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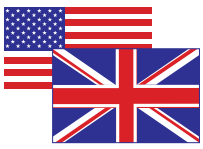
BRC GAS EQUIPMENT

SEQUENT

installation handbook - 1/3
installation typologies - 2/3
software handbook - 3/3



TA010976A - N. 9 - 31.07.2003

USEFUL REFERENCES

For further information on “SEQUENT” system, it is recommended to refer to the other handbooks and informative documents published by BRC.

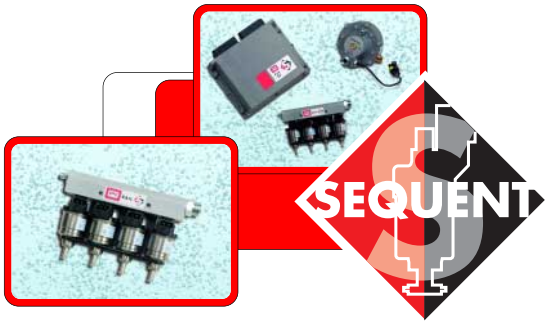
• Installer’s handbook.

It is the easiest way to obtain fundamental, general information regarding the installation of the SEQUENT equipment.
Inside that, it is moreover possible to find:
- knowledge about the working principle and the structure of the system,
- a detailed description of the components which the system is made up,
- indications about the assembly of the mechanical part and electrical connections.

• Software handbook.

It is the indispensable guide for who wants to learn managing the system by means of a personal computer, realizing mappings , programming the ECUs, making diagnosys, modifying the working parameters. It describes the working of the “SEQUENT” software, which runs on Personal Computers, by driving the user in the various steps of each function.

Modular Common Rail system for gas



PRESENTATION

The present handbook results particularly useful to the installer when he decides to convert a vehicle for which BRC has not marketed the specific kits yet.

In this case it is therefore very important that the installer knows how to choose a basic kit and a standard kit suitable to the vehicle that is being converted, depending on the number of its cylinders and their location, the type of engine (aspirated and supercharged) and the power.

As already referred to in Chapter 1 of the Installer's Handbook, we are herebelow reporting for your convenience the GENERAL composition of the basic and the standard kits.

The **LPG basic kit** contains:

- 1 FLY SF ECU without cartography,
- 1 harness,
- 1 roll of ø 6 or ø 8 copper pipe,
- 16x23 Water pipe
- 1 GENIUS SEQUENT LPG pressure reducer with thermistor gas temperature sensor,
- 1 cartridge filter for gas "FJ1"
- 1 P1 - MAP or P1 - MAP Turbo pressure sensor,
- 1 LPG "ET98 FLY – INJ WP" solenoid valve,
- 1 bag containing screws, nuts and various fittings.

The **CNG basic kit** contains:

- 1 FLY SF ECU without cartography,
- 1 harness,
- 1 auxiliary harness,
- 1 roll of copper or steel pipe,
- 8x15 Water pipe
- 1 GENIUS SEQUENT CNG pressure reducer with thermistor gas temperature sensor,
- 1 cartridge filter for gas "FJ1",
- 1P1 - MAP CNG 2,5-4 bar pressure sensor,
- 1 VM A3 /E "WP" Classic CNG electro-assisted valve
- 1 gauge with CNG resistive pressure sensor
- 1 bag containing screws, nuts and various fittings.

The **standard kit** contains:

- 4 (or 3, or 6, depending on the number of cylinders) gas injectors with respective calibrated nozzles,
- 1 injectors connection rail, with fittings attached,
- 10x17 Gas pipe,
- 4x10 Gas pipe to be used on the injectors,
- 4x10 Gas pipe to be used on the pressure points,
- A bag containing: idling nozzle, nylon Y piece, nuts, junctions and "click" clamps for 4x10 and 10x17 gas pipes, "click" clamps for the pressure points, M8x1 cap for any RAIL closure.

It is obvious that both the basic and the standard kits are available in various configurations. In the first case we have devised in fact basic kits, that can have a 800 or 1200 or 1500 mbar Genius reducer, the P1-MAP or P1 Map Turbo sensor, the Normal or Super solenoid valve etc.

In the case of the standard kits we have conceived packagings in which the number of injectors and the shape of the Rail varies depending on the number and the typology of the cylinders of the vehicle, etc.

Listing the complete description of all basic and standard kits devised by BRC will be superfluous and prolix. But, in the following mechanical diagrams, referring to the type of vehicle to be converted, we indicate the necessary basic and standard kits, inside which the installer will find the suitable and essential products for the conversion.

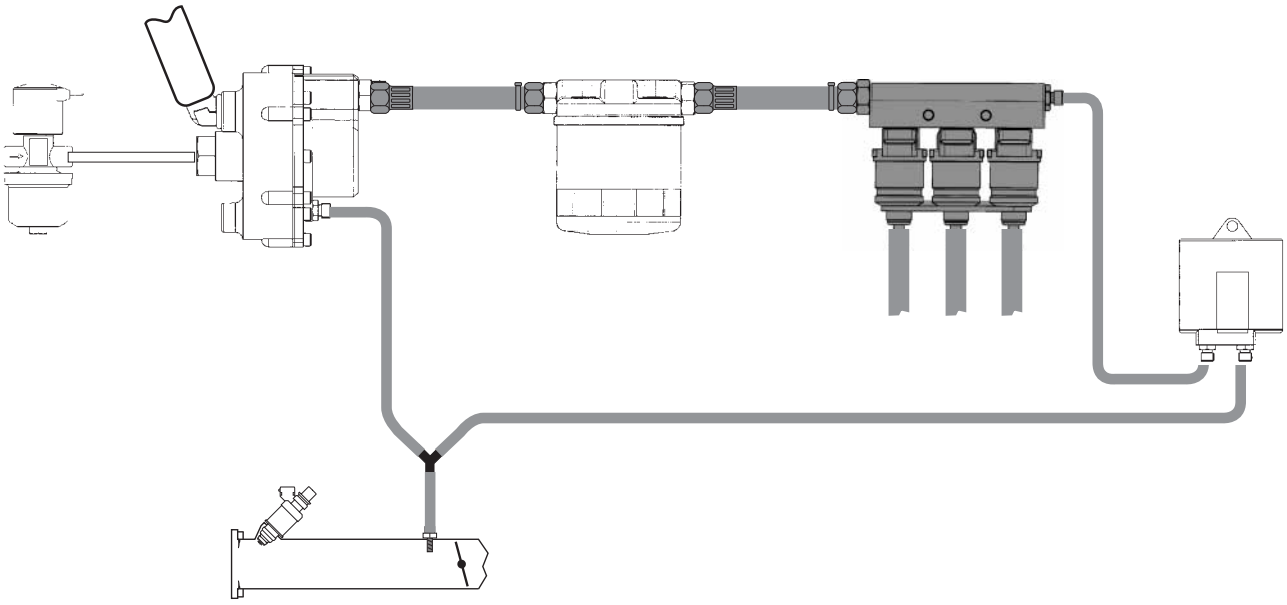
For the general electrical connections it will be sufficient to follow the wiring diagrams indicated on each mechanical diagram.

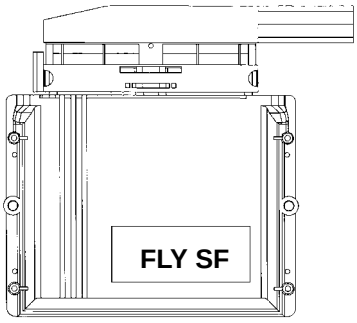
Please remark that the representation of the products on the mechanical diagrams is purely indicative. The main products present inside the standard kits are distinguishable by GREY colour, while the main products present inside the basic kits are distinguishable with WHITE colour.

LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 3-CYLINDER

M.D. 1 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
3 Cylinders Aspirated	**09SQ00001003**	**09SQ00000001** Genius 800 mbar Normal Solenoid Valve P1-MAP Sensor	**T.I. 01 LPG**
3 Cylinders Supercharged	**09SQ00001003**	**09SQ00000014** **Genius 800 mbar** Normal Solenoid Valve P1-MAP Turbo Sensor	**T.I. 01 LPG**

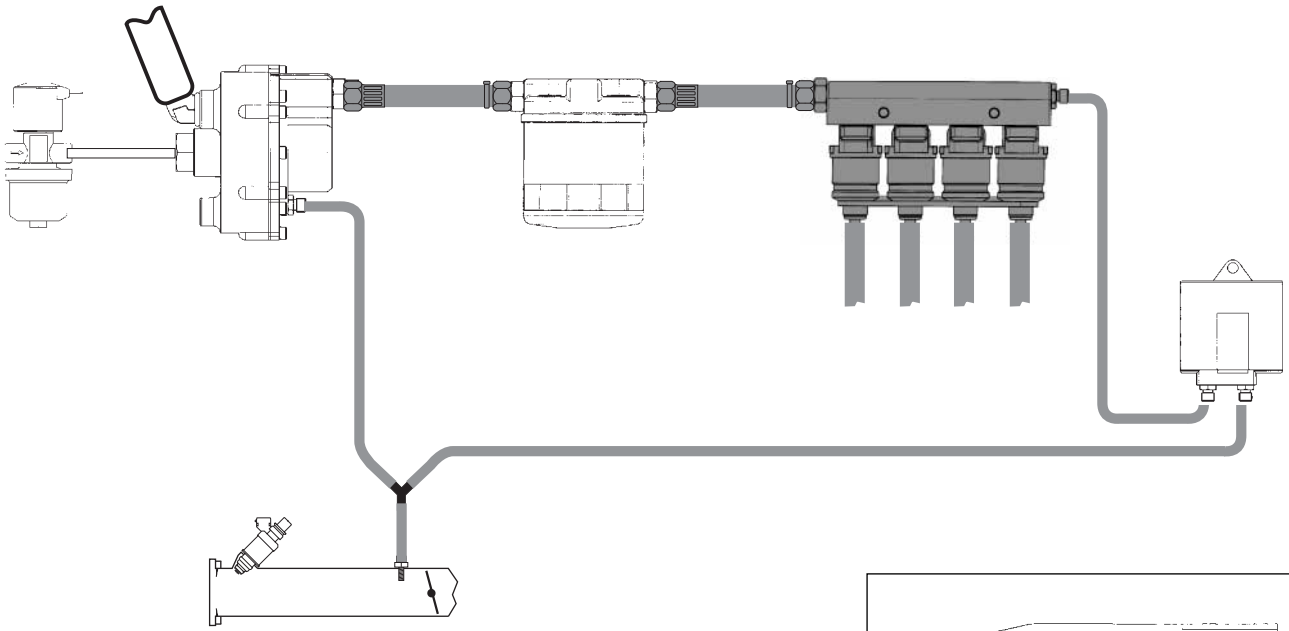


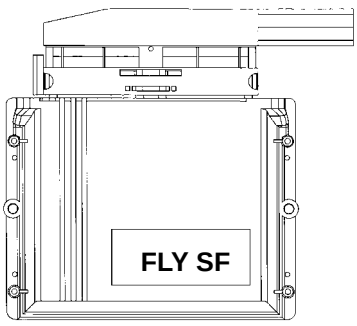


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 4-CYLINDER

M.D. 2 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
4 Cylinders Aspirated power lower or equal to 60 kW	09SQ00001007	**09SQ00000003** Genius 1200 mbar Normal Solenoid Valve P1-MAP Sensor	**T.I. 02 LPG**
4 Cylinders Aspirated power included between 60 kW and 100 kW	09SQ00001008	**09SQ00000003** Genius 1200 mbar Normal Solenoid Valve P1-MAP Sensor	**T.I. 02 LPG**
4 Cylinders Aspirated power included between 100 kW and 140 kW	09SQ00001008	**09SQ00000006** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 02 LPG**
4 Cylinders Supercharged power lower than 140 kW	09SQ00001008	**09SQ00000005** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 02 LPG**

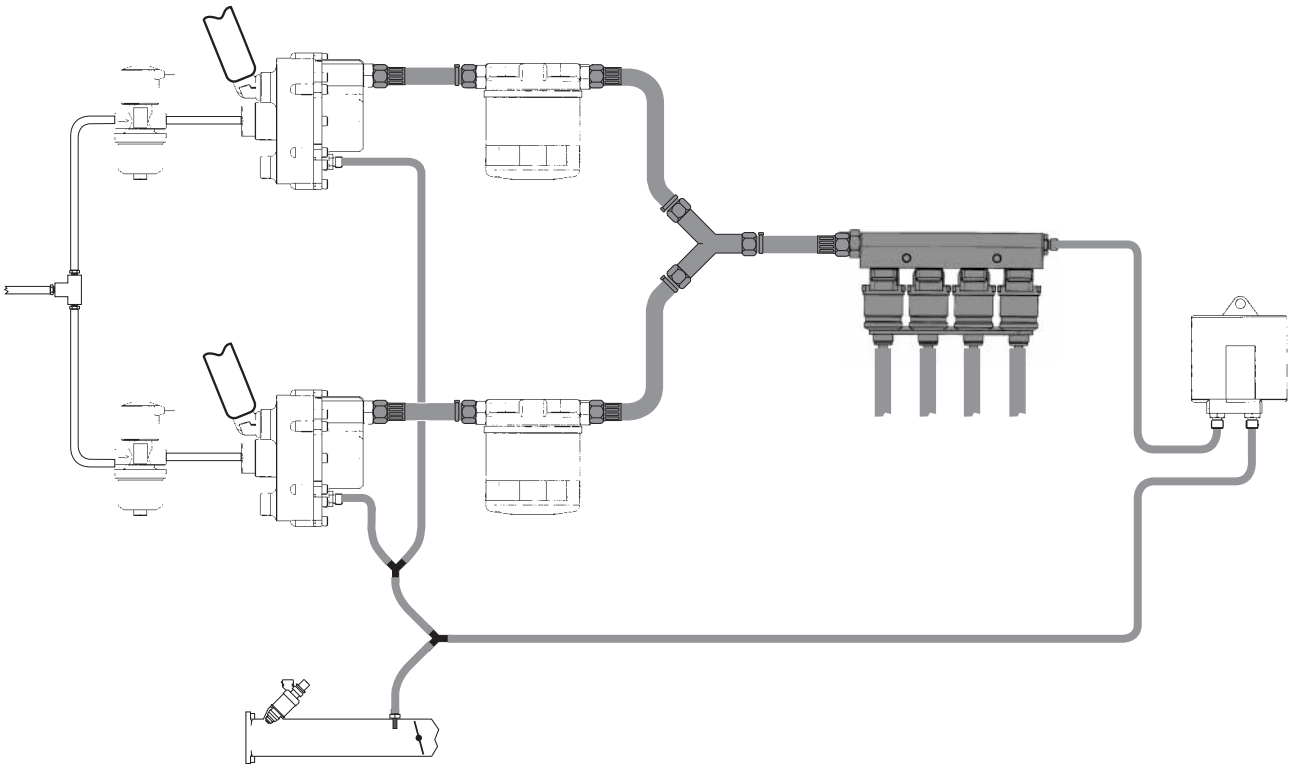


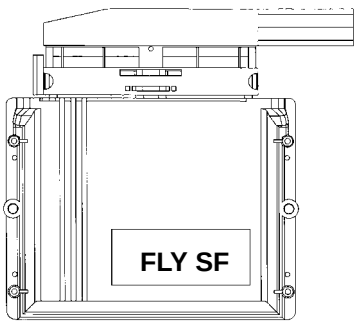


LPG SEQUENT MECHANICAL DIAGRAM
ON SUPERCHARGED VEHICLES WITH 4-CYLINDER WITH POWER HIGHER OR EQUAL TO 140 KW

M.D. 3 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
4 Cylinders Supercharged **power higher or equal to 140 kW**	**09SQ00001008**	**09SQ00000020** n° 2 Genius 1500 mbar n° 2 Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 03 LPG**

