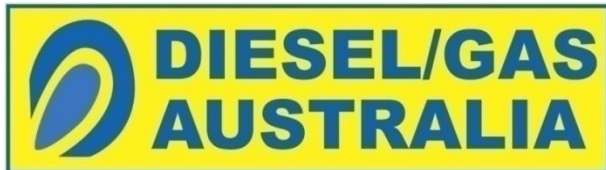


# Duel Fuel System

*DIESEL / CNG INJECTION  
SYSTEM*



# ABOUT



- 2200MN INR ( \$40Mn)
- 160 employees
- TS 16949



Rely on it.

- PP COMPOUNDS
- ENGINEERING PLASTICS
- MASTER BATCHES
- SPECIALTY COMPOUNDS

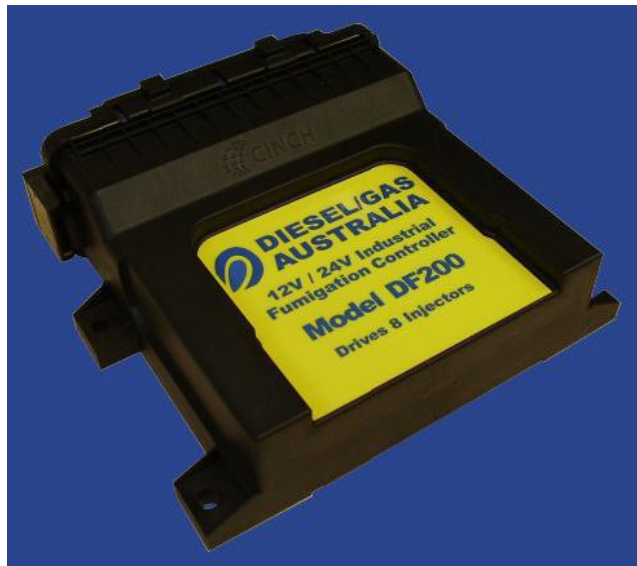
- STRUCTURAL PLASTIC PARTS
- COMPOSITE PRESSURE VESSEL
- DUAL FUEL SYSTEMS
- CONSUMER DIVISION
- INDUSTRIAL DIVISION

