

VERSION 01/2005



PRODUCER OF AUTOGAS EQUIPMENT

CATALOG OF PRODUCTS

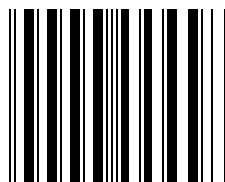
Office: DZIERŻONIÓW, ul. Storczykowa 16

Factory: BIELAWA, ul. Grunwaldzka 12

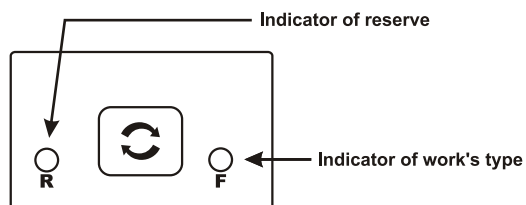
**CONTACT: tel. 0048(74)832-39-40, 0048(74)832-39-50;
0048(74)832-39-80
fax. 0048(74)832-39-60**

e-mail: protecdigital@home.pl www.protecdigital.pl

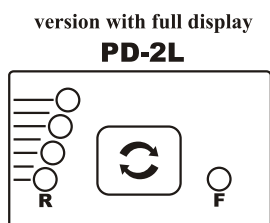
Description : Switch injection (microprocessor)
indicator of work's type
full project of LPG level
indicator of reserve



Symbol :
PD-2

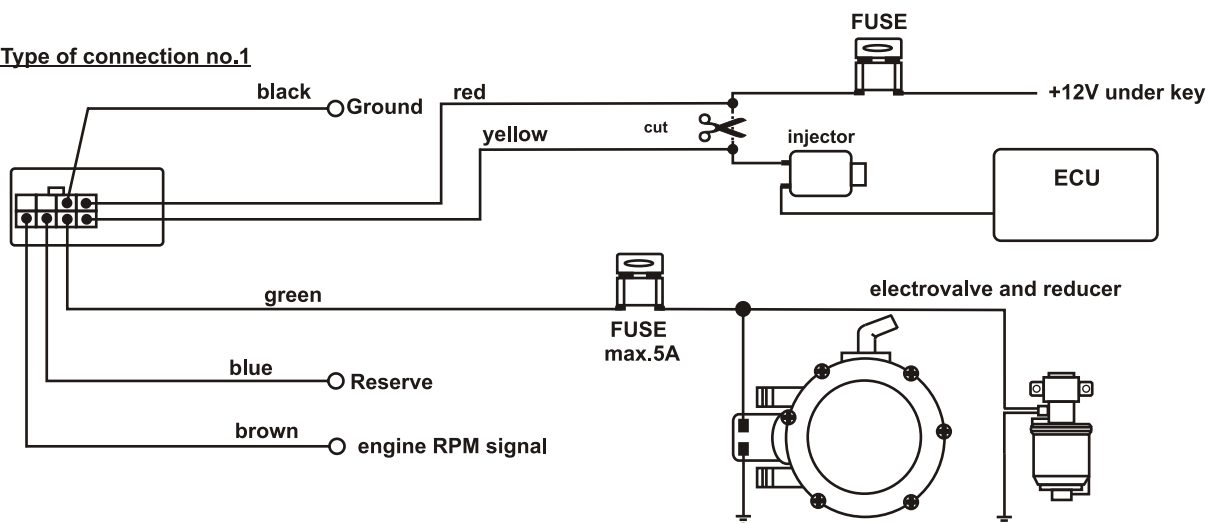


yellow - gas supply
red - petrol supply
orange - waiting for connection

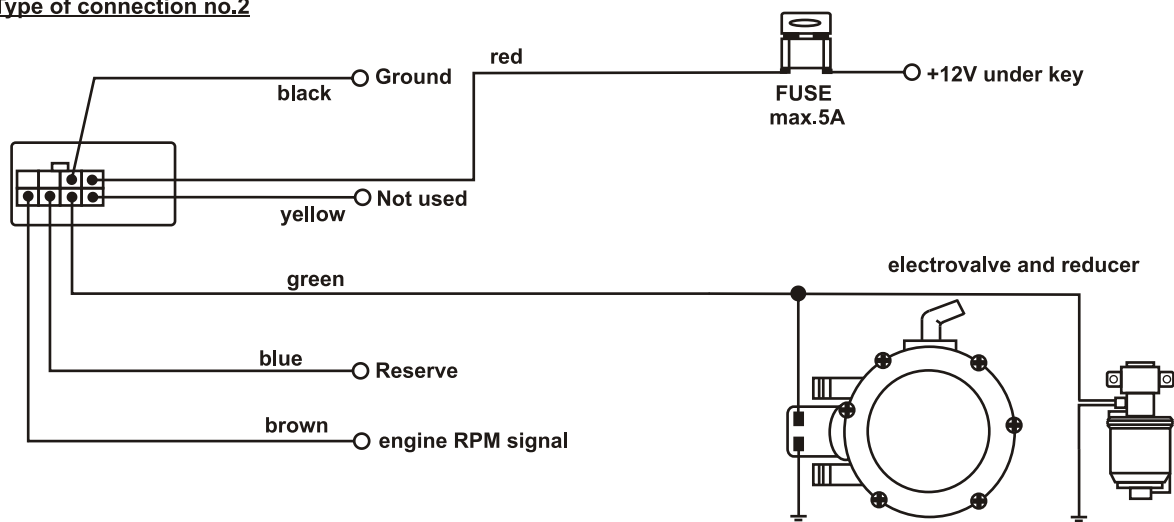


PD-2 can be used in vehicles equipped in injection.
There is two type of connection our device - both are shown below.

Type of connection no.1

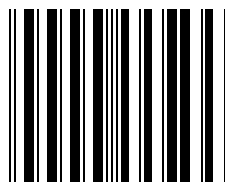


Type of connection no.2



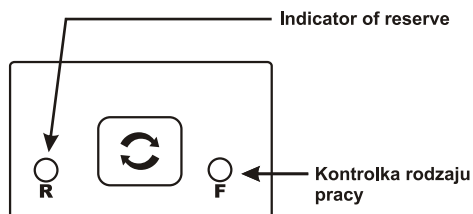
Description :

Switch injection (microprocessor)
indicator of work's type
full project of LPG level
indicator of reserve, additional relay



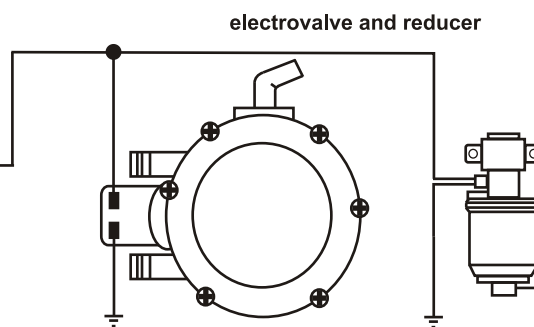
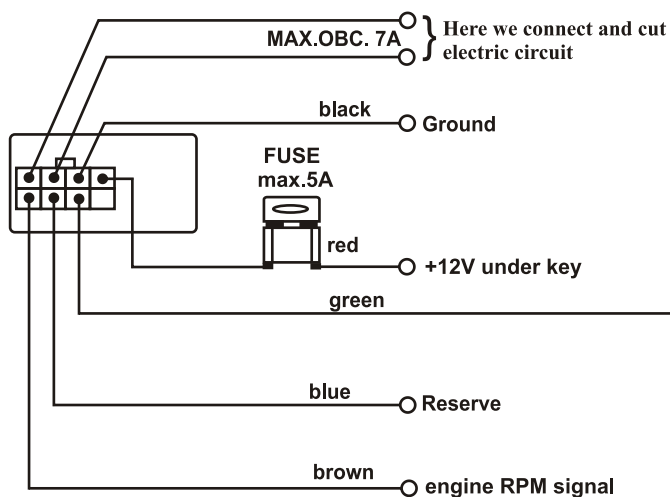
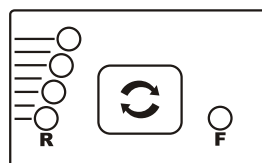
Symbol :