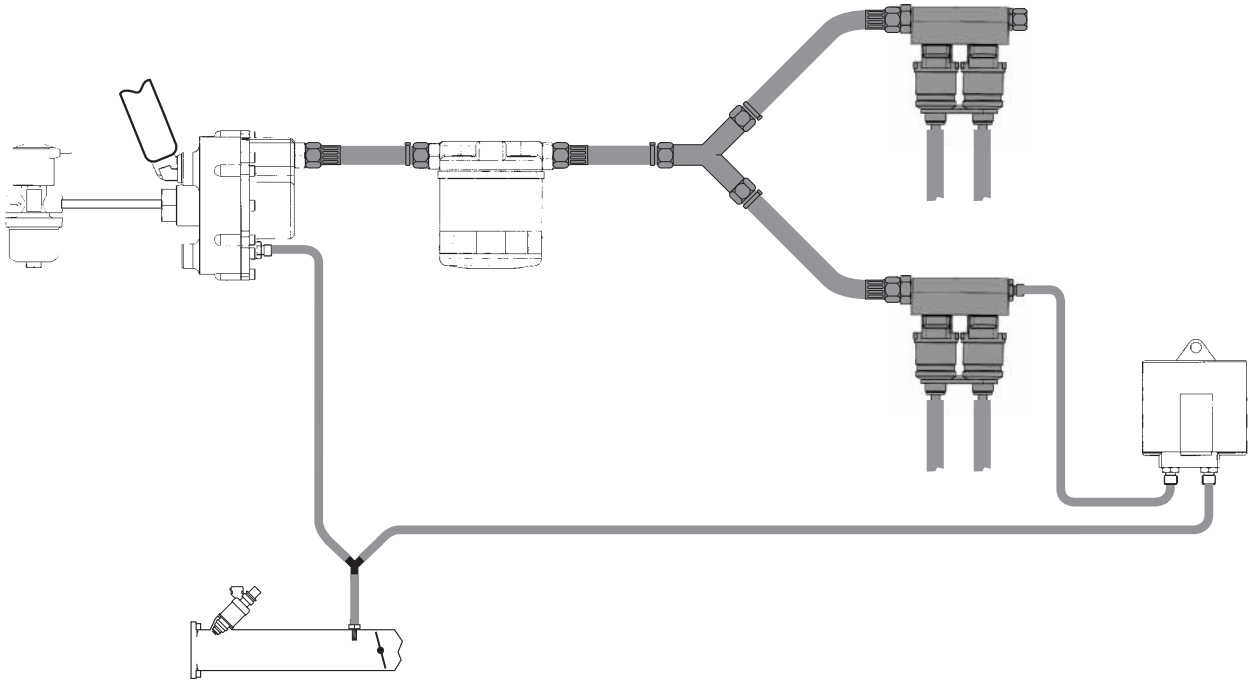


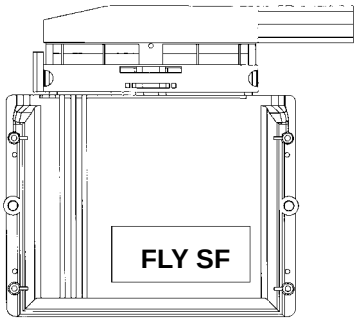


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 4-CYLINDER BOXER

M.D. 4 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
4 Cylinders Boxer Aspirated power lower than 100 kW	09SQ00001002	**09SQ00000003** Genius 1200 mbar Normal Solenoid Valve P1-MAP Sensor	**T.I. 04 LPG**
4 Cylinders Boxer Aspirated power included between 100 kW and 140 kW	09SQ00001002	**09SQ00000006** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 04 LPG**
4 Cylinders Supercharged	09SQ00001002	**09SQ00000005** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 04 LPG**

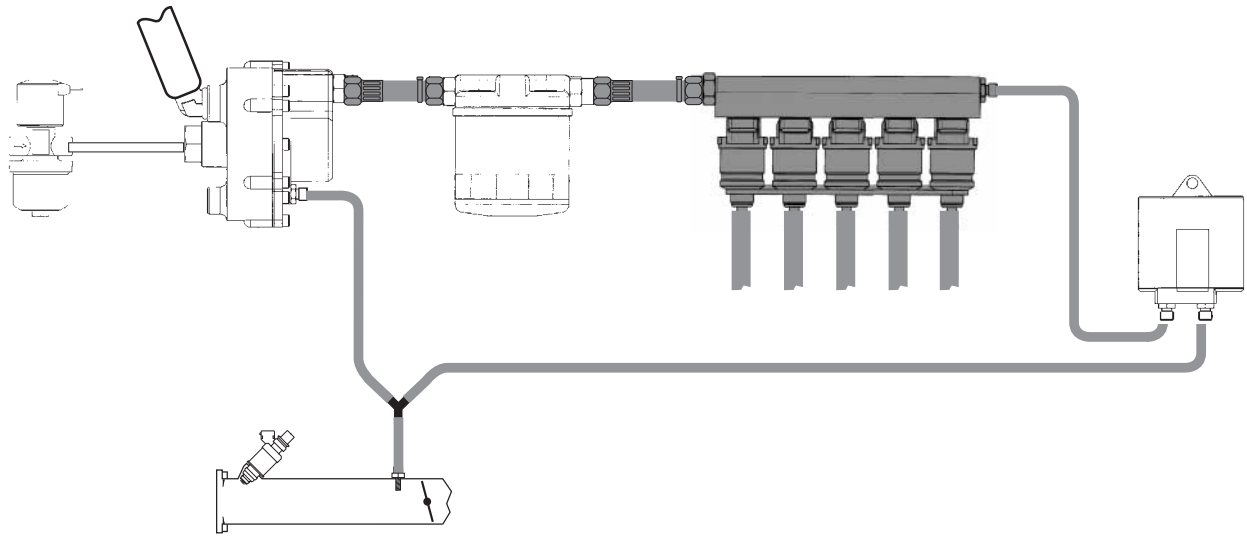


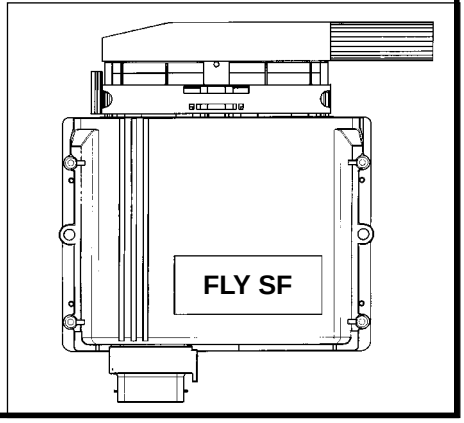


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 5-CYLINDER
WITH POWER LOWER THAN 140 kW

M.D. 5 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
5 Cylinders Aspirated **power lower than 140 kW**	**09SQ00001012**	**09SQ00000008** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 05 LPG**
5 Cylinders Supercharged **power lower than 140 kW**	**09SQ00001012**	**09SQ00000010** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 05 LPG**

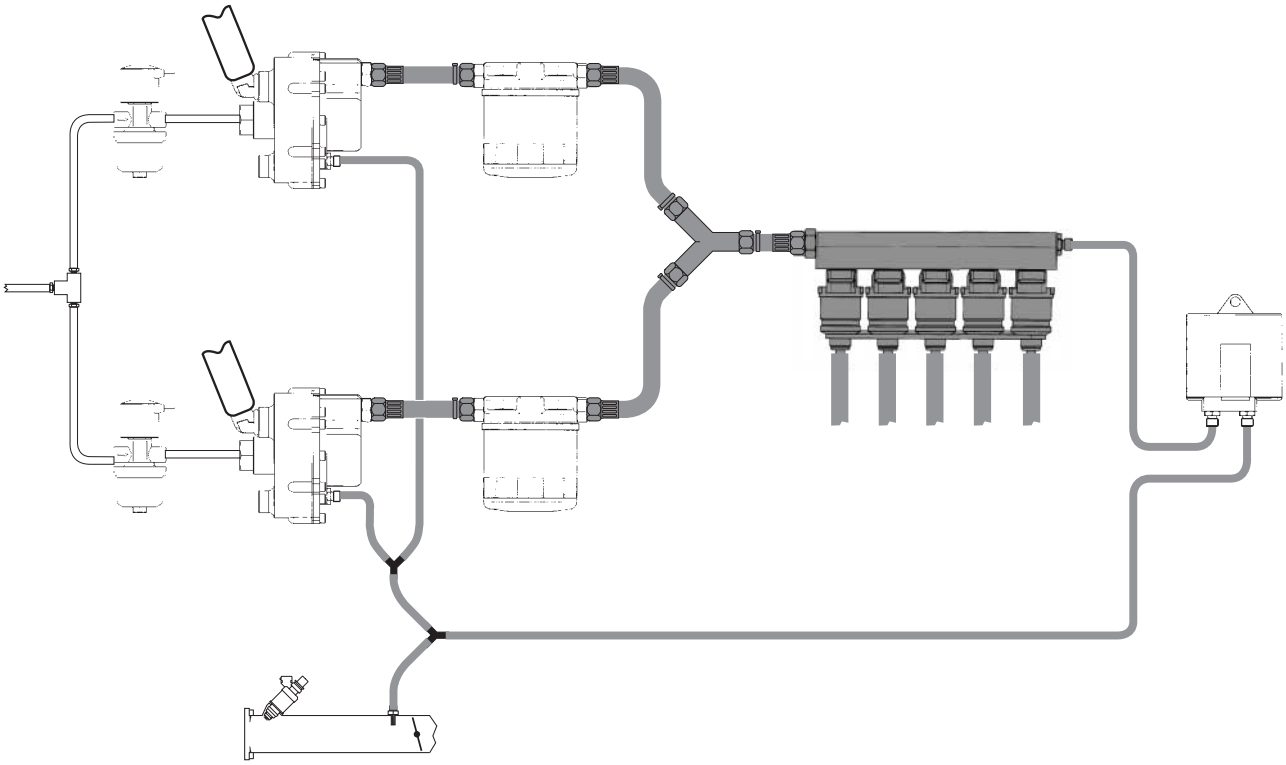


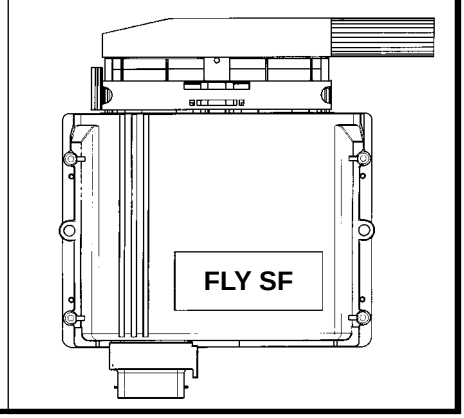


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 5-CYLINDER
WITH POWER HIGHER OR EQUAL TO 140 kW

M.D. 6 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
5 Cylinders Aspirated **power higher or equal to 140 kW**	**09SQ00001012**	**09SQ00000011** n° 2 Genius 1500 mbar n° 2 Normal Solenoid Valve n° 2 P1-MAP Sensor	**T.I. 06 LPG**
5 Cylinders Supercharged **power higher or equal to 140 kW**	**09SQ00001012**	**09SQ00000013** n° 2 Genius 1500 mbar n° 2 Super Solenoid Valve n° 2 P1-MAP Turbo Sensor	**T.I. 06 LPG**



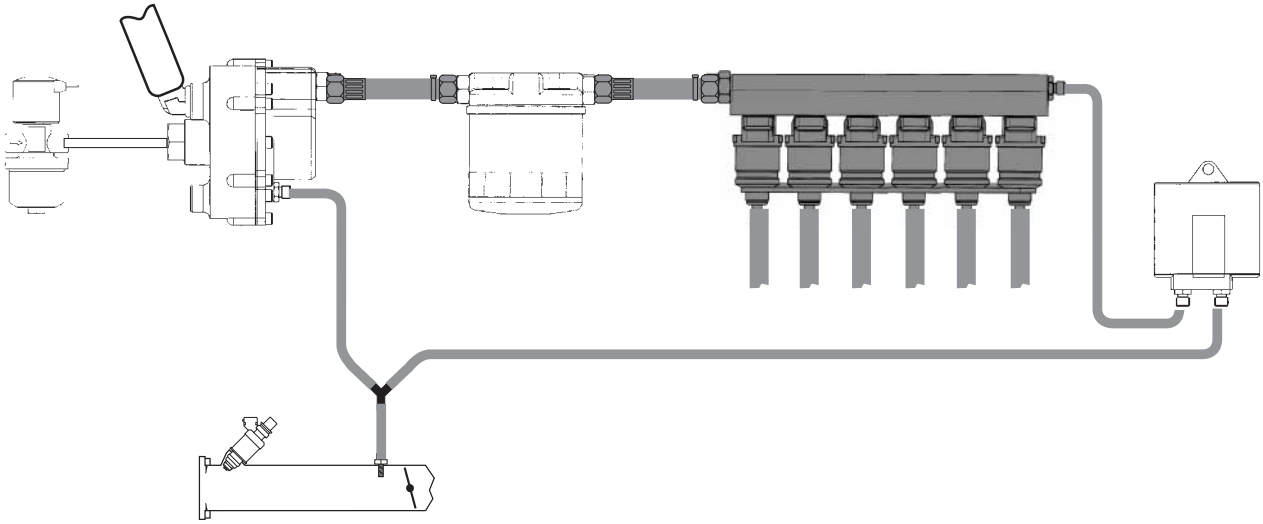


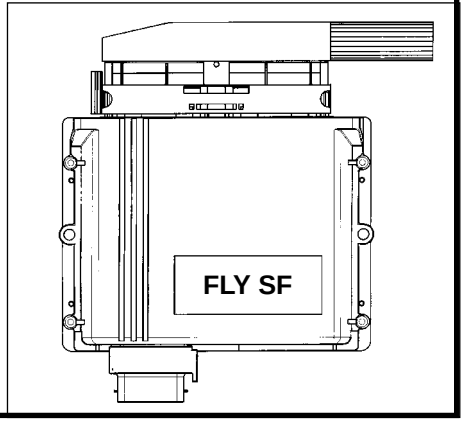
Notes:
- With this typology of mechanical diagram, it is not necessary to use one of the P1-MAP sensors present inside the basic kit code 09SQ00000011 or one of the P1-MAP Turbo sensors present inside the basic kit code 09SQ00000013.

LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 6-CYLINDER WITH POWER LOWER THAN 140 kW

M.D. 7 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
6 Cylinders Aspirated power lower than 140 kW	09SQ00001013	**09SQ00000008** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 07 LPG**
6 Cylinders Supercharged power lower than 140 kW	09SQ00001013	**09SQ00000010** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 07 LPG**

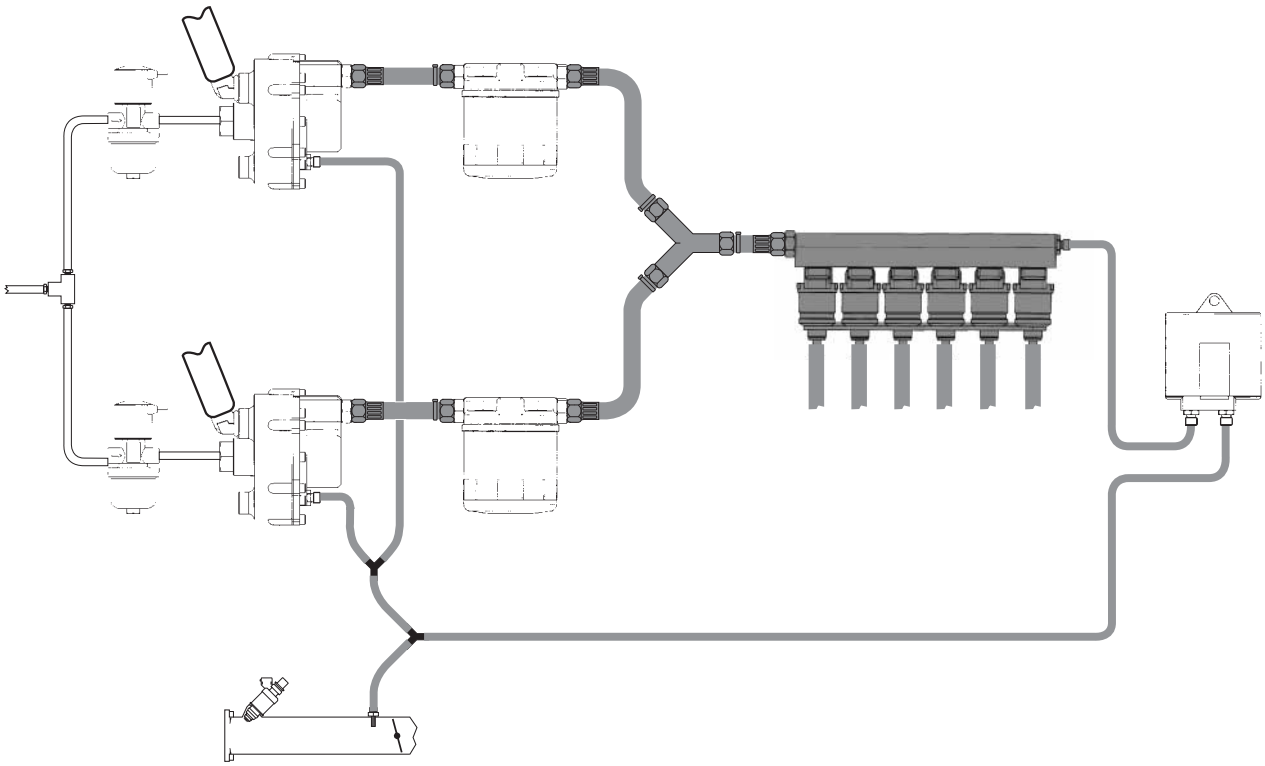


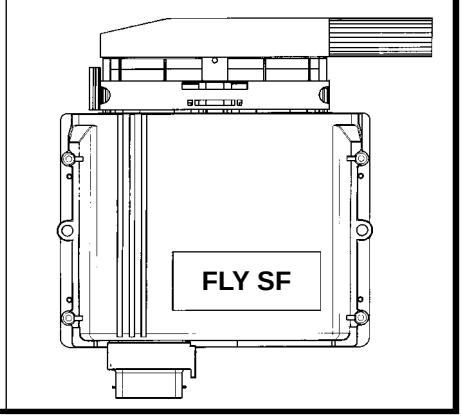


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 6-CYLINDER
WITH POWER HIGHER OR EQUAL TO 140 kW