- WOOD STOCK SHEETS
- TPO SHEETS

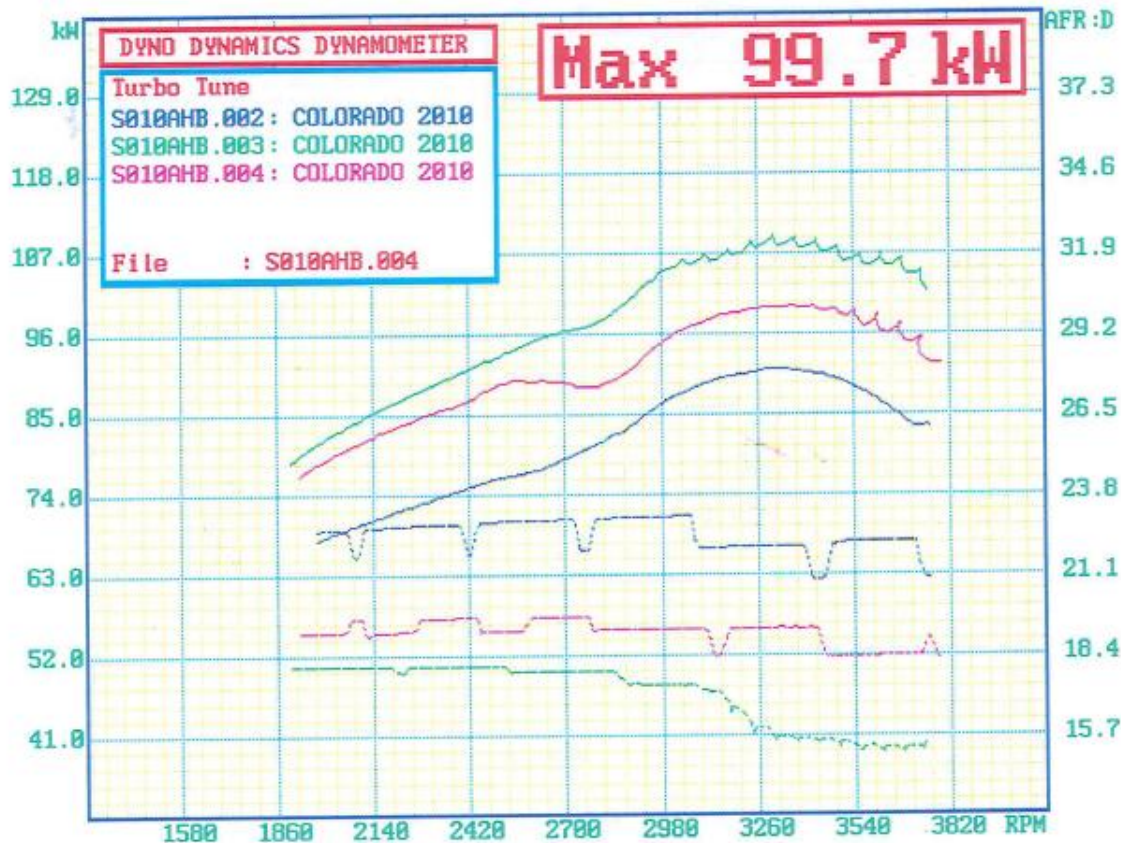


## THE NEW SYSTEM

The new generation Diesel/Gas Australia processor is a more powerful and robust unit supported by a user friendly but advanced software package.



# Dyno Chart



Blue – diesel only

Green – first run

Red – second run with a slight reduction in CNG input.

# Diesel Gas Consumption

Kms	Diesel (ltrs)	CNG (M <sup>3</sup> )	Diesel L/100	Diesel Reduction (9.50 Diesel Only) %	CNG M <sup>3</sup> /100 Km	Travel Description	Diesel Cost Rs. 57.08 /Litr	CNG Cost Rs 30.94 /M <sup>3</sup>	Total Cost Rs.	Diesel Only Cost Rs.	Saving per 100 km	% Savings
174	3.89	10.88	2.24	76.5	6.25	Salisbury -Pt Wakefield	127.61	193.46	321.07	542.26	221.19	40.79
195	5.72	11.98	2.93	69.1	6.14	salisbury,Ridlyton, Pt.Wakefield, Salisbury	167.43	190.08	357.52	542.26	184.74	34.07
212	8.07	12.58	3.81	59.9	5.93	Salisbury , Gawler, Mallala, Pt Wakefield, Salisbury	217.28	183.60	400.88	542.26	141.38	26.07
189	5.46	11.89	2.89	69.6	6.29	Salisbury , Gawler, Mallala, Pt Wakefield, Salisbury	164.90	194.64	359.54	542.26	182.72	33.70
195	8.31	11.68	4.26	55.1	5.99	Salisbury, Rideleyton, Nuri, Gawler, Salisbury	243.25	185.32	428.57	542.26	113.69	20.97
211	9.5	12.48	4.50	52.6	5.91	Salisbury, Ridleyton, Gawler, Salisbury	257.00	183.00	440.00	542.26	102.26	18.86
222	9.69	11.77	4.36	54.1	5.30	Salisbury, Ridleyton, Gawler, Salisbury	249.15	164.04	413.18	542.26	129.08	23.80
<b>1398.00</b>	<b>50.64</b>	<b>83.26</b>	<b>3.57</b>	<b>62.4</b>	<b>5.98</b>		<b>203.80</b>	<b>184.88</b>	<b>388.68</b>	<b>542.26</b>	<b>153.58</b>	<b>28.32</b>



