

DieserDual Fuelsystem More power, Longer range KRAFTEAS ENERGIA

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Diesel Dual Fuel system Energia Italy E-100DG Plus

- It combines the best features of other controllers and allows operation simplest vehicles with a mechanical pump and the newest structures Euro 6.
- It is the first DIESELGAS controller with an inbuilt CAN interface.
- It stands out thanks to its enhanced precision of analogue emulators.
- It is now possible to cooperate with GPS module and there is a remote update via GPRS.

• In order to provide fitters with comfort, a longer 5-meter group divided into 2 sectors combined by a hermetic joint has been used.

• A developed set of analogue and digital emulators has been used. Also, a frequency emulator for flowmeters has been added. Truth is our system is as good as its weakest link. In this case a complicated and unpredictable human factor should be considered. The system has two independent protections against uneconomical style of machine operation. The first degree is system adjustment which prevents a user from using a full uneconomical DIESELGAS power. A second degree is control system and working parameters registration system. It informs the driver and the company about the driving style impact on consumption.

Environment

- Diesel is a very dirty fuel and not environment friendly
- A case study adding 50% LPG to the engine gain 70% better environmental surroundings
- Because of the higher temp. on LPG the level of CO and HC decreases by more then 30%









How it is working





LPG Mix point before turbo using the injectors of LPG

Using the sensor to add LPG to the intake: TPS, AFM, Common rail sensor, Map sensor