M.D. 8 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
6 Cylinders Aspirated **power higher or equal to 140 kW**	**09SQ00001013**	**09SQ00000011** n° 2 Genius 1500 mbar n° 2 Normal Solenoid Valve n° 2 P1-MAP Sensor	**T.I. 08 LPG**
6 Cylinders Supercharged **power higher or equal to 140 kW**	**09SQ00001013**	**09SQ00000013** n° 2 Genius 1500 mbar n° 2 Super Solenoid Valve n° 2 P1-MAP Turbo Sensor	**T.I. 08 LPG**



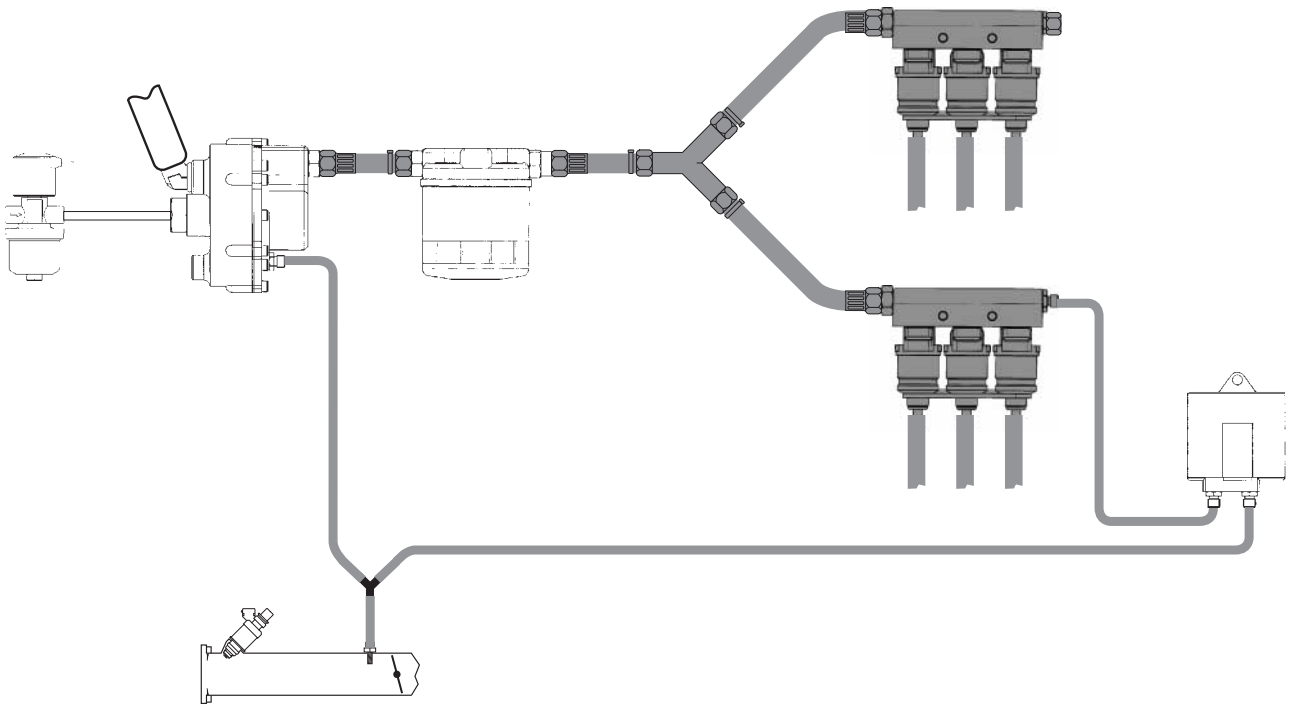


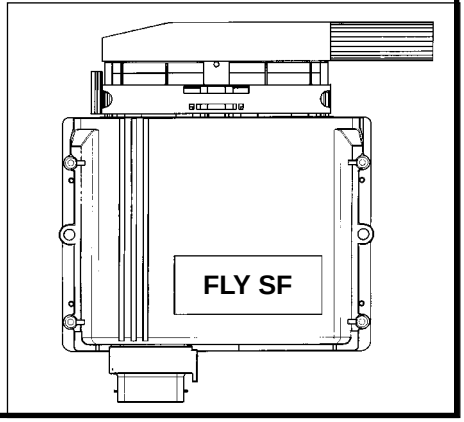
Notes:
- With this typology of mechanical diagram, it is not necessary to use one of the P1-MAP sensors present inside the basic kit code 09SQ00000011 or one of the P1-MAP Turbo sensors present inside the basic kit code 09SQ00000013.

LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 6-CYLINDER "V-shaped" WITH POWER LOWER THAN 140 kW

M.D. 9 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
6 Cylinders "V-shaped" Aspirated power lower than 140 kW	09SQ00001006	**09SQ00000008** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 09 LPG**
6 Cilinders "V-shaped" Supercharged power lower than 140 kW	09SQ00001006	**09SQ00000010** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 09 LPG**

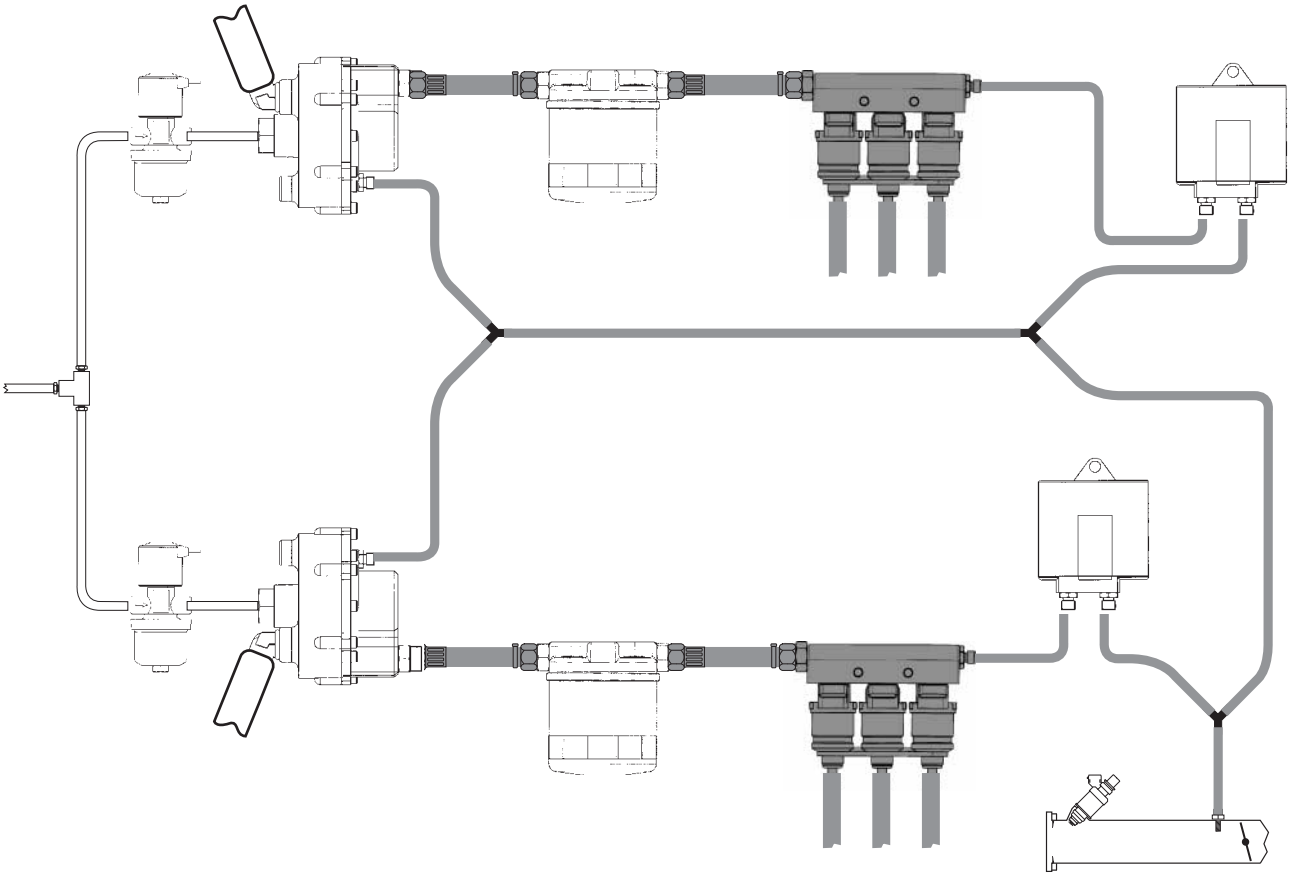


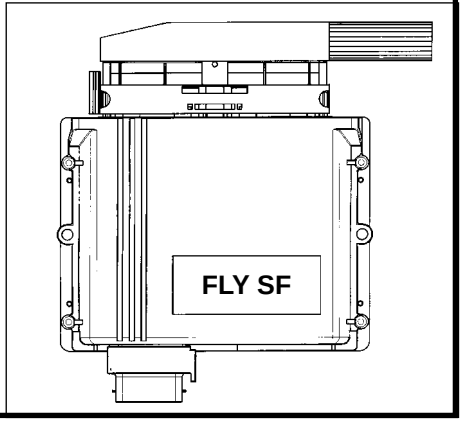


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 6-CYLINDER "V-shaped" WITH POWER HIGHER OR EQUAL TO 140 kW

M.D. 10 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
6 Cylinders "V-shaped" Aspirated power higher or equal to 140 kW	09SQ00001006	**09SQ00000011** n° 2 Genius 1500 mbar n° 2 Normal Solenoid Valve n° 2 P1-MAP Sensor	**T.I. 10 LPG**
6 Cylinders "V-shaped" Supercharged power higher or equal to 140 kW	09SQ00001006	**09SQ00000013** n° 2 Genius 1500 mbar n° 2 Super Solenoid Valve n° 2 P1-MAP Turbo Sensor	**T.I. 10 LPG**

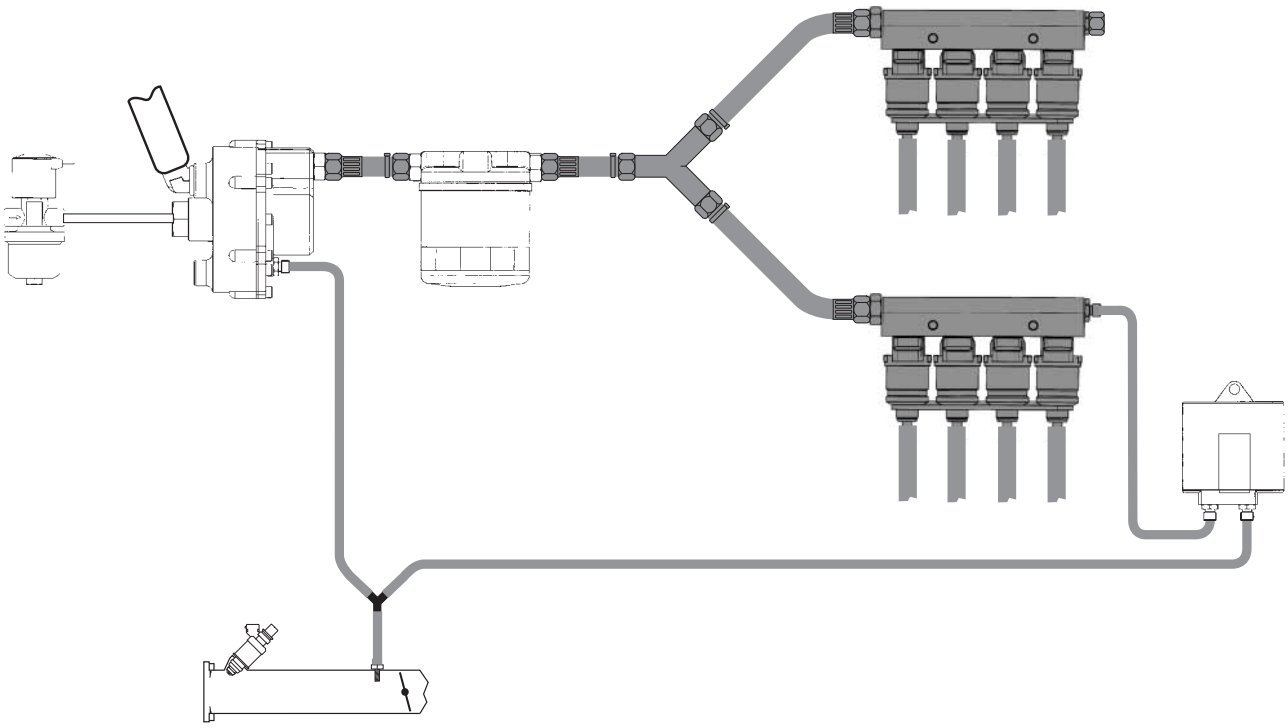


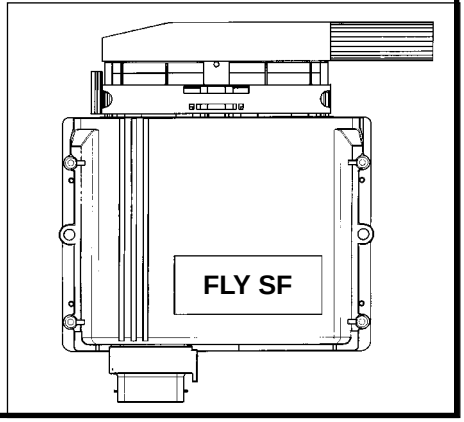


LPG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 8-CYLINDER "V-shaped" WITH POWER LOWER THAN 140 kW

M.D. 11 LPG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
8 Cylinders "V-shaped" Aspirated power lower than 140 kW	09SQ00001010	**09SQ000000016** Genius 1500 mbar Super Solenoid Valve P1-MAP Sensor	**T.I. 11 LPG**
8 Cylinders "V-shaped" Supercharged power lower than 140 kW	09SQ00001010	**09SQ00000017** Genius 1500 mbar Super Solenoid Valve P1-MAP Turbo Sensor	**T.I. 11 LPG**

