	0.01	0.5
U.S. EPA CFF	2004 and later	Heavy-duty diesel engines for vehicles over 8,500 lb.	2.4 HC + NOx	15.5	0.1/0.05 <sup>A</sup>	2.4 HC + NOx
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 8,501-10,000 lb.	0.28 g/mile	NA	NA	0.9 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 10,001-14,000 lb.	0.33 g/mile	NA	NA	1.0 g/mile
CARB	2007 and later	Urban transit buses (fleets choosing diesel path)	NA	NA	0.01	0.2
CARB	2007 and later	Urban transit buses (fleets choosing alt. fuels path)	NA	NA	0.01	0.2
U.S. EPA	2007 and later	Heavy-duty diesel engines/vehicles	0.14	15.5	0.01	0.2
U.S. EPA	2008 and later	Heavy-duty Otto-cycle engines/vehicles	0.14	14.4	0.01	0.20
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 8,501-10,000 lb.	0.195 g/mile	7.3 g/mile	0.02 g/mile	0.2 g/mile
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 10,001-14,000 lb.	0.23 g/mile	8.1 g/mile	0.02 g/mile	0.4 g/mile

\*For more detailed information, visit the EPA Office of Transportation and Air Quality Web site at [www.epa.gov/otaq](http://www.epa.gov/otaq) or the CARB Web site at [www.arb.ca.gov](http://www.arb.ca.gov)

A. Standard for urban buses, MY 1996 and later

B. NOx standard for all natural gas-fueled engines is 5.0

C. NMHC standard applies to petroleum-, natural gas, and propane-powered engines

D. Optional standards effective 10/2002

E. Optional standards

F. PM standard for urban transit buses is 0.07 g/bhp-hr under transient operating conditions

G. For urban transit buses, NOx standard is 4.0 g/bhp-hr and PM standard is 0.05-0.07 g/bhp-hr

H. Standards apply to engines fueled with petroleum-based fuel, natural gas, or propane

I. Vehicles (other than urban transit buses) over 14,000 lb. GVW may also be certified to optional standards of 0.3-1.8 g/bhp-hr NOx and 0.01-0.03 g/bhp-hr PM

J. First standard listed for each pollutant is for engines/vehicles 8,501 to 10,000 lb. GVW; second standard listed is for engines/vehicles 10,001 to 14,000 lb. GVW

K. HCHO standard of 0.5 g/bhp-hr

L. HCHO standard of 0.25 g/bhp-hr

M. Standard for CARB fuel is 3.5 g/bhp-hr NMHC + NOx

# Information Sources for Heavy Vehicles & Engines

*Trade associations, R&D groups, government agencies, advocacy groups, etc.*

**Alternative Fuels Data Center & Hotline**  
**U.S. Dept. of Energy**  
Phone: 800-423-1363/703-934-3069  
Web site: [www.afdc.doe.gov](http://www.afdc.doe.gov)

**American Bioenergy Association**  
314 Massachusetts Ave. NE, Suite 200,  
Washington, DC 20002  
**Megan Smith**  
Phone: 202-467-6540  
Fax: 202-467-6541  
Web site: [www.biomass.org](http://www.biomass.org)

**American Bus Association**  
1100 New York Ave. NW, Suite 1050,  
Washington, DC 20005-3934  
**William Mahoney**  
Phone: 202-842-1645  
Fax: 202-842-0850  
Web site: [www.buses.org](http://www.buses.org)

**American Public Transportation Association**  
1666 K St. NW,  
Washington, DC 20006  
**Rose Gandee**  
Phone: 202-496-4889  
Fax: 202-496-4324  
Web site: [www.apta.com](http://www.apta.com)

**American Trucking Associations**  
2200 Mill Rd.,  
Alexandria, VA 22314-4677  
**Susan Coughlin**  
Phone: 703-838-1700  
Fax: 703-838-0291  
Web site: [www.truckline.com](http://www.truckline.com)

**California Air Resources Board (CARB), Mobile Source Operations Division**  
PO Box 8001,  
El Monte, CA 91734-2301  
**Allen Lyons**  
Phone: 626-450-6150  
Web site: [www.arb.ca.gov](http://www.arb.ca.gov)

**California Electric Transportation Coalition**  
925 L St., Suite 1490,  
Sacramento, CA 95814  
**David Modisette, Executive Director**  
Phone: 916-552-7077  
Fax: 916-552-7075

**California Energy Commission**  
1516 9th St., MS-41,  
Sacramento, CA 95814-2950  
**Transportation Technology/Fuels Dept.**  
Phone: 916-654-4634  
Fax: 916-653-4470  
Web site: [www.energy.ca.gov](http://www.energy.ca.gov)

**CALSTART/WESTART Advanced Vehicle Consortium**  
3360 E. Foothill Blvd.,  
Pasadena, CA 91107  
**Susan Romeo**  
Phone: 626-744-5600  
Fax: 626-744-5610  
Web site: [www.calstart.org](http://www.calstart.org)

**Clean Cities Program,**  
**U.S. Dept. of Energy**  
1000 Independence Ave. SW, EE-34,  
Washington, DC 20585  
**Shelley Launey, Program Director**  
Phone: 800-224-8437/202-586-1573  
Fax: 703-586-1600  
Web site: [www.ccities.doe.gov](http://www.ccities.doe.gov)

**Electric Transit Vehicle Institute**  
1617-B Wilcox Blvd.,  
Chattanooga, TN 37404  
**John Powell**  
Phone: 423-622-3884  
Fax: 423-622-0744  
Web site: [www.etvi.org](http://www.etvi.org)

**Electric Vehicle Association of the Americas**  
701 Pennsylvania Ave. NW, 4th Floor,  
Washington, DC 20004  
**Kateri Callahan, Executive Director**  
Phone: 202-508-5995  
Fax: 202-508-5924  
Web site: [www.evaa.org](http://www.evaa.org)

# Information Sources for Heavy Vehicles & Engines - cont'd

## **Engine Manufacturers Association**

Two N. LaSalle St., Suite 2200,  
Chicago, IL 60602

**Joe Cipolletti, executive director**

Phone: 312-827-8733

Fax: 312-827-8737

Web site: [www.engine-manufacturers.org](http://www.engine-manufacturers.org)

## **Federal Transit Administration (U.S.)**

400 7th St. SW, TRI-20,  
Washington, DC 20590

**William Siegel, Director, Office of Technology**

Phone: 202-366-0942

Fax: 202-366-3765

Web site: [www.fta.dot.gov/research/equip](http://www.fta.dot.gov/research/equip)

## **Gas Technology Institute**

1700 South Mt. Prospect Rd.,  
Des Plaines, IL 60018

**William E. Liss**

Phone: 847-768-0753

Fax: 847-768-0501

Web site: [www.gri.org](http://www.gri.org)

## **International Association for Natural Gas Vehicles (New Zealand)**

PO Box 28-590,  
Auckland, New Zealand

**Dr. Garth Harris, Secretary General**

Phone: 64-9-524-0945

Fax: 64-9-520-3122

Web site: [www.iangv.org](http://www.iangv.org)

## **National Alternative Fuels Training Consortium**

1460 Earl Core Rd.,  
Morgantown, WV 26506

**Bill McGlinchey**

Phone: 304-293-7882

Fax: 304-293-6944

Web site: <http://naftp.nrcce.wvu.edu>

## **National Biodiesel Board**

3337A Emerald Lane,  
Jefferson City, MO 65110-4898

**Joe Jobe, executive director**

Phone: 573-635-3893

Fax: 573-635-7913

Web site: [www.nbb.org](http://www.nbb.org)

## **National Propane Gas Association**

1600 Eisenhower Lane, Suite 100,  
Lisle, IL 60532-2167

**Sue Spear, Director of Education & Safety Activities**

Phone: 630-515-0600

Fax: 630-515-8774

Web site: [www.npga.org](http://www.npga.org)

## **National Renewable Energy Laboratory (NREL)**

1617 Cole Blvd.,  
Golden, CO 80401-3393

**Kevin Walkowicz**

Phone: 303-275-3607

Fax: 303-275-4415

Web site: [www.nrel.gov](http://www.nrel.gov)

## **Natural Gas Vehicle Coalition**

1100 Wilson Blvd., Suite 850,  
Arlington, VA 22209

**Richard Kolodziej, President**

Phone: 703-527-3022

Fax: 703-527-3025

Web site: [www.ngvc.org](http://www.ngvc.org)

## **Propane Education & Research Council**

1776 K St. NW, Suite 204,  
Washington, DC 20006

**Roy Willis, President**

Phone: 202-452-8975

Fax: 202-452-9054

Web site: [www.propanecouncil.org](http://www.propanecouncil.org)

## **Propane Vehicle Council**

1155 Connecticut Ave NW, Suite 300,  
Washington, DC 20036

**Joe Coleneri, Executive Director**

Phone: 202-530-0479

Fax: 202-429-0977

Web site: [www.propanegas.com/vehicle](http://www.propanegas.com/vehicle)

## **U.S. Dept. of Energy Office of Transportation Technologies**

1000 Independence Ave. SW, EE-33,  
Washington, DC 20585

**Steve Goguen**

Phone: 202-586-8044

Web site: [www.ott.doe.gov](http://www.ott.doe.gov)

## Information Sources for Heavy Vehicles & Engines - cont'd

**U.S. Environmental Protection Agency Office of  
Transportation and Air Quality**

1200 Pennsylvania Ave NW, 6401A,  
Washington, DC 20460

**Margo T. Oge**

Phone: 202-564-1682

Fax: 202-564-1686

Web site: [www.epa.gov/otaq](http://www.epa.gov/otaq)

**U.S. Fuel Cell Council**

1625 K St. NW, Suite 725,  
Washington, DC 20006

**Bob Rose**

Phone: 202-293-5500

Fax: 202-785-4313

Web site: [www.usfcc.com](http://www.usfcc.com)

# Vehicle & Engine Manufacturer Contact Information

## **Advanced Vehicle Systems Inc.**

### **Kirk Shore**

Phone: 423-821-3146

Fax: 423-821-0042

Web site: [www.avsbus.com](http://www.avsbus.com)

## **Alternative Fuel Technology**

### **Robert Lynch**

Phone: 972-392-1949

Fax: 972-661-1776

Web site: [www.cleanair1.com](http://www.cleanair1.com)

## **Arrow Specialty Co.**

### **Kavas Mistry**

Phone: 800-331-3662

Fax: 918-592-1481

Web site: [www.arrowspecialty.com](http://www.arrowspecialty.com)

## **Blue Bird Corp.**

### **Rusty Mitchell**

Phone: 478-822-2262

Fax: 478-822-2466

Web site: [www.blue-bird.com](http://www.blue-bird.com)

## **Capstone Turbine Corp.**

### **Keith Field**

Phone: 818-734-5465

Fax: 818-734-5320

Web site: [www.microturbine.com](http://www.microturbine.com)

## **Caterpillar/Power Systems Associates**

### **Ray Hartwell**

Phone: 309-578-3550

Fax: 309-578-6466

Web site: [www.caterpillar.com](http://www.caterpillar.com)

## **Champion Bus Inc.**

### **Paul Allmacher**

Phone: 800-776-4943

Fax: 810-724-1844

Web site: [www.championbus.com](http://www.championbus.com)

## **Chance Coach Inc.**

### **Fred Gilliam**

Phone: 316-838-1211

Fax: 316-779-7727

Web site: [www.chancecoach.com](http://www.chancecoach.com)

## **Crane Carrier Co.**

### **Richard Hugger**

Phone: 918-836-1651

Fax: 918-832-7343

Web site: [www.cranecarrier.com](http://www.cranecarrier.com)

## **Cummins Westport Inc.**

### **Scott Davidson**

Phone: 812-377-1734

Fax: 812-377-3082

Web site: [www.cummins.com](http://www.cummins.com) or [www.westport.com](http://www.westport.com)

## **Deere Power Systems Group**

### **Glen Crusciel**

Phone: 319-292-5465

Fax: 319-292-5075

Web site: [www.deere.com](http://www.deere.com)

