



DODGE



Jeep

SRT



CNG & Alternative Fuel

Naeem Morris

Government Fleet Sales

Improve Vehicle Propulsion

Cylinder Shut Down & Engine on/off



Hybrid Technology



Compressed Natural Gas



Forced Air with Smaller Engines



New Power Train Technology



Electric Vehicles



Hydrogen Powered Vehicles



2011

Future

Chrysler's Road to CAFE Compliance



CHRYSLER GROUP LLC



Gasoline Technologies – MultiAir

Transmission Technologies – DDCT

Gasoline Technologies- Pentastar & Diesel Transmission Technologies – 8 Speed

ALTERNATIVE FUEL



**1.4 Fire MultiAir
TC
Euro 5**



**C635 Dual Dry Clutch
Transmission**



**6 Cylinder
Pentastar Engine**



**8 Speed ZF
Transmission**



**6 Cylinder
Eco Diesel Engine - Jeep**

Fiat – Strength of Partnership



CHRYSLER GROUP LLC

■ Fiat is a World Leader in CNG

- Commenced Production in 1997
- Sold >500K Passenger Car and Light-duty Vehicles (80% European Market Share)
- Sold >20K Buses and Garbage Trucks (50% European Market Share)



Ram 2500 HD CNG



CHRYSLER GROUP LLC



- **5.7L V8 HEMI CNG**

- Specifically designed to operate on CNG or Gaso

- **Weight Capacities**

- GVWR unchanged @ 8,800 lbs.
- GCW @ 15,000 lbs.
 - Max Trailer @ 7,650 lbs.
- Payload @ 1,360 – 1,690 lbs.

- **Fuel System**

- Reduced capacity gasoline tank in combination with two CNG Tanks
- Gasoline Gallon Equivalent “GGE”
 - 18.2 GGE for RAM 2500 CNG
 - Total Fuel On-board = 26.2 gallons
- Fuel Filling ports for both fuels are the same location, behind the fuel door on the driver’s side



- **Drive Experience**

- Operation on CNG is transparent to the driver
- The Engine Controller / Computer will automatically choose the fuel
 - Typically the engine starts on Gasoline, then will automatically switch to CNG
 - System will automatically switch to gasoline if the driver runs out of CNG, and vice versa

- **Engineering and Development**

- Durability Validation
 - RAM 2500 CNG is being tested to same standards as all other RAM trucks
 - Powertrain Endurance and Body/Chassis Durability
- Quality Control
 - RAM 2500 CNG will be built on the Production Line at Chrysler's Truck Assembly Plant
- Safety & Impact
 - RAM 2500 CNG is being developed in Chrysler's Safety Labs and Crash-Test Facilities



Ram 2500 CNG – Vehicle Layout



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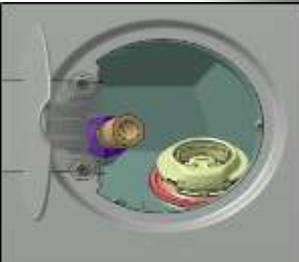
Pressure Regulator

CNG tanks
(18.2 GGE Total)

