

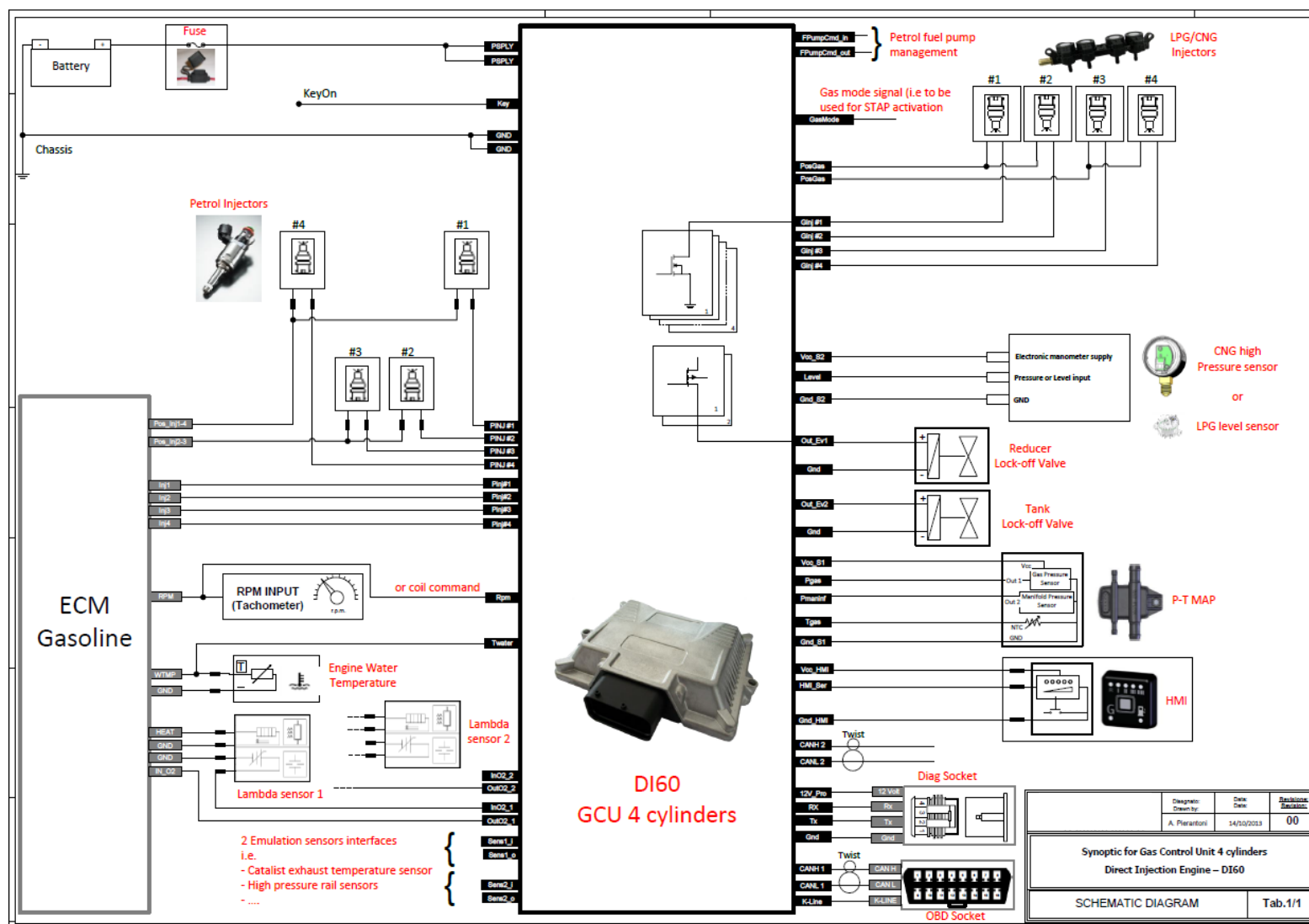
DI60

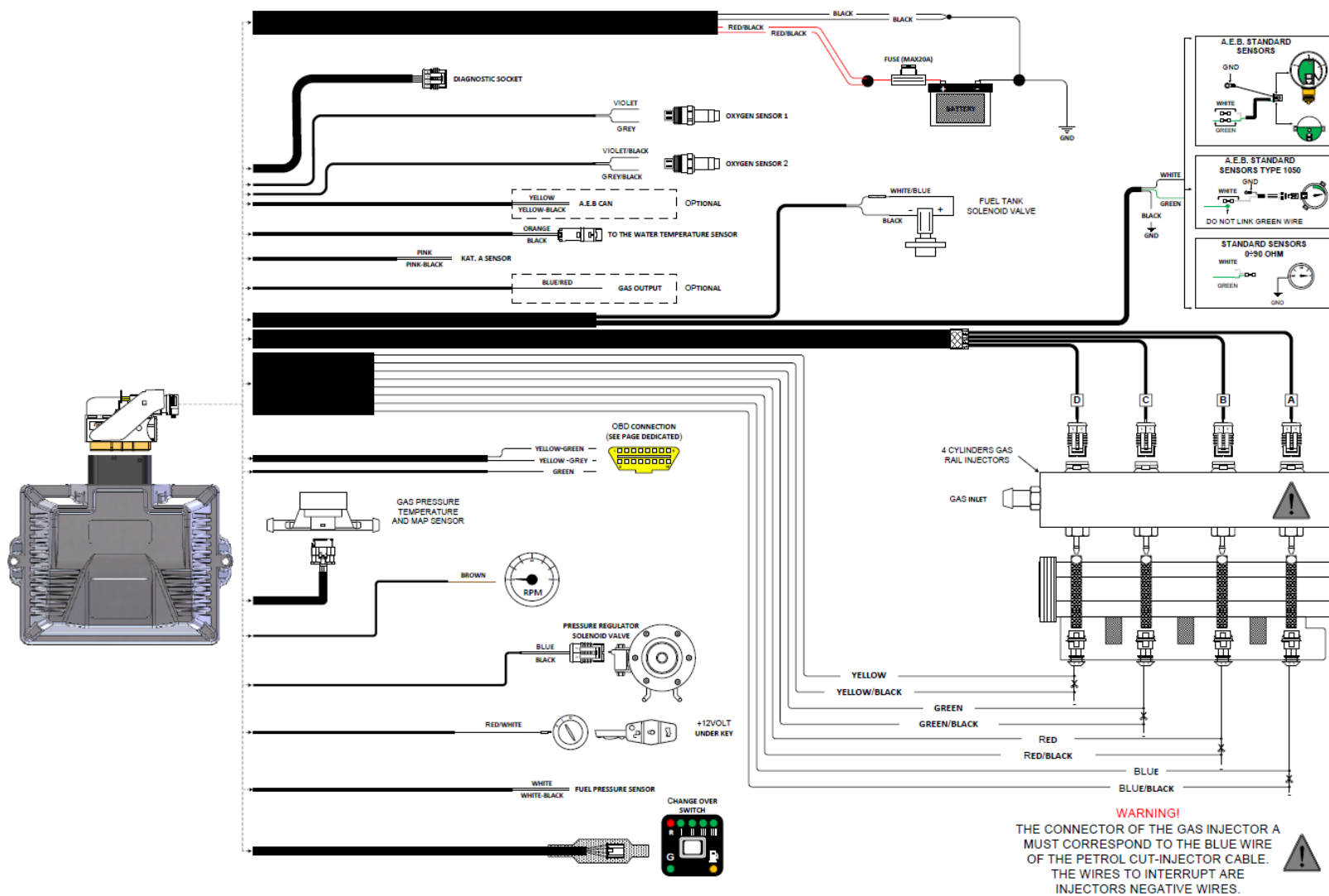
3-4 CYL. DIRECT INJECTION CONTROL UNIT INSTALLATION MANUAL



Technical specifications

Supply voltage	Vbatt=10÷16V
Operating temperature	-40÷110°C
Max Stand-by current	I _{stby} < 500 uA
Current absorption with the actuators disabled	I _{max} =0.5A
Protection rating of electrical connections	IPX9k





Description of the connections made on the OBD connector English

Through connection to the vehicle's OBD socket, this new generation of GAS control units makes it possible to acquire information useful for properly setting up the vehicle.