## **Detroit Diesel Corp.**

### **John Craft**

Phone: 313-592-5000

Fax: 313-592-8176

Web site: [www.detroitdiesel.com](http://www.detroitdiesel.com)

## **Eldorado National**

### **Gentry Shaw**

Phone: 909-591-9557

Fax: 909-591-5285

Web site: [www.lasseter.com/eldorado.htm](http://www.lasseter.com/eldorado.htm)

## **Electric Vehicles International**

### **Paul Johnson**

Phone: 800-618-3722

Fax: 765-643-3726

Web site: [www.evi-usa.com](http://www.evi-usa.com)

## **Elgin Sweeper Co.**

### **Brian Giles**

Phone: 847-741-5370

Fax: 847-742-3035

Web site: [www.elginsweeper.com](http://www.elginsweeper.com)

## **Freightliner Custom Chassis Corp.**

### **Bryan Henke**

Phone: 864-487-1700

Fax: 864-487-6400

Web site: [www.freightlinerchassis.com](http://www.freightlinerchassis.com)

## **Freightliner Trucks**

### **Keith Harrington**

Phone: 503-745-8136

Fax: 503-735-6827

Web site: [www.freightliner.com](http://www.freightliner.com)

## **Ford Motor Co.**

### **Shannon Gibson**

Phone: 888-360-3907

Fax: 313-336-3094

Web site: [www.fleet.ford.com](http://www.fleet.ford.com)



# Vehicle & Engine Manufacturer Contact Information - cont'd

## **ISE Research Corp.**

**George Schuh**

Phone: 619-287-8785, ext. 129

Fax: 619-287-8795

Web site: [www.isereseach.com](http://www.isereseach.com)

## **Jasper Engines & Transmissions**

**Calvin Thorn**

Phone: 800-827-7455

Fax: 812-634-1820

Web site: [www.jasperengines.com](http://www.jasperengines.com)

## **Mack Trucks Inc.**

**Stephen Ginter**

Phone: 610-709-3259

Fax: 610-709-2380

Web site: [www.macktrucks.com](http://www.macktrucks.com)

## **Magnum Terminal Tractors/Kalmar Industries**

**Ron Gage**

Phone: 800-982-1527 or 903-759-5490

Fax: 903-297-8166

Web site: [www.magnumterminaltractor.com](http://www.magnumterminaltractor.com)

## **Motive Power Industries, a Wabtec Co.**

**Dennis Nott**

Phone: 208-947-3022

Fax: 208-947-3040

Web site: [www.wabtec.com](http://www.wabtec.com)

## **Motor Coach Industries**

**John Andrews**

Phone: 800-428-7626 or 847-299-9900

Fax: 847-299-7843

Web site: [www.mcicoach.com](http://www.mcicoach.com)

## **Neoplan USA Corp.**

**Joyce D. Surprise**

Phone: 719-336-3256

Fax: 719-336-4201

Web site: [www.neoplanusa.com](http://www.neoplanusa.com)

## **New Flyer of America**

**Philippe Bellon**

Phone: 204-224-1251

Fax: 204-224-4214

Web site: [www.newflyer.com](http://www.newflyer.com)

## **North American Bus Industries**

**Richard Himes**

Phone: 805-529-5080

Fax: 805-529-3858

Web site: [www.nabiusa.com](http://www.nabiusa.com)

## **Nova Bus Corp.**

**Joseph R. Gibson**

Phone: 450-974-0111

Fax: 972-870-4497

Web site: [www.novabuses.com](http://www.novabuses.com)

## **OmniTrans**

**Jim Maroney**

Phone: 405-840-2622

Fax: 405-840-3969

Web site: [www.cngvehicle.com](http://www.cngvehicle.com)

## **Orion Bus Industries**

**Paul Royal**

Phone: 905-403-1111

Fax: 905-403-8808

## **Peterbilt Motors Co.**

**Eric Hansen**

Phone: 940-591-4277

Fax: 940-591-4091

Web site: [www.peterbilt.com](http://www.peterbilt.com)

## **Solectria Corp.**

**Doug Alderton**

Phone: 978-658-2231

Fax: 978-658-3224

Web site: [www.solectria.com](http://www.solectria.com)

## **Spartan Motors Chassis Inc.**

**Edward Hendler**

Phone: 517-543-6400

Fax: 517-543-7728

Web site: [www.spartanmotors.com](http://www.spartanmotors.com)

## **Supreme Corp./Specialty Vehicles Inc.**

**Dale DeLine**

Phone: 714-848-8455

Fax: 714-848-2114

Web site: [www.specialtyvehicles.com](http://www.specialtyvehicles.com)

## **Thomas Built Buses**

**Ron Dillard**

Phone: 336-841-5725

Fax: 336-841-5734

Web site: [www.thomasbus.com](http://www.thomasbus.com)

## **TransTeq**

**Dale Hill**

Phone: 303-382-1041

Fax: 303-297-3990

Web site: [www.transteq.com](http://www.transteq.com)

## Vehicle & Engine Manufacturer Contact Information - cont'd

### **TYMCO Inc.**

**Bobby L. Johnson**

Phone: 800-258-9626

Fax: 254-799-2722

Web site: *www.tymco.com*

### **XCELLSIS Inc.**

**Bruce Rothwell**

Phone: 604-432-9200

Fax: 604-419-6400

Web site: *www.xcellsis.com*

### **Volvo Trucks North America**

**Rick Beavan**

Phone: 336-393-2779

Fax: 336-393-2197

Web site: *www.volvotrucks.com*

# Alternative Fuel Medium & Heavy Engines

## Alternative Fuel Technology

Web site: <http://www.cleanair1.com>

Phone: 972-392-1949

Dealer locator Web site: N/A

Dealer locator phone: N/A

### H/D DT466 Natural Gas

**Fuel type:** CNG; LNG

**Displacement:** 7.6 liter

**Rated horsepower:** 250 hp

**Peak torque:** 640 ft.-lb.

**Emission certification(s):** CARB Low NOx

(2.0); EPA Heavy-Duty; EPA LEV

**Emission control device?** Yes

**Number of Cylinders:** 6

**Dry weight:** 2,200 lb.

**Application(s):** Truck; transit bus; school bus; trolley; shuttle; offroad

**Model description:** Spark-ignited, dedicated closed-loop, stoichiometric, electronic-controlled, tamper-proof.

**Warranty information:** 10-yr./300,000-mi.

## Caterpillar

Web site: <http://www.caterpillar.com>

Phone: 309-675-1000

Dealer locator Web site: <http://www.caterpillar.com/dealers>

Dealer locator phone: N/A

### C-10 Dual-Fuel

**Fuel type:** CNG; LNG

**Displacement:** 10 liter

**Rated horsepower:** 305 hp

**Peak torque:** 1050 ft.-lb.

**Emission certification(s):** EPA LEV; CARB Low NOx (2.5)

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 2100 lb.

**Application(s):** Offroad; transit bus; truck

**Model description:** Similar performance to diesel; clean emissions; compatible with compression brake installation; full electronic operation; diesel resale value at trade time; attractive operating economies depending on location, mileage.

**Warranty information:** Same as standard diesel.

### C-12 Dual-Fuel

**Fuel types:** CNG, LNG

**Displacement:** 12 liter

**Rated horsepower:** 410 hp

**Peak torque:** 1250 ft.-lb.

**Emission certification(s):** EPA LEV; CARB Low NOx

**Emission control device?** No

**Number of Cylinders:** 6

**Dry weight:** 2120 lb.

**Application(s):** Truck; transit bus; offroad

**Model description:** Similar to diesel performance; clean emissions; diesel resale value at trade time. Full electronic operation.

**Warranty information:** Same as standard diesel.

### 3126E Dual-Fuel 190

**Fuel type:** CNG; LNG

**Displacement:** 7.2 liter

**Rated horsepower:** 190 hp

**Peak torque:** 520 ft.-lb.

**Emission certification(s):** CARB Low NOx (2.5); EPA LEV

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 1347 lb.

**Application(s):** Truck; school bus; trolley; shuttle

**Model description:** Similar performance to diesel; better fuel efficiency than spark-ignited, gas engines; clean emissions; compatible with compression brakes installation; full diesel resale value at trade time; full electronic operation.

**Warranty information:** Same as standard diesel.

### 3126E Dual-Fuel 250

**Fuel type:** CNG; LNG

**Displacement:** 7.2 liter

**Rated horsepower:** 250 hp

**Peak torque:** 640 ft.-lb.

**Emission certification(s):** CARB Low NOx (2.5); EPA LEV

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 1347 lb.

**Application(s):** Truck; school bus; trolley; shuttle

**Model description:** Similar performance to diesel; better fuel efficiency than spark-ignited, gas engines; clean emissions; compatible with compression brakes installation; full diesel resale value at trade time; full electronic operation.

**Warranty information:** Same as standard diesel.

<p><b>B5.9G 150</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 5.9 liter  <b>Rated horsepower:</b> 150 hp  <b>Peak torque:</b> 375 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 910 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas.  <b>Warranty information:</b> 2 years, unlimited miles (all markets).</p>
<p><b>B5.9G 195</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 5.9 liter  <b>Rated horsepower:</b> 195 hp  <b>Peak torque:</b> 420 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 910 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas.  <b>Warranty information:</b> 2 years, unlimited miles (all markets).</p>
<p><b>B5.9G 230</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 5.9 liter  <b>Rated horsepower:</b> 230 hp  <b>Peak torque:</b> 500 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 910 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas.  <b>Warranty information:</b> 2 years, unlimited miles (all markets).</p>
<p><b>B5.9LPG</b>  <b>Fuel type:</b> Propane  <b>Displacement:</b> 5.9 liter  <b>Rated horsepower:</b> 195 hp  <b>Peak torque:</b> 420 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.5)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 910 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on HD-5 propane.  <b>Warranty information:</b> 2 years, unlimited miles (all markets).</p>
<p><b>C8.3G Plus 250</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 8.3 liter  <b>Rated horsepower:</b> 250 hp  <b>Peak torque:</b> 660 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 1330 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards.  <b>Warranty information:</b> 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).</p>
<p><b>C8.3G Plus 275</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 8.3 liter  <b>Rated horsepower:</b> 275 hp  <b>Peak torque:</b> 750 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 1330 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards.  <b>Warranty information:</b> 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).</p>
<p><b>C8.3G Plus 280</b>  <b>Fuel type:</b> CNG; LNG  <b>Displacement:</b> 8.3  <b>Rated horsepower:</b> 280 hp  <b>Peak torque:</b> 850 ft.-lb.</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0)  <b>Emission control device?</b> Yes  <b>Number of cylinders:</b> 6  <b>Dry weight:</b> 1330 lb.  <b>Application(s):</b> Truck; school bus; trolley; shuttle; refuse</p>	<p><b>Model description:</b> Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards.  <b>Warranty information:</b> 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).</p>

## Detroit Diesel Corp.

Web site: <http://www.detroitdiesel.com>

Phone: 313-592-5000

Dealer locator Web site: <http://www.detroitdiesel.com>

Dealer locator phone: 313-592-5000

### Series 50G

**Fuel type:** CNG; LNG

**Displacement:** 8.5 liter

**Rated horsepower:** 275 hp

**Peak torque:** 890 ft.-lb.

**Emission certification(s):** EPA Heavy-Duty; CARB Low NOx (2.0)

**Emission control device?** No

**Number of cylinders:** 4

**Dry weight:** 2230 lb.

**Application(s):** Transit bus; truck; gen set

**Model description:** Dedicated natural gas, full elec. control, flat torque 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor; exhaust temp. sensor.

**Warranty information:** 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

### Series 60G 330

**Fuel type:** CNG; LNG

**Displacement:** 12 liter

**Rated horsepower:** 330 hp

**Peak torque:** 1400 ft.-lb.

**Emission certification(s):** EPA Heavy-Duty; CARB Low NOx (2.5)

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 2660 lb.

**Application(s):** Transit bus; truck; gen set

**Model description:** Dedicated natural gas, full elec. control, flat torque from 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor; exhaust temp. sensor.