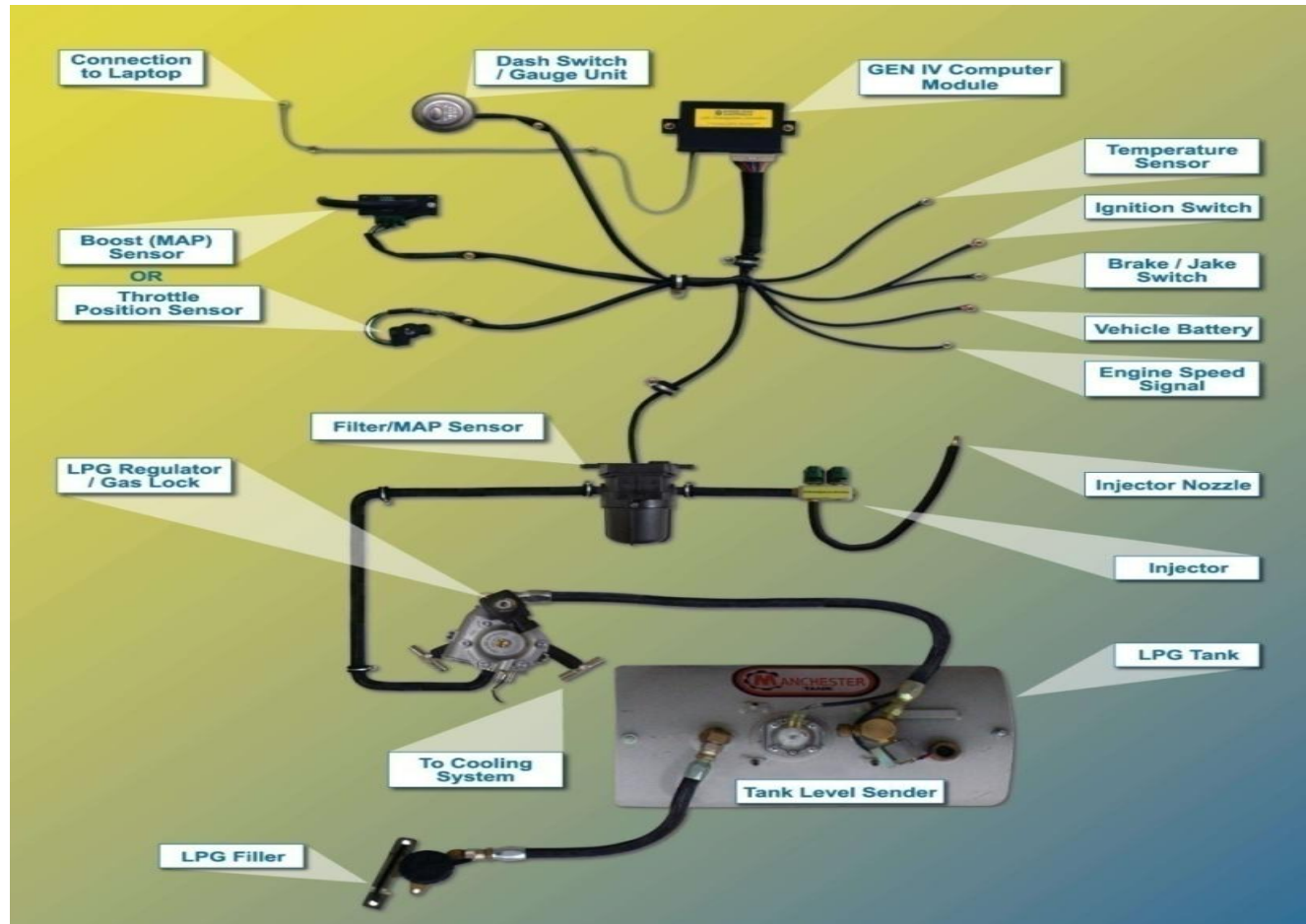
Diesel CNG  
Consumption

## BENEFITS

- Lower operating costs.
  - CNG substitution of around 60%.
  - Favorable payback periods.
  - Extended engine life – Natural gas is inherently clean and as a result reduces engine wear.
  - Reduced maintenance costs – oil changes may be extended due to reduced wear and tear.
  - Reduced emissions
    - NOx – Oxides of nitrogen
    - PM – Particulate matter
    - Carbon monoxide
  - Power and performance equivalent or greater than a diesel engine.
-



## Kit Connections



## Control Panel Connections



Diesel – LPG kit connections completed during trial done at Pune on DG Set



## Gas intake before turbo



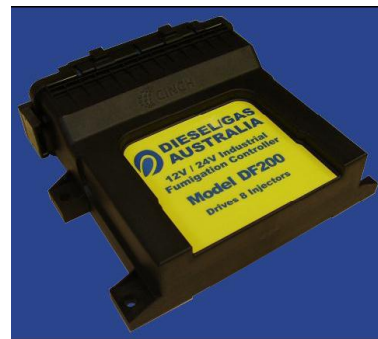
Diesel – LPG kit connections completed during trial done at Pune on DG Set

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**AUTO DYNAMICS**

THANK YOU