



# FREIGHTLINER VOCATIONAL NATURAL GAS TRUCKS



# FUELING YOUR FUTURE.

The use of natural-gas-powered vehicles has grown in popularity in recent years. The cost of natural gas fuel is significantly lower than diesel fuel, and low emissions make it more environmentally friendly. Domestic availability decreases our dependence on foreign resources, so supply and price are more stable. And the natural gas infrastructure continues to make fueling more and more convenient. All of these factors have made natural gas a primary focus of Daimler, our parent company. Our corporate initiative, Shaping Future Transportation, fosters the development of new technologies that will benefit the industry and the communities we call home.

Freightliner Trucks has been building natural gas trucks in our plants since 2007. Our natural-gas-powered Freightliner M2 112 and 114SD trucks have proven their performance in a broad range of vocational applications, including utility, construction, refuse and municipal.

The trucks can be spec'd to use liquefied natural gas (LNG) or compressed natural gas (CNG), depending on customer preference. LNG works well for on-road customers who are constantly driving their trucks, while CNG is the common fuel among vocational natural gas customers because it does not vent into the atmosphere when the truck is not operating for extended periods of time.

Shaping Future Transportation.  
CleanDrive Technologies.  
A Daimler Initiative.



M2 112 NATURAL GAS



114SD NATURAL GAS

# WHY NATURAL GAS?

## MONEY IN YOUR POCKET.

Switching to natural gas translates to potentially significant fuel cost savings. As the price of diesel continues to rise, the cost of natural gas remains significantly lower and stable, and government tax credits may be available to reduce acquisition costs. Be sure to check with your local dealer to see what incentives are available in your area.

## BETTER FOR THE ENVIRONMENT.

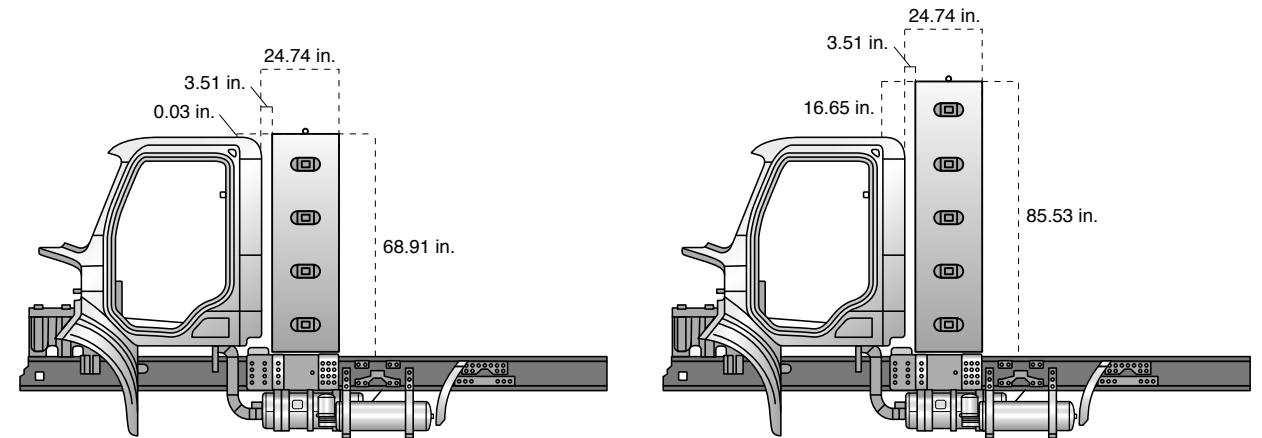
By implementing Freightliner natural-gas-powered products, you're doing your part to help the environment. With near-zero emissions, natural gas vehicles are cleaner than their diesel counterparts. The Cummins® Westport ISL G engine, for example, features reduced greenhouse gas (GHG) emissions of up to 20%


versus a comparable diesel engine. Also, on average, natural gas engines run 10 decibels quieter than comparable diesel engines, which helps keep neighborhoods peaceful.


## RELIABLE AND SAFE ALTERNATIVES.

The M2 112 and 114SD natural gas trucks feature factory-installed and warranty-covered natural gas engines, fuel tanks and related components, including a standard methane detection system. The CNG tanks Freightliner installs at the factory are Type III aluminum tanks wrapped in carbon fiber and feature an expected life span of 20 years. The LNG tanks are constructed of stainless steel and both the CNG and LNG tanks featured on Freightliner products meet or exceed all applicable safety standards. In the rare occurrence of a CNG tank puncture, the fuel will simply vent into the atmosphere, rather than pool on the ground.