**Warranty information:** 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

### Series 60G 400

**Fuel type:** CNG; LNG

**Displacement:** 12 liter

**Rated horsepower:** 400 hp

**Peak torque:** 1450 ft.-lb.

**Emission certification(s):** EPA Heavy-Duty; CARB Low NOx (2.5)

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 2660 lb.

**Application(s):** Transit bus; truck; gen set

**Model description:** Dedic. natural gas, full elec. control, flat torque from 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor; exhaust temp. sensor.

**Warranty information:** 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

## Jasper Alternate Fuels

Web site: <http://www.jasperengines.com>

Phone: 800-827-7455

Dealer locator Web site: [deltapropane@citlink.net](mailto:deltapropane@citlink.net)

Dealer locator phone: 916-775-1111

### Jasper 460

**Fuel type:** Propane

**Displacement:** 7.5 liter

**Rated horsepower:** 110 hp

**Peak torque:** 393 ft.-lb.

**Emission certification(s):** CARB Low NOx (1.5)

**Emission control device?** Yes

**Number of cylinders:** 8

**Dry weight:** 1000 lb.

**Application(s):** Offroad

**Model description:** Engine is equipped with Terminox-DGC digital closed-loop fuel control-flywheel, industrial bellhousing, exhaust headers, Y manifold total exhaust.

**Warranty information:** Warranted for a period of 2 years or 1,500 hours, whichever comes first.

## John Deere Power Systems

Web site: <http://www.deere.com>

Phone: 319-292-5465

Dealer locator Web site: <http://www.deere.com>

Dealer locator phone: 1-800-533-6446

### 6081H 250

**Fuel type:** CNG

**Displacement:** 8.1

**Rated horsepower:** 250 hp

**Peak torque:** 800 ft.-lb.

**Emission certification(s):** EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.5)

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 1470 lb.

**Application(s):** Truck; transit bus; school bus; shuttle; other

**Model description:** John Deere PowerTech 8.1L, 250 hp engine utilizes lean-burn, closed-loop adaptive-learn technology. The electronically controlled fuel management system provides excellent emissions control, diesel-like performance, fuel economy, and reliability while reducing maintenance costs and lowering noise levels.

**Warranty information:** School and activity buses: 5 years/100,000 miles, whichever occurs first, from the date of delivery to the first retail purchaser. Extended warranty is available. Commercial buses: 2 years from date of delivery to the first purchaser; no distance limit. Extended warranty available.

6081H 280  
**Fuel type:** CNG  
**Displacement:** 8.1  
**Rated horsepower:** 280 hp  
**Peak torque:** 900 ft.-lb.

**Emission certification(s):** EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0)  
**Emission control device?** Yes  
**Number of cylinders:** 6  
**Dry weight:** 1470 lb.  
**Application(s):** Truck; transit bus; school bus; shuttle; other

**Model description:** John Deere PowerTech 8.1L, 280 hp engine utilizes lean-burn, closed-loop adaptive-learn technology. The electronically controlled fuel management system provides excellent emissions control, diesel-like performance, fuel economy, and reliability while reducing maintenance costs and lowering noise levels.  
**Warranty information:** School and activity buses: 5 years/100,000 miles, whichever occurs first, from the date of delivery to the first retail purchaser. Extended warranty is available. Commercial buses: 2 years from date of delivery to the first purchaser; no distance limit. Extended warranty available.

6068H  
**Fuel type:** CNG  
**Displacement:** 6.8  
**Rated horsepower:** 225 hp  
**Peak torque:** 640 ft.-lb.

**Emission certification(s):** EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.5)  
**Emission control device?** No  
**Number of cylinders:** 6  
**Dry weight:** 1290 lb.  
**Application(s):** Truck; transit bus; school bus; shuttle; other

**Model description:** John Deere PowerTech 6.8L natural gas engine rate at 225 hp is a dedicated CNG engine that utilizes lean-burn, closed-loop, adaptive-learn technology. The electronically controlled fuel management system provides diesel-like performance, fuel economy, and reliability while reducing maintenance costs and significantly lowering noise levels.  
**Warranty information:** School bus and activity bus: 5 years/100,000 miles, whichever occurs first from date of delivery to the first retail purchaser. Extended warranty available. Commercial bus: 2 years from date of delivery to first retail purchaser; no distance limit. Extended warranty available.

Mack Trucks, Inc.  
**Web site:** <http://www.macktrucks.com>

**Phone:** 610-709-3259  
**Dealer locator Web site:** <http://www.macktrucks.com>  
**Dealer locator phone:** N/A

Eco-Tech E7G 325  
**Fuel type:** CNG; LNG  
**Displacement:** 12  
**Rated horsepower:** 325 hp  
**Peak torque:** 650 ft.-lb.

**Emission certification(s):** CARB Low NOx (2.0)  
**Emission control device?** No  
**Number of cylinders:** 6  
**Dry weight:** 2,150 lb.  
**Application(s):** Truck

**Model description:** 21% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy.  
**Warranty information:** 2-yr./300,000-mi. warranty with 5-yr./500,000-mi. major component warranty.

Eco-Tech E7G 325  
**Fuel type:** CNG; LNG  
**Displacement:** 12  
**Rated horsepower:** 325 hp  
**Peak torque:** 1180 ft.-lb.

**Emission certification(s):** CARB Low NOx (2.5)  
**Emission control device?** No  
**Number of cylinders:** 6  
**Dry weight:** 2150 lb.  
**Application(s):** Truck

**Model description:** 35% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy.  
**Warranty information:** 3-yr./300,000-mi. warranty with 5-yr./500,000-mi. warranty on major components. Custom warranties available.

Eco-Tech E7G 350

**Fuel type:** CNG; LNG

**Displacement:** 12

**Rated horsepower:** 350 hp

**Peak torque:** 1250 ft.-lb.

**Emission certification(s):** EPA Heavy-Duty;

CARB Low NOx (2.5)

**Emission control device?** No

**Number of cylinders:** 6

**Dry weight:** 2150 lb.

**Application(s):** Truck

**Model description:** 23% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with waste gate turbo for excellent fuel economy.

**Warranty information:** 3-yr./300,000-mi. warranty with 5-yr./500,000-mi. warranty on major components. Custom warranties available.

# Natural Gas & Propane Medium & Heavy Vehicles

**Blue Bird Corp.**  
**Web site:** <http://www.blue-bird.com>

**Phone:** 478-822-2262  
**Dealer locator Web site:** <http://www.blue-bird.com>  
**Dealer locator phone:** N/A

**CSFE Commercial Series Front-Engine Bus**  
**Application(s):** Transit bus; shuttle  
**Fuel type:** LNG  
**Engine make(s)/model(s):** Cummins 5.9G  
**Transmission make(s)/model(s):** Allison MT643; Allison B300; Allison B300 R  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV  
**MSRP with alternative fuel:** \$ 90,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 30,000 lb.  
**Seating capacity:** 49

**Model description:** Available in 25- to 37-foot lengths, with engines equipped for either LNG or CNG.  
**Warranty information:** N/A

**CSFE Commercial Series Front-Engine Bus**  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Cummins 5.9G  
**Transmission make(s)/model(s):** Allison MT643; Allison B300; Allison B300 R  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV  
**MSRP with alternative fuel:** \$ 90,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 30,000 lb.  
**Seating capacity:** 49

**Model description:** Available in 25- to 37-foot lengths, with engines equipped for either LNG or CNG.  
**Warranty information:** N/A

**CSRE Commercial Series Rear-Engine Bus**  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Deere 6068H; Deere 6081H; Cummins 5.9G  
**Transmission make(s)/model(s):** Allison AT545, MT643, B300, B300R  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; EPA ULEV; CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 150,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** N/A  
**Seating capacity:** N/A

**Model description:** Available in 32- to 39-foot lengths. Emission certification depends on engine make.  
**Warranty information:** N/A

**Q-Bus (QBRE)**  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Deere 6068H; Deere 6081H; Cummins 5.9G  
**Transmission make/model:** Allison AT545  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; EPA ULEV; CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 190,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 30,000 lb.  
**Seating capacity:** 33

**Model description:** Rear-engine, 29-foot bus with custom-designed chassis and heavy-duty suspension. All-steel body construction. Emission certification depends on engine make.  
**Warranty information:** N/A

**Champion Bus Inc.**  
**Web site:** <http://www.championbus.com>

**Phone:** 800-776-4943  
**Dealer locator Web site:** N/A  
**Dealer locator phone:** 800-776-4943

**Crusader**  
**Application(s):** Transit bus; shuttle; paratransit  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Ford, GM  
**Transmission make(s)/model(s):** N/A  
**Transmission type:** Automatic

**Emission certification(s):** EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)  
**MSRP with alternative fuel:** \$ 55,000  
**Fuel capacity:** 30 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 10,700 lb.  
**Seating capacity:** 14

**Model description:** Type 2 steel hoop-wrapped tanks; Ford, Chevy cutaway chassis.  
**Warranty information:** Chassis: 3-yr / 36,000-mi.; body: 5-yr / 75,000-mi.



<p><b>Challenger</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Ford natural gas engines; GM natural gas engines  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 60,000  <b>Fuel capacity:</b> 33 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 14,000 lb.  <b>Seating capacity:</b> 25</p>	<p><b>Model description:</b> Type 2 steel hoop-wrapped tanks; Ford or Chevrolet cutaway chassis.  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>
<p><b>Commodore</b>  <b>Application(s):</b> Shuttle; paratransit  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> GM 5.7 LPG  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 65,000  <b>Fuel capacity:</b> 21 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 14,100 lb.  <b>Seating capacity:</b> 21</p>	<p><b>Model description:</b> Workhorse P30 rail chassis.  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>
<p><b>CTS</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission makes/models:</b> Allison AT545  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; CARB Low NOx (1.5); EPA ULEV  <b>MSRP with alternative fuel:</b> \$ 89,000  <b>Fuel capacity:</b> 36 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 19,000 lb.  <b>Seating capacity:</b> 37</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>
<p><b>Contender</b>  <b>Application(s):</b> Transit bus; shuttle  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison MT643  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 185,000  <b>Fuel capacity:</b> 39 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 28,000 lb.  <b>Seating capacity:</b> 35</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.</p>
<p><b>Solo</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> CNG  <b>Engine make/model:</b> Cummins 5.9G 230  <b>Transmission make(s)/model(s):</b> Allison MT643  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 220,000  <b>Fuel capacity:</b> 70 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 31,000 lb.  <b>Seating capacity:</b> 28</p>	<p><b>Model description:</b> Low-floor design, pressed steel tanks, 3,600 psi  <b>Warranty information:</b> Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.</p>
<p><b>Crusader</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Ford LPG; GM LPG  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$55,000  <b>Fuel capacity:</b> 20 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 10,700 lb.  <b>Seating capacity:</b> 14</p>	<p><b>Model description:</b> Ford or Chevrolet cutaway chassis.  <b>Warranty information:</b> Chassis: 3-yr / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>