Reducer to convert LPG from liquid to vapor

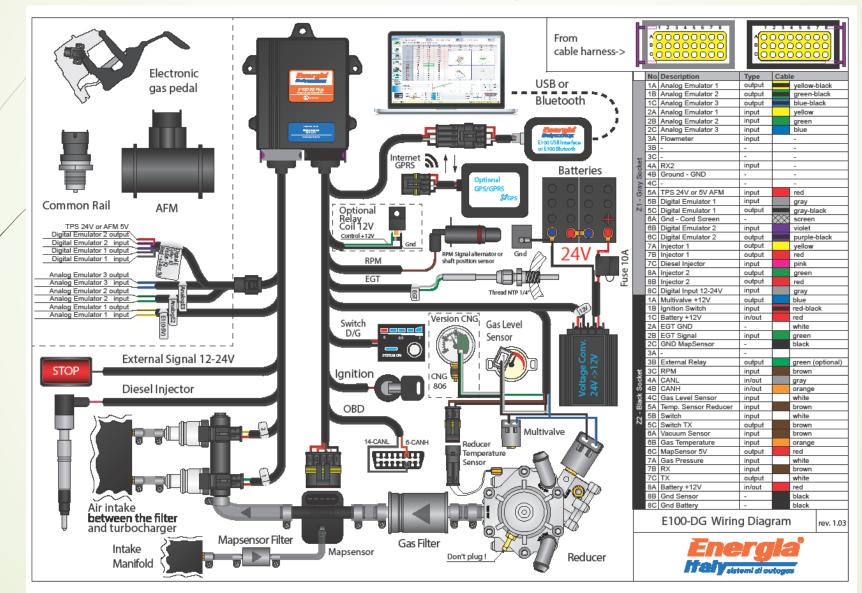




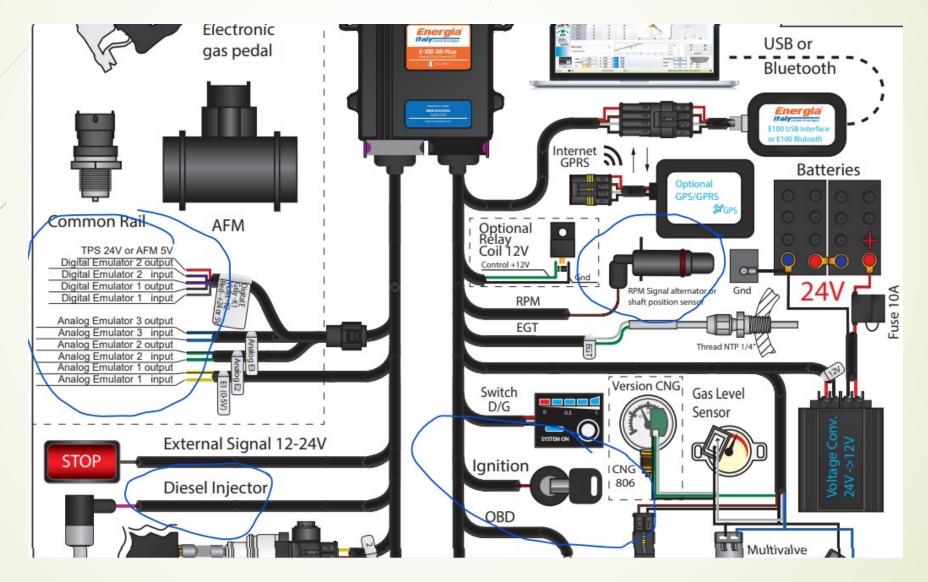




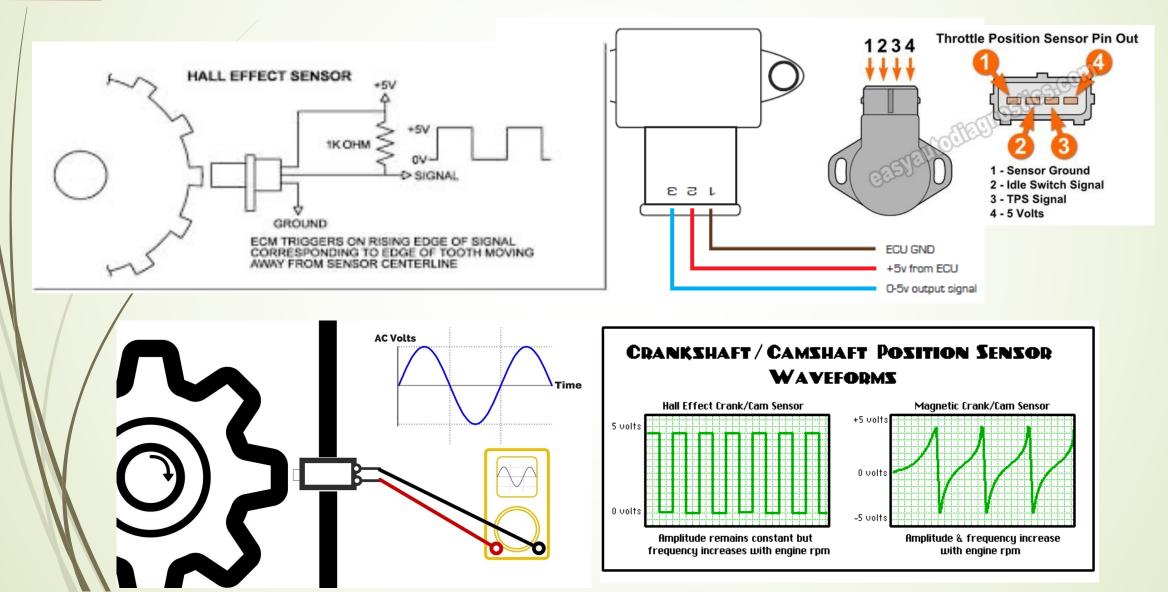
How it works - Wiring



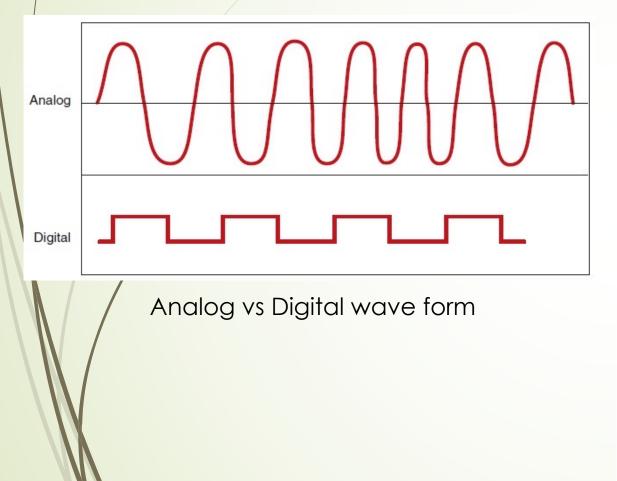
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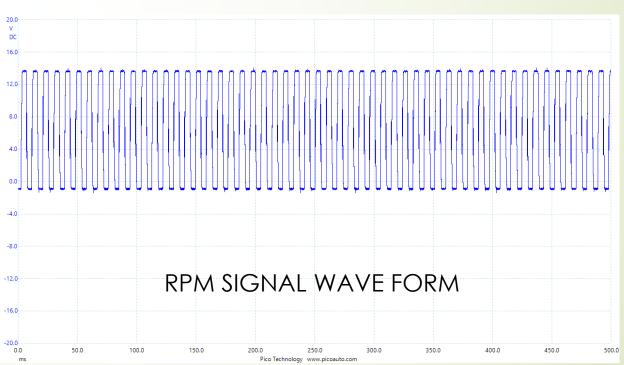