## CNG CONFIGURATIONS



 = 60 DGE

 = 75 DGE

DGE = DIESEL GALLON EQUIVALENT



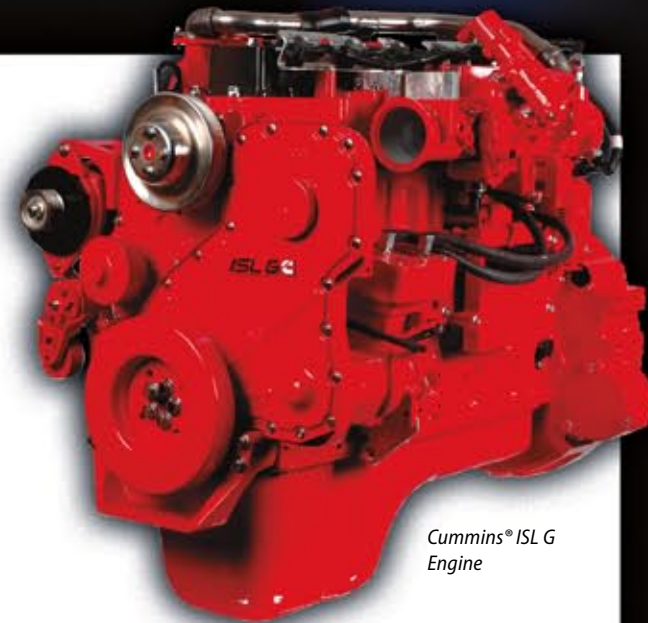
# POWER AND PERFORMANCE.

The Freightliner M2 112 and the 114SD are powered by the Cummins Westport ISL G 8.9 liter engine, which set the industry standard for natural gas engines in 2007. It provides horsepower ratings from 260 to 320 and torque ratings from 660 to 1000 lb-ft. The spark-ignited ISL G is one of the only factory-built, dedicated natural gas engines available in the commercial vehicle market. It's built on the same assembly line as the ISL diesels and shares 80% of the components of its diesel-powered sibling.

The ISL G offers other advantages, including a maintenance-free after-treatment system with a three-way passive catalyst, reducing complexity. Since it is a spark-ignited engine, it does not require diesel pilot injection, which means that vehicles do not require diesel tanks and fuel, nor diesel selective catalytic reduction (SCR) aftertreatment devices or diesel exhaust fluid (DEF). The ISL G can run on either CNG or LNG, so you can spec the fuel that makes the most sense for your business.

Freightliner M2 112 and 114SD natural gas vehicles feature the 3000 series HS and RDS Allison® automatic transmissions. Their patented torque converter technology results in improved start at the launch of the vehicle, full power shifts and better performance.

Freightliner Trucks offers factory-installed and warranty-covered CNG tanks in 60-diesel gallon equivalent (DGE) and 75-DGE configurations in the M2 112 and 114SD. Factory-installed LNG options for the M2 112 and 114SD include 119- and 150-gallon tanks, which equate to 65- and 86-DGE respectively. Supplier-installed rail-mounted CNG tanks also are available.



Cummins® ISL G Engine

## CUMMINS WESTPORT ISL G 8.9 LITER NATURAL GAS ENGINE

- Uses stoichiometrically-cooled EGR combustion
- EPA 2010 and CARB emissions standards compliant
- Available up to 320 HP, 1000 lb-ft torque
- No SCR aftertreatment system required
- Maintenance-free exhaust system
- No DPF regeneration, cleaning or replacement
- Spark-ignited
- Dedicated natural gas engine – no dual fuel
- Reliable and durable
- Highest power-to-weight ratio in its class
- Shares many components and parts with ISL diesel engines
- Domestic fuel source reduces dependence on foreign oil
- Backed by a 2-year/250,000-mile warranty

# TWO VERSATILE CHOICES.

## M2 112 NATURAL GAS

### STANDARD FEATURES

- 112" BBC day cab
- Steel-reinforced aluminum cab
- One-piece fiberglass hood
- Air rear cab mounts
- Ergonomic wing dash
- Up to 55-degree wheel cut depending on wheel equipment
- Front axle rated at 12,000 lbs
- Rear axle rated at 40,000 lbs
- 75-DGE CNG tanks mounted back-of-cab
- Allison automatic transmission 3000 RDS or HS

### OPTIONAL FEATURES

- 138" BBC steel-reinforced aluminum extended cab; 160" BBC steel-reinforced aluminum crew cab
- Bright-accented front grille with chromed grille surround, headlight bezels and engine air intake grille
- Large selection of wheelbases with frames and frame reinforcements to meet vocational application needs
- Transmission power take-offs
- Steer axles from 10,000 to 16,000 lbs rating
- Single drive axles from 13,000 to 31,000 lbs rating
- Tandem drive axles from 40,000 to 46,000 lbs rating
- Freightliner AirLiner® and TufTrac® rear suspensions
- Hendrickson® and Chalmers® rear suspensions
- Expanded dash instrumentation, switches and controls to meet almost any vocational application
- SmartPlex™ Electrical System
- GVWR up to 62,000 lbs
- 60- or 50\*-DGE CNG tanks mounted back-of-cab
- 86- or 65-DGE LNG LH rail-mounted tanks