<p><b>Challenger</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Ford LPG; GM LPG  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> Automatic  <b>Emission certification(s):</b> EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)</p>	<p><b>MSRP with alternative fuel:</b> \$ 60,000  <b>Fuel capacity:</b> 21 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 14,000 lb.  <b>Seating capacity:</b> 25</p>	<p><b>Model description:</b> Ford or Chevrolet cutaway chassis.  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>
<p><b>Commodore</b>  <b>Application(s):</b> Shuttle; paratransit  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> GM 5.7 natural gas  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> Automatic  <b>Emission certification(s):</b> EPA Heavy-Duty; EPA</p>	<p>ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 65,000  <b>Fuel capacity:</b> 32 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 14,100 lb.  <b>Seating capacity:</b> 21</p>	<p><b>Model description:</b> Type 2 steel hoop-wrapped tanks; workhorse P30 rail chassis.  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>
<p><b>Solo</b>  <b>Application(s):</b> Transit bus; paratransit  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison MT643  <b>Transmission type:</b> Automatic  <b>Emission certification(s):</b> EPA Heavy-Duty; EPA</p>	<p>ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 220,000  <b>Fuel capacity:</b> 46 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 31,000 lb.  <b>Seating capacity:</b> 28</p>	<p><b>Model description:</b> Low-floor design  <b>Warranty information:</b> Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.</p>
<p><b>Contender</b>  <b>Application(s):</b> Transit bus; shuttle; paratransit  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins 5.9 G  <b>Transmission make(s)/model(s):</b> Allison MT643  <b>Transmission type:</b> Automatic  <b>Emission certification(s):</b> EPA LEV; EPA Heavy-</p>	<p>Duty; EPA ULEV; CARB Low NOx (1.5)  <b>MSRP with alternative fuel:</b> \$ 185,000  <b>Fuel capacity:</b> 60 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 28,000 lb.  <b>Seating capacity:</b> 35</p>	<p><b>Model description:</b> Pressed steel tanks, 3,600 psi  <b>Warranty information:</b> Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.</p>
<p><b>CTS</b>  <b>Application(s):</b> Transit bus; paratransit; shuttle  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins 5.9G 195  <b>Transmission make(s)/model(s):</b> Allison AT545  <b>Transmission type:</b> Automatic  <b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; CARB Low NOx (1.5); EPA ULEV</p>	<p><b>MSRP with alternative fuel:</b> \$ 89,000  <b>Fuel capacity:</b> 55 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 19,000 lb.  <b>Seating capacity:</b> 37</p>	<p><b>Model description:</b> Pressed steel tanks, 3,600 psi  <b>Warranty information:</b> Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.</p>

**Chance Coach, Inc.** Phone: 888-391-1777  
Web site: <http://www.chancecoach.com> Dealer locator Web site: N/A  
Dealer locator phone: N/A

<p><b>AH-28</b>  <b>Application(s):</b> Trolley  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison MT643; Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.5)  <b>MSRP with alternative fuel:</b> \$ 290,000  <b>Fuel capacity:</b> 49 DGE  <b>Estimated driving range:</b> 250 miles  <b>GVW:</b> 26,500 lb.  <b>Seating capacity:</b> 28</p>	<p><b>Model description:</b> Early 20th century American streetcar styling.  <b>Warranty information:</b> Complete coach: one year / 50,000 mi.; engine, transmission axles and air conditioning: two years.</p>
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<p><b>OPUS</b>  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins 5.9G 230  <b>Transmission make(s)/model(s):</b> Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.0)  <b>MSRP with alternative fuel:</b> \$ 285,000  <b>Fuel capacity:</b> 93 DGE  <b>Estimated driving range:</b> 250 miles  <b>GVW:</b> 33,500 lb.  <b>Seating capacity:</b> 27</p>	<p><b>Model description:</b> The new OPUS low-floor bus.  <b>Warranty information:</b> Complete coach: one year/50,000 mi.; engine, transmission, axles, and air conditioning: two years.</p>
<p><b>AH-28</b>  <b>Application(s):</b> Trolley  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins 5.9G 195  <b>Transmission make(s)/model(s):</b> Allison MT643; Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.0)  <b>MSRP with alternative fuel:</b> \$ 312,000  <b>Fuel capacity:</b> 64 DGE  <b>Estimated driving range:</b> 250 miles  <b>GVW:</b> 28,500 lb.  <b>Seating capacity:</b> 28</p>	<p><b>Model description:</b> Early 20th Century American streetcar styling. Roof-mounted fuel tanks.  <b>Warranty information:</b> Complete coach: one year/50,000 mi.; engine, transmission axles and air conditioning: two years.</p>
<p><b>Crane Carrier Co.</b>  <b>Web site:</b> <a href="http://www.cranecarrier.com">http://www.cranecarrier.com</a></p>		
<p><b>LCF</b>  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Cummins C8.3G Plus 275  <b>Transmission make(s)/model(s):</b> Allison MD3560P  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA ULEV; EPA LEV  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 74 DGE  <b>Estimated driving range:</b> 200 miles  <b>GVW:</b> 66,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Low cab forward, tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Front-mounted radiator (under cab). Single or tandem rear drive axles.  <b>Warranty information:</b> N/A</p>
<p><b>LCF</b>  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins C8.3G Plus 275  <b>Transmission make(s)/model(s):</b> Allison MD3560P  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA ULEV; EPA LEV  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 49 DGE  <b>Estimated driving range:</b> 200 miles  <b>GVW:</b> 65,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Low cab forward, tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Front mounted radiator (under cab). Single or tandem rear drive axles.  <b>Warranty information:</b> N/A</p>
<p><b>LWT</b>  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Cummins C8.3G Plus 275  <b>Transmission make(s)/model(s):</b> Allison MD3560P  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA ULEV; EPA LEV  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 74 DGE  <b>Estimated driving range:</b> 200 miles  <b>GVW:</b> 66,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight-reducing aluminum components. Remote radiator above engine and behind cab. Single or tandem rear drive axles.  <b>Warranty information:</b> N/A</p>
<p><b>LWT</b>  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins C8.3G Plus 275  <b>Transmission make(s)/model(s):</b> Allison MD3560P  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 49 DGE  <b>Estimated driving range:</b> 200 miles  <b>GVW:</b> 66,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight-reducing aluminum components. Remote radiator above engine and behind cab. Single or tandem rear drive axles.  <b>Warranty information:</b> N/A</p>

LET2  
**Application(s):** Truck  
**Fuel type:** LNG  
**Engine make(s)/model(s):** Cummins C8.3G Plus 275  
**Transmission make(s)/model(s):** Allison MD3560P  
**Transmission type:** Automatic

**Emission certification(s):** EPA ULEV; EPA LEV  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 74 DGE  
**Estimated driving range:** 200 miles  
**GVW:** 66,000 lb.  
**Seating capacity:** 4

**Model description:** Low entry (both sides) tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Remote mounted radiator, above engine and behind cab. Single or tandem rear drive axles.  
**Warranty information:** N/A

## Eldorado National

**Web site:** <http://www.lassetter.com/eldorado.htm>

**Phone:** 909-591-9557

**Dealer locator Web site:** N/A

**Dealer locator phone:** N/A

MST 2 Bus  
**Application(s):** Transit bus; shuttle  
**Fuel type:** Propane  
**Engine make/model:** Cummins B5.9 LPG  
**Transmission make(s)/model(s):** Allison AT 545  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0)  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 19,000 lb.  
**Seating capacity:** 31

**Model description:** Low-floor bus.  
**Warranty information:** N/A

MST 2 Bus  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Cummins B5.9 G  
**Transmission make(s)/model(s):** Allison AT 545  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0); EPA ULEV  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 19,000 lb.  
**Seating capacity:** 31

**Model description:** Low-floor bus.  
**Warranty information:** N/A

MST 28/30 Bus  
**Application(s):** Transit bus; shuttle  
**Fuel type:** Propane  
**Engine make(s)/model(s):** Cummins B5.9 LPG  
**Transmission make(s)/model(s):** Allison AT 545  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; CARB Low NOx (2.0)  
**MSRP with alternative fuel:** \$ 115,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 19,000 lb.  
**Seating capacity:** 31

**Model description:** Conventional-floor bus. ADA-compliant.  
**Warranty information:** N/A

MST 28/30 Bus  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Cummins B5.9 G  
**Transmission make(s)/model(s):** Allison AT 545  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty; EPA ULEV  
**MSRP with alternative fuel:** \$ 115,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 19,000 lb.  
**Seating capacity:** 31

**Model description:** Conventional-floor bus. ADA-compliant.  
**Warranty information:** N/A

EZ Rider2 30 Bus  
**Application(s):** Transit bus; shuttle  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Deere 6068H; Deere 6081H  
**Transmission make(s)/model(s):** Allison  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty  
**MSRP with alternative fuel:** \$ 245,000  
**Fuel capacity:** N/A  
**Estimated driving range:** N/A  
**GVW:** 30,000 lb.  
**Seating capacity:** 29

**Model description:** Low-floor bus with CNG or LNG capability. ADA-compliant. Altoona 12-year / 500,000-mile life cycle.  
**Warranty information:** N/A



<p><b>EZ Rider2 30 Bus</b>  <b>Application(s):</b> Transit bus; shuttle  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Cummins B5.9 G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 245,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 30,000 lb.  <b>Seating capacity:</b> 29</p>	<p><b>Model description:</b> Low-floor bus with CNG or LNG capability. ADA-compliant. Altoona 12-year/500,000-mile life cycle.  <b>Warranty information:</b> N/A</p>
<p><b>Transmark 29/32 Bus</b>  <b>Application(s):</b> Transit bus; shuttle  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins B5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 235,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 29,000 lb.  <b>Seating capacity:</b> 34</p>	<p><b>Model description:</b> Conventional-floor bus. Altoona Bus Testing and Research Center data available.  <b>Warranty information:</b> N/A</p>
<p><b>Transmark 29/32 Bus</b>  <b>Application(s):</b> Transit bus; shuttle  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins B5.9 G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; CARB Low NOx (2.5); EPA Heavy-Duty; EPA ULEV  <b>MSRP with alternative fuel:</b> \$ 235,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 29,000 lb.  <b>Seating capacity:</b> 34</p>	<p><b>Model description:</b> Conventional-floor bus. Altoona Bus Testing and Research Center data available.  <b>Warranty information:</b> N/A</p>
<p><b>Elgin Sweeper Co.</b>  <b>Web site:</b> <a href="http://www.elginsweeper.com">http://www.elginsweeper.com</a>  <b>Phone:</b> 847-741-5370  <b>Dealer locator Web site:</b> <a href="http://www.elginsweeper.com">http://www.elginsweeper.com</a>  <b>Dealer locator phone:</b> 847-741-5370</p>		
<p><b>Crosswind J Dual</b>  <b>Application(s):</b> Street sweeper  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G  <b>Transmission make(s)/model(s):</b> Allison 545  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 56 DGE  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 33,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Sterling SC 8000 cab-over chassis with common fuel system for truck and sweeper with 52 diesel gallon equivalent. Sweeper is regeneration air type with an 8 cu. yd. rear dumping hopper.  <b>Warranty information:</b> Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.</p>
<p><b>Eagle F Dual CNG</b>  <b>Application(s):</b> Street sweeper  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G  <b>Transmission make(s)/model(s):</b> Allison 545  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV  <b>MSRP with alternative fuel:</b> \$ 205,475  <b>Fuel capacity:</b> 56 DGE  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 33,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Sterling SC 8000 cab-over chassis with common fuel system for truck and sweeper with 52 diesel gallon equivalent. Street sweeper is mechanical broom type with 4.5 cu. yd. debris hopper capable of dumping from ground level to 10 ft. high.  <b>Warranty information:</b> Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.</p>
<p><b>Air Bear Dual</b>  <b>Application(s):</b> Street sweeper  <b>Fuel type:</b> Natural gas; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF  <b>Transmission make(s)/model(s):</b> Allison 3560P  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 181,915  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 33,000 lb.  <b>Seating capacity:</b> 2</p>	<p><b>Model description:</b> Single engine, recirculating, air sweeper with 5.5 cu.yd. debris hopper capable of dumping from ground level to nine feet high. Freightliner FL70 chassis.  <b>Warranty information:</b> Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.</p>

## Equipement Labrie

Web site: <http://www.labrie.qc.ca>

Phone: 418-831-8250

Dealer locator Web site: <http://www.labrie.qc.ca>

Dealer locator phone: 418-831-8250

Automizer  
Application(s): Truck

Fuel type: CNG

Engine make(s)/model(s): Cummins C8.3G  
280

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): CARB Low NOx  
(2.5); EPA Heavy-Duty

MSRP with alternative fuel: \$ N/A

Fuel capacity: 54 DGE

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: Tandem-axle, side loading  
trash compaction truck.

Warranty information: Same as comparable  
diesel unit.

Expert 2000  
Application(s): Truck

Fuel type: CNG

Engine make(s)/model(s): Cummins C8.3G  
280

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 65 DGE

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: Single- or tandem-axle,  
side-loading trash collection truck.

Warranty information: Same as comparable  
diesel unit.