Wiring – Signals searching

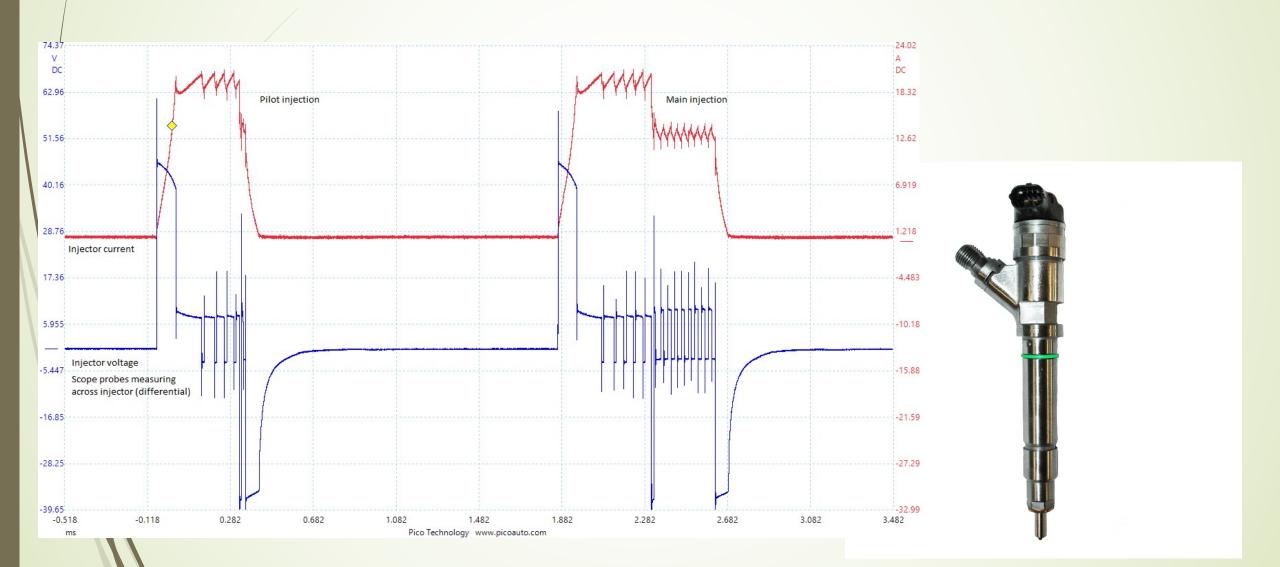


Wiring – Signals searching via Oscilloscope

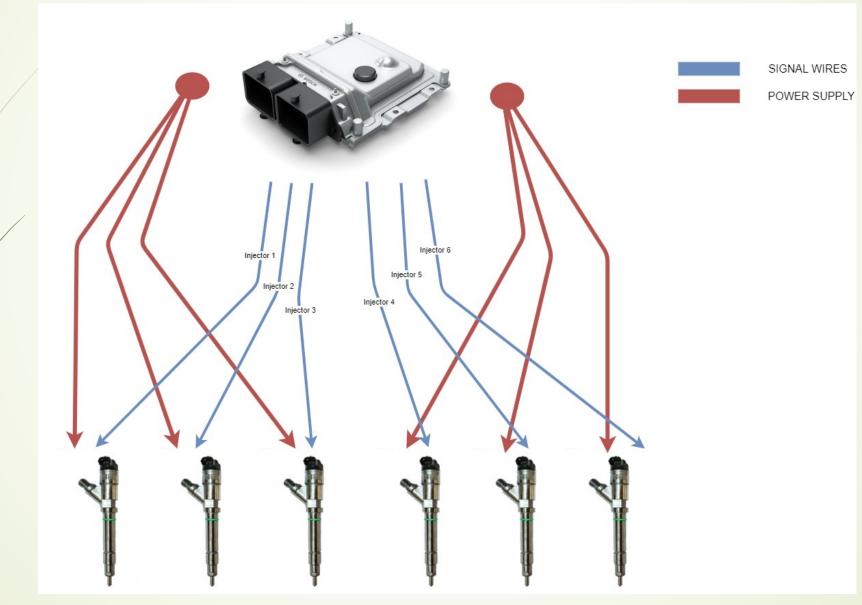




Wiring – Signals Injector signal



Wiring – Signals Injector signal



Safety

- DDF system uses all the experience in the automotive LPG sector
- High level standard
- Manual safety and electrical safety







Mounting components