## 114SD NATURAL GAS

### STANDARD FEATURES

- 114" BBC day cab
- Set-back front axle position @ 48"
- Steel-reinforced aluminum cab
- Strong fiberglass hood
- Radiator-mounted mold-in color front grille with signature styling
- Front grille, headlight bezels, engine air intake grille, bumper and primary mirrors trimmed in black
- Halogen composite headlights
- Air rear cab mounts
- Ergonomic wing dash
- Up to 50-degree wheel cut depending on wheel equipment
- Front axle rated at 12,000 lbs
- Rear axle rated at 40,000 lbs
- 75-DGE CNG tanks mounted back-of-cab
- Allison automatic transmission 3000 RDS

### OPTIONAL FEATURES

- 162" BBC steel-reinforced aluminum crew cab
- Bright-accented front grille with chromed grille surround, headlight bezels and engine air intake grille
- Engine air intake pre-cleaner
- Large selection of wheelbases with frames and frame reinforcements to meet severe duty needs
- Transmission power take-offs
- Steer axles from 12,000 to 22,000 lbs rating
- Single drive axles from 21,000 to 38,000 lbs rating
- Tandem drive axles from 40,000 to 58,000 lbs rating
- Pusher and tag axles rated from 8,000 to 22,000 lbs, available in single or dual configurations
- Freightliner AirLiner® and TufTrac® rear suspensions
- Hendrickson® and Chalmers® rear suspensions
- Expanded dash instrumentation, switches and controls to meet almost any vocational application
- Removable front tow eyes
- SmartPlex™ Electrical System
- GVWR up to 80,000 lbs available with pre-approved applications
- 60- or 50\*-DGE CNG tanks mounted back-of-cab
- 86- or 65-DGE LNG LH rail-mounted tanks

\* Canada only



Standard methane gas detection system alerts the driver in the event of a fuel leak.



Full tilt hood for easy engine access.



CNG tanks mounted back-of-cab.



The SmartPlex Electrical System features flexible switch configurations and easy programming.



Ergonomically designed driver's area features an automotive-style dash, easy-to-read LED-backlit gauges and controls within easy reach.

# WE'VE GOT YOU COVERED.

## UNMATCHED SERVICE AND SUPPORT.

With more than 300 Freightliner dealer locations across North America, you're never far from the convenient service and support you have come to expect from the industry leader. In addition, more than 300 Freightliner ServicePoint® facilities located at TravelCenters of America and Petro Stopping Centers offer certified repair and warranty work.

Freightliner also maintains strategically located parts distribution centers throughout North America, ensuring fast parts delivery to keep customers up and running.

Freightliner's Customer Assistance Center provides customers a hotline that's available 24 hours a day, seven days a week. Customers may call the toll-free number (1-800-FTL-HELP) for technical support, to arrange roadside assistance or towing services, or to locate the nearest dealer or service center.

## A SIMPLE PURCHASE PROCESS THAT'S SECOND TO NONE.

Purchasing a truck is one of the most important decisions you make. Freightliner makes the buying process easy, with highly trained sales consultants and one of the largest dealer networks in the industry, so businesses don't have to look far for their next purchase. Count on Freightliner dealers for reliable product information, truck parts and service, and ongoing customer support.

## FINANCING IS EASY.

Daimler Truck Financial (DTF) offers a variety of options, including loans and leases tailored to the trucking industry, that make financing go smoothly. DTF has been meeting the financing challenges of owner-operator and vocational customers for more than 30 years. It offers finance solutions including conventional retail financing at attractive and competitive rates, a variety of terms to match cash flow, and up to 100% financing for qualified customers.

**Daimler Truck Financial**

Financing that works for you.



## COMPREHENSIVE WARRANTIES FOR ADDED PEACE OF MIND.

Freightliner stands behind its trucks every step of the way. We offer one of the most comprehensive warranties in the business, as well as a variety of extended warranties.

## BETTER PARTS. GOOD PRICES.

Alliance Truck Parts offers a range of new and remanufactured maintenance, repair and replacement parts and accessories for virtually all types of heavy-duty trucks at an affordable price. Alliance Truck Parts are sold at Freightliner dealers throughout the U.S. and Canada.



[FREIGHTLINERTRUCKS.COM/WORKSMART](http://FREIGHTLINERTRUCKS.COM/WORKSMART)



Competitive financing available through Daimler Truck Financial. For the Freightliner Trucks dealer nearest you, call 1-800-FTL-HELP. [www.freightlinertrucks.com](http://www.freightlinertrucks.com). 10M, 2/13. FTL/MC-B-1206. Specifications are subject to change without notice. Freightliner Trucks is registered to ISO 9001:2008 and ISO 14001:2004. Copyright © 2013. Daimler Trucks North America LLC. All rights reserved. Freightliner Trucks is a division of Daimler Trucks North America LLC, a Daimler company.