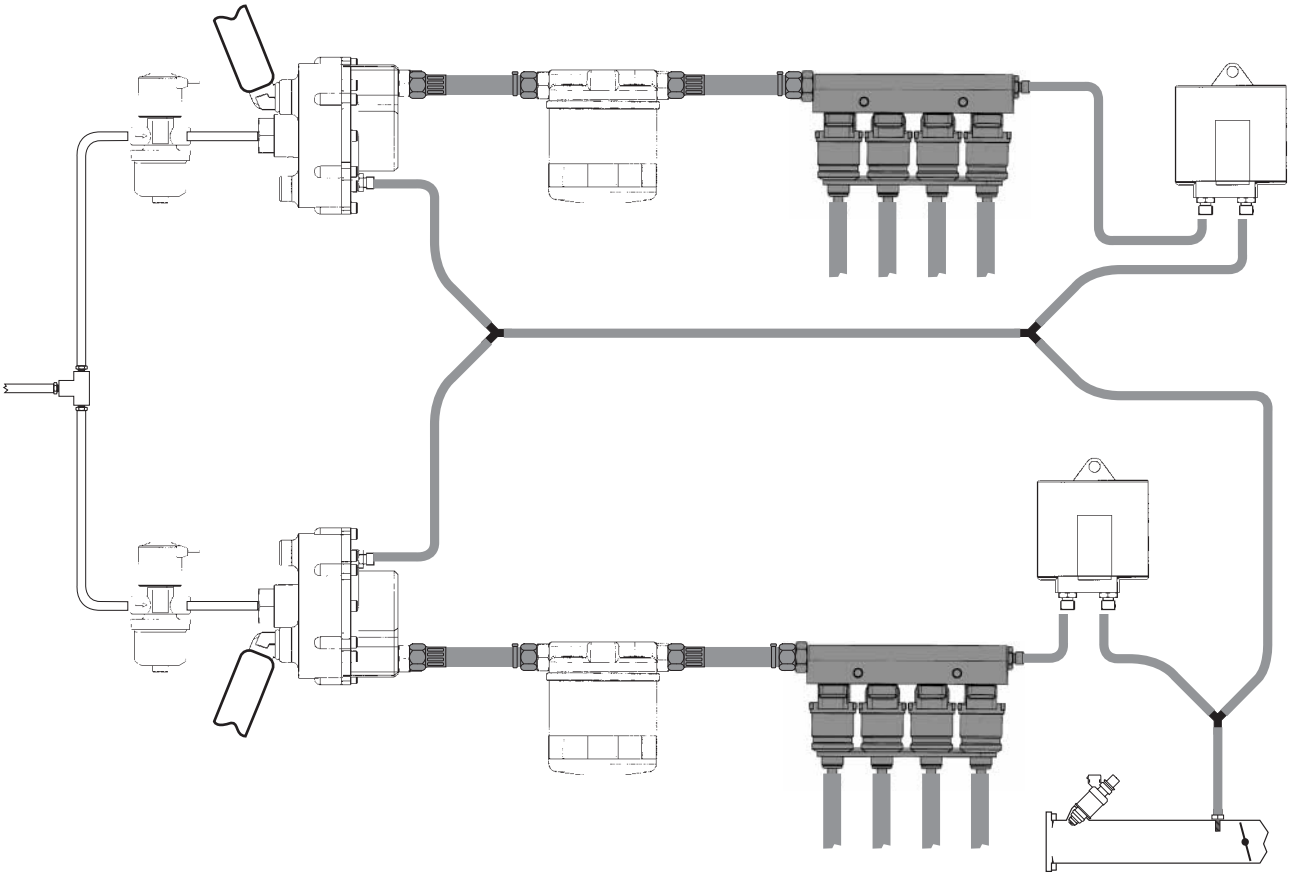


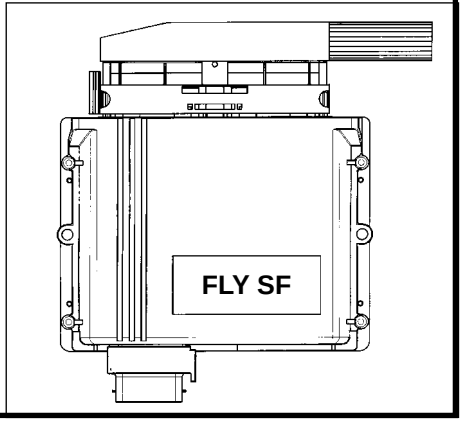


LPG SEQUENT WIRING DIAGRAM
ON VEHICLES WITH 8-CYLINDER "V-shaped" WITH POWER HIGHER OR EQUAL TO 140 kW

M.D. 12 LPG

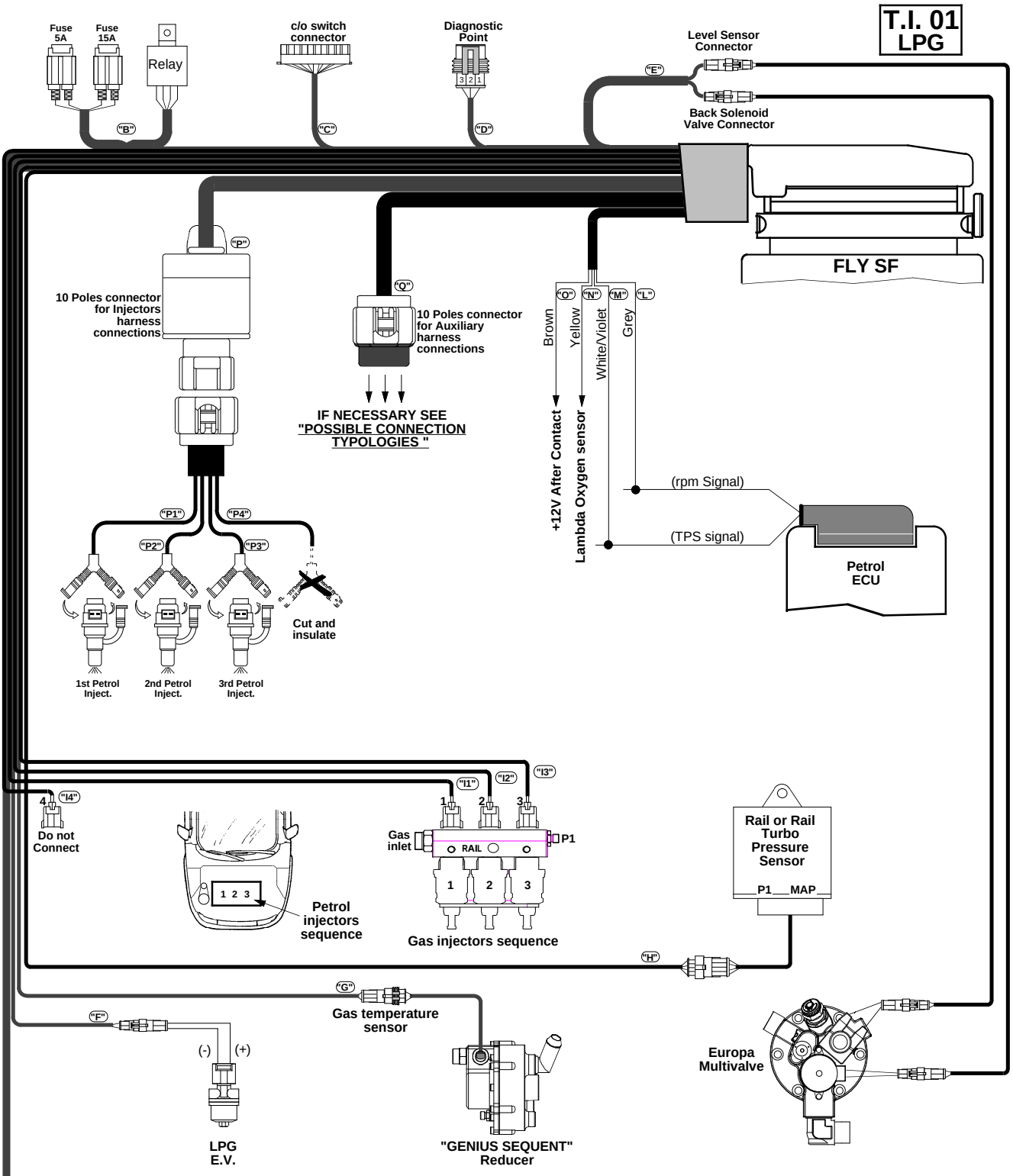
Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
8 Cylinders "V-shaped" Aspirated power higher or equal to 140 kW	09SQ00001010	**09SQ00000018** n° 2 Genius 1500 mbar n° 2 Normal Solenoid Valve n° 2 P1-MAP Sensor	**T.I. 12 LPG**
8 Cylinders "V-shaped" Supercharged power higher or equal to 140 kW	09SQ00001010	**09SQ00000019** n° 2 Genius 1500 mbar n° 2 Super Solenoid Valve n° 2 P1-MAP Turbo Sensor	**T.I. 12 LPG**





LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 3-CYLINDER



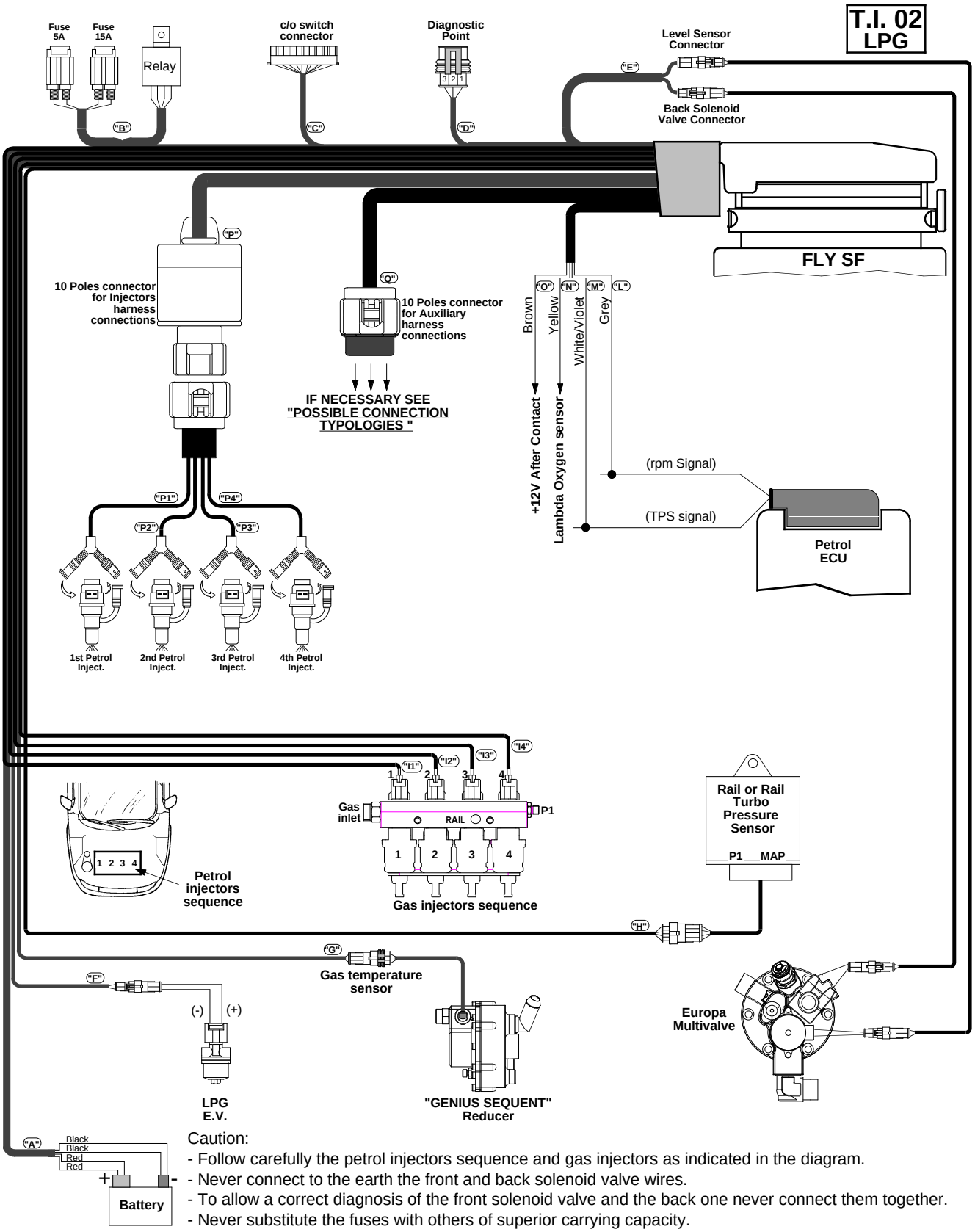
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 4-CYLINDER



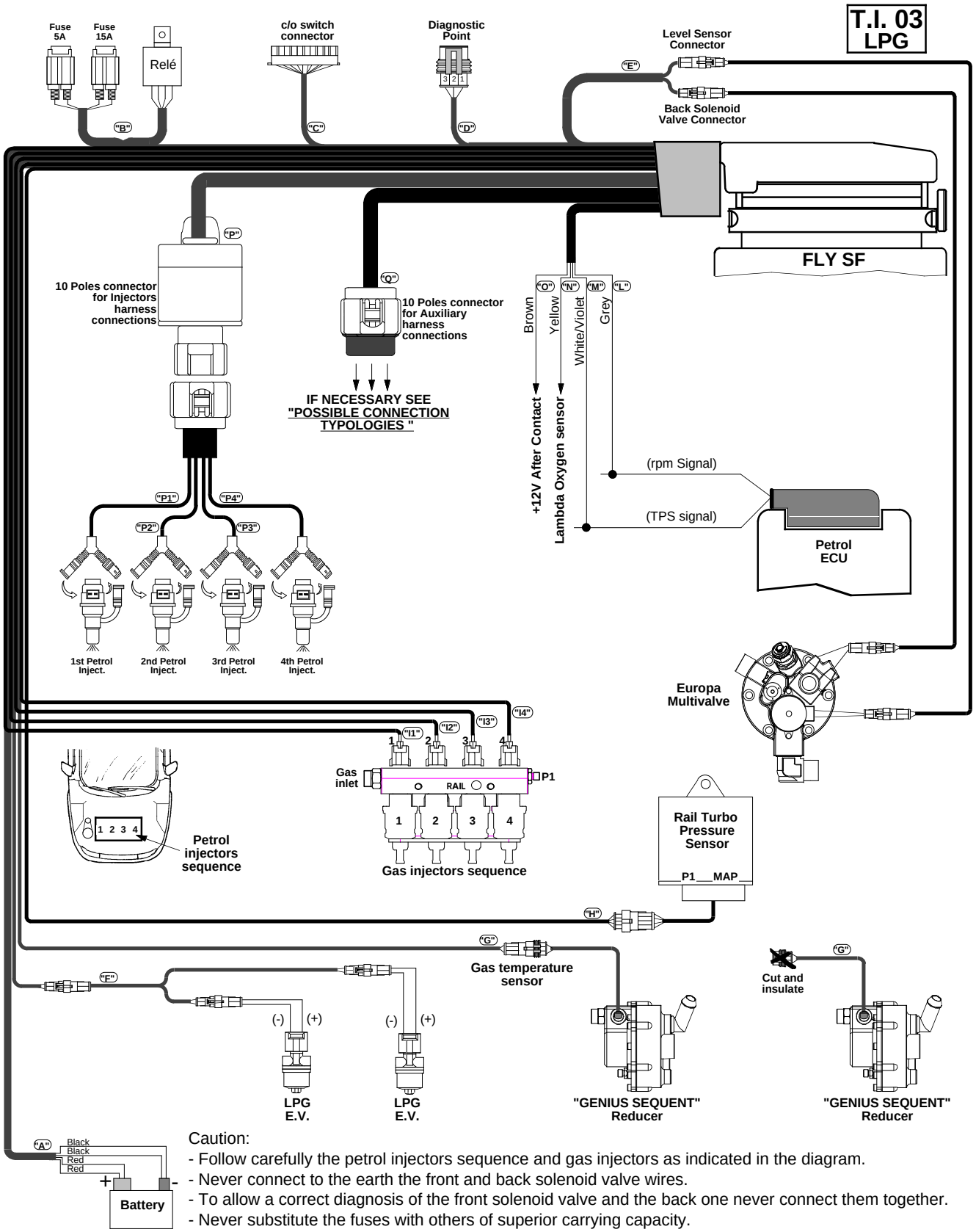
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH SUPERCHARGED ENGINE 4-CYLINDER WITH POWER HIGHER OR EQUAL TO 140 kW



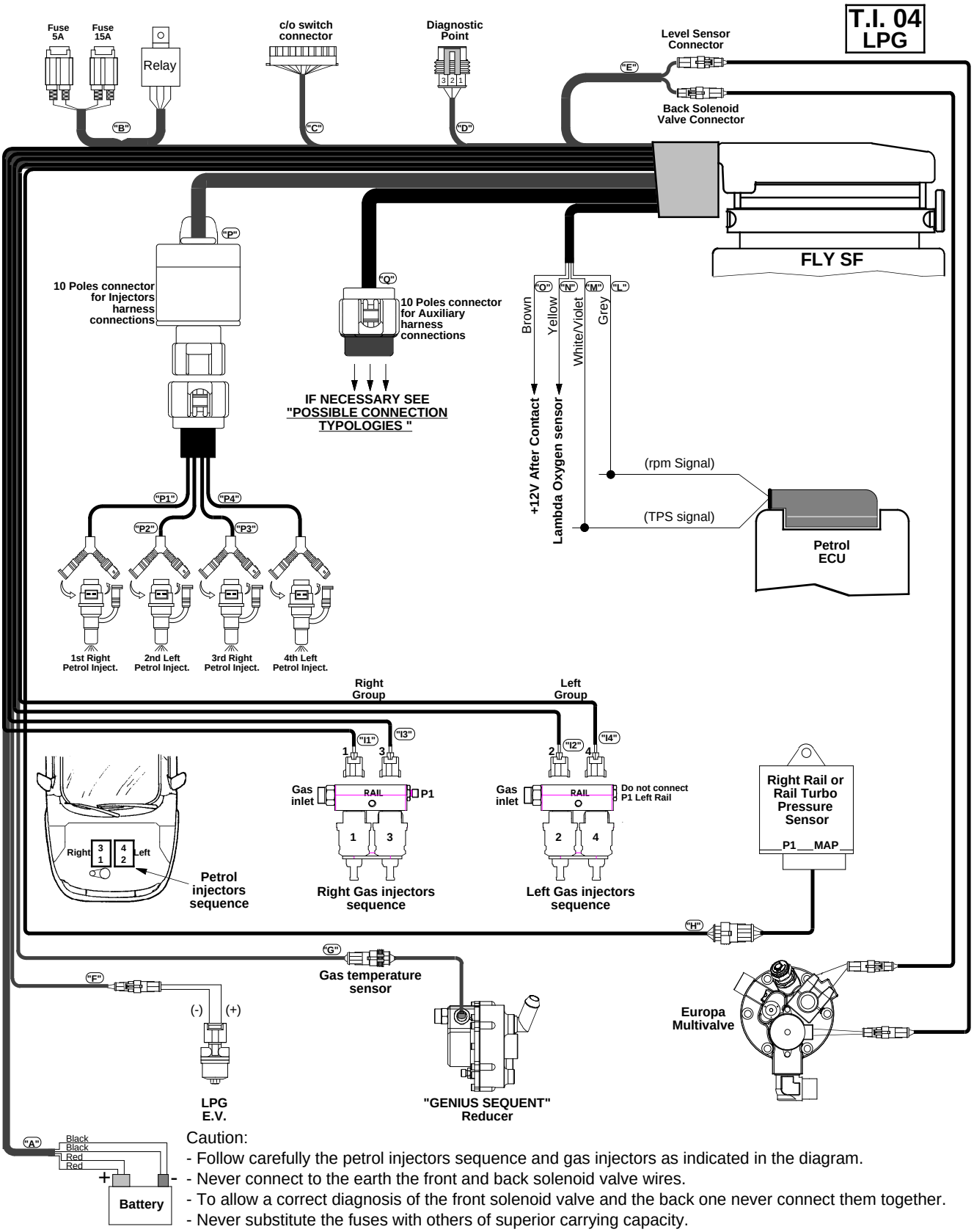
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED BOXER ENGINE 4-CYLINDER