PD-2A



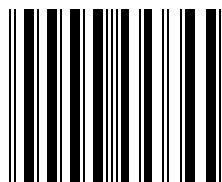
green - gas supply
red - petrol supply
orange - waiting for connection

version with full display
PD-2AL



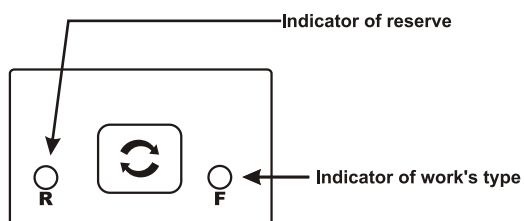
Description :

Switch injection (microprocessor)
indicator of work's type
full project of LPG level
indicator of reserve, additional emulator



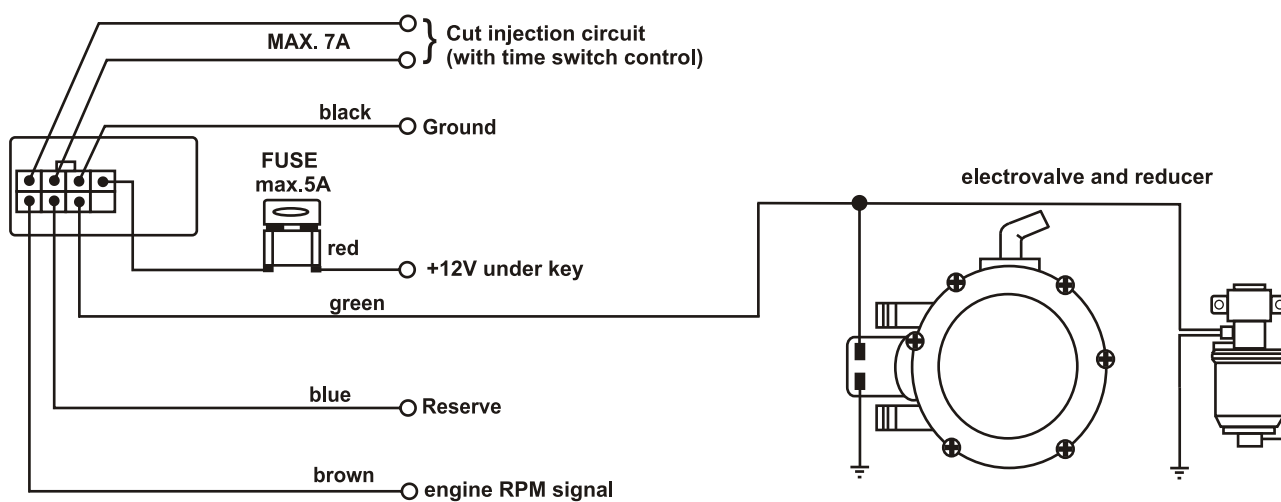
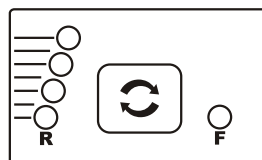
Symbol:

PD-2B



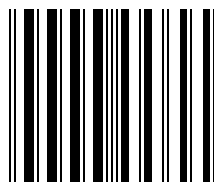
green - gas supply
red - petrol supply
orange - waiting for connection

version with full display
PD-2BL



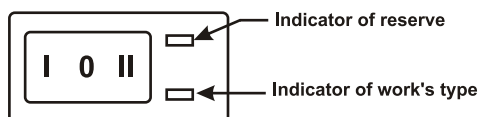
Description :

Switch injection (microprocessor)
indicator of work's type
indicator of reserve



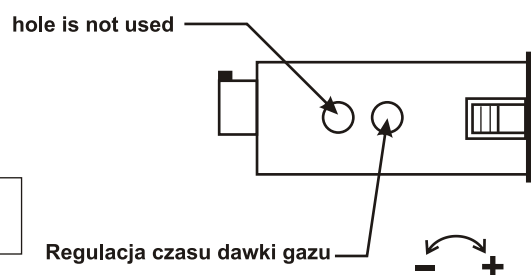
Symbol :

PD-7

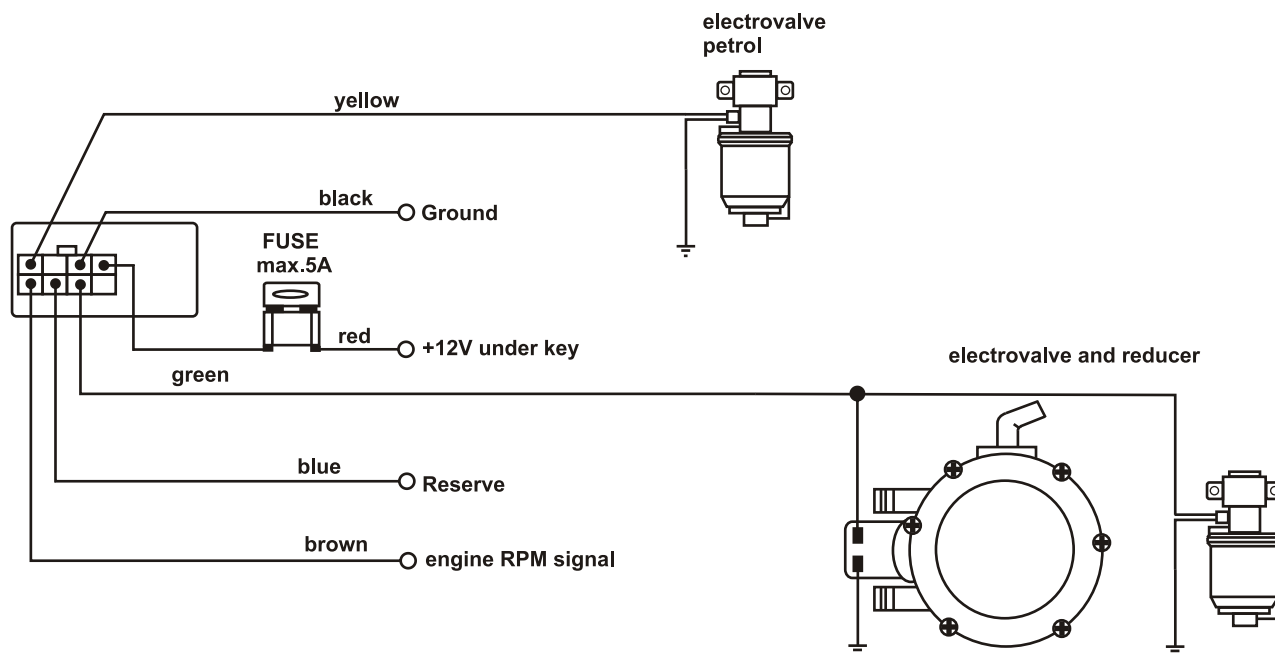


Position I - gas supply
Position 0 - petrol burnup
Position II - petrol supply

green - gas supply
red - petrol supply



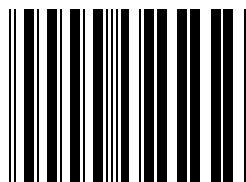
Connection scheme is shown below.





