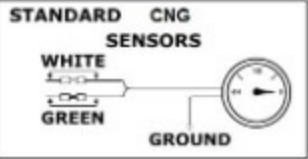
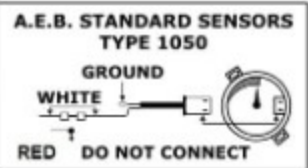
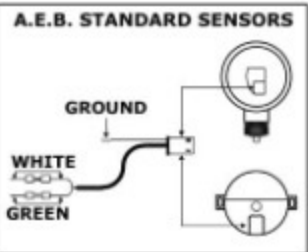


red not connect
 black not connect
 brown o gray connect to the original map sensor signal

connect only on turbo cars



RAIL INJECTOR GAS 4 CYLINDER

CUT INJECTORS CABLE

ATTENTION
 FOR THE CONNECTION OF A 3 CYLINDER AND THE CHOICE OF THE CUT INJECTORS CABLE MOST APPROPRIATE TO SEE FOLLOWING PAGES

ATTENTION
 THE CONNECTOR OF THE RING A MUST CORRESPOND TO THE GAS INJECTOR OF THE RING A

GAS PRESSURE, TEMPERATURE AND SENSOR

TO THE WATER TEMPERATURE SENSOR

PRESSURE REGULATOR SOLENOID VALVE

DIAGNOSTIC SOCHET

GROUND

PETROL INJECTORS



CUT INJECTOR WIRING DESCRIPTION

How to check what cut injector wiring to use

There are different types of cut injector wiring to match with the injection control unit.

NOTE: the cut injector wiring must be ordered separately since it is not included in the kit.

To know what type of cut injector wiring to use, you must first check, on the petrol injector connector, on what PIN the injector positive is connected.

To identify which of the two wires is positive, do the following:

- detach all the connectors from the injectors;
- set a multimeter to measure DC voltage;
- put the negative probe to ground;
- put the positive probe into one of the two pins of the injector wiring;
- insert the key into the ignition and immediately check the multimeter reading.

If the multimeter reads +12 volts, that pin is the positive.

WARNING: the injector +12 volt on some cars might be timed; therefore the reading might disappear a few seconds after the ignition is turned on. Check the polarity of all injector wiring connectors to make sure that they are all polarised in the same way.

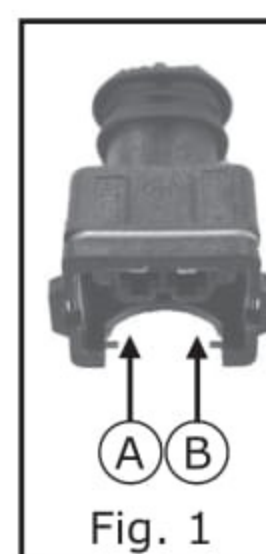
EXAMPLES OF CONNECTORS MOST COMMONLY USED

SA144 - SA144INV for 4-8 cylinder cars (For 8 cyl. use 2 types of wiring).

Wiring types **SA144** and **SA144INV** are equipped with "BOSCH" type connectors to connect directly to the petrol injectors. To know whether to use model **SA144** or **SA144INV**, check the polarisation on the petrol injector wiring.

SA144: use this if the positive of the petrol injectors is on PIN A and the negative is on PIN B. Refer to figure 1.

SA144INV: use this if the positive of the petrol injectors is on PIN B and the negative is on PIN A. Refer to figure 1.

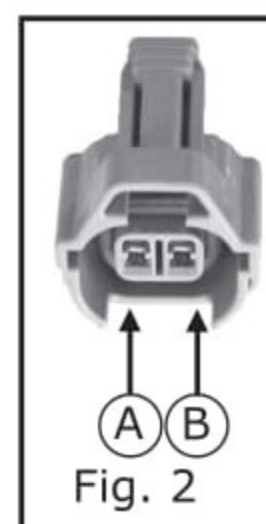


SA144J - SA144JINV- SA144SJ for 4-8 cylinder cars (For 8 cyl. use 2 types of wiring).

Wiring types **SA144J** and **SA144JINV** are equipped with "JAPAN" type connectors to connect directly to the petrol injectors. To know whether to use model **SA144J** or **SA144JINV**, check the polarisation on the petrol injector wiring.

SA144J: use this if the positive of the petrol injectors is on PIN A and the negative is on PIN B. Refer to figure 2.

SA144JINV: use this if the positive of the petrol injectors is on PIN B and the negative is on PIN A. Refer to figure 2.



SA144E

Wiring type **SA144E** is equipped with a single 6-pin connector. It can be used on some types of Fiat, Citroen or Peugeot cars that use the same connector on the injector wiring.

To install and to know on what cars it can be used, follow the instructions included with the wiring.

SA143 - SA143INV for 3 cylinder cars

Wiring types **SA143** and **SA143INV** are equipped with "BOSCH" type connectors to connect directly on the petrol injectors. To know whether to use model **SA143** or **SA143INV**, check the polarisation on the petrol injector wiring.

SA143: use this if the positive of the petrol injectors is on PIN A and the negative is on PIN B. Refer to figure 1.