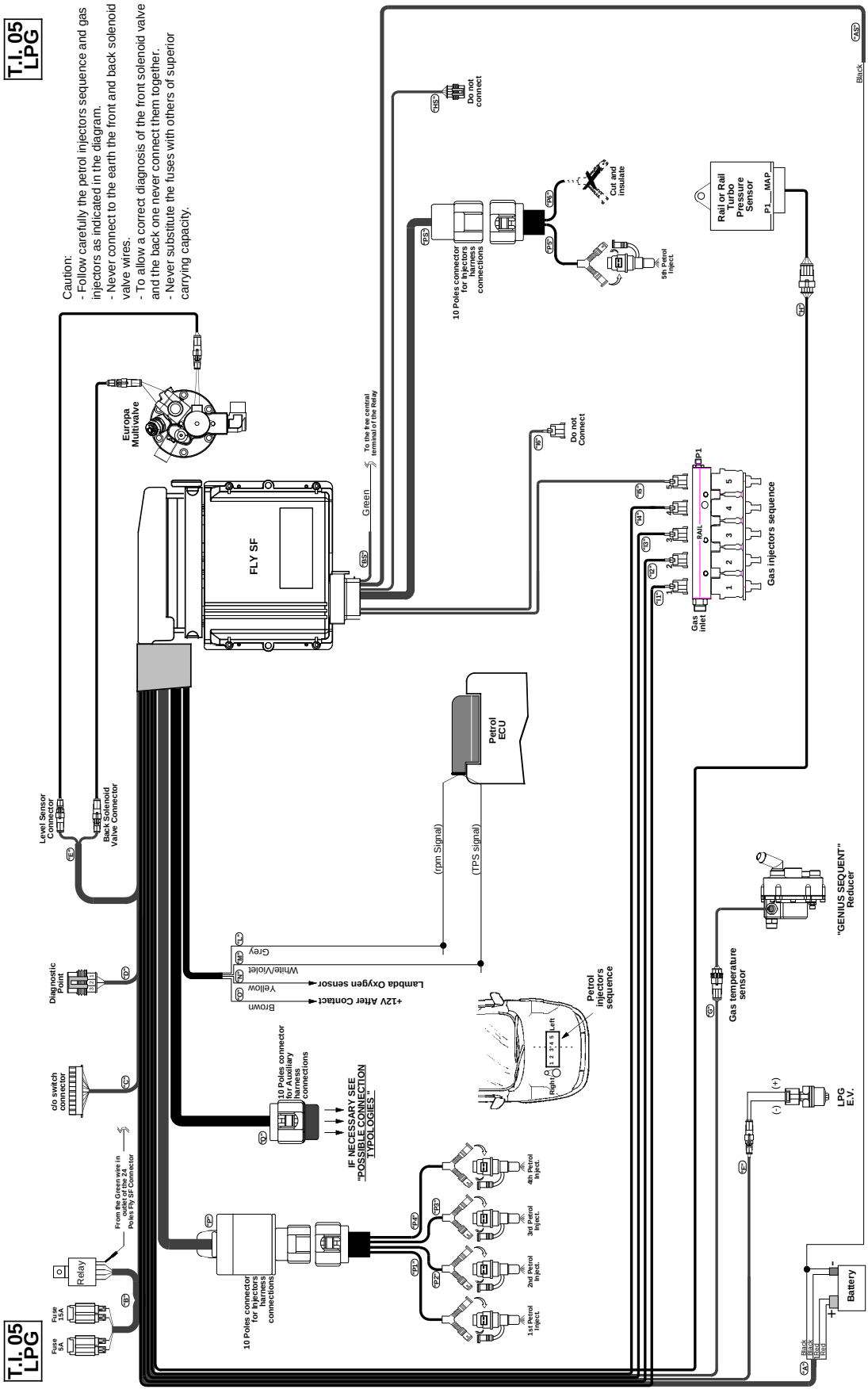
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

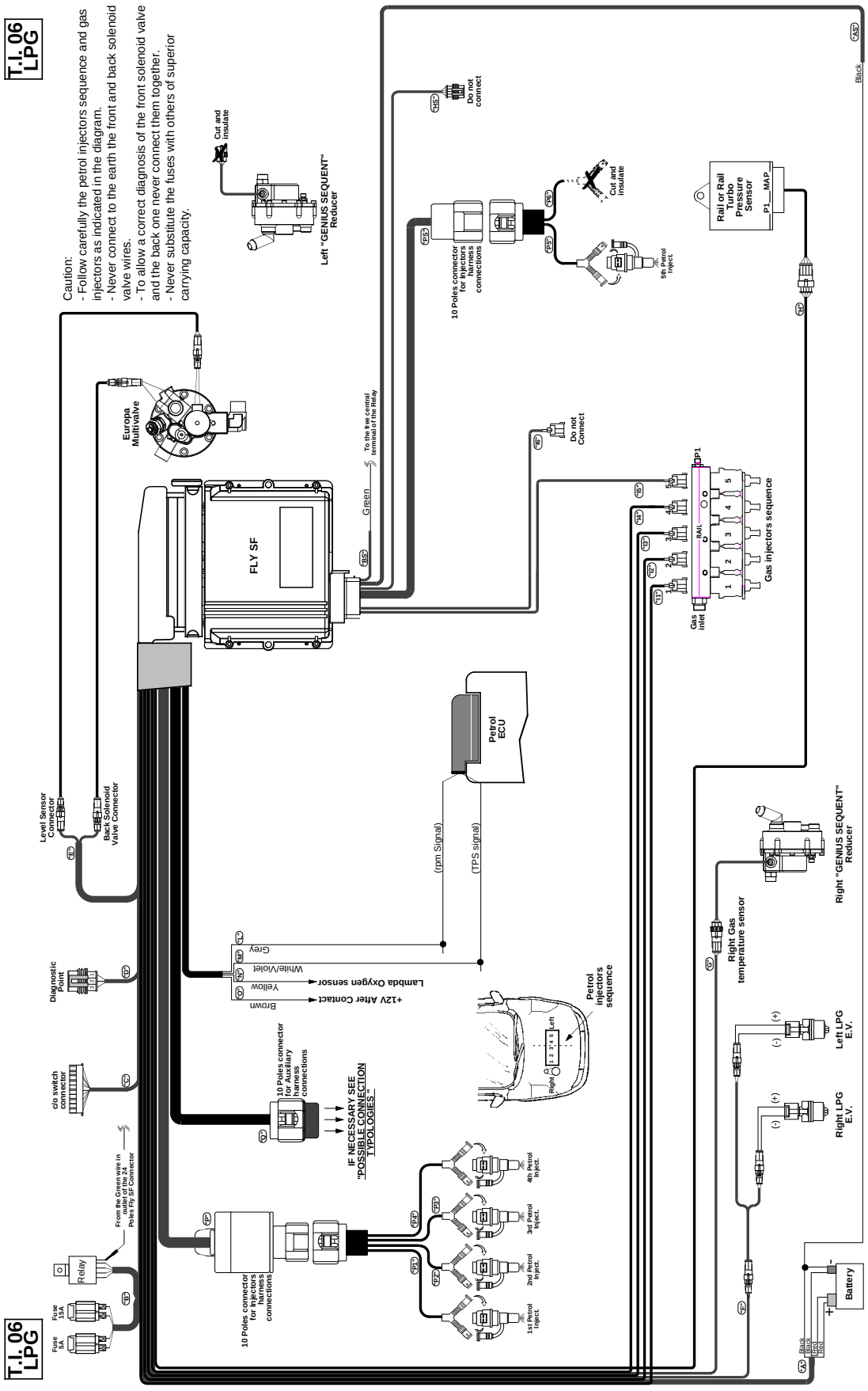
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 5-CYLINDER WITH POWER LOWER THAN 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

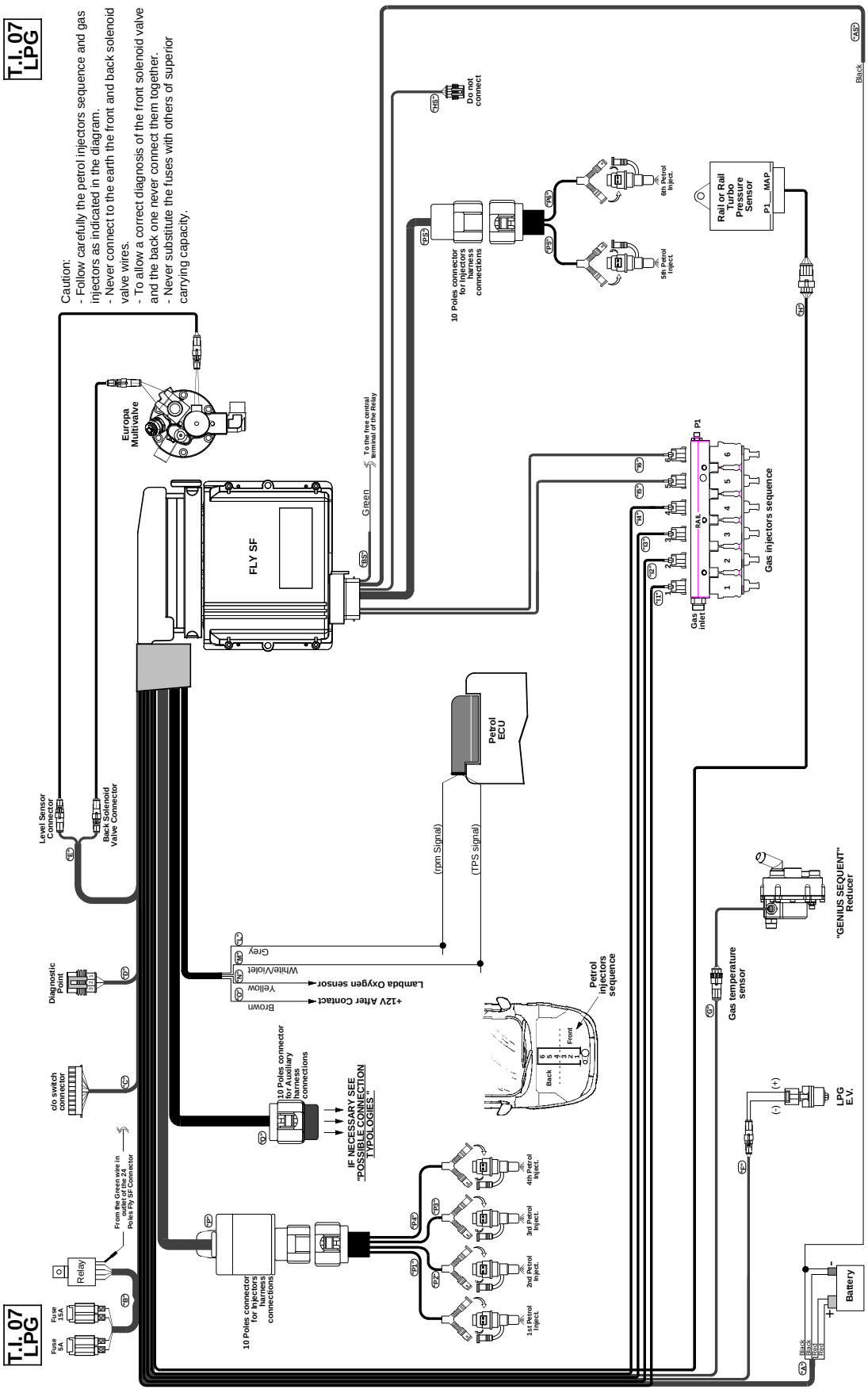
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 5-CYLINDER WITH POWER HIGHER OR EQUAL TO 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

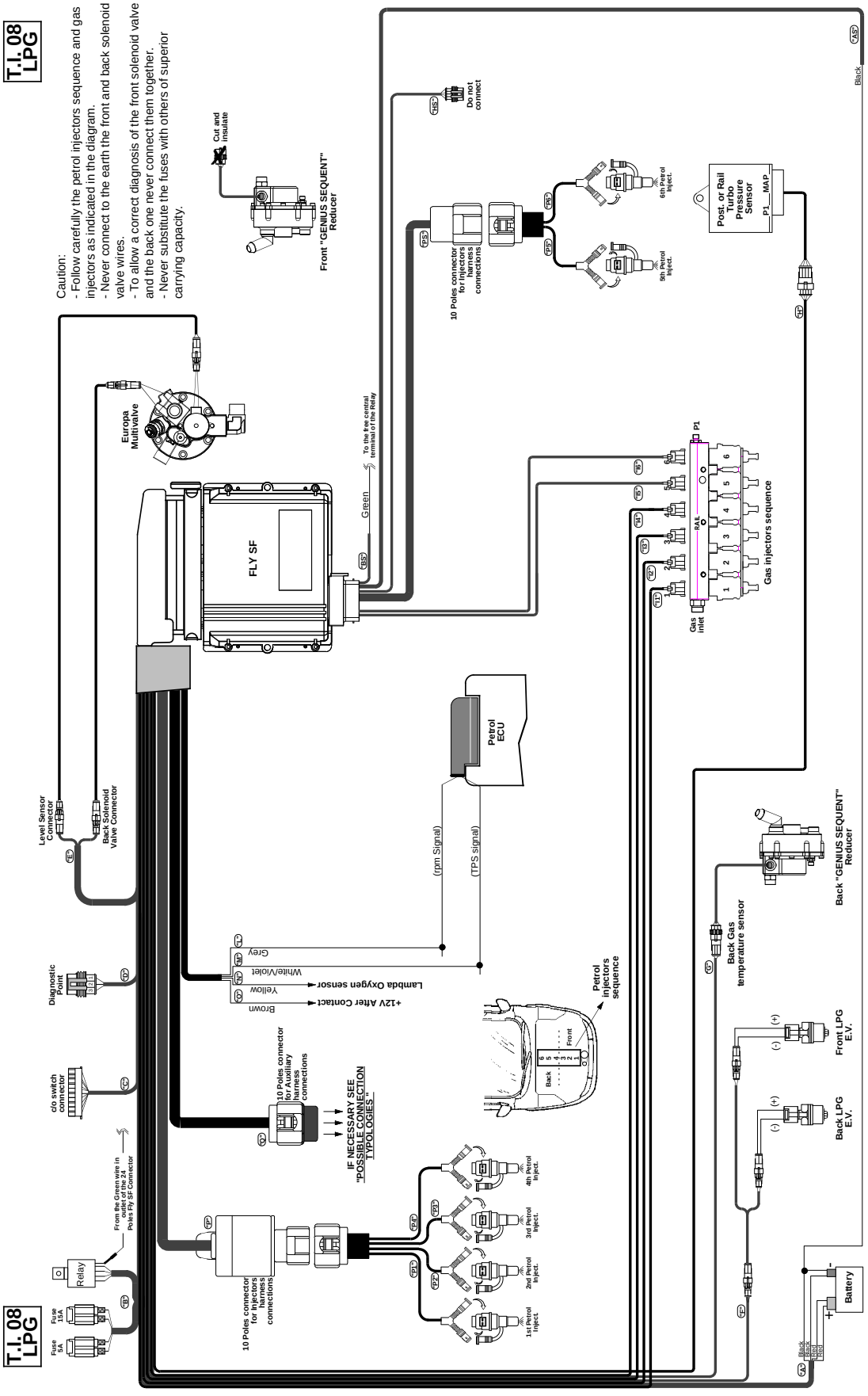
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE
6 STRAIGHT CYLINDER BANK WITH POWER LOWER THAN 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

