



Driver Quick Start Guide (CNG) Isuzu



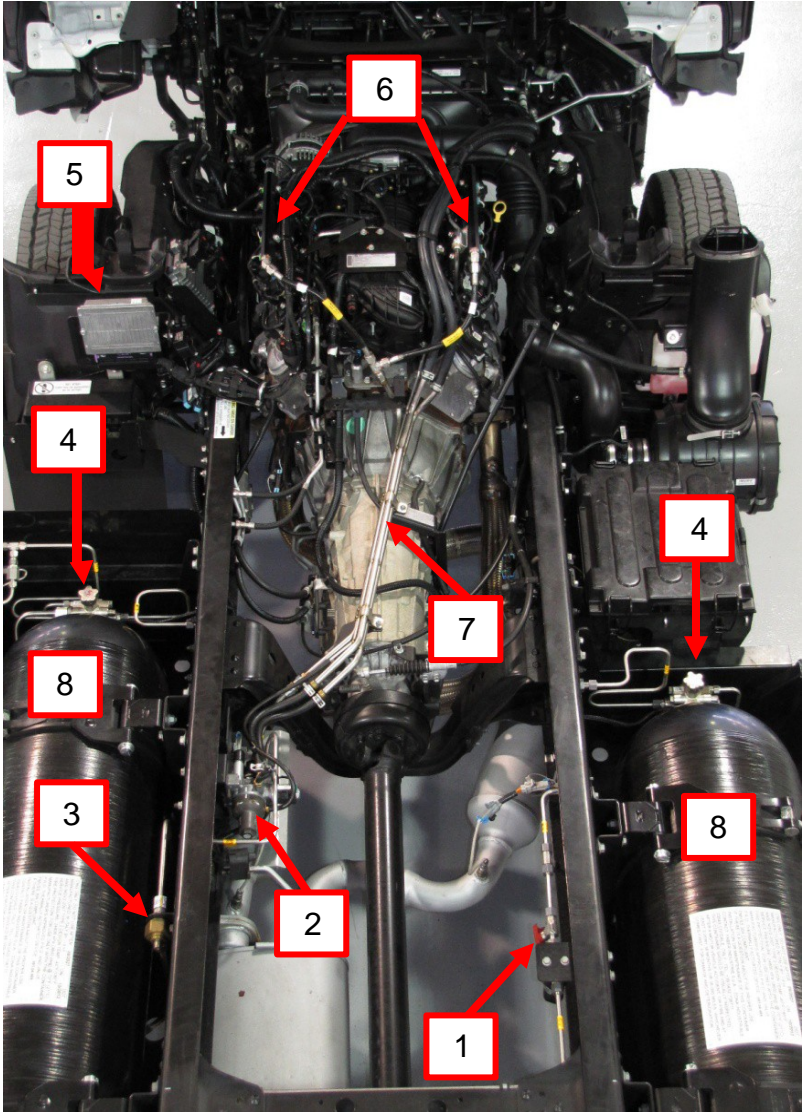
Typical Fuel Selector Switch Location:



Located on the Instrument panel

Typical CNG Component Locations:

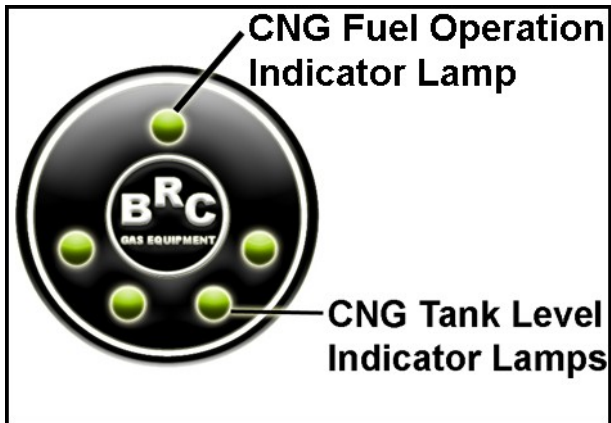
1. ¼ Turn Manual Shut Off Valve
2. Low Pressure Regulator
3. Thermal External Pressure Relief Device (PRD)
4. Tank Manual Shut Off Valve/Electronic Lock Off
5. CNG ECU
6. CNG Injectors
7. Stainless Steel Fuel Lines
8. Fuel Tanks



MPCO BI-FUEL SYSTEM CONTROLS & OPERATION

Fuel Selector Switch:

The Fuel Selector Switch is always mounted within easy access of the driver. The switch has two positions: CNG and Gasoline. Fuel selection is performed with the key in the ON position and the engine running or OFF. Also, the switch housing incorporates the Fuel Operation Indicator Lamp and the CNG Fuel Level Indicator Lamps.