Description :

**Emulator LAMBDA (0 V - 1 V)
with wiring system for "cutting"**

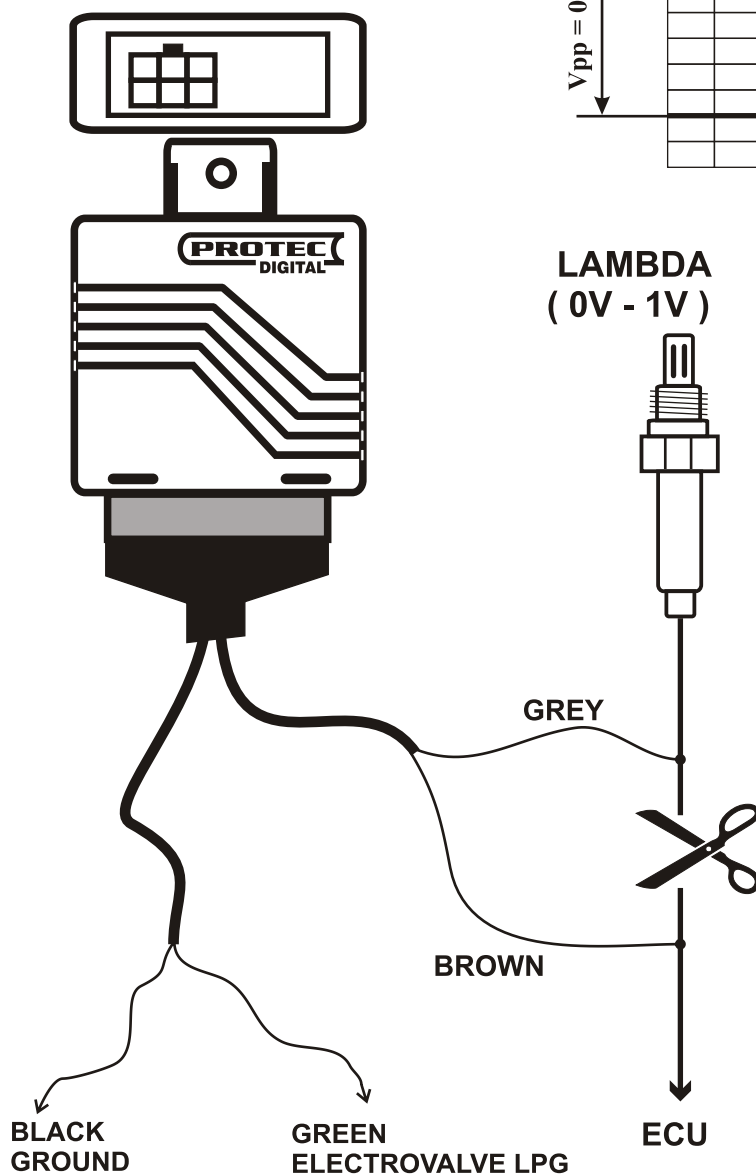
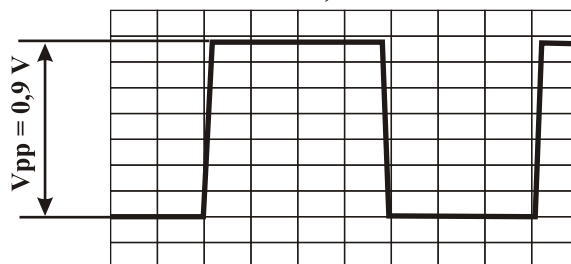


Symbol:

PD-10

**Emulator LAMBDA can be used in every vehicles equipped
in probe with level of output voltage from 0V untill 1V.**

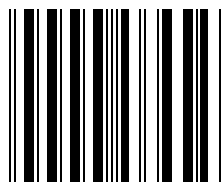
F=2,65Hz





Description :

Emulator LAMBDA probe (0 V - 5 V)
with wiring system for "cutting"

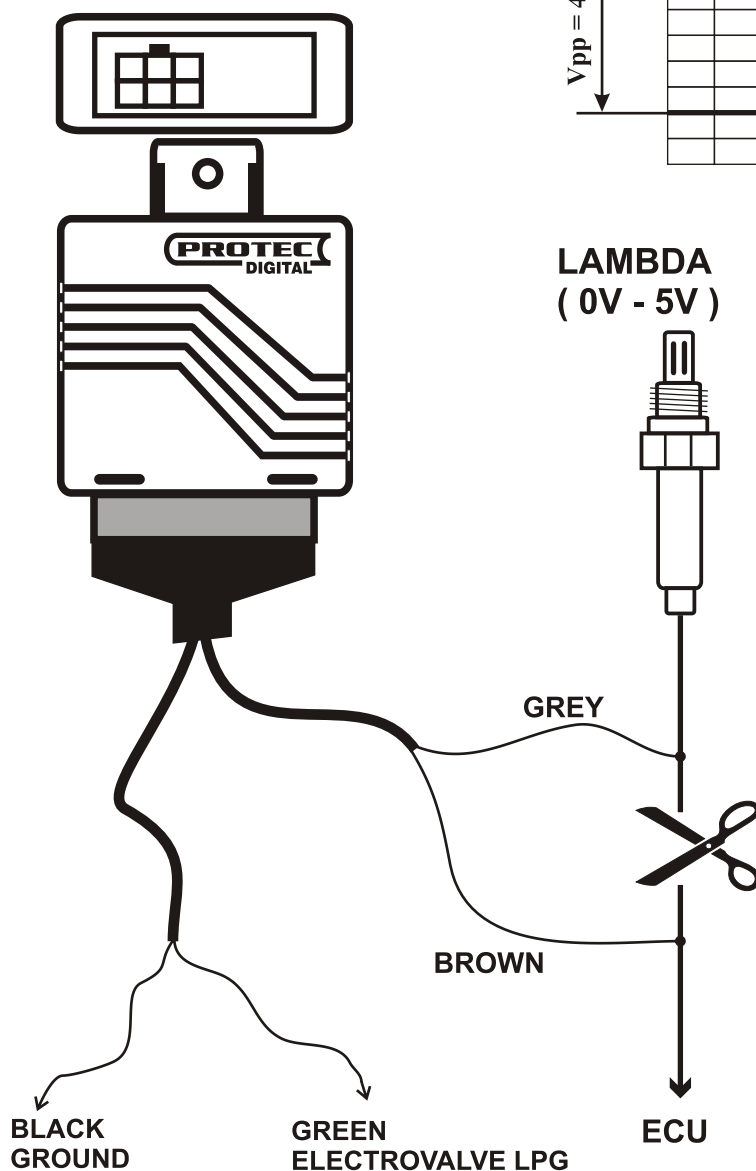
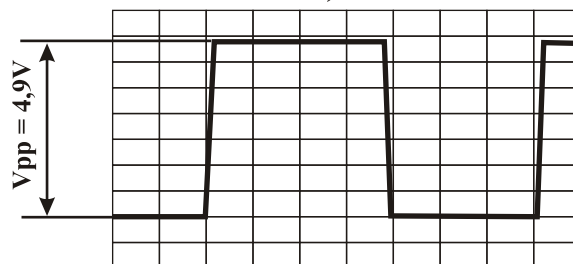


Symbol:

PD-10A

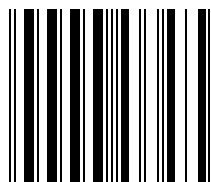
Emulator LAMBDA can be used in every vehicles equipped
in probe with level of output voltage from 0V untill 5V.