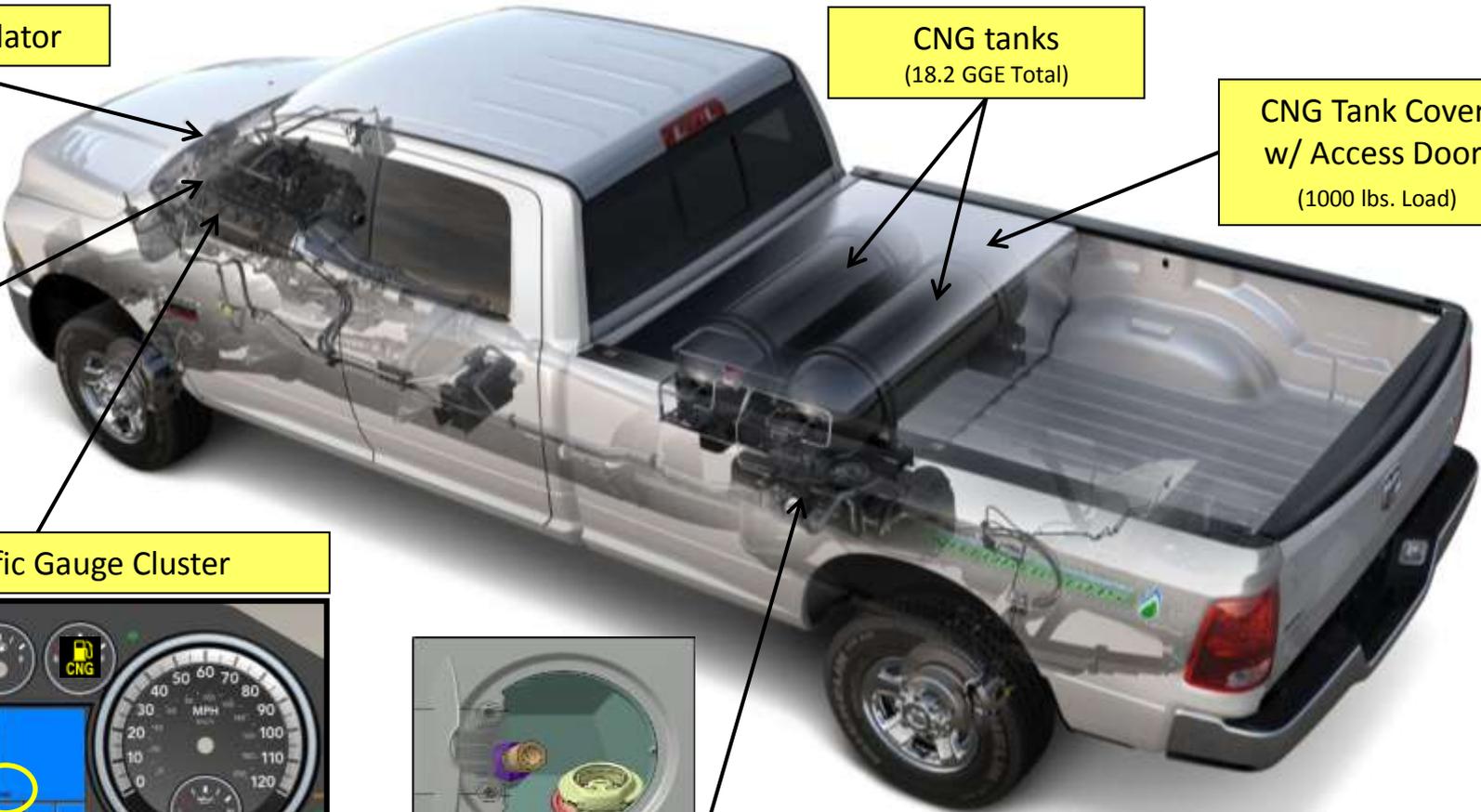
CNG Tank Cover
w/ Access Door
(1000 lbs. Load)