Fuel Operation Indicator Lamp:

The Fuel Operation Indicator Lamp changes color to indicate the current fuel mode and the fuel transition mode (switch-over to the selected fuel). The colors are as follows:

- RED: Vehicle is currently operating on gasoline.
- GREEN: Vehicle is currently operating on CNG.
- AMBER: Fuel is transitioning to the selected fuel.

CNG Fuel Cylinder Level Indicator Lamps:

The four CNG Fuel Cylinder Level Indicator Lamps illuminate to indicate how much fuel is in the CNG fuel cylinder. The lamps illuminate as follows:

	4 LEDs	3 LEDs	2 LEDs	1 LED	Flashing LED
Percentage of CNG in Tank	100-85%	85-50%	50-25%	25-15%	15-0%
Amount of CNG in Tank (Estimate)	24,800-21,400 kPa (3,600-3,100 psi)	21,400-13,000 kPa (3,100-1,875 psi)	13,000-6,900 kPa (1,875-1,000 psi)	6,900-3,450 kPa (1,000-500 psi)	3,450-0 kPa (500-0 psi)

1 GREEN lamp illuminated and beeper sounding: CNG cylinder empty and the system has reverted back to gasoline operation. To cancel the beeper, push on the fuel selector switch once. The sound will stop and the fuel operation LED will illuminate RED.

COLD WEATHER STARTING:

When the engine is started in CNG mode and the ambient temperature is below a predetermined level, the engine will start on gasoline and (after certain operating conditions have been met) will automatically switch over to CNG operation. Refer to the vehicle manufacturer's base owner's guide for gasoline cold starting information.



Cold Start Gasoline



Warm CNG

Filling Your Fuel Cylinders

Filling the CNG fuel cylinder requires extra caution. Follow the warnings and procedures shown below.



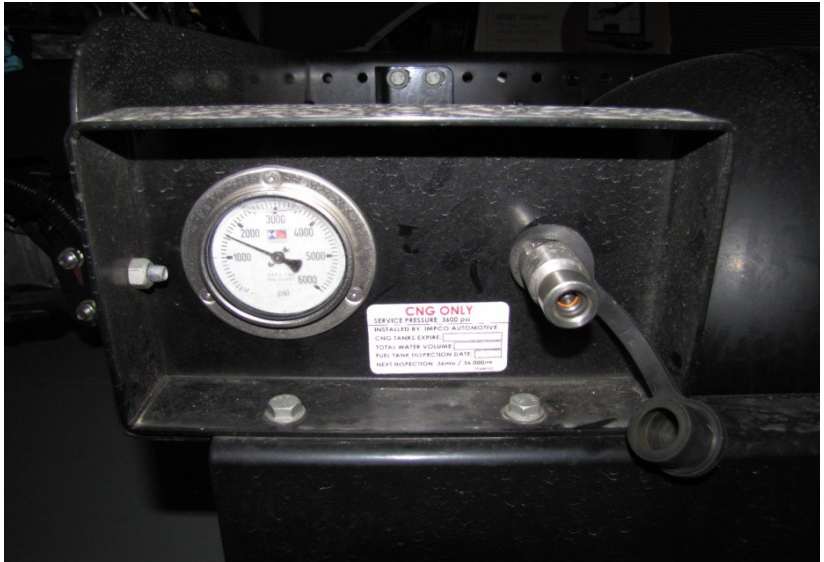
Failure to follow these warnings may result in bodily injury or death.

- DO NOT SMOKE.
- Always wear approved safety attire and eye protection during the CNG transfer.
- Never fill a CNG fuel cylinder that is damaged and/or shows signs of leakage and/or corrosion.
- Never overfill a CNG fuel cylinder. Refill fuel cylinders to recommended capacity only.
- Never fill your CNG fuel cylinder from another CNG bottle. Always fill from an approved refueling station.
- Never transfer CNG within 50 feet (15m) of a potential source of ignition. Extinguish or turn off all sources or potential sources of ignition.

Follow these steps when refueling the CNG fuel cylinder:

- 1) Turn off the engine, set the parking brake and make sure all passengers are out of the vehicle.
- 2) Visually inspect the fill port O-ring. If the O-ring is missing or damaged, consult your authorized vehicle manufacturer or CNG certified technician for replacement prior to filling CNG.
- 3) Always observe and follow the safety guidelines and filling instructions of the fill station.

CNG Fill Port and Tank Pressure Gauge



Isuzu Guide

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