$F=2,65\text{Hz}$

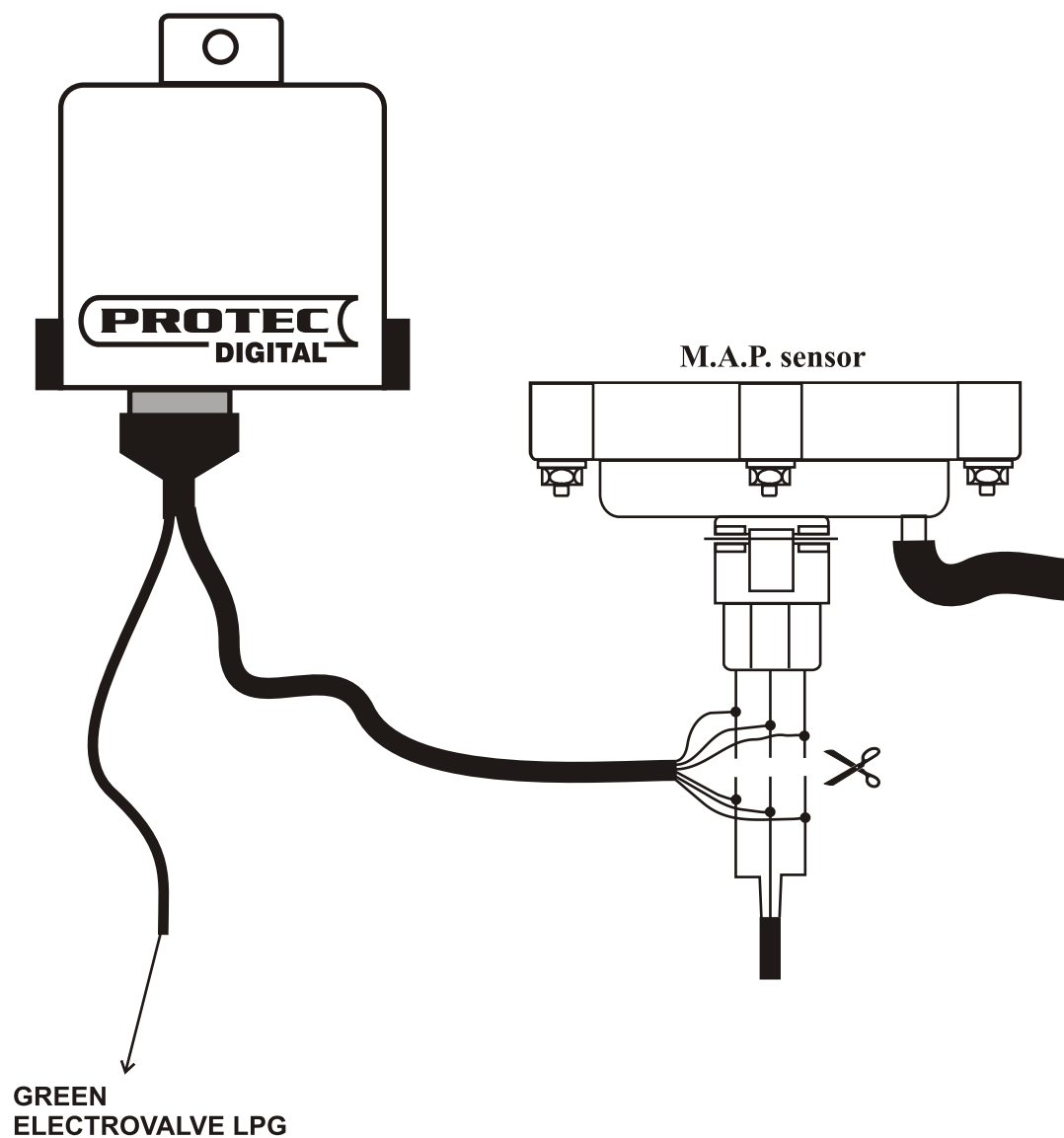




Description :
Emulator M.A.P sensor
version with wiring system for
"cutting"

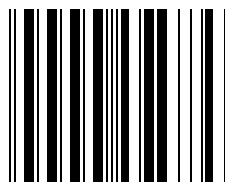


Symbol:
PD-12A



Description :

Adder of firing pulses
max. 6- cylinder



Symbol:

PD-15

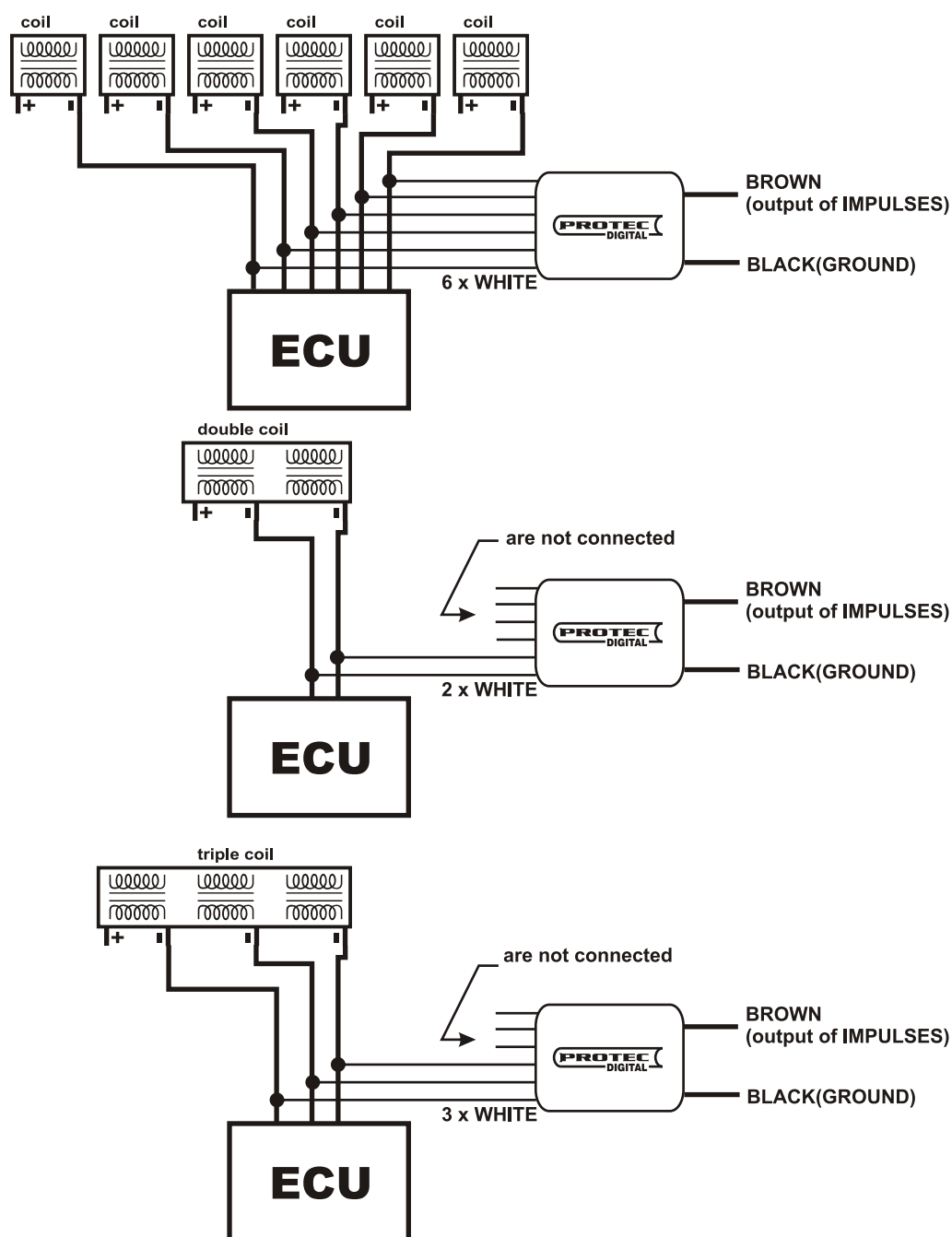
Adder of firing pulses is used to summarize firing pulses in vehicles, where a few ignition coils has been applied.