CNG Engine
Assembly

CNG-Specific Gauge Cluster



CNG and Gasoline Fill- Inside Fuel Door

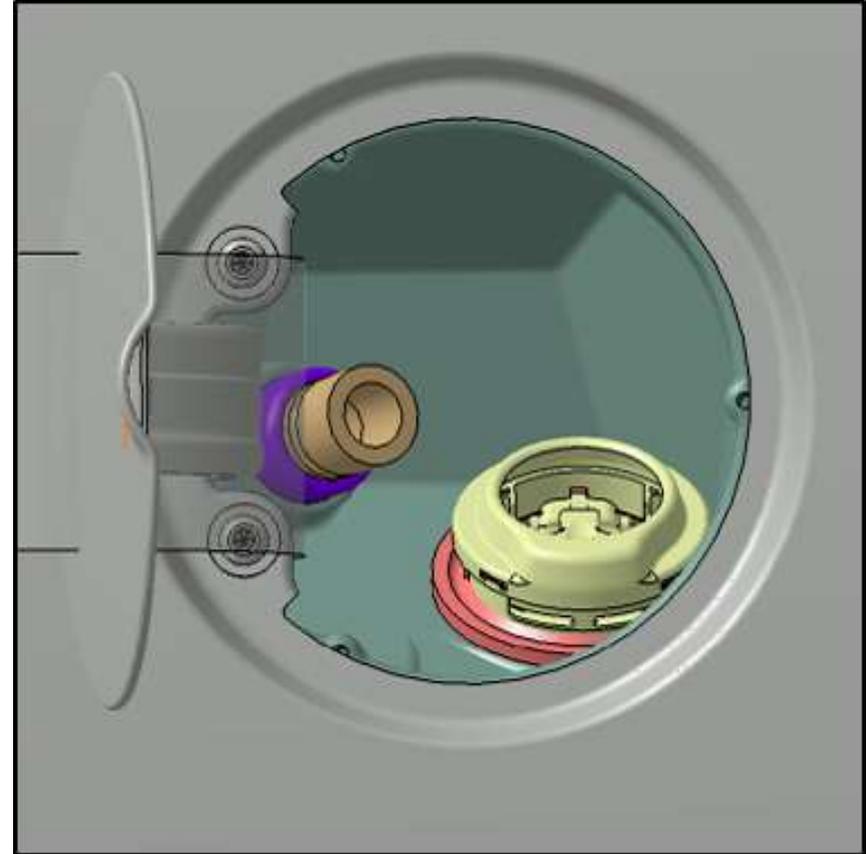


Ram 2500 CNG – Fuel Filling

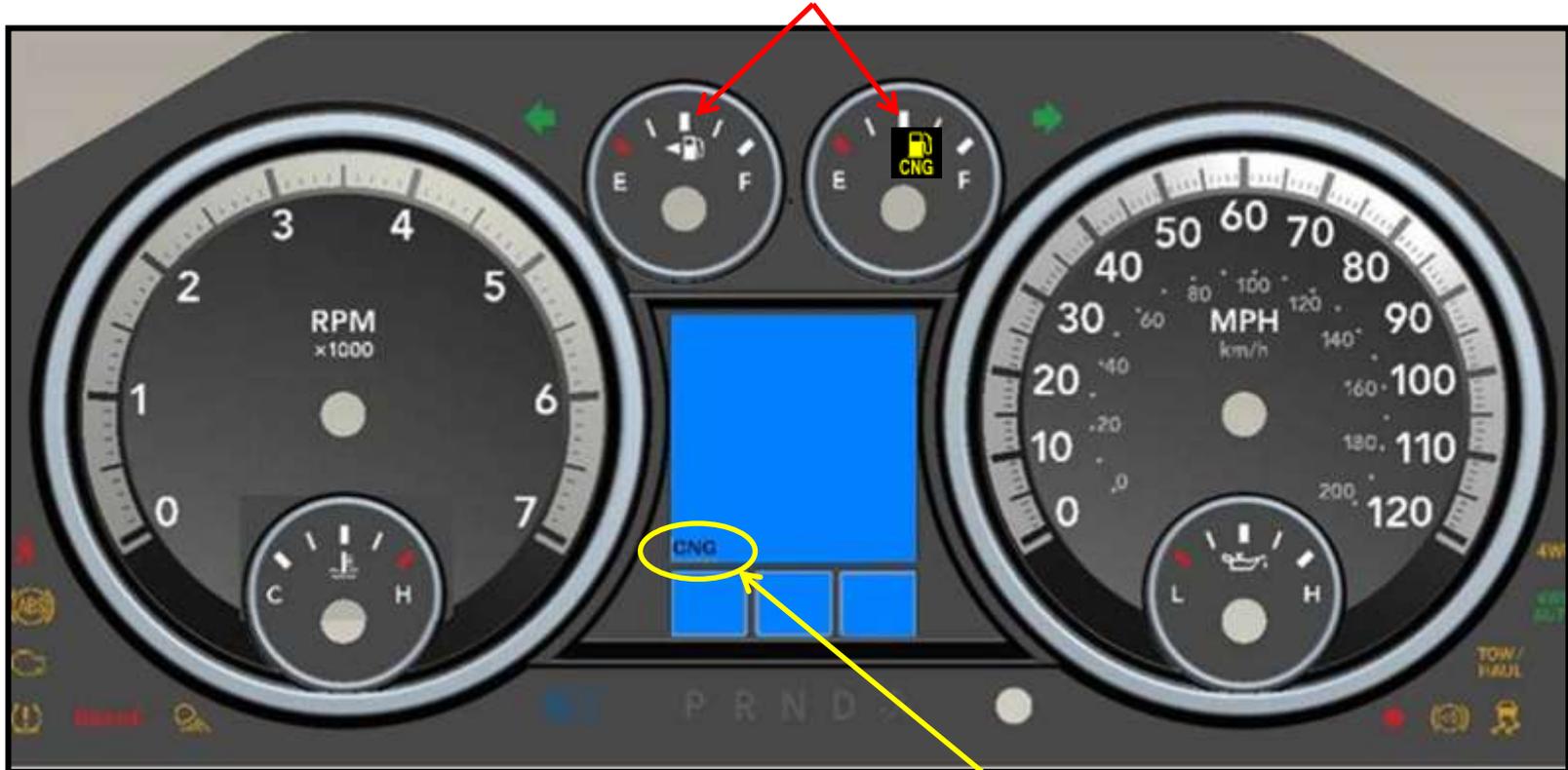


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- Filler receptacles for both CNG and Gasoline in a common location
- Gasoline filler is a “capless” design for space saving and ease of use



Ram 2500 CNG - Gauge Cluster



- Indicator on EVIC screen shows when operating on CNG fuel