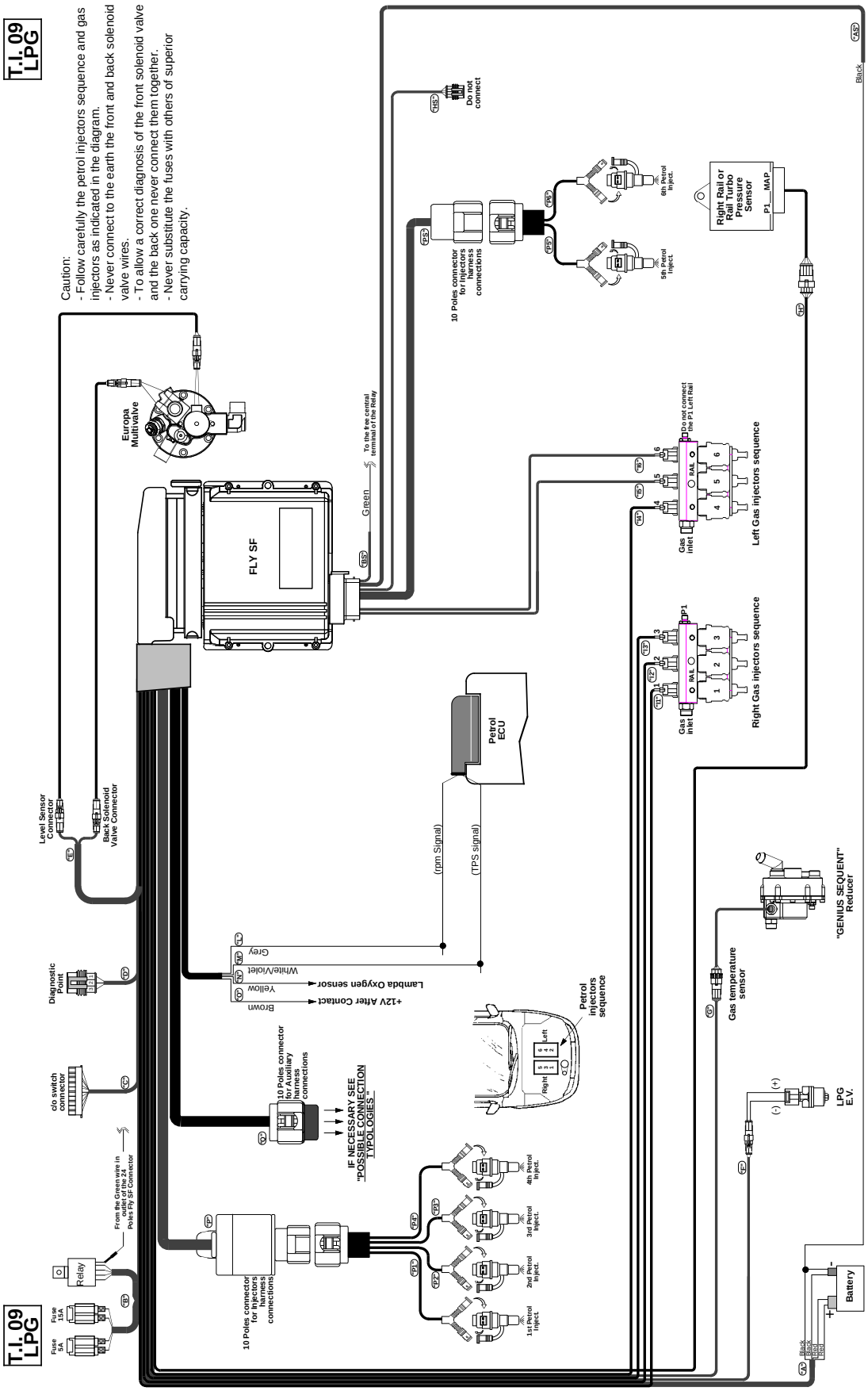
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 6 STRAIGHT CYLINDER BANK WITH POWER HIGHER OR EQUAL TO 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

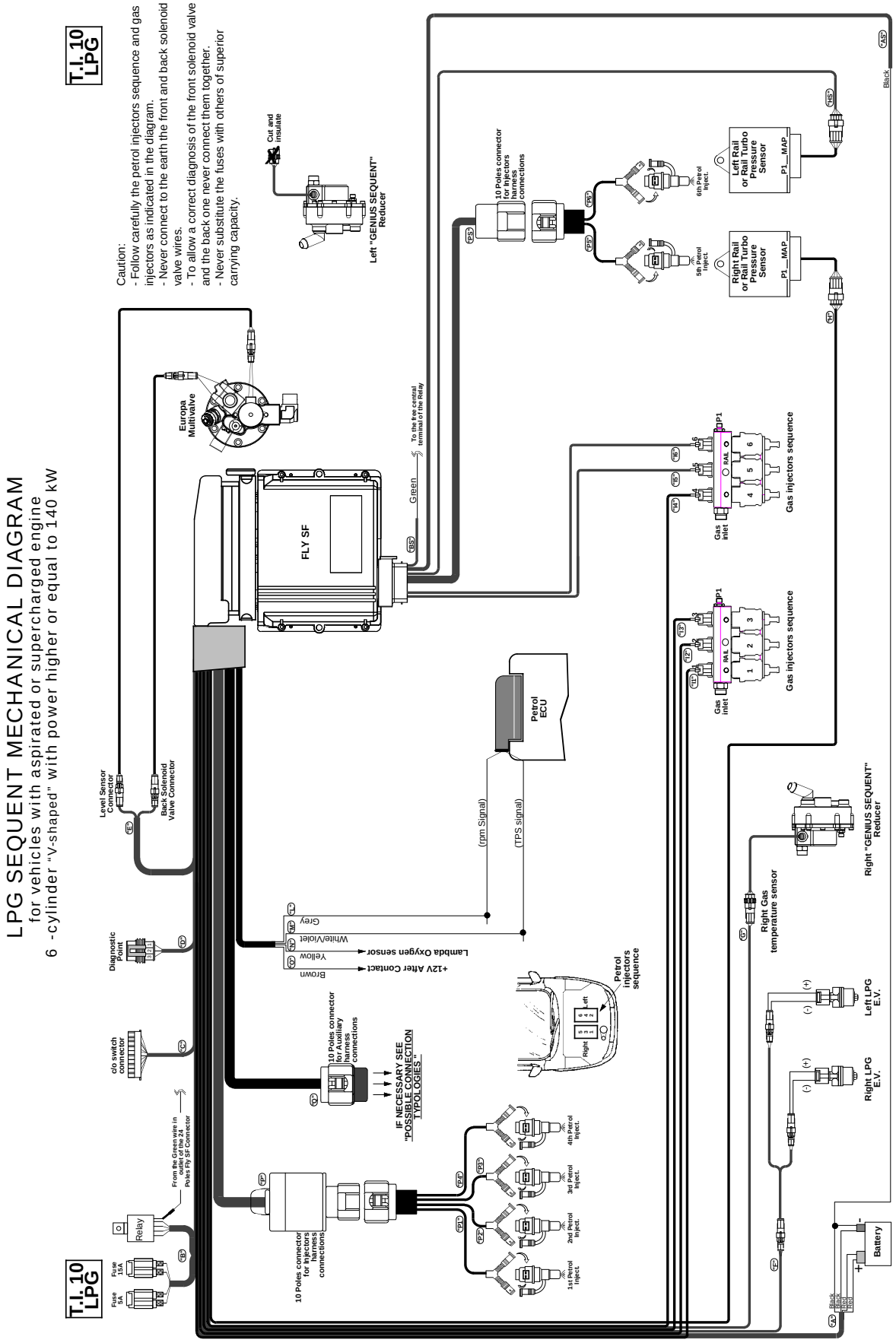
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 6-CYLINDER "V-SHAPED" WITH POWER LOWER THAN 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 6-CYLINDER "V-SHAPED" WITH POWER HIGHER OR EQUAL TO 140 kW

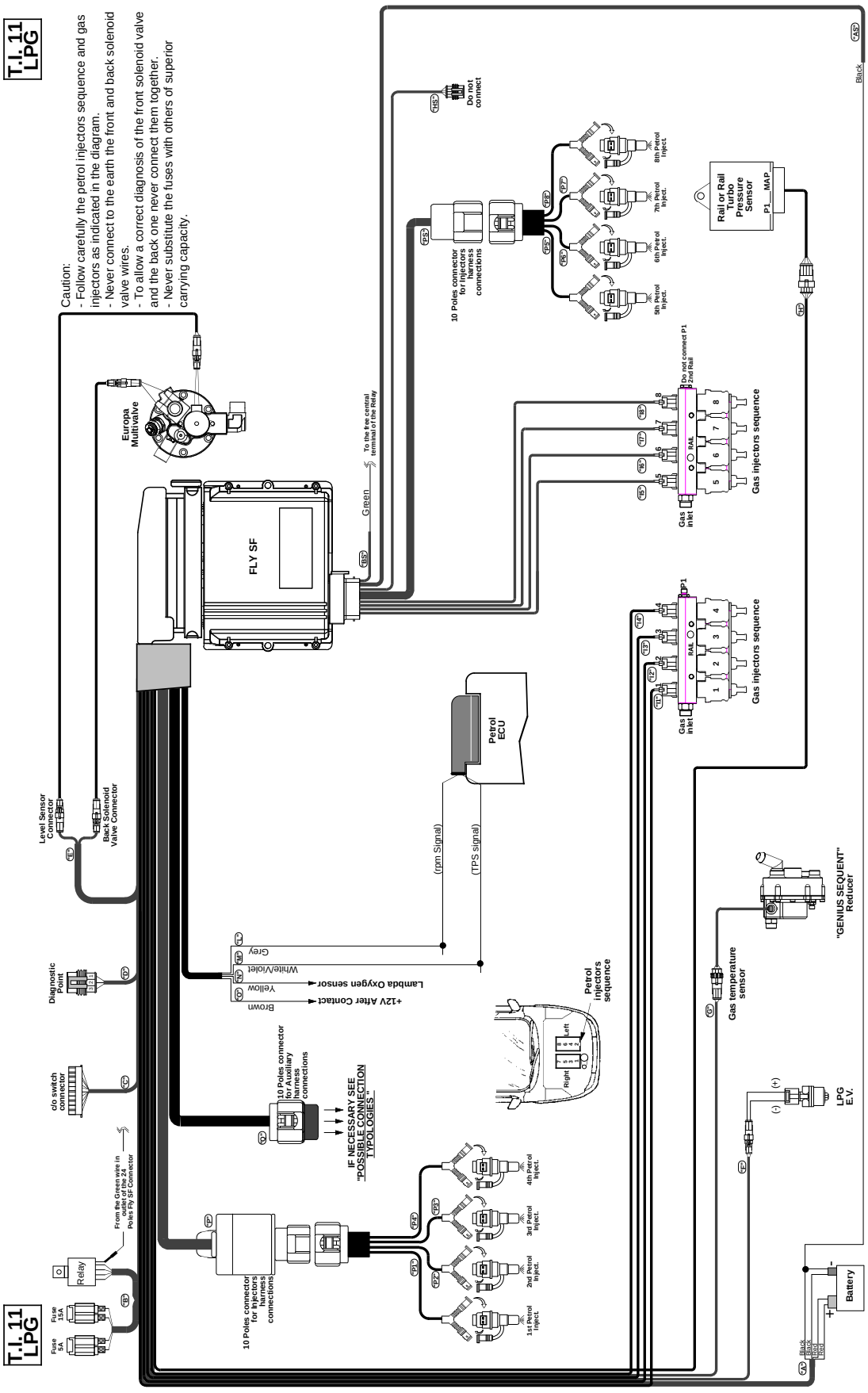


LPG SEQUENT MECHANICAL DIAGRAM
for vehicles with aspirated or supercharged engine
6 -cylinder "V-shaped" with power higher or equal to 140 kW

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

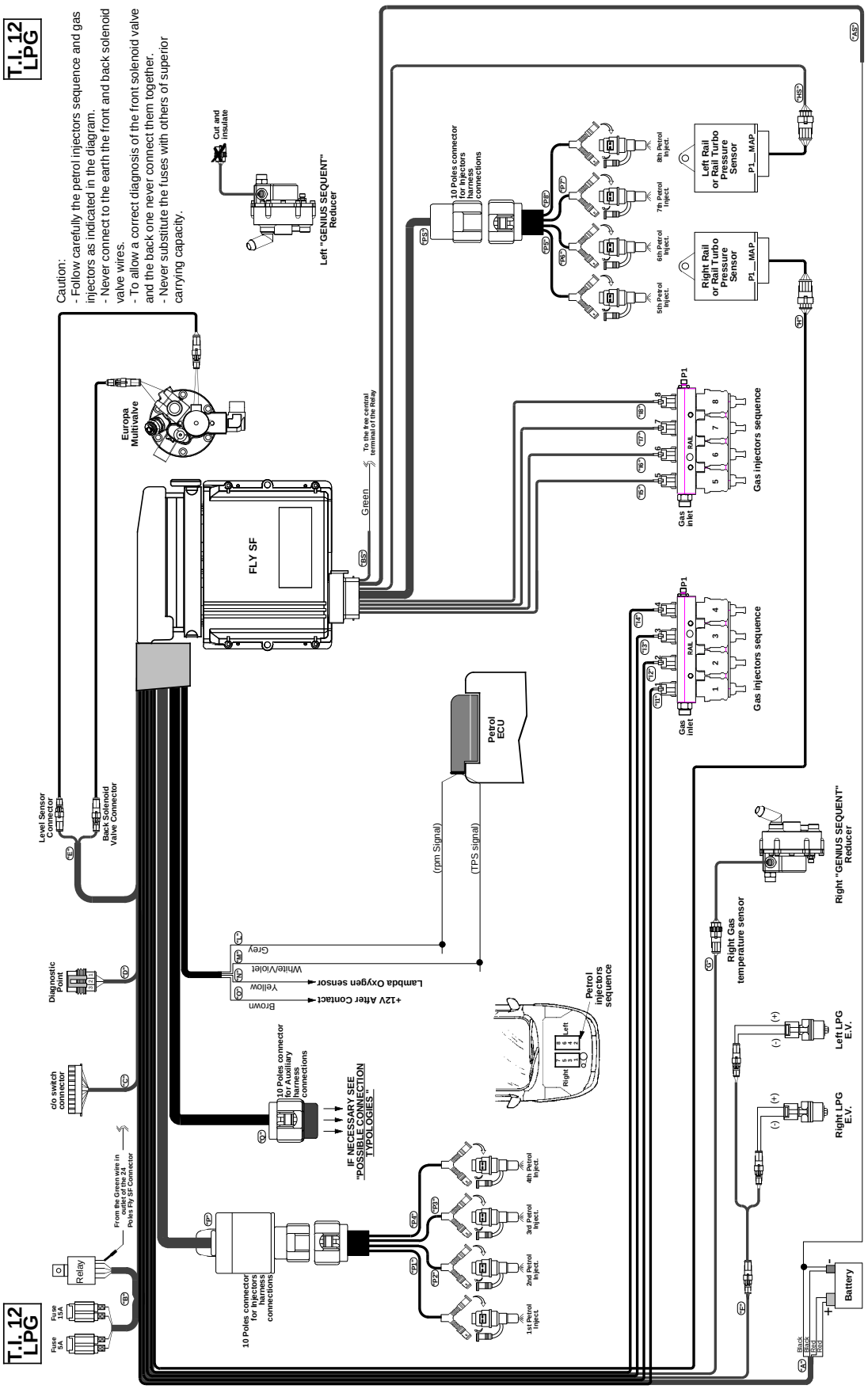
FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 8-CYLINDER "V-SHAPED" WITH POWER LOWER THAN 140 kW



CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

LPG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 8-CYLINDER “V-SHAPED” WITH POWER HIGHER OR EQUAL TO 140 kW

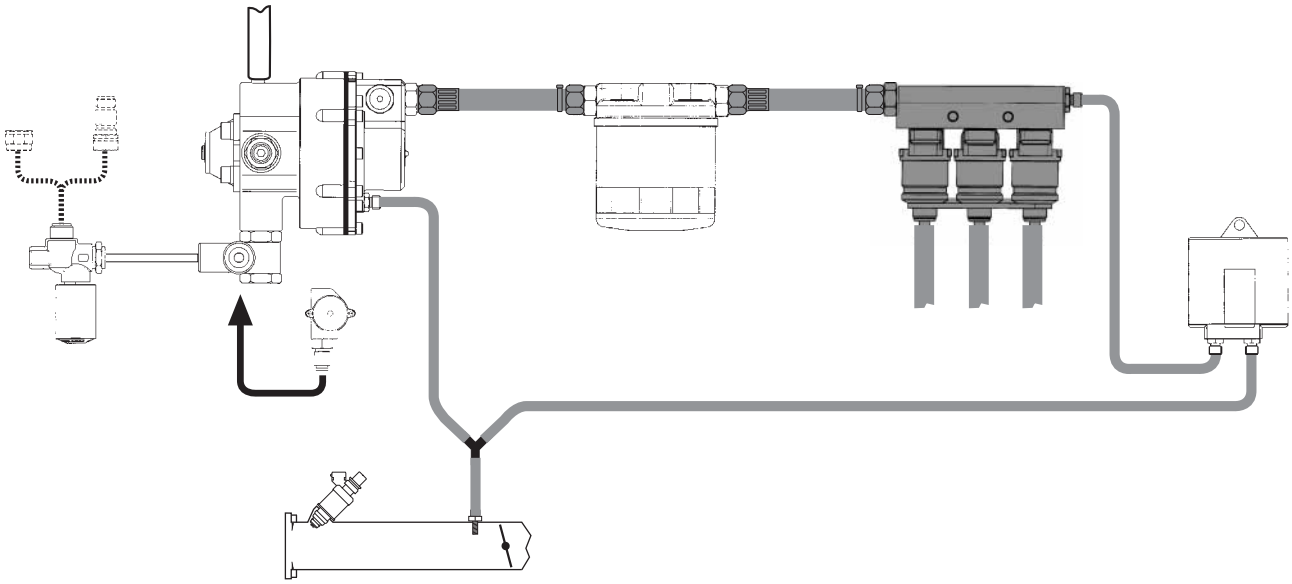


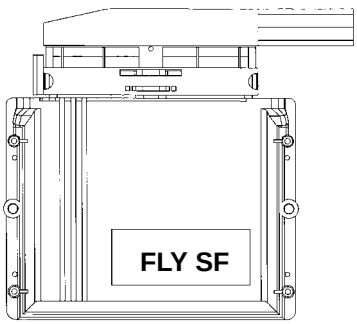
CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