Scheme of connection is shown below.

Adder can be used in all combinations "coils quantity-cylinders quantity"

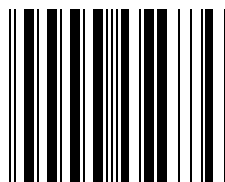
White wires which are not used stay unconnected

During assembly of adder it is not necessary to check sequence of coils.



Description :

Adder of firing pulses
with built-in amplifiers
max. 6- cylinder



Symbol:

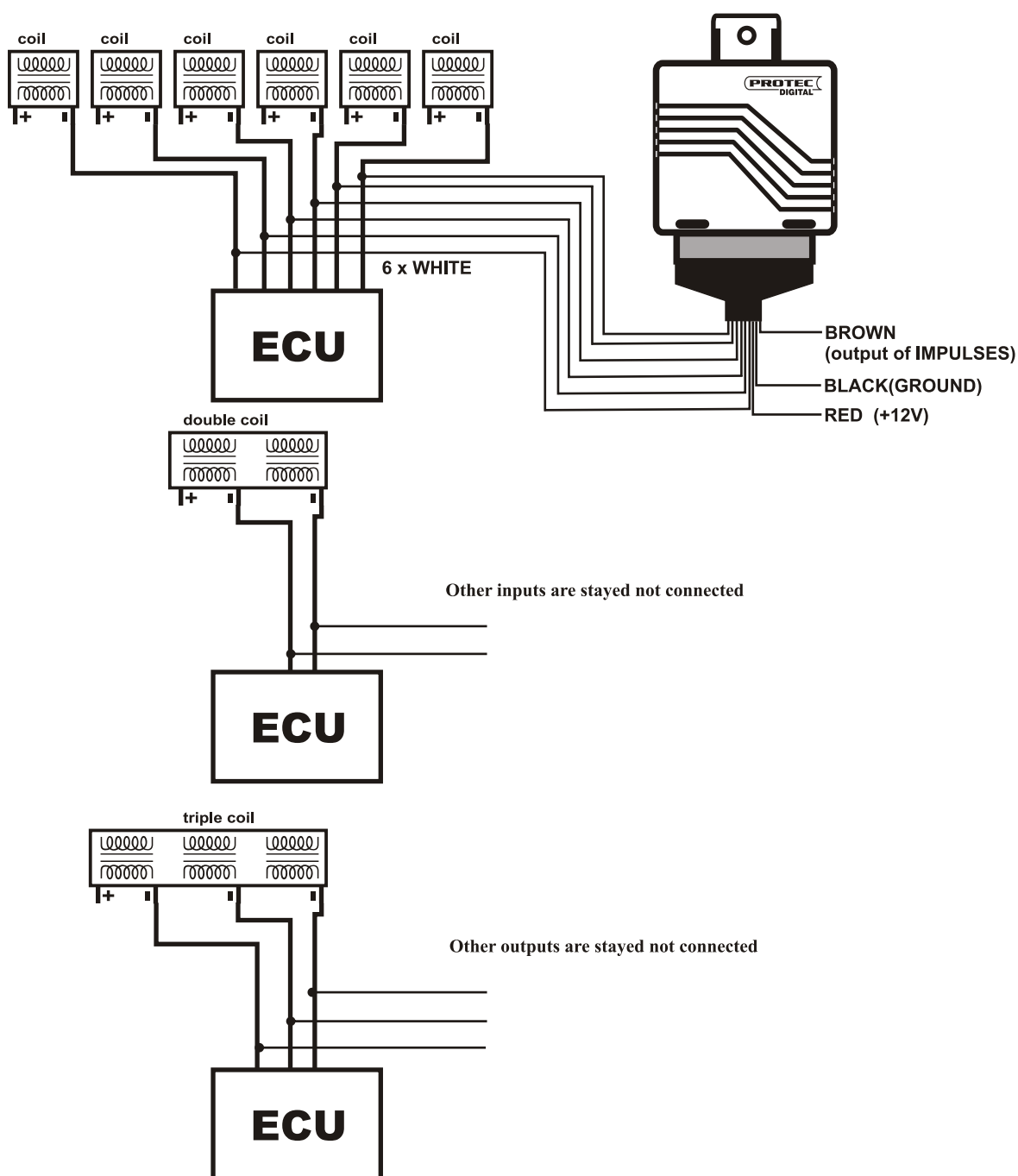
PD-16

Adder of firing pulses is used to summarize firing pulses in vehicles, where a few ignition coils has been applied. Scheme of connection is shown below.

Adder can be used in all combinations "coils quantity-cylinders quantity"

White wires which are not used stay unconnected

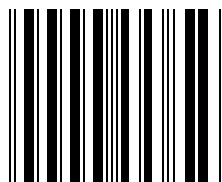
During assembly of adder it is not necessary to check sequence of coils.





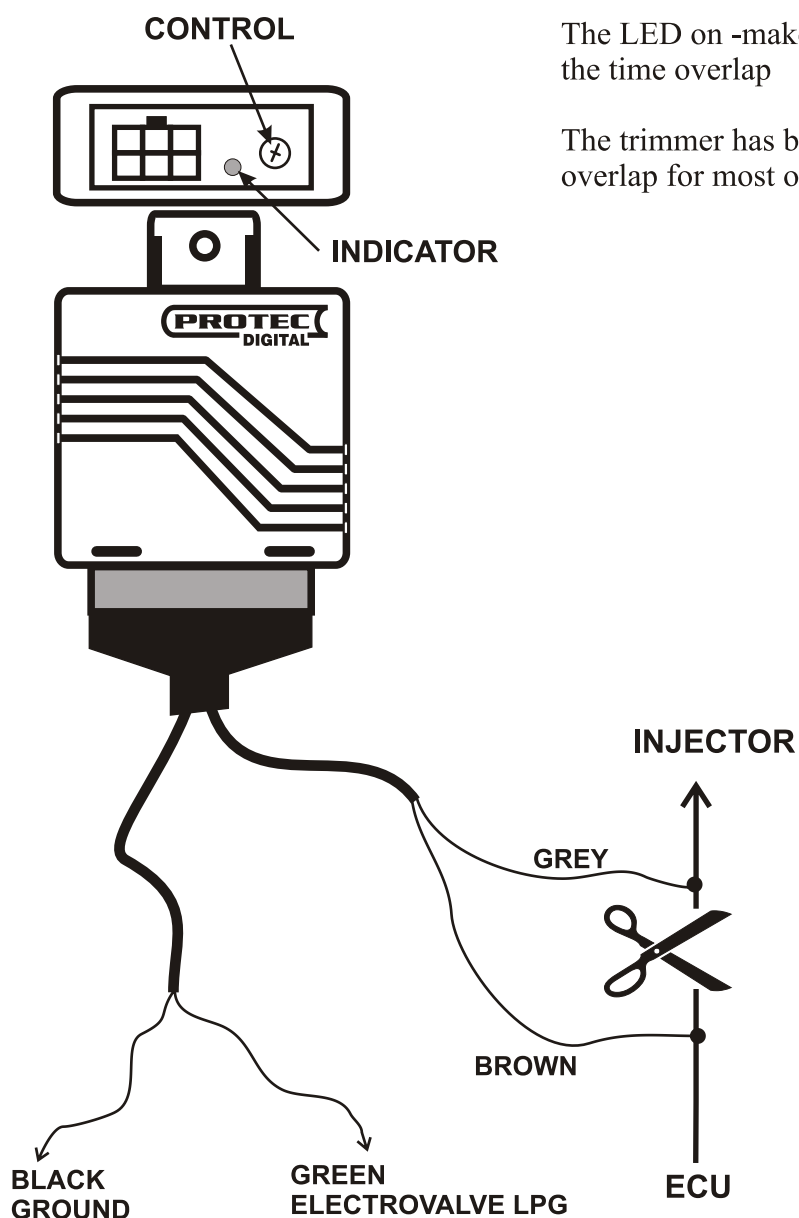
Description :