## Ford Motor Co.

Web site: <http://www.fleet.ford.com>

Phone: 877-258-3835

Dealer locator Web site: <http://www.fleet.ford.com>

Dealer locator phone: 877-258-3835

E-450 Cutaway  
Application(s): Shuttle

Fuel type: CNG

Engine make(s)/model(s): Ford natural gas  
engines

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): EPA ULEV

MSRP with alternative fuel: \$ N/A

Fuel capacity: 25 DGE

Estimated driving range: 290 miles

GVW: 14,050 lb.

Seating capacity: N/A

Model description: 176-inch wheelbase; in-  
body tank kit available.

Warranty information: Standard new vehicle  
limited warranty.

F-Series 350 450 550  
Super Duty Bifuel Propane  
Application(s): Truck

Fuel type: Propane

Engine make(s)/model(s): Ford LPG

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): EPA ULEV

MSRP with alternative fuel: \$ N/A

Fuel capacity: 18 DGE

Estimated driving range: N/A

GVW: 19,000 lb.

Seating capacity: N/A

Model description: Offered in chassis cab,  
regular cab, or crew cab in 4x2 or 4x4. Three  
tank configurations available. Standard  
28-gallon aft-of-axle propane tank.

Warranty information: Standard new vehicle  
limited warranty (identical to gasoline-powered  
version), including three-year / 36,000-mile  
(60,000 km in Canada) bumper-to-bumper  
coverage.

## Freightliner Custom Chassis

Web site: <http://www.freightlinerchassis.com>

Phone: 864-487-1700

Dealer locator Web site: N/A

Dealer locator phone: N/A

MB-45

Application(s): Transit bus; trolley; shuttle

Fuel type: CNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): N/A

Transmission type: N/A

Emission certification(s): EPA LEV; EPA ULEV

MSRP with alternative fuel: \$ 47,000

Fuel capacity: 42 DGE

Estimated driving range: 300 miles

GVW: 26,000 lb.

Seating capacity: N/A

Model description: The CNG system offers a no-  
start safety feature.

Warranty information: Engine: 2-yr. /  
unlimited; fuel system: 2-yr./24,000 mi.

<p>MB-55  <b>Application(s):</b> Transit bus; trolley; shuttle  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins 5.9G  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> N/A</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV  <b>MSRP with alternative fuel:</b> \$ 47,000  <b>Fuel capacity:</b> 42 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 26,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> The CNG system offers a no start safety feature.  <b>Warranty information:</b> Engine: 2-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.</p>
<p>MB-45  <b>Application(s):</b> Transit bus; trolley; shuttle  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> N/A</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ 47,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 26,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> Rail chassis.  <b>Warranty information:</b> Engine: 2-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.</p>
<p>MB-55  <b>Application(s):</b> Transit bus; trolley; shuttle  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> N/A  <b>Transmission type:</b> N/A</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ 47,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 26,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> Rail chassis.  <b>Warranty information:</b> Engine: Two-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.</p>

<p><b>Freightliner Trucks</b>  <b>Web site:</b> <a href="http://www.freightliner.com">http://www.freightliner.com</a></p>	<p><b>Phone:</b> 1-800-385-4357  <b>Dealer locator Web site:</b> N/A  <b>Dealer locator phone:</b> N/A</p>
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<p>Business Class FL70  Century Class  <b>Application(s):</b> Truck; utility; refuse  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison Fuller  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> N/A  <b>Seating capacity:</b> 6</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle.</p>
<p>Business Class FL70  Century Class  <b>Application(s):</b> Truck; utility; refuse  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Caterpillar 3126B; Caterpillar C12DF; Cummins 8.3G; Cummins 5.9G; Mercedes-Benz MBE 900-CNG  <b>Transmission make(s)/model(s):</b> Allison Fuller  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 20 DGE  <b>Estimated driving range:</b> N/A  <b>GVW:</b> N/A  <b>Seating capacity:</b> 6</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle</p>

<p>Business Class FL70  Century Class  <b>Application(s):</b> Truck; utility; refuse  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Caterpillar 3126B; Caterpillar C12DF; Cummins 8.3G; Cummins 5.9G; Mercedes-Benz MBE 900-CNG  <b>Transmission make(s)/model(s):</b> Allison Fuller  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 20 DGE  <b>Estimated driving range:</b> N/A  <b>GVW:</b> N/A  <b>Seating capacity:</b> 6</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle</p>
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# Kalmar Industries Corp.

Web site: <http://www.magnumterminaltractor.com>

Phone: 903-759-5490

Dealer locator Web site: N/A

Dealer locator phone: N/A

## Magnum TT100LPG

**Application(s):** Terminal tractor

**Fuel type:** CNG

**Engine make(s)/model(s):** Cummins 5.9G

**Transmission make(s)/model(s):** Allison MT-643

**Transmission type:** Automatic

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 62 DGE  
**Estimated driving range:** N/A  
**GVW:** 15,000 lb.  
**Seating capacity:** 1

**Model description:** N/A  
**Warranty information:** N/A

## Magnum TT100LNG

**Application(s):** Terminal tractor

**Fuel type:** LNG

**Engine make(s)/model(s):** Cummins 5.9G

**Transmission make(s)/model(s):** Allison MT-643

**Transmission type:** Automatic

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 62 DGE  
**Estimated driving range:** N/A  
**GVW:** 15,000 lb.  
**Seating capacity:** 1

**Model description:** N/A  
**Warranty information:** N/A

# Mack Trucks, Inc.

Web site: <http://www.macktrucks.com>

Phone: 610-709-3259

Dealer locator Web site: <http://www.macktrucks.com>

Dealer locator phone: N/A

## MR

**Application(s):** Truck; refuse; concrete pumping; fuel oil delivery; block truck

**Fuel type:** CNG

**Engine make(s)/model(s):** Mack Eco-Tech E7G 325

**Transmission make(s)/model(s):** Allison HD4560

**Transmission type:** Automatic

**Emission certification(s):** CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 187,497  
**Fuel capacity:** 93 DGE  
**Estimated driving range:** N/A  
**GVW:** 80,000 lb.  
**Seating capacity:** 2

**Model description:** CNG and LNG fuel systems are factory installed options.  
**Warranty information:** Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

## MR

**Application(s):** Truck; refuse; concrete pumping; fuel oil delivery; block truck

**Fuel type:** LNG

**Engine make(s)/model(s):** Mack Eco-Tech E7G 325

**Transmission make(s)/model(s):** Allison HD4560

**Transmission type:** Automatic

**Emission certification(s):** CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 187,497  
**Fuel capacity:** 93 DGE  
**Estimated driving range:** N/A  
**GVW:** 80,000 lb.  
**Seating capacity:** 2

**Model description:** CNG and LNG fuel systems are factory installed options.  
**Warranty information:** Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

## LE

**Application(s):** Truck

**Fuel type:** CNG

**Engine make(s)/model(s):** Mack Eco-Tech E7G 325

**Transmission make(s)/model(s):** Allison HD4560

**Transmission type:** Automatic

**Emission certification(s):** CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 225,543  
**Fuel capacity:** 93 DGE  
**Estimated driving range:** N/A  
**GVW:** 80,000 lb.  
**Seating capacity:** 2

**Model description:** Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. CNG and LNG fuel systems are factory installed options.  
**Warranty information:** Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.



**LE**  
**Application(s):** Truck  
**Fuel type:** LNG  
**Engine make(s)/model(s):** Mack Eco-Tech E7G 325  
**Transmission make(s)/model(s):** Allison HD4560  
**Transmission type:** Automatic

**Emission certification(s):** CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 225,543  
**Fuel capacity:** 93 DGE  
**Estimated driving range:** N/A  
**GVW:** 80,000 lb.  
**Seating capacity:** 2

**Model description:** Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. CNG and LNG fuel systems are factory installed options.  
**Warranty information:** Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

## MotivePower

**Web site:** <http://www.wabtec.com>

**Phone:** 800-272-7702

**Dealer locator Web site:** <http://www.wabtec.com>

**Dealer locator phone:** 800-272-7702

**MP1200G**  
**Application(s):** Railroad switching locomotive  
**Fuel type:** LNG  
**Engine make(s)/model(s):** Caterpillar G3516 SITA  
**Transmission make(s)/model(s):** Kato 8P6.5-3000  
**Transmission type:** N/A

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ 1,450,000  
**Fuel capacity:** 868 DGE  
**Estimated driving range:** N/A  
**GVW:** 260,000 lb.  
**Seating capacity:** 3

**Model description:** Four-axle switching locomotive with advanced microprocessor electrical and traction control systems. Locomotive has three interconnected LNG tanks for a total of 1,400 gallons.  
**Warranty information:** Two-yr. / 200,000 mi., whichever occurs first, on parts and workmanship.

## Motor Coach Industries

**Web site:** <http://www.mcicoach.com>

**Phone:** 800-743-3624

**Dealer locator Web site:** [www.mcicoach.com/newsalesrep.html](http://www.mcicoach.com/newsalesrep.html)

**Dealer locator phone:** 800-743-3624

**D4000 CNG**  
**Application(s):** Commuter bus  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Detroit Diesel Series 60G 330  
**Transmission make(s)/model(s):** Allison 8500  
**Transmission type:** Automatic

**Emission certification(s):** CARB Low NOx (2.5)  
**MSRP with alternative fuel:** \$ 498,157  
**Fuel capacity:** 114 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 46,000 lb.  
**Seating capacity:** 47

**Model description:** 40-ft. high-floor commuter coach includes a baggage bay, parcel racks, wheel chair lift, reclining seats with head rests and arm rests, and airline style overhead, A/C vents and reading lights.  
**Warranty information:** 2-yr.

## Neoplan USA Corp.

**Web site:** <http://www.neoplanusa.com>

**Phone:** 719-336-3256

**Dealer locator Web site:** N/A

**Dealer locator phone:** N/A

**AN 340/345 Metroliner**  
**Application(s):** Transit bus; suburban commuter  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Detroit Diesel Series 60G  
**Transmission make(s)/model(s):** Allison World  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV; EPA Heavy-Duty  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** N/A  
**Estimated driving range:** 300 miles  
**GVW:** N/A  
**Seating capacity:** 57

**Model description:** ADA compliant. Accessible restroom optional. Suburban or transit interior.  
**Warranty information:** N/A

**AN 460 Articulated Low Floor**  
**Application(s):** Transit bus; commuter  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Detroit Diesel Series 60G  
**Transmission make(s)/model(s):** Allison World  
**Transmission type:** Automatic

**Emission certification(s):** EPA LEV  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** N/A  
**Estimated driving range:** 250 miles  
**GVW:** N/A  
**Seating capacity:** 65

**Model description:** ADA compliant equipment available. Suburban or transit interior.  
**Warranty information:** N/A

<p>AN 440 Transliner  <b>Application(s):</b> Transit bus; airport shuttle  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison World; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> N/A  <b>Seating capacity:</b> 43</p>	<p><b>Model description:</b> Composite tanks, arrangement optional.  <b>Warranty information:</b> N/A</p>
<p>AN 440 Transliner  <b>Application(s):</b> Transit bus; airport shuttle  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison World; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> N/A  <b>Seating capacity:</b> 43</p>	<p><b>Model description:</b> Composite tanks, arrangement optional.  <b>Warranty information:</b> N/A</p>
<p>AN 440 LF Transliner  Low Floor  <b>Application(s):</b> Transit bus; airport shuttle  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison World; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> N/A  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> Low-floor with ramp. Composite tanks, arrangement optional.  <b>Warranty information:</b> N/A</p>
<p>AN 440 LF Transliner  Low Floor  <b>Application(s):</b> Transit bus; airport shuttle  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison World; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> N/A  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> Low-floor with ramp. Composite tanks, arrangement optional.  <b>Warranty information:</b> N/A</p>