CNG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 3-CYLINDER

M.D. 1 CNG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
3 Cylinders Aspirated or Supercharged	**09SQ00001003**	**09SM00000004 or 09SM00000054 or** Genius.M 2500 mbar "VM A3-E" CNG Valve P1-MAP 2,5-4 bar Sensor	**T.I. 01 CNG**



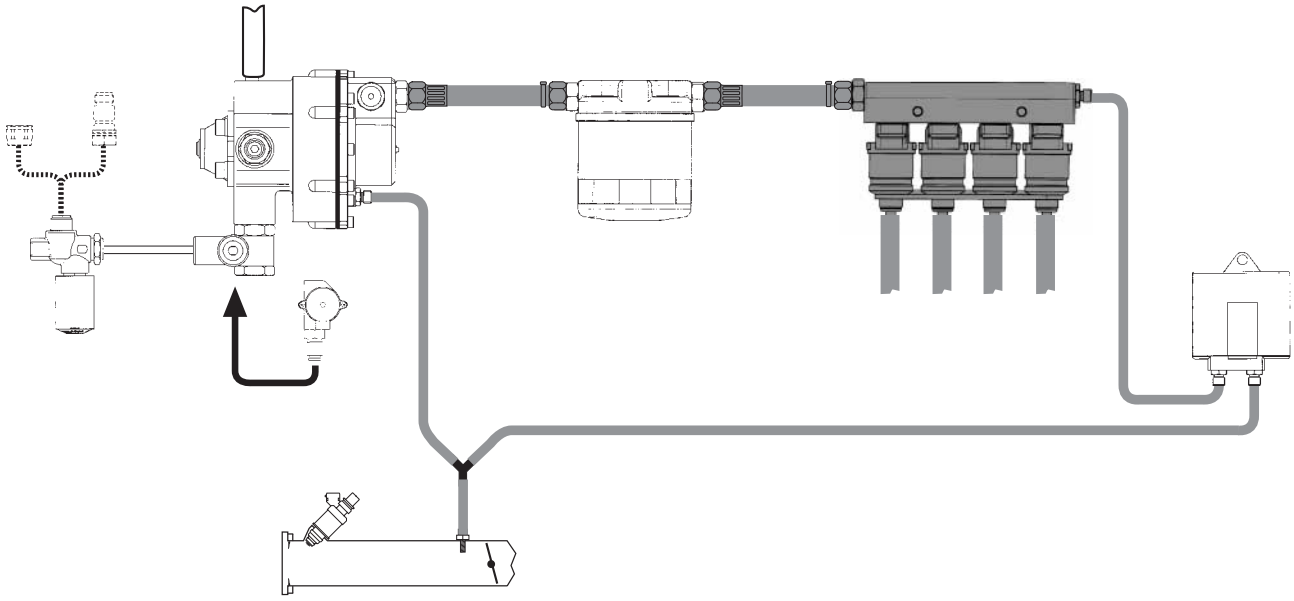


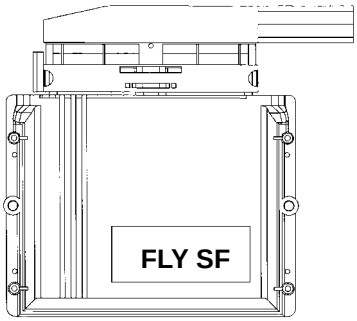
Notes:
- The kit **09SM00000004** contains the ø 6x4 covered copper pipe.
- The kit **09SM00000054** contains the ø 6x4 covered steel pipe.
- The CNG refuelling point or the shutter (code PR904803) indicated in the figure by a dashed line are sold separately.

CNG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 4-CYLINDER

M.D. 2 CNG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
4 Cylinders Aspirated **power lower or equal to 60 kW**	**09SQ00001007**	**09SM00000004 or 09SM00000054 or** Genius.M 2500 mbar "VM A3-E" CNG Valve P1-MAP 2,5-4 bar Sensor	**T.I. 02 CNG**
4 Cylinders Aspirated or Supercharged **power included between 60 kW and 90 kW**	**09SQ00001008**	**09SM00000004 or 09SM00000054 or** Genius.M 2500 mbar "VM A3-E" CNG Valve P1-MAP 2,5-4 bar Sensor	**T.I. 02 CNG**



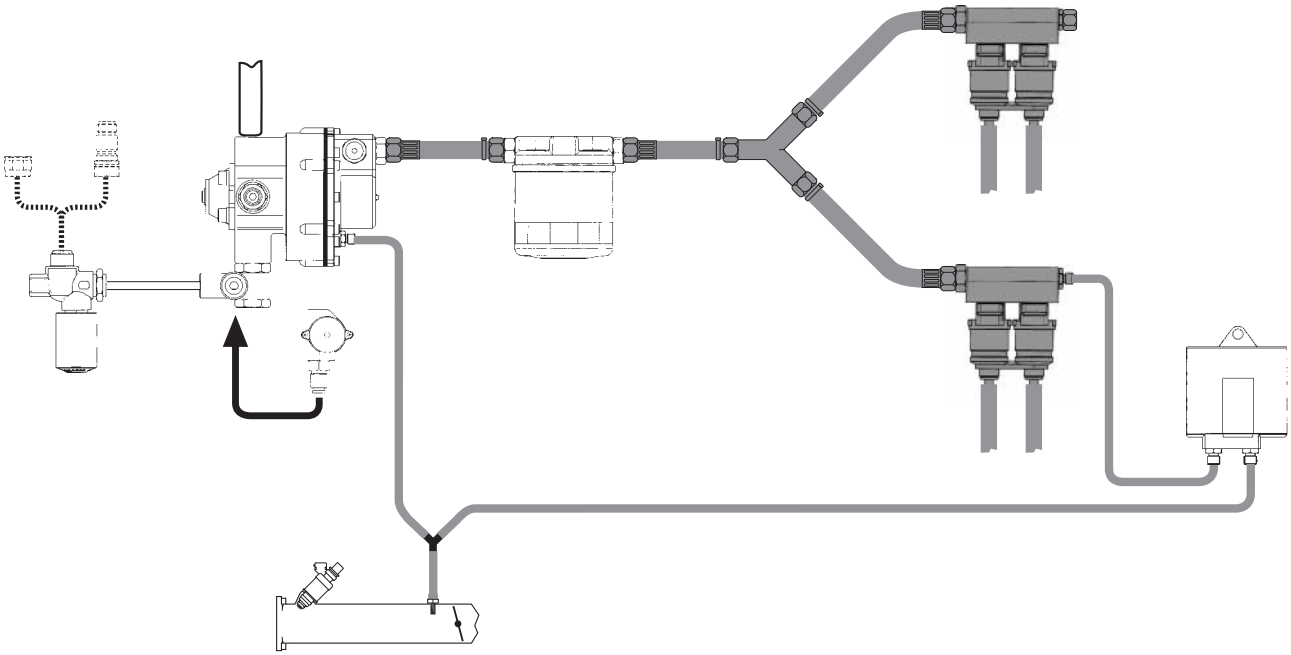


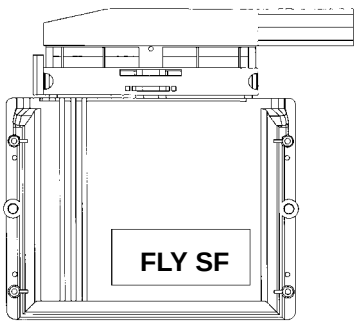
Notes:
- The kit **09SM00000004** contains the ø 6x4 covered copper pipe.
- The kit **09SM00000054** contains the ø 6x4 covered steel pipe.
- The CNG refuelling point or the shutter (code PR904803) indicated in the figure by a dashed line are sold separately.

CNG SEQUENT MECHANICAL DIAGRAM
ON VEHICLES WITH 3-CYLINDER

M.D. 3 CNG

Vehicle Type	Standard Kit	Basic Kit	Electrical Diagram
4 Cylinders Aspirated or Supercharged **power lower or equal to 90 kW**	**09SQ00001002**	**09SM00000004 or 09SM00000054 or** Genius.M 2500 mbar "VM A3-E" CNG Valve P1-MAP 2,5-4 bar Sensor	**T.I. 03 CNG**

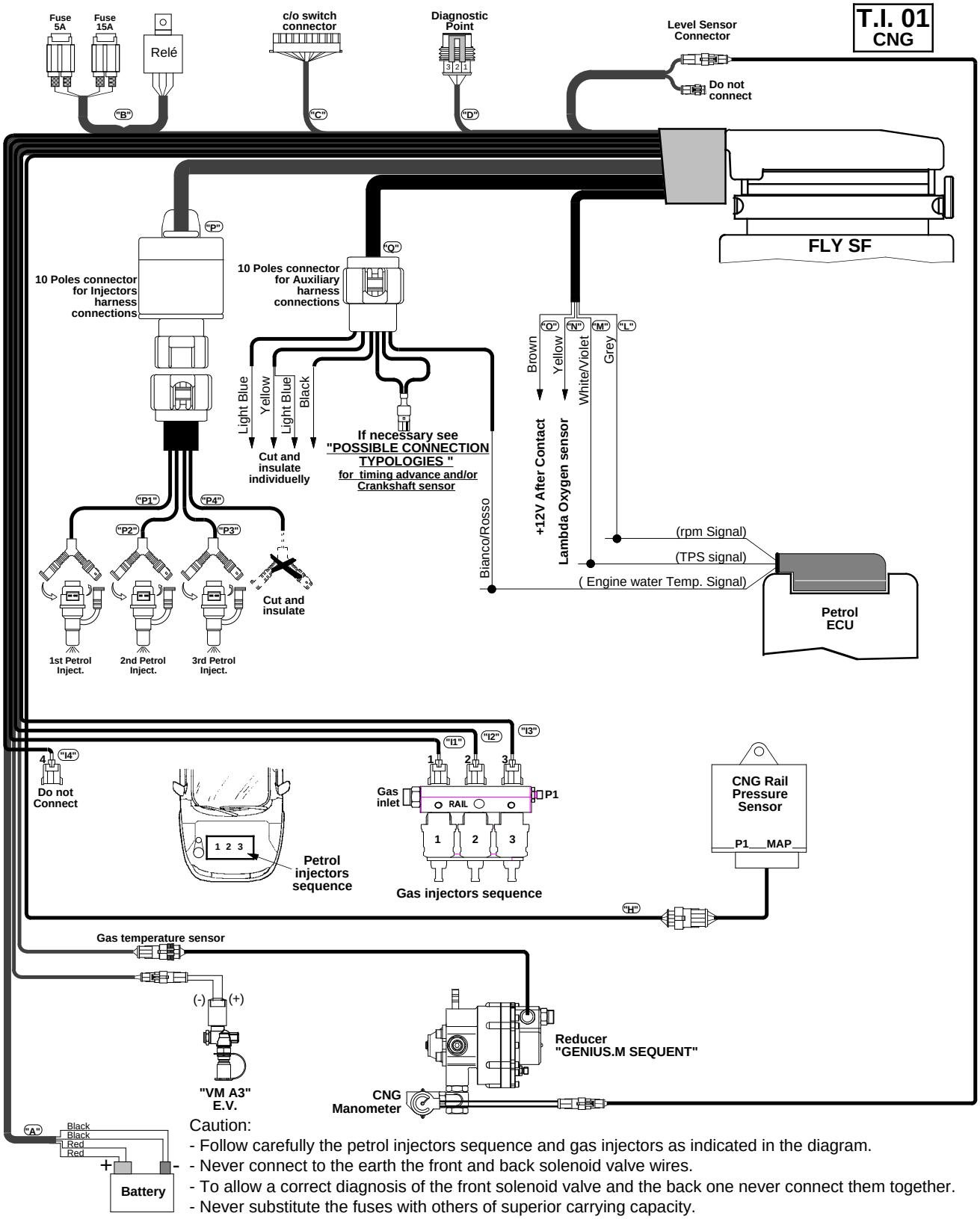




Notes:
- The kit **09SM00000004** contains the ø 6x4 covered copper pipe.
- The kit **09SM00000054** contains the ø 6x4 covered steel pipe.
- The CNG refuelling point or the shutter (code PR904803) indicated in the figure by a dashed line are sold separately.

CNG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 3-CYLINDER



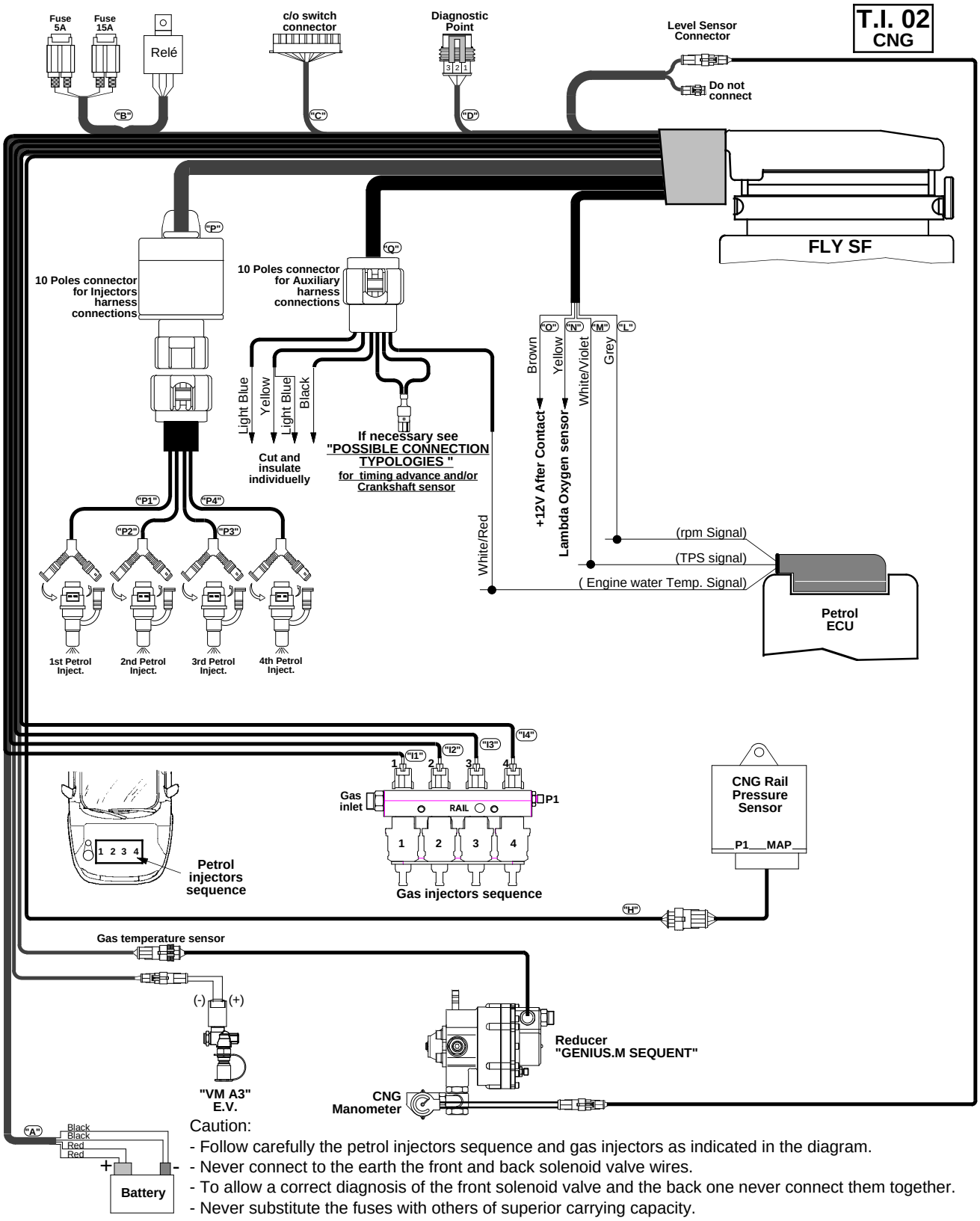
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