Emulator singlepoint injection
for FIAT SEICENTO 900 ccm
regulation of sovraposition time (gas/petrol)
wiring system for "cutting"



Symbol :

PD-20S



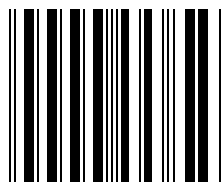
The LED on -makes you know
the time overlap

The trimmer has been reached the best time
overlap for most of the cars



Description :

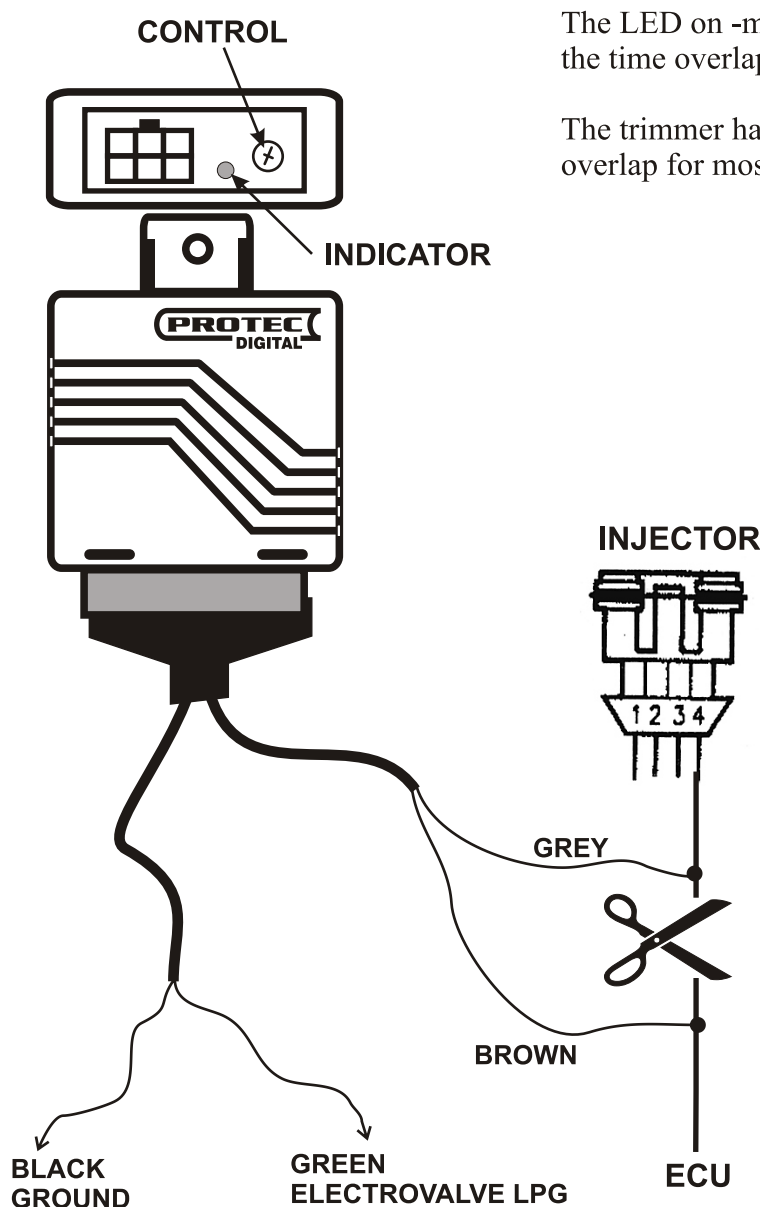
**Emulator singlepoint injection
regulation of sovraposition time (gas/petrol)
wiring system for "cutting"**



Symbol :

PD-20

**The emulator can be used in all vehicles equipped by singlepoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
Emulator can be used in MONOBOSCH, MAGNETI-MARELLI**



The LED on -makes you know
the time overlap

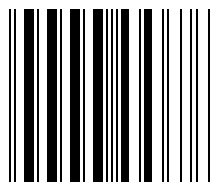
The trimmer has been reached the best time
overlap for most of the cars

**Example of connecting
MONOBOSCH**

Example concern :
**CITROEN SAXO 1.1 ie
CITROEN ZX 1.4 ie
CITROEN AX 1.4 ie**
In the other cars we cut
pos.3
It can be used :
**CITROEN AX 1.4 ie MPI
PEUGEOT 106 1.4 MPI
VOLVO 480/440/460 1.7 MPI**