Several carburetion parameters acquired from the PETROL control unit can be seen using the special software for connecting the GAS control unit to the PC, such as:

- Carburetion calibrators (Fast and Slow).
- Voltage on the rear lambda probe.

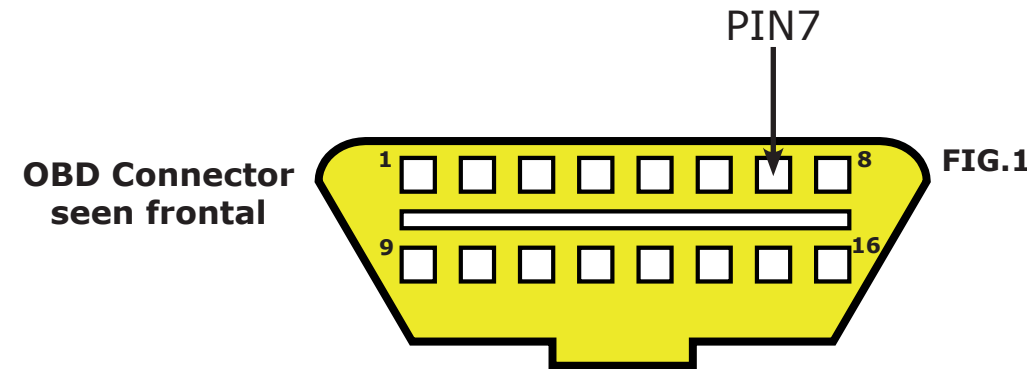
Connect a hand-held tester (CODE AEB214), and check the type of connection.

If the tester reads connection types 1,2, or 3, proceed by following the diagram in figure 1.

If the tester reads connection types 6,7,8 or 9, proceed by following the diagram in figure 2.

ATTENTION: If the tester (CODE AEB214) reads a type of connection that is not stated above, do not connect to any of the signals.

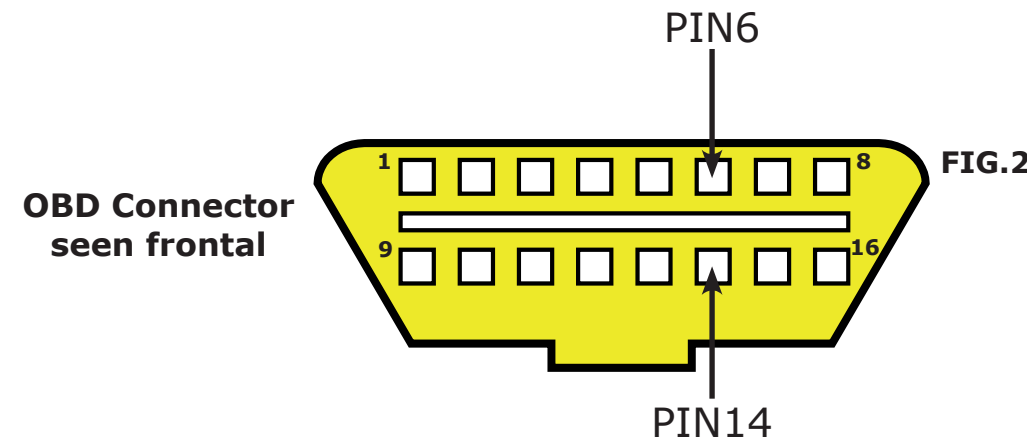
TYPE OF CONNECTION	CONNECTION DETAILS
Connection type 1	ISO 9141-2
Connection type 2	KWP-2000 Fast Init
Connection type 3	KWP-2000 Slow Init



Connect the GREEN wire to the signal found on PIN 7 of the OBD connector.

ATTENTION: The YELLOW-GREEN and YELLOW-GREY wires must be isolated and not connected.