CNG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED ENGINE 4-CYLINDER WITH POWER HIGHER OR EQUAL TO 90 kW



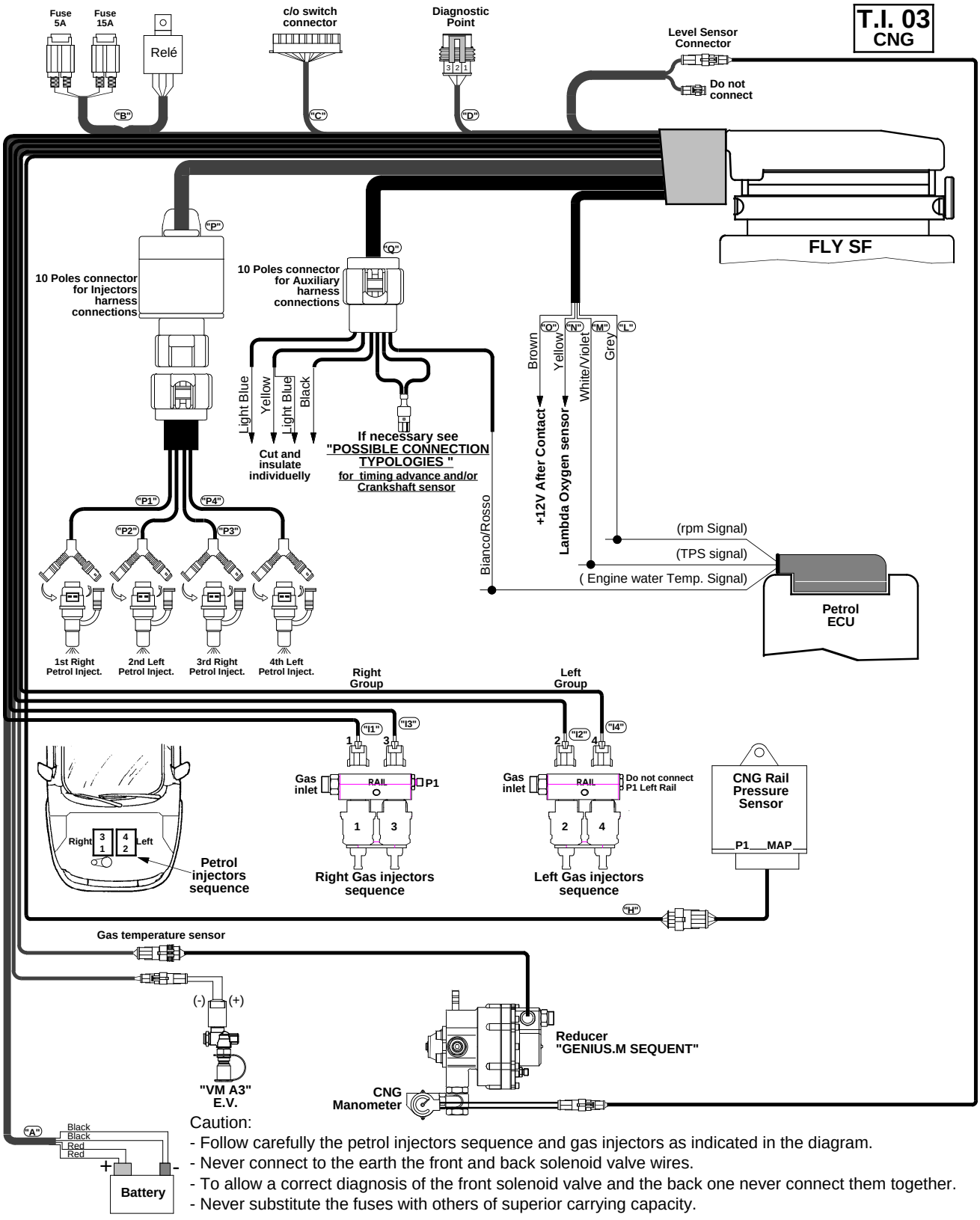
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

CNG SEQUENT WIRING DIAGRAM

FOR VEHICLES WITH ASPIRATED OR SUPERCHARGED BOXER ENGINE 4-CYLINDER WITH POWER HIGHER OR EQUAL TO 90 kW



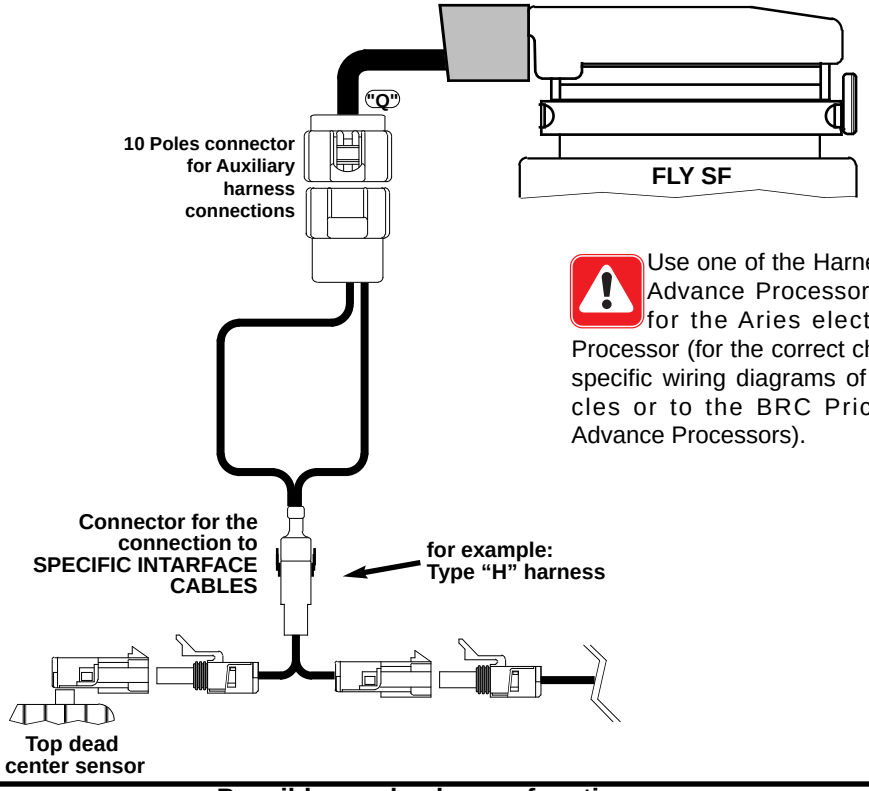
Caution:

- Follow carefully the petrol injectors sequence and gas injectors as indicated in the diagram.
- Never connect to the earth the front and back solenoid valve wires.
- To allow a correct diagnosis of the front solenoid valve and the back one never connect them together.
- Never substitute the fuses with others of superior carrying capacity.

CAUTION:
Be careful with the cars for which the manufacturer prohibits or advises against disconnecting the battery, not to alter the antitheft devices or automatic adaptivity - Never use welders connected to the battery of the same car - Connect with suitably insulated soft solderings - Position the BRC electrical devices in a well ventilated area, protected from water seepages and heat sources - We recommend to insulate the BRC electronic control unit wires which are not connected - BRC reserves the right to modify this diagram without notice - We also recommend you to be sure to have the last revision of the diagram drawn up by BRC.

OTHER POSSIBLE TYPOLOGIES OF CONNECTION REFERRED TO THE LPG SEQUENT WIRING DIAGRAMS

Possible spark advance function.
Connections to be made by using the SPECIFIC INTERFACE CABLES supplied by BRC compatible with the connector of the top dead center sensor



Use one of the Harnesses the Timing Advance Processor, normally used for the Aries electronic Advance Processor (for the correct choice refer to the specific wiring diagrams of the single vehicles or to the BRC Price List: Timing Advance Processors).

Fig. 01

Possible spark advance function.
Connections to be made when the connector of the top dead center sensor is not compatible with the SPECIFIC INTERFACE CABLES supplied by BRC.

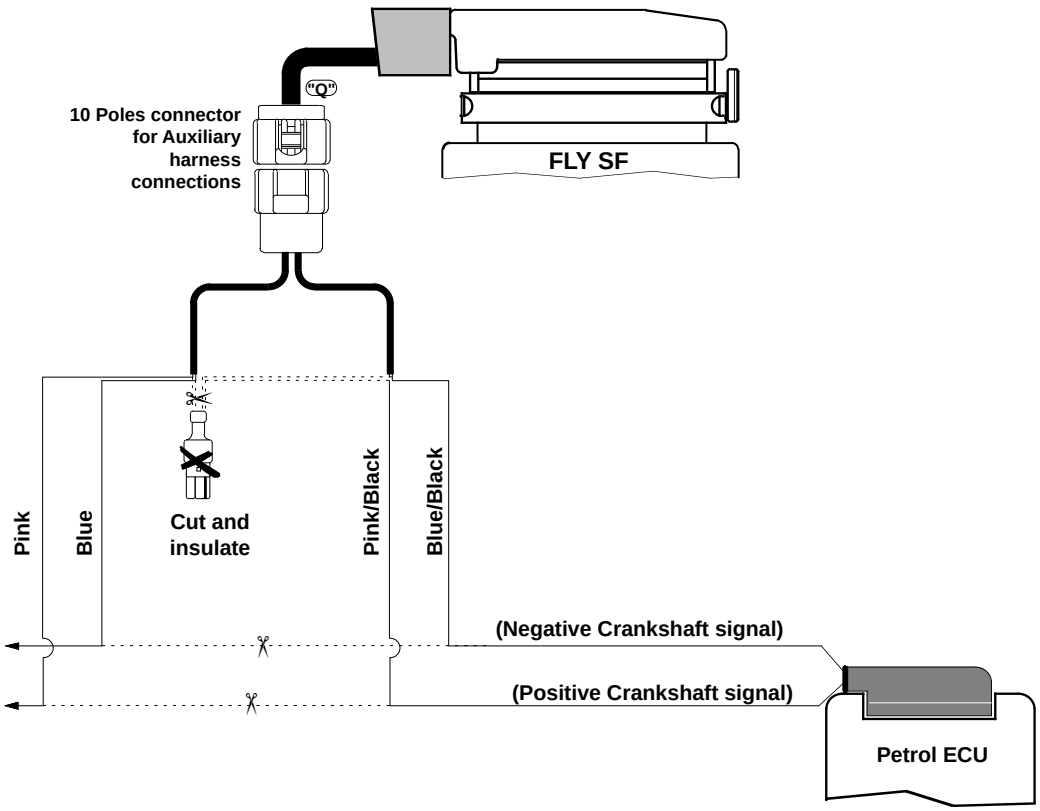


Fig. 02

OTHER POSSIBLE TYPOLOGIES OF CONNECTION REFERRED TO THE LPG SEQUENT WIRING DIAGRAMS

Possible crankshaft function.

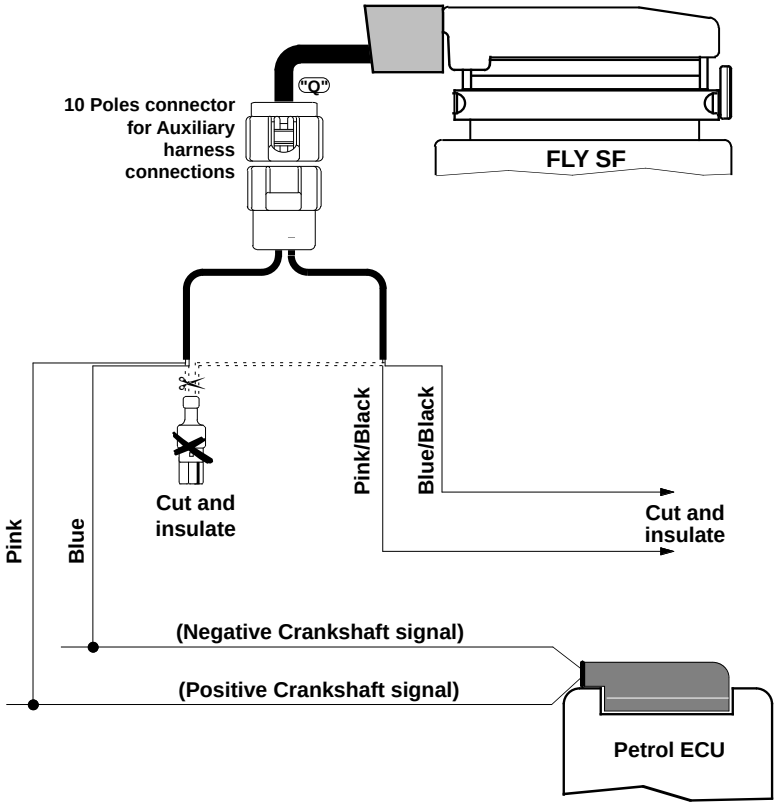


Fig. 03

Possible taking of the engine water temperature signal

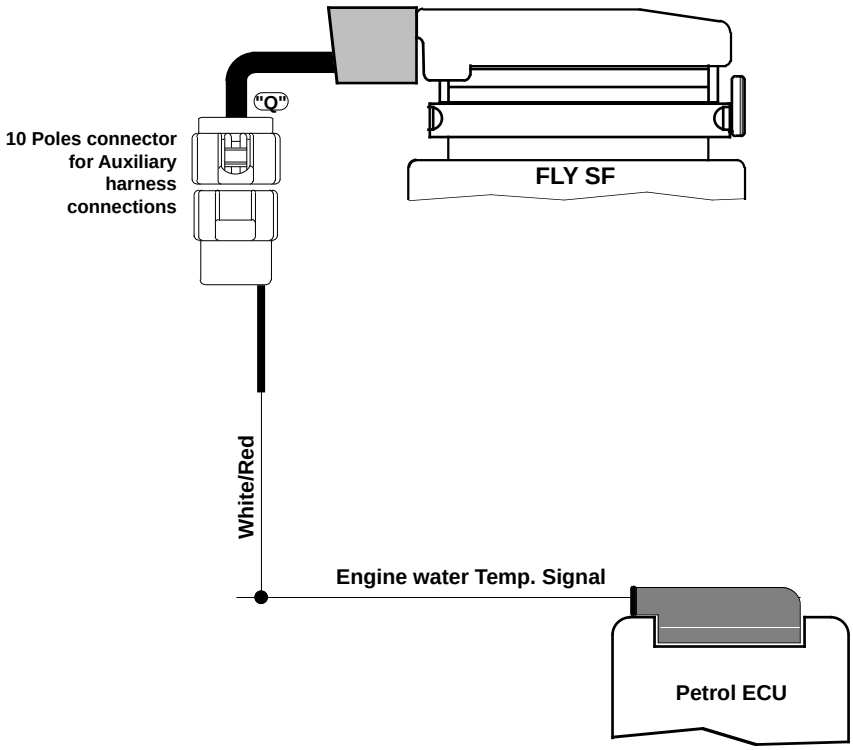


Fig. 04

OTHER POSSIBLE TYPOLOGIES OF CONNECTION REFERRED TO THE LPG SEQUENT WIRING DIAGRAMS

Possible taking of the Lambda Sonde signal

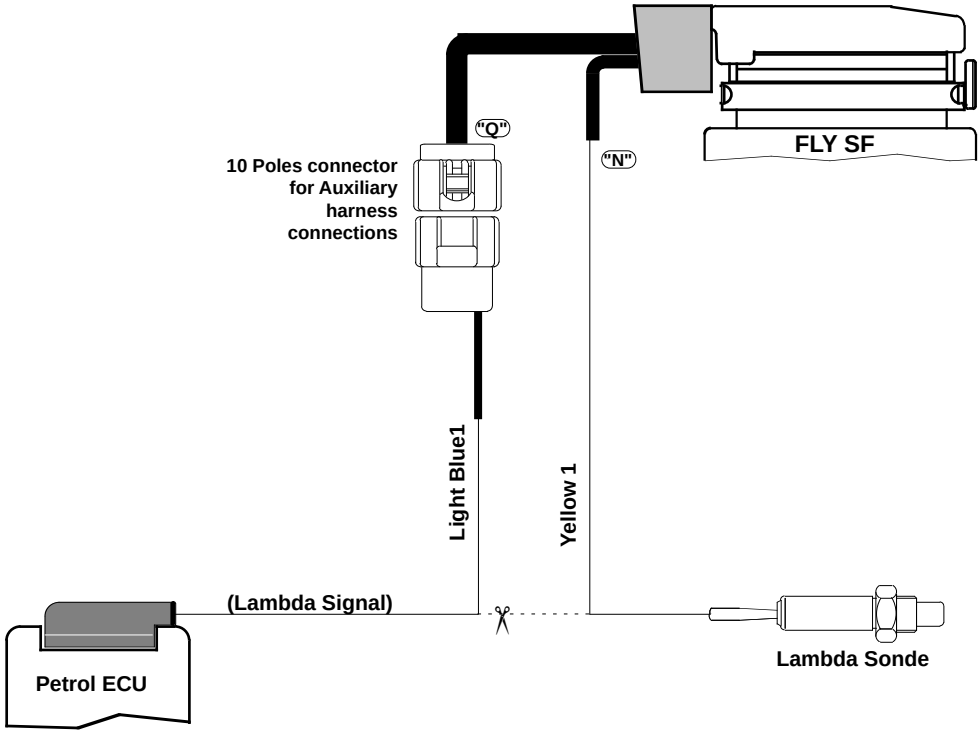


Fig. 05