<p><b>New Flyer of America</b>  <b>Web site:</b> <a href="http://www.newflyer.com">http://www.newflyer.com</a></p>	<p><b>Phone:</b> 204-224-1251  <b>Dealer locator Web site:</b> N/A  <b>Dealer locator phone:</b> N/A</p>
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<p>C30LF Transit Coach  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison 8300R; Allison 8400R  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 130 DGE  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 40,600 lb.  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> 30-foot low-floor transit bus.  <b>Warranty information:</b> 1-yr. / 50,000 mi.</p>
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<p>C35LF Transit Coach  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison 8300R; Allison 8400R  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 130 DGE  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 46,000 lb.  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> 35-foot, low-floor transit bus.  <b>Warranty information:</b> 1-yr. / 50,000 mi.</p>
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<p>C40LF Transit Coach  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison 8300R; Allison 8400R  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 130 DGE  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 46,000 lb.  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> 40-foot low-floor transit bus.  <b>Warranty information:</b> 1 yr. / 50,000 mi.</p>
<p>L40LF Transit Bus  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison 8300R; Allison 8400R  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 130 DGE  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 40,600 lb.  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> 40-foot low-floor transit bus.  <b>Warranty information:</b> 1 yr. / 50,000 mi.</p>

**North American Bus Industries**      **Phone: 805-529-5080**  
**Web site: <http://www.nabiusa.com>**      **Dealer locator Web site: N/A**  
**Dealer locator phone: N/A**

<p>60LFW  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 470,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 66,600 lb.  <b>Seating capacity:</b> 60</p>	<p><b>Model description:</b> Optional features include all stainless steel body structure; wheelchair ramp in rear door.  <b>Warranty information:</b> Specified by customer; typically one year or 50,000 mi. for entire bus.</p>
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<p>60LFW  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 470,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 350 miles  <b>GVW:</b> 66,600 lb.  <b>Seating capacity:</b> 60</p>	<p><b>Model description:</b> Optional features include all stainless steel body structure; wheelchair ramp in rear door.  <b>Warranty information:</b> Specified by customer; typically one year or 50,000 mi. for entire bus.</p>
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<p>40 LFW or 35 LFW  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 330,000  <b>Fuel capacity:</b> 151 DGE  <b>Estimated driving range:</b> 400 miles  <b>GVW:</b> 40,600 lb  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> Optional features include all stainless steel body structure; wheelchair ramp in rear door.  <b>Warranty information:</b> Specified by customer; typically one year or 50,000 mi. for entire bus.</p>
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<p>40 LFW or 35 LFW  <b>Application(s):</b> Transit bus  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Detroit Diesel Series 50G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison; ZF  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ 330,000  <b>Fuel capacity:</b> 127 DGE  <b>Estimated driving range:</b> 400 miles  <b>GVW:</b> 40,600 lb.  <b>Seating capacity:</b> 40</p>	<p><b>Model description:</b> Optional features include all stainless steel body structure; wheelchair ramp in rear door.  <b>Warranty information:</b> Specified by customer; typically one year or 50,000 mi. for entire bus.</p>
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# Nova Bus Inc.

Web site: <http://www.novabuses.com>

Phone: 505-347-2011

Dealer locator Web site: N/A

Dealer locator phone: N/A

## RTS Transit Bus

**Application(s):** Transit bus

**Fuel type:** CNG

**Engine make(s)/model(s):** Detroit Diesel S50G; Cummins C8.3G

**Transmission make(s)/model(s):** ZF

**Transmission type:** Automatic

**Emission certification(s):** EPA ULEV; EPA

Heavy-Duty

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** 158 DGE

**Estimated driving range:** 400 miles

**GVW:** 39,500 lb.

**Seating capacity:** 45

**Model description:** Natural gas powered RTS is available in 35- and 40-foot lengths, 102 inches wide. LNG and CNG fuel tank arrangements are optional. Full range of seating options and interior trim levels are available. Fully compliant with ADA using front or exit door wheelchair lifts.

**Warranty information:** Standard industry warranties are available.

## RTS Transit Bus

**Application(s):** Transit bus

**Fuel type:** LNG

**Engine make(s)/model(s):** Detroit Diesel S50G; Cummins C8.3G

**Transmission make(s)/model(s):** ZF

**Transmission type:** Automatic

**Emission certification(s):** EPA ULEV; EPA

Heavy-Duty

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** 158 DGE

**Estimated driving range:** 400 miles

**GVW:** 39,500 lb.

**Seating capacity:** 45

**Model description:** Natural gas powered RTS is available in 35- and 40-foot lengths, 102 inches wide. LNG and CNG fuel tank arrangements are optional. Full range of seating options and interior trim levels are available. Fully compliant with ADA using front or exit door wheelchair lifts.

**Warranty information:** Standard industry warranties are available.

# Omnitrans

Web site: <http://www.cngvehicle.com>

Phone: 405-840-2622

Dealer locator Web site: N/A

Dealer locator phone: N/A

## GM/Isuzu/Workhorse chassis

**Application(s):** Truck; transit bus; school bus; trolley; shuttle

**Fuel type:** Propane

**Engine make(s)/model(s):** GM 5.7; GM 6.0; GM 8.1 LPG

**Transmission make(s)/model(s):** N/A

**Transmission type:** Automatic; manual

**Emission certification(s):** EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** N/A

**Estimated driving range:** N/A

**GVW:** N/A

**Seating capacity:** N/A

**Model description:** N/A

**Warranty information:** 3-yr. / 50,000-mi.

## GM/Isuzu/Workhorse chassis

**Application(s):** Truck; transit bus; school bus; trolley; shuttle

**Fuel type:** LNG

**Engine make(s)/model(s):** GM 5.7; GM 6.0; GM 8.1 LNG

**Transmission make(s)/model(s):** N/A

**Transmission type:** Automatic; manual

**Emission certification(s):** EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** N/A

**Estimated driving range:** N/A

**GVW:** N/A

**Seating capacity:** N/A

**Model description:** N/A

**Warranty information:** 3-yr. / 50,000-mi.

## GM/Isuzu/Workhorse chassis

**Application(s):** Truck; transit bus; school bus; trolley; shuttle

**Fuel type:** CNG

**Engine make(s)/model(s):** GM 5.7; GM 6.0; GM 8.1 CNG

**Transmission make(s)/model(s):** N/A

**Transmission type:** Automatic; manual

**Emission certification(s):** EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** N/A

**Estimated driving range:** N/A

**GVW:** N/A

**Seating capacity:** N/A

**Model description:** N/A

**Warranty information:** 3-yr. / 50,000-mi.

# Orion Bus Industries

Web site: N/A

Phone: 905-403-1111

Dealer locator Web site: N/A

Dealer locator phone: N/A

**Orion VII CNG**  
**Application(s):** Transit bus  
**Fuel type:** CNG  
**Engine make(s)/model(s):** Detroit Diesel Series 50G; Cummins C8.3G; John Deere 6081H  
**Transmission make(s)/model(s):** Allison; ZF; Voith  
**Transmission type:** Automatic

**Emission certification(s):** EPA Heavy-Duty  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** N/A  
**Estimated driving range:** 350 miles  
**GVW:** 41,000 lb.  
**Seating capacity:** 44

**Model description:** Low-floor transit bus.  
**Warranty information:** N/A

# Peterbilt

Web site: <http://www.peterbilt.com>

Phone: 940-591-4000

Dealer locator Web site: <http://www.peterbilt.com>

Dealer locator phone: 940-591-4000

**320**  
**Application(s):** Truck  
**Fuel type:** CNG; diesel  
**Engine make(s)/model(s):** Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  
**Transmission make(s)/model(s):** Fuller; Allison  
**Transmission type:** Automatic; manual

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 81 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 80,000 lb.  
**Seating capacity:** 3

**Model description:** N/A  
**Warranty information:** Contact Peterbilt dealer.

**320**  
**Application(s):** Truck  
**Fuel type:** LNG; diesel  
**Engine make(s)/model(s):** Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  
**Transmission make(s)/model(s):** Fuller; Allison  
**Transmission type:** Automatic; manual

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 81 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 80,000 lb.  
**Seating capacity:** 3

**Model description:** N/A  
**Warranty information:** Contact Peterbilt dealer.

**357**  
**Application(s):** Truck  
**Fuel type:** CNG; diesel  
**Engine make(s)/model(s):** Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  
**Transmission make(s)/model(s):** Fuller; Allison  
**Transmission type:** Automatic; manual

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 81 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 80,000 lb.  
**Seating capacity:** 3

**Model description:** N/A  
**Warranty information:** Contact Peterbilt dealer.

**357**  
**Application(s):** Truck  
**Fuel type:** LNG; diesel  
**Engine make(s)/model(s):** Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  
**Transmission make(s)/model(s):** Fuller; Allison  
**Transmission type:** Automatic; manual

**Emission certification(s):** N/A  
**MSRP with alternative fuel:** \$ N/A  
**Fuel capacity:** 81 DGE  
**Estimated driving range:** 300 miles  
**GVW:** 80,000 lb.  
**Seating capacity:** 3

**Model description:** N/A  
**Warranty information:** Contact Peterbilt dealer.



<p>378  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
<p>378  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
<p>379  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
<p>379  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
<p>385  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>

<p>385  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
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<p>330  <b>Application(s):</b> Truck  <b>Fuel type:</b> CNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
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<p>330  <b>Application(s):</b> Truck  <b>Fuel type:</b> LNG; diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF  <b>Transmission make(s)/model(s):</b> Fuller; Allison  <b>Transmission type:</b> Automatic; manual</p>	<p><b>Emission certification(s):</b> N/A  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> 81 DGE  <b>Estimated driving range:</b> 300 miles  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> 3</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> Contact Peterbilt dealer.</p>
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<p><b>Spartan Motors Chassis</b></p>		<p><b>Phone:</b> 517-543-6400  <b>Dealer locator Web site:</b> N/A  <b>Dealer locator phone:</b> N/A</p>
<p><b>Web site:</b> <a href="http://www.spartanmotors.com">http://www.spartanmotors.com</a></p>		

<p>TB  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty informatin:</b> 12 months/24,000 mi.</p>
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<p>TB  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty informaton:</b> 12 months/24,000 mi.</p>
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<p>TB  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> 12 months/24,000 mi.</p>
<p>LF  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> Propane  <b>Engine make/model:</b> Cummins 5.9 LPG  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> 12 months/24,000 mi.</p>
<p>LF  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> CNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000 lb.  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> 12 months/24,000 mi.</p>
<p>LF  <b>Application(s):</b> Trolley; shuttle; specialty  <b>Fuel type:</b> LNG  <b>Engine make(s)/model(s):</b> Cummins B5.9G; Cummins C8.3G  <b>Transmission make(s)/model(s):</b> Allison B300; Allison B400  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV; EPA ULEV; EPA Heavy-Duty  <b>MSRP with alternative fuel:</b> \$ N/A  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> N/A  <b>GVW:</b> 36,000  <b>Seating capacity:</b> N/A</p>	<p><b>Model description:</b> N/A  <b>Warranty information:</b> 12 months/24,000 mi.</p>

<p><b>Supreme/Specialty</b>  <b>Web site:</b> <a href="http://www.colorschemer.com/online/www.specialtyvehicles.com">www.colorschemer.com/online/www.specialtyvehicles.com</a></p>	<p><b>Phone:</b> 800-784-8725  <b>Dealer locator Web site:</b> N/A  <b>Dealer locator phone:</b> N/A</p>
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<p>Classic R.E.  <b>Application(s):</b> Trolley  <b>Fuel type:</b> CNG with diesel  <b>Engine make(s)/model(s):</b> Caterpillar 3126DF  <b>Transmission make(s)/model(s):</b> Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV  <b>MSRP with alternative fuel:</b> \$ 270,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 225 miles  <b>GVW:</b> 31,000 lb.  <b>Seating capacity:</b> 32</p>	<p><b>Model description:</b> Underfloor tanks.  <b>Warranty information:</b> 3-yr./150,000-mi.</p>
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<p>Classic R.E.  <b>Application(s):</b> Trolley  <b>Fuel type:</b> Propane  <b>Engine make(s)/model(s):</b> Cummins 5.9 LPG 195  <b>Transmission make/model:</b> Allison B300  <b>Transmission type:</b> Automatic</p>	<p><b>Emission certification(s):</b> EPA LEV  <b>MSRP with alternative fuel:</b> \$ 270,000  <b>Fuel capacity:</b> N/A  <b>Estimated driving range:</b> 225 miles  <b>GVW:</b> 31,000 lb.  <b>Seating capacity:</b> 32</p>	<p><b>Model description:</b> Underfloor tanks.  <b>Warranty information:</b> 3-yr./150,000-mi.</p>
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## Thomas Built Buses