TYPE OF CONNECTION	CONNECTION DETAILS
Connection type 6	CAN Standard 250 Kbps
Connection type 7	CAN Extended 250 Kbps
Connection type 8	CAN Standard 500 Kbps
Connection type 9	CAN Extended 500 Kbps



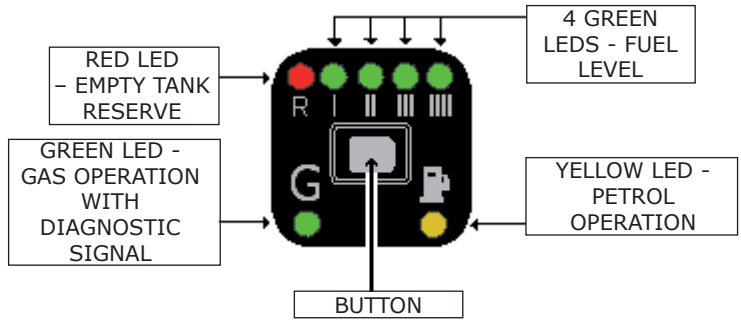
Connect the YELLOW-GREEN wire to the signal found on PIN 6 and the wire YELLOW-GREY to PIN 14 of the OBD connector.

ATTENTION: The GREEN wire must be isolated and not connected

Changeover switch operation English

Operating description

The changeover switch supplied with the kit has one button, 7 LEDs and an internal buzzer.



BUTTON

This is used to select either the petrol or the gas fuel supply. Press the button one time to switch to gas and press it again to return to petrol.

GREEN LED FUNCTIONS

Rapid flashing – the control unit is prepared to start with petrol and switch automatically to GAS.

Steady on with yellow LED off – Gas operation.

RED LED + 4 GREEN LED FUNCTIONS

Fuel level indicator; reserve RED LED, while the 4 GREEN LEDS indicate the fuel level (1/4, 2/4, 3/4, 4/4). The indicator is illuminated only when the gas mode is selected.

YELLOW LED FUNCTIONS

Steady on with Green LED off – PETROL operation.

Steady on with flashing Green LED – the control unit is prepared to start with petrol and switch automatically to Gas.

LOW GAS PRESSURE PETROL CHANGEOVER

When the changeover switch indicates the fuel tank is in **reserve** and the gas pressure drops below a set value, the control unit automatically switches over to gas. This prevents the engine from running with an excessively lean carburetion, thus damaging the catalyser. Before returning to gas operation, fill up. The changeover switch signals the **changeover to petrol due to low gas pressure** by activating the internal buzzer, illuminating the YELLOW petrol operation LED and by illuminating the RED LED in an alternating pattern with the 4 GREEN LEDS. To make the changeover switch return to normal operation press the BUTTON one time; the YELLOW LED will remain on to indicate that the car is operating with petrol and the buzzer turns off.

DIAGNOSTIC ERROR FINDING

The switch reports a finding of a diagnostic error by turning on the YELLOW fuel operation LED, by making the GREEN GAS LED blink rapidly and by sounding a warning with the internal buzzer. To put the switch back into normal operation, press the BUTTON once. The YELLOW LED will stay on to indicate the vehicle is operating with fuel and the buzzer will turn off.

EMERGENCY

If the car won't start with petrol (e.g. problems with the petrol pump, etc.), it can be started directly with GAS. To do this follow the instructions listed below:

- insert the ignition key and press the button to switch the changeover switch to gas operation;
- remove the key;
- insert the ignition key and keep pressing the button (about 5 seconds) until the GREEN LED stops flashing;
- now, start the engine without turning off the ignition key; the car will start directly with GAS;
- each time the car engine is turned off, the operation will have to be repeated to start in the EMERGENCY condition.

WARNING!

The EMERGENCY function can be activated only if the changeover switch is illuminated when the ignition key is turned



Homologation

Homologation

ECU is homologated as per 10R-03, 67R-01 and 110R-00 norms

Homologation number:

- E3 10R-036331
- E3 67R-016032
- E3 110R-006055