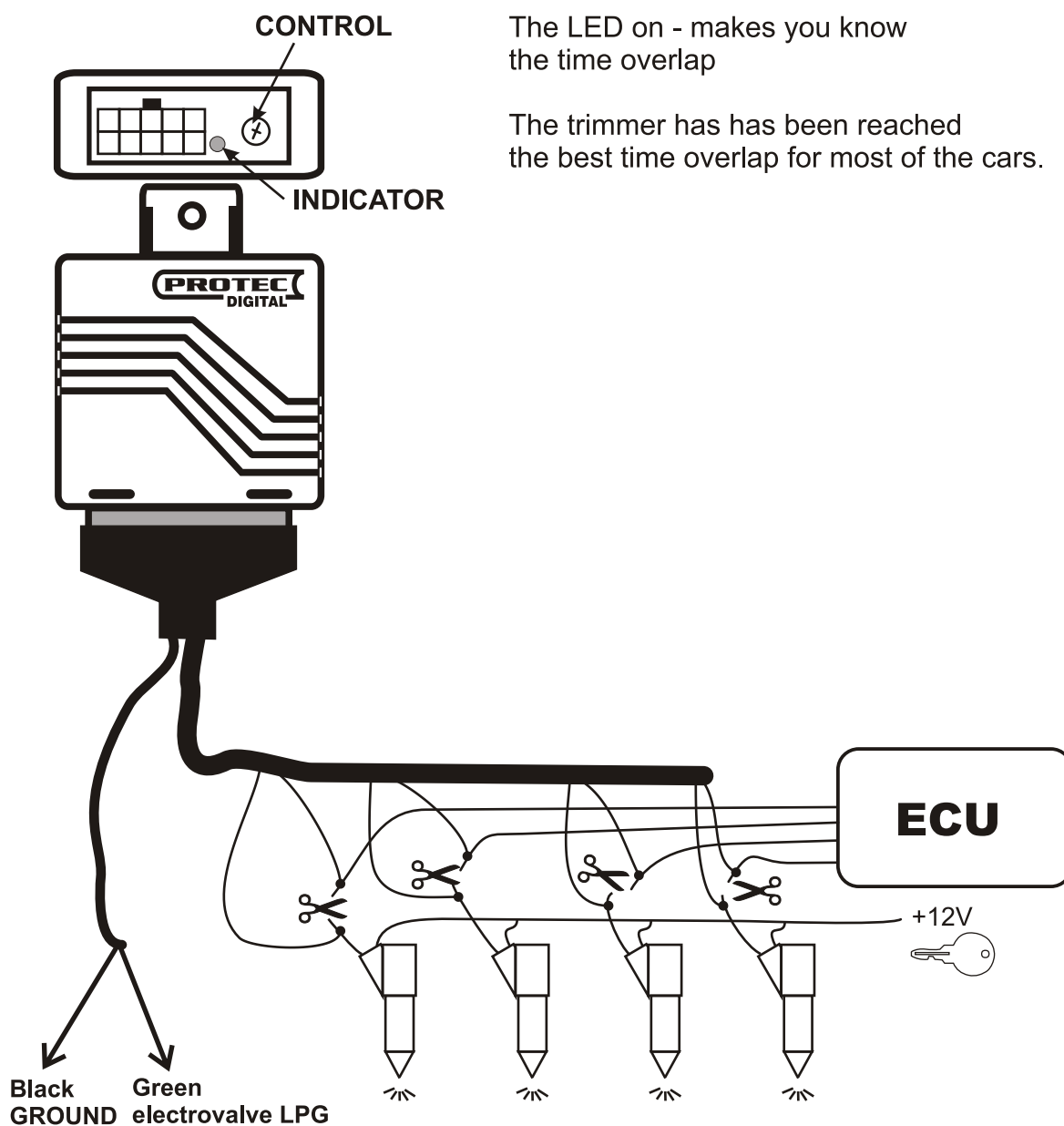


Description : Emulator multipoint injection
max. 4-cyl.(10 -15 Ω)
Regulation of sovraposition time
wiring system for "cutting"



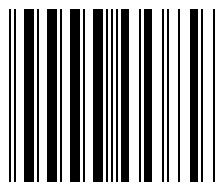
Symbol:
PD-21A

The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is between 10 till 15 Ω



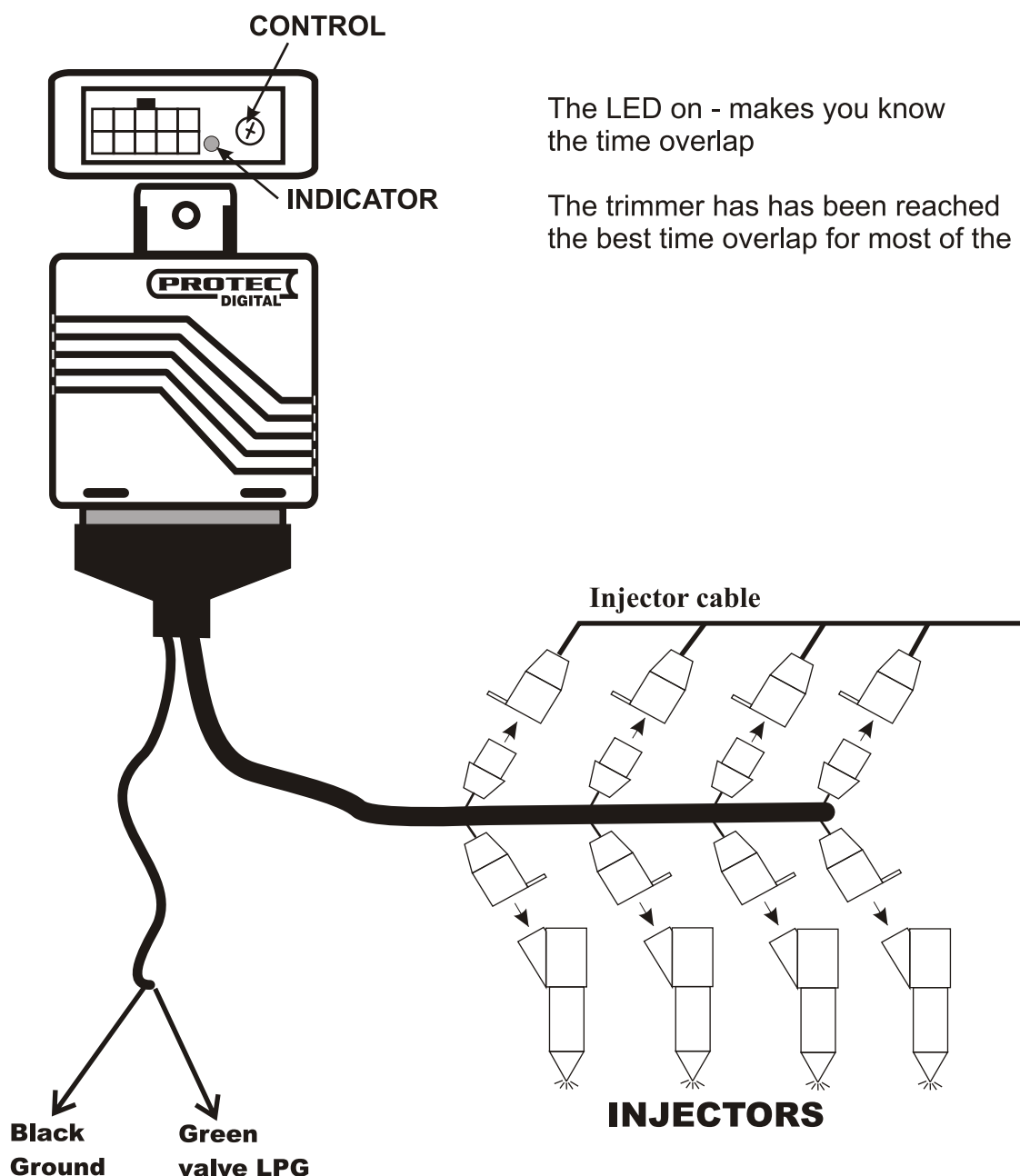


Description : Emulator multipoint injection
max. 4-cyl.(10 -15) Ω
Regulation of sovraposition time
wiring system with EUROPA plug



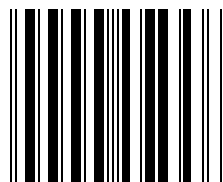
Symbol :
PD-21

The emulator can be used for all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is the same as or less then 15 Ω