SA143INV: use this if the positive of the petrol injectors is on PIN B and the negative is on PIN A. Refer to figure 1.

UNIVERSAL CUT INJECTOR WIRING DESCRIPTION

SA144U

All wires of the **SA144U** wiring are free and without connectors. This wiring is used on cars where other types of wiring cannot be installed or where it is impossible to access the injectors' original connectors.

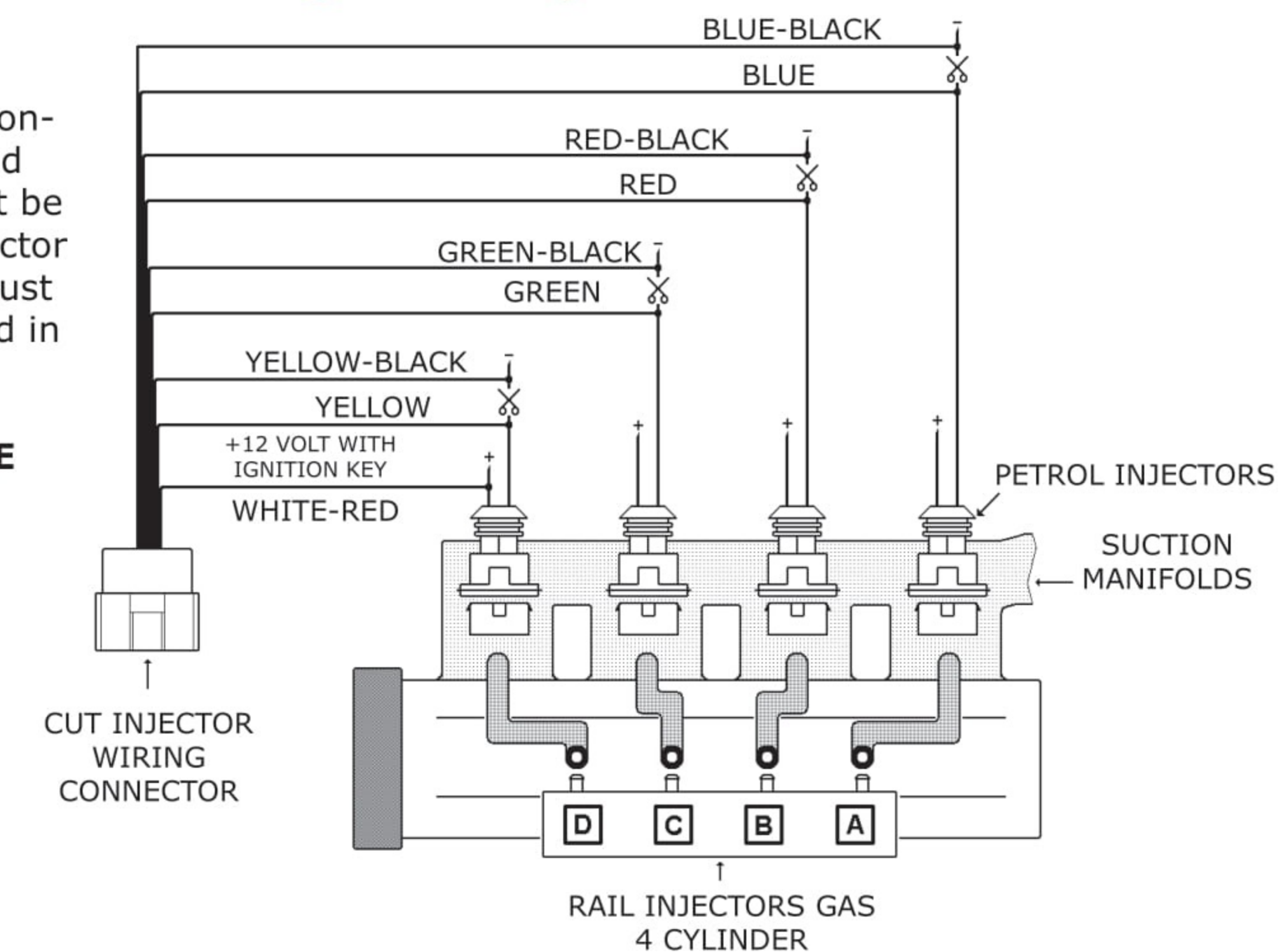
To install this type of wiring, cut the negative wires of the petrol injectors in the order indicated in the figure. The connection direction is very important. The **BLACK striped** wires should be installed toward the petrol injection control unit and the others toward the injectors.

The **WHITE-RED** wire should be connected to any of the injector positives.

Connection diagram for 4-cylinder cars

WARNING!
Follow the sequence of connections. The **BLUE** and **BLUE-BLACK** wires must be positioned at the gas injector marked **A**. The others must be connected as indicated in the figure.

INTERRUPT THE INJECTOR NEGATIVE WIRES.



Connection diagram for 3-cylinder cars

WARNING!
For a connection on a 3-cylinder car the **YELLOW** and **YELLOW-BLACK** wires should remain disconnected. See the diagram.