Phone: 336-889-4871

Dealer locator Web site: <http://www.thomasbus.com>

Web site: [www.colorschemer.com/online/www.thomasbus.com](http://www.colorschemer.com/online/www.thomasbus.com)

Dealer locator phone: N/A

### Saf-T-Liner

**Application(s):** School bus

**Fuel type:** CNG

**Engine make(s)/model(s):** Cummins B5.9G;  
John Deere 6068H

**Transmission make(s)/model(s):** Allison MD  
3060

**Transmission type:** Automatic

**Emission certification(s):** EPA LEV

**MSRP with alternative fuel:** \$ 100,000

**Fuel capacity:** 118 DGE

**Estimated driving range:** N/A

**GVW:** 36,200 lb.

**Seating capacity:** 84

**Model description:** Composite tanks.

**Warranty information:** N/A

## Tymco

Phone: 254-799-5546

Dealer locator Web site: N/A

Web site: <http://www.colorschemer.com/online/www.tymco.com>

Dealer locator phone: 254-799-2722

### 600

**Application(s):** Street sweeper

**Fuel type:** CNG

**Engine make(s)/model(s):** GM 5.7 natural gas

**Transmission make(s)/model(s):** Allison  
AT545

**Transmission type:** Automatic

**Emission certification(s):** N/A

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** 48 DGE

**Estimated driving range:** N/A

**GVW:** 33,000 lb.

**Seating capacity:** 2

**Model description:** Four 16-inch diameter by  
61-inch length composite wrapped steel cylinders  
located behind cab of truck

**Warranty information:** Standard manufacturer  
warranty.

## Volvo Trucks North America

Phone: 336-393-2000

Dealer locator Web site: N/A

Web site: [www.colorschemer.com/online/www.volvotrucks.com](http://www.colorschemer.com/online/www.volvotrucks.com)

Dealer locator phone: N/A

### WX

**Application(s):** Truck; refuse

**Fuel type:** CNG

**Engine make(s)/model(s):** Cummins C8.3G

**Transmission make(s)/model(s):** Allison

**Transmission type:** Automatic

**Emission certification(s):** N/A

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** N/A

**Estimated driving range:** 250 miles

**GVW:** 66,000 lb.

**Seating capacity:** 2

**Model description:** Several configurations for  
refuse market.

**Warranty information:** N/A

### WX

**Application(s):** Truck; refuse

**Fuel type:** LNG

**Engine make(s)/model(s):** Cummins C8.3G

**Transmission make(s)/model(s):** Allison

**Transmission type:** Automatic

**Emission certification(s):** N/A

**MSRP with alternative fuel:** \$ N/A

**Fuel capacity:** N/A

**Estimated driving range:** 250 miles

**GVW:** 66,000 lb.

**Seating capacity:** 2

**Model description:** Several configurations for  
refuse market.

**Warranty information:** N/A

# Hybrid-Electric, Battery-Electric & Fuel Cell Heavy Vehicles

Advanced Vehicle Systems Inc.

Web site: <http://www.avsbus.com>

Phone: 423-821-3146

Dealer locator Web site: N/A

Dealer locator phone: N/A

<p><b>AVS-30/AVS-35</b>  <b>Application(s):</b> Transit bus  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Diesel; natural gas; propane  <b>Battery type:</b> Lead acid  <b>Battery voltage:</b> 288 volts  <b>Battery capacity:</b> N/A  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 60 kW  <b>Traction motor continuous power:</b> 75 kW  <b>APU peak power:</b> 56 kW  <b>APU continuous power:</b> 56 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> N/A  <b>Charge time:</b> 8 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> N/A  <b>Vehicle max. continuous speed:</b> 55 mph  <b>GVW:</b> 33,700 lb.  <b>Seating capacity:</b> 31  <b>Driving range:</b> 250 miles</p>	<p><b>Available chassis:</b> N/A  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> N/A</p>
<p><b>AVS-40</b>  <b>Application(s):</b> Transit bus  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Diesel; natural gas; propane  <b>Battery type:</b> Lead acid  <b>Battery voltage:</b> 288 volts  <b>Battery capacity:</b> N/A  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 60 kW  <b>Traction motor continuous power:</b> 75 kW  <b>APU peak power:</b> 56 kW  <b>APU continuous power:</b> 56 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> N/A  <b>Charge time:</b> 8 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> N/A  <b>Vehicle max. continuous speed:</b> 55 mph  <b>GVW:</b> 33,700 lb.  <b>Seating capacity:</b> 41  <b>Driving range:</b> 250 miles</p>	<p><b>Available chassis:</b> N/A  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> N/A</p>
<p><b>AVS-22 Pure Electric</b>  <b>Application(s):</b> Transit bus  <b>Drivetrain type:</b> Pure electric  <b>APU fuel type:</b> N/A  <b>Battery type:</b> Lead acid  <b>Battery voltage:</b> 288 volts  <b>Battery capacity:</b> 58 kWh  <b>Battery weight:</b> 6,000 lb.  <b>Traction motor peak power:</b> 78 kW  <b>Traction motor continuous power:</b> 34 kW  <b>APU peak power:</b> N/A  <b>APU continuous power:</b> N/A</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> N/A  <b>Charge time:</b> 8 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> N/A  <b>Vehicle max. continuous speed:</b> 45 mph  <b>GVW:</b> 25,000 lb.  <b>Seating capacity:</b> 22  <b>Driving range:</b> 65 miles</p>	<p><b>Available chassis:</b> AVS design  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> N/A</p>
<p><b>AVS-22 Hybrid</b>  <b>Application(s):</b> Transit bus  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Natural gas; diesel; propane  <b>Battery type:</b> Lead acid  <b>Battery voltage:</b> 288 volts  <b>Battery capacity:</b> 58 kWh  <b>Battery weight:</b> 4,000 lb.  <b>Traction motor peak power:</b> 78 kW  <b>Traction motor continuous power:</b> 34 kW  <b>APU peak power:</b> 28.8 kW  <b>APU continuous power:</b> 16 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> N/A  <b>Charge time:</b> 8 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> N/A  <b>Vehicle max. continuous speed:</b> 45 mph  <b>GVW:</b> 25,000 lb.  <b>Seating capacity:</b> 22  <b>Driving range:</b> 250 miles</p>	<p><b>Available chassis:</b> AVS design  <b>Engine make(s)/model(s):</b> Capstone  Microturbine  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> N/A</p>

## Capstone Turbine Corp.

Web site: <http://www.microturbine.com>

Phone: 818-734-5300

Dealer locator Web site: N/A

Dealer locator phone: N/A

Model 330/Capstone 60  
(power plant only)

**Application(s):** Truck; transit bus; school bus; trolley; shuttle

**Drivetrain type:** Series hybrid

**APU fuel type:** Diesel; natural gas; propane

**Battery type:** Lead acid; lithium ion; nickel cadmium; nickel-metal-hydride; other

**Battery voltage:** N/A

**Battery capacity:** N/A

**Battery weight:** N/A

**Traction motor peak power:** N/A

**Traction motor continuous power:** N/A

**APU peak power:** 60 kW

**APU continuous power:** 60 kW

**Motor mounting configuration:** N/A

**Regenerative braking?** N/A

**Type of charger:** N/A

**Charge time:** N/A

**Discharge rate:** N/A

**Lifetime mileage of storage batteries:** N/A

**Vehicle max. continuous speed:** N/A

**GVW:** N/A

**Seating capacity:** N/A

**Driving range:** N/A

**Available chassis:** N/A

**Engine make(s)/model(s):** N/A

**Vehicle description:** Capstone supplies auxiliary power units (APUs) for production vehicle platforms.

**Warranty information:** Typical warranty for the APU is 12 months.

## Electric Vehicles International

Web site: <http://www.evi-usa.com>

Phone: 765-643-3722

Dealer locator Web site: N/A

Dealer locator phone: N/A

Electric Trolley

**Application(s):** Trolley

**Drivetrain type:** Pure electric; series hybrid

**APU fuel type:** Propane

**Battery type:** Lead acid

**Battery voltage:** 320 volts

**Battery capacity:** 70 kWh

**Battery weight:** 5,200 lb.

**Traction motor peak power:** 84 kW

**Traction motor continuous power:** 30 kW

**APU peak power:** 12.5 kW

**APU continuous power:** 10 kW

**Motor mounting configuration:** N/A

**Regenerative braking?** Yes

**Type of charger:** N/A

**Charge time:** 7 hrs.

**Discharge rate:** N/A

**Lifetime mileage of storage batteries:** N/A

**Vehicle max. continuous speed:** 50 mph

**GVW:** 18,700 lb.

**Seating capacity:** 22

**Driving range:** 150 miles

**Available chassis:** N/A

**Engine make(s)/model(s):** N/A

**Vehicle description:** Low-floor, vintage-style trolley with advanced, quiet electric propulsion designed for nearly maintenance-free operation.

**Warranty information:** One year, full system including batteries.

2001 Electric Tram

**Application(s):** Tram

**Drivetrain type:** Pure electric; series hybrid

**APU fuel type:** Propane

**Battery type:** Lead acid

**Battery voltage:** 324 volts

**Battery capacity:** 70 kWh

**Battery weight:** 3,530 lb.

**Traction motor peak power:** 56 kW

**Traction motor continuous power:** 19 kW

**APU peak power:** 12.5 kW

**APU continuous power:** 10 kW

**Motor mounting configuration:** N/A

**Regenerative braking?** Yes

**Type of charger:** Conductive

**Charge time:** 7 hrs.

**Discharge rate:** N/A

**Lifetime mileage of storage batteries:** N/A

**Vehicle max. continuous speed:** 35 mph

**GVW:** 10,000 lb.

**Seating capacity:** 64

**Driving range:** 120 miles

**Available chassis:** N/A

**Engine make(s)/model(s):** N/A

**Vehicle description:** Designed for low-speed applications for up to 64 seated passengers.

**Warranty information:** One year, full system including batteries.

2001 Electric Bus

**Application(s):** Shuttle

**Drivetrain type:** Pure electric; series hybrid

**APU fuel type:** Propane

**Battery type:** Lead acid

**Battery voltage:** 320 volts

**Battery capacity:** 70 kWh

**Battery weight:** 5,200 lb.

**Traction motor peak power:** 84 kW

**Traction motor continuous power:** 30 kW

**APU peak power:** 12.5 kW

**APU continuous power:** 10 kW

**Motor mounting configuration:** N/A

**Regenerative braking?** Yes

**Type of charger:** Conductive

**Charge time:** 7 hrs.

**Discharge rate:** N/A

**Lifetime mileage of storage batteries:** N/A

**Vehicle max. continuous speed:** 50 mph

**GVW:** 18,700 lb.

**Seating capacity:** 22

**Driving range:** 150 miles

**Available chassis:** N/A

**Engine make(s)/model(s):** N/A

**Vehicle description:** Flux vector controller, AC motor and regenerative braking features standard. 10-kW generator option increases daily range to 150 miles.

