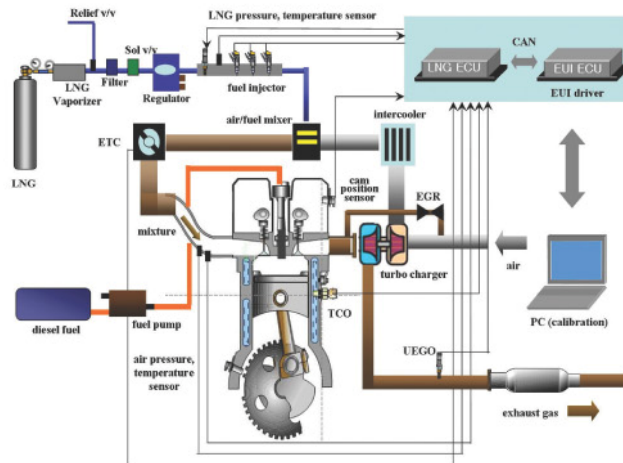
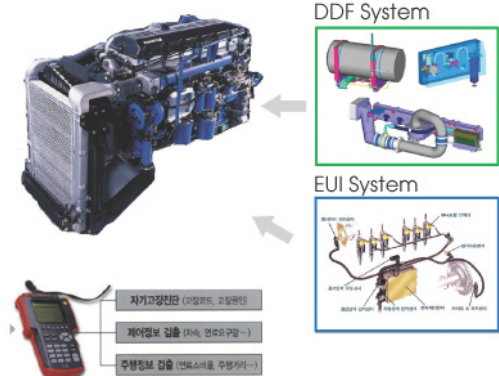


EUI Diesel Retrofit Kit to LNG Dual Fuel System

System Diagram



Main System Component



System Feature

- Diesel vehicle Retrofit to LNG(Dual Fuel System)
- Meet the Exhaust Gas Emission to EURO2&3
- Equivalent Performance of Base Diesel Engine
- High Performance and Reliability
- Customized Dual Fuel Engine Development
- High Efficiency and Economized DDF System
- High Safety and Quality Assurance



Applied Vehicle






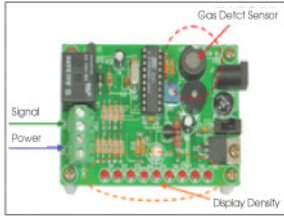






Retrofit Engine Performance

Fuel System	Engine model	Swept Volume(cc)	Power (PS/rpm)	Torque (Kg.m/rpm)	Engine Type	Applied Vehicle	Engine Maker
DDF	D6CA	12,920cc	380/1,900	160/1,500	In-Line 6Cylinder TCI	Catgo Tractor	HMC
			410/1,900	173/1,500			
			440/1,800	197/1,400			
	D6CB	12,344cc	380/1,900	160/1,200	In-Line 6Cylinder TCI	Catgo Tractor	HMC
			410/1,900	173/1,200			
			440/1,800	214/1,200			



System component List-LNG DDF

item	component specification	item	component specification
LNG Tank 	LNG Storage Tank, -162°...	Heat Exchanger 	Heat exchanger evaporate the liquid LNG to gaseous phase using the hot engine coolant water
Fuel Supply Module 	Fuel Filter : Remove the contaminant in LNG Solenoid Valve : on/off the fuel supply line Regulator : adjust the gas pressure in supply line	Intake Module 	Mixed with injected fuel and air, supply the mixture to combustion chamber
Relief Valve 	Prevent the over pressure in fuel line by means of the cut-off the excess pressure more than 1.6 MPa	Gas Alarm 	Sensing and alarm to leakage of CNG in fuel line
Fuel Metering Module 	Fuel supply to the engine by means of injected fuel that is controlled by ECU according to the engine condition	ECU 	Control the fuel quantity to supply the combustion chamber by means of the injection rate and injection timing so that can possible to maintain the engine performance and efficiency
Temp. & Pressure Sensor 	Sensing the temperature and pressure of CNG MAP Sensor : Sensing the pressure of intake manifold Water Temp. Sensor : Sensing the temperature of coolant water of engine	Convertor 	Reduction of exhaust gas emission