**Warranty information:** One year, full system including batteries.

<p>T801H  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Gasoline; diesel; natural gas; propane; fuel cell  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 250 kW  <b>Traction motor continuous power:</b> 170 kW  <b>APU peak power:</b> 220 kW  <b>APU continuous power:</b> 220 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 55,000 lb.  <b>Seating capacity:</b> N/A  <b>Driving range:</b> 300 miles</p>	<p><b>Available chassis:</b> Peterbilt; Kenworth; Freightliner; Volvo; Ford  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> Class 8, 33,000-55,000 lb. chassis  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>
<p>T803H  <b>Application(s):</b> Truck; transit bus; shuttle; ground service. equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Gasoline; diesel; natural gas; propane  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 265 kW  <b>Traction motor continuous power:</b> 190 kW  <b>APU peak power:</b> 280 kW  <b>APU continuous power:</b> 200 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 80,000 lb.  <b>Seating capacity:</b> N/A  <b>Driving range:</b> 300 miles</p>	<p><b>Available chassis:</b> Peterbilt; Kenworth; Freightliner; Volvo; Ford  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> Class 8 to 80,000 lb.  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>
<p>TV701HT  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Gasoline; diesel; natural gas; propane; fuel cell  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 250 kW  <b>Traction motor continuous power:</b> 170 kW  <b>APU peak power:</b> 200 kW  <b>APU continuous power:</b> 200 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 32,990 lb.  <b>Seating capacity:</b> N/A  <b>Driving range:</b> 300 miles</p>	<p><b>Available chassis:</b> Ford; GM; Peterbilt; Kenworth; Freightliner; Volvo  <b>Engine make(s)/model(s):</b> Ford; John Deere; Cummins; Caterpillar; GM; Capstone  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>

<p>701AT  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Pure electric; series hybrid  <b>APU fuel type:</b> Gasoline; diesel; natural gas; propane; fuel cell  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 140 kW  <b>Traction motor continuous power:</b> 100 kW  <b>APU peak power:</b> N/A  <b>APU continuous power:</b> N/A</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 60,000 lb.  <b>Seating capacity:</b> 2  <b>Driving range:</b> N/A</p>	<p><b>Available chassis:</b> Stewart &amp; Stevenson; TUG; Ford  <b>Engine make(s)/model(s):</b> N/A  <b>Vehicle description:</b> Push park tractor for aircraft up to 400,000 lb.  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>
<p>TB3OHT  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Diesel; gasoline; natural gas; fuel cell; propane  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 120 kW  <b>Traction motor continuous power:</b> 85 kW  <b>APU peak power:</b> 60 kW  <b>APU continuous power:</b> 30 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 30,000 lb.  <b>Seating capacity:</b> 28  <b>Driving range:</b> 180 miles</p>	<p><b>Available chassis:</b> Eldorado National  <b>Engine make(s)/model(s):</b> Capstone Microturbine  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>
<p>TB3OH  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Gasoline; diesel; natural gas; propane; fuel cell  <b>Battery type:</b> Nickel-metal-hydride; lead acid; lithium ion  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 120 kW  <b>Traction motor continuous power:</b> 85 kW  <b>APU peak power:</b> 120 kW  <b>APU continuous power:</b> 120 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 30,000 lb.  <b>Seating capacity:</b> 33  <b>Driving range:</b> 220 miles</p>	<p><b>Available chassis:</b> Eldorado National  <b>Engine make(s)/model(s):</b> Cummins; Ford; GM; John Deere  <b>Vehicle description:</b> N/A  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>
<p>TB4OH  <b>Application(s):</b> Truck; transit bus; shuttle; ground service equipment  <b>Drivetrain type:</b> Series hybrid  <b>APU fuel type:</b> Gasoline; natural gas; propane; diesel; fuel cell  <b>Battery type:</b> Lead acid; lithium ion; nickel-metal-hydride  <b>Battery voltage:</b> 576 volts  <b>Battery capacity:</b> 50 kWh  <b>Battery weight:</b> N/A  <b>Traction motor peak power:</b> 220 kW  <b>Traction motor continuous power:</b> 170 kW  <b>APU peak power:</b> 220 kW  <b>APU continuous power:</b> 200 kW</p>	<p><b>Motor mounting configuration:</b> N/A  <b>Regenerative braking?</b> Yes  <b>Type of charger:</b> Conductive  <b>Charge time:</b> 6 hrs.  <b>Discharge rate:</b> N/A  <b>Lifetime mileage of storage batteries:</b> 100,000 miles  <b>Vehicle max. continuous speed:</b> N/A  <b>GVW:</b> 45,000 lb.  <b>Seating capacity:</b> 60  <b>Driving range:</b> 300 miles</p>	<p><b>Available chassis:</b> New Flyer; Gillig; NABI; NOVA  <b>Engine make(s)/model(s):</b> Cummins; Caterpillar; John Deere; Ford; Capstone  <b>Vehicle description:</b> 40-ft. low-floor bus.  <b>Warranty information:</b> Standard 1-yr. bumper-to-bumper, other warranties negotiable.</p>



## New Flyer of America

Web site: <http://www.newflyer.com>

Phone: 204-224-1251

Dealer locator Web site: N/A

Dealer locator phone: N/A

### DE40 LF Transit Bus

**Application(s):** Transit bus  
**Drivetrain type:** Parallel hybrid  
**APU fuel type:** Diesel  
**Battery type:** N/A  
**Battery voltage:** N/A  
**Battery capacity:** N/A  
**Battery weight:** N/A  
**Traction motor peak power:** N/A  
**Traction motor continuous power:** N/A  
**APU peak power:** N/A  
**APU continuous power:** N/A

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** N/A  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** N/A  
**GVW:** 40,600 lb.  
**Seating capacity:** 40  
**Driving range:** N/A

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** Low-floor transit bus with diesel/electric drivetrain.  
**Warranty information:** One year/50,000 miles

### H40LF Transit Bus

**Application(s):** Transit bus  
**Drivetrain type:** Parallel hybrid  
**APU fuel type:** fuel cell  
**Battery type:** N/A  
**Battery voltage:** N/A  
**Battery capacity:** N/A  
**Battery weight:** N/A  
**Traction motor peak power:** N/A  
**Traction motor continuous power:** N/A  
**APU peak power:** N/A  
**APU continuous power:** N/A

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** N/A  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** N/A  
**GVW:** 40,600 lb.  
**Seating capacity:** 40  
**Driving range:** N/A

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** Transit bus powered by hydrogen-fed fuel cell.  
**Warranty information:** N/A

## Orion Bus Industries

Web site: N/A

Phone: 905-403-1111

Dealer locator Web site: N/A

Dealer locator phone: N/A

### Orion VII Hybrid

**Application(s):** Transit bus  
**Drivetrain type:** Series hybrid  
**APU fuel type:** Diesel  
**Battery type:** Lead acid  
**Battery voltage:** 550 volts  
**Battery capacity:** N/A  
**Battery weight:** N/A  
**Traction motor peak power:** N/A  
**Traction motor continuous power:** 179 kW  
**APU peak power:** N/A  
**APU continuous power:** 120 kW

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** N/A  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 62 mph  
**GVW:** 41,000 lb.  
**Seating capacity:** 44  
**Driving range:** 350 miles

**Available chassis:** N/A  
**Engine make(s)/model(s):** Cummins ISB  
**Vehicle description:** Low-floor transit bus with advanced hybrid diesel-electric propulsion.  
**Warranty information:** N/A

## Solectria

Web site: <http://www.solectria.com>

Phone: 978-658-2231

Dealer locator Web site: N/A

Dealer locator phone: N/A

### CitiVan

**Application(s):** Truck  
**Drivetrain type:** Series hybrid  
**APU fuel type:** Diesel; natural gas  
**Battery type:** Lead acid  
**Battery voltage:** 336 volts  
**Battery capacity:** 15 kWh  
**Battery weight:** 1,400 lb.  
**Traction motor peak power:** 120 kW  
**Traction motor continuous power:** 60 kW  
**APU peak power:** 30 kW  
**APU continuous power:** 30 kW

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** 7.5 hrs.  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 50 mph  
**GVW:** 12,000 lb.  
**Seating capacity:** 2  
**Driving range:** 150 miles

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** Powered by Capstone microturbine.  
**Warranty information:** N/A

### CitiVan

**Application(s):** Truck  
**Drivetrain type:** Pure electric  
**APU fuel type:** N/A  
**Battery type:** Lead acid  
**Battery voltage:** 312 volts  
**Battery capacity:** 30 kWh  
**Battery weight:** 2,500 lb.  
**Traction motor peak power:** 120 kW  
**Traction motor continuous power:** 50 kW  
**APU peak power:** N/A  
**APU continuous power:** N/A

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** 9 hrs.  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 60 mph  
**GVW:** 12,000 lb.  
**Seating capacity:** 2  
**Driving range:** 40 miles

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** N/A  
**Warranty information:** N/A

### Blue Bird Hybrid Bus

**Application(s):** School bus  
**Drivetrain type:** Series hybrid  
**APU fuel type:** Diesel; natural gas  
**Battery type:** Lead acid  
**Battery voltage:** 336 volts  
**Battery capacity:** 34 kWh  
**Battery weight:** 3,500 lb.  
**Traction motor peak power:** 250 kW  
**Traction motor continuous power:** 115 kW  
**APU peak power:** 70 kW  
**APU continuous power:** 40 kW

**Motor mounting configuration:**  
Tandem/direct  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** N/A  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 55 mph  
**GVW:** 33,000 lb.  
**Seating capacity:** 66  
**Driving range:** N/A

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** N/A  
**Warranty information:** N/A

### Blue Bird Electric Bus

**Application(s):** School bus  
**Drivetrain type:** Pure electric  
**APU fuel type:** N/A  
**Battery type:** Lead acid  
**Battery voltage:** 336 volts  
**Battery capacity:** 67 kWh  
**Battery weight:** 7,000 lb.  
**Traction motor peak power:** 250 kW  
**Traction motor continuous power:** 115 kW  
**APU peak power:** N/A  
**APU continuous power:** N/A

**Motor mounting configuration:** N/A  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** 9 hrs.  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 55 mph  
**GVW:** 33,000 lb.  
**Seating capacity:** 66  
**Driving range:** 60 miles

**Available chassis:** N/A  
**Engine make(s)/model(s):** N/A  
**Vehicle description:** N/A  
**Warranty information:** N/A

## TransTeq

**Web site:** <http://www.transteq.com>

**Phone:** 303-382-1041  
**Dealer locator Web site:** N/A  
**Dealer locator phone:** N/A

### EcoMark

**Application(s):** Shuttle  
**Drivetrain type:** Series hybrid  
**APU fuel type:** Natural gas  
**Battery type:** Lead acid  
**Battery voltage:** 340 volts  
**Battery capacity:** 26 kWh  
**Battery weight:** 1,350 lb.  
**Traction motor peak power:** 328 kW  
**Traction motor continuous power:** 328 kW  
**APU peak power:** 67 kW  
**APU continuous power:** 52 kW

**Motor mounting configuration:** Front corner of bus  
**Regenerative braking?** Yes  
**Type of charger:** N/A  
**Charge time:** N/A  
**Discharge rate:** N/A  
**Lifetime mileage of storage batteries:** N/A  
**Vehicle max. continuous speed:** 30 mph  
**GVW:** 24,400 lb.  
**Seating capacity:** 98  
**Driving range:** N/A

**Available chassis:** N/A  
**Engine make(s)/model(s):** Ford 2.5 liter  
**Vehicle description:** 45-ft. complete low-floor bus. Stainless tube frame with plastic body. Independent rear suspension with electric motor drive each rear wheel. Engine mounted in front of bus, opposite driver.  
**Warranty information:** N/A

Series HY-205-4  
Transit Model  
Application(s): Transit bus  
Drivetrain type: N/A  
APU fuel type: Fuel cell  
Battery type: N/A  
Battery voltage: N/A  
Battery capacity: N/A  
Battery weight: N/A  
Traction motor peak power: N/A  
Traction motor continuous power: 205 kW  
APU peak power: N/A  
APU continuous power: N/A

Motor mounting configuration: N/A  
Regenerative braking? Yes  
Type of charger: N/A  
Charge time: N/A  
Discharge rate: N/A  
Lifetime mileage of storage batteries: N/A  
Vehicle max. continuous speed: 50 mph  
GVW: N/A  
Seating capacity: 40  
Driving range: 180 miles

Available chassis: New Flyer H40LF  
Engine make(s)/model(s): N/A  
Vehicle description: PEM fuel cell stack provides power. Peak torque of 1,100 Nm @ 800 rpm.  
Warranty information: N/A



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