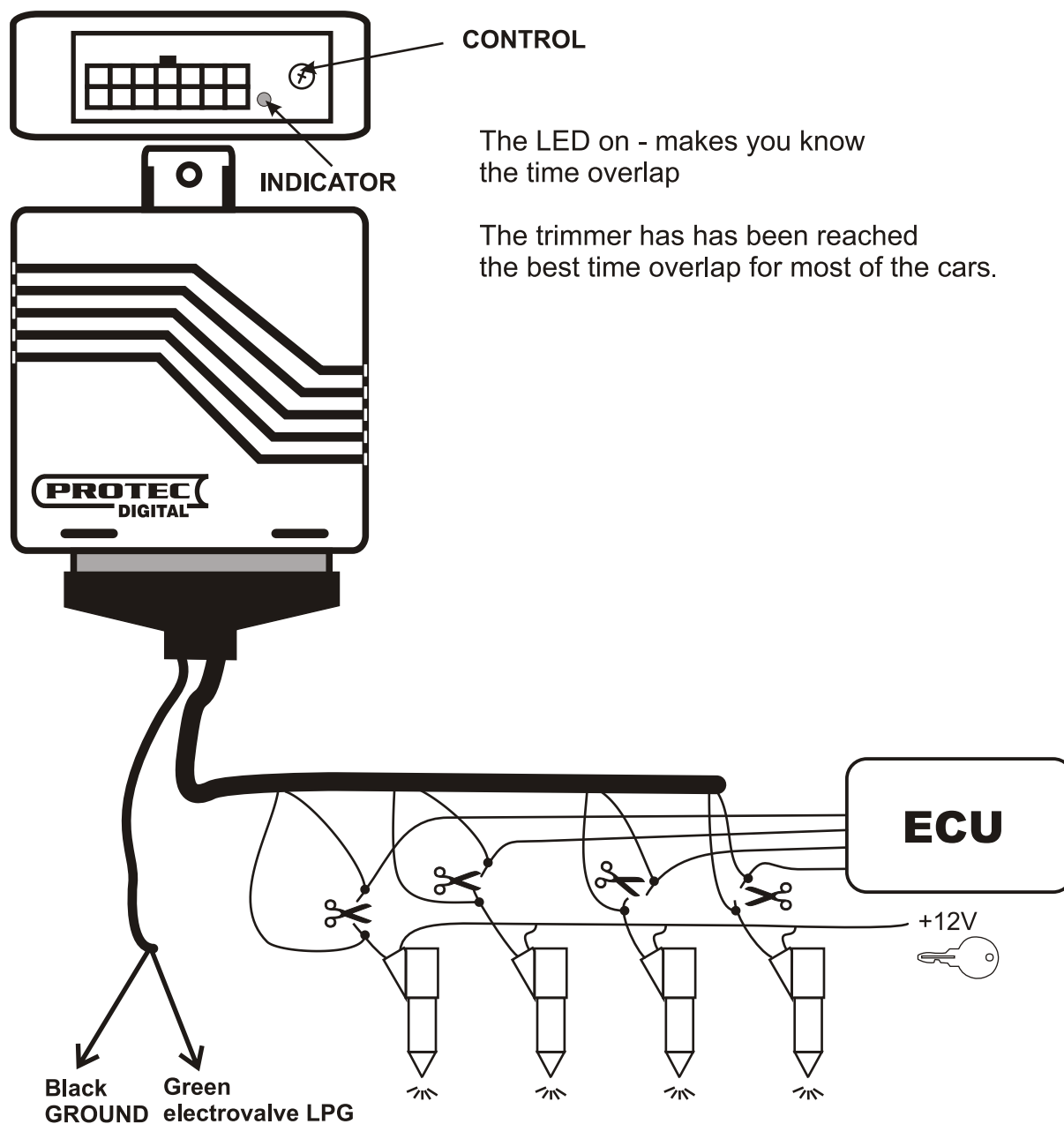


Description : Emulator multipoint injection
max. 4-cyl.(5 - 10 Ω)
Regulation of sovraposition time
wiring system for "cutting"



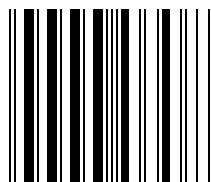
Symbol :
PD-21AJ

The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 5 untill 10 Ω
ATTENTION Emulator is different from PD-21, symbol is shown on the label



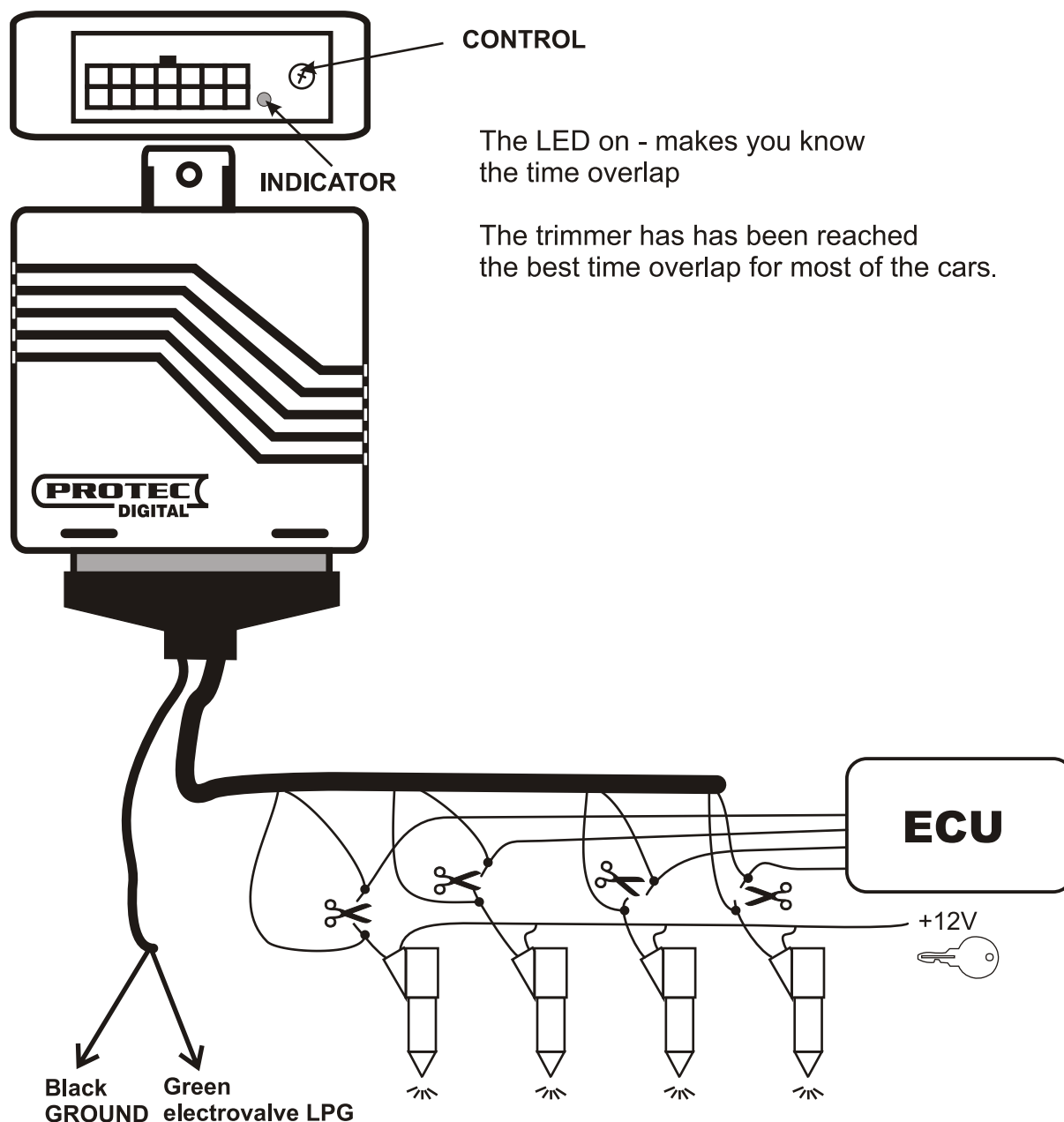


Description : Emulator multipoint injection
max. 4-cyl.(2 - 5 Ω)MITSUBISHI
Regulation of sovraposition time
wiring system for "cutting"



Symbol :
PD-21AM

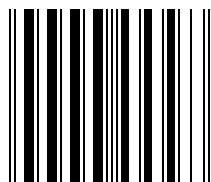
The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 2 untill 5 Ω
ATTENTION Emulator is different from PD-21,PD-21AJ symbol is shown on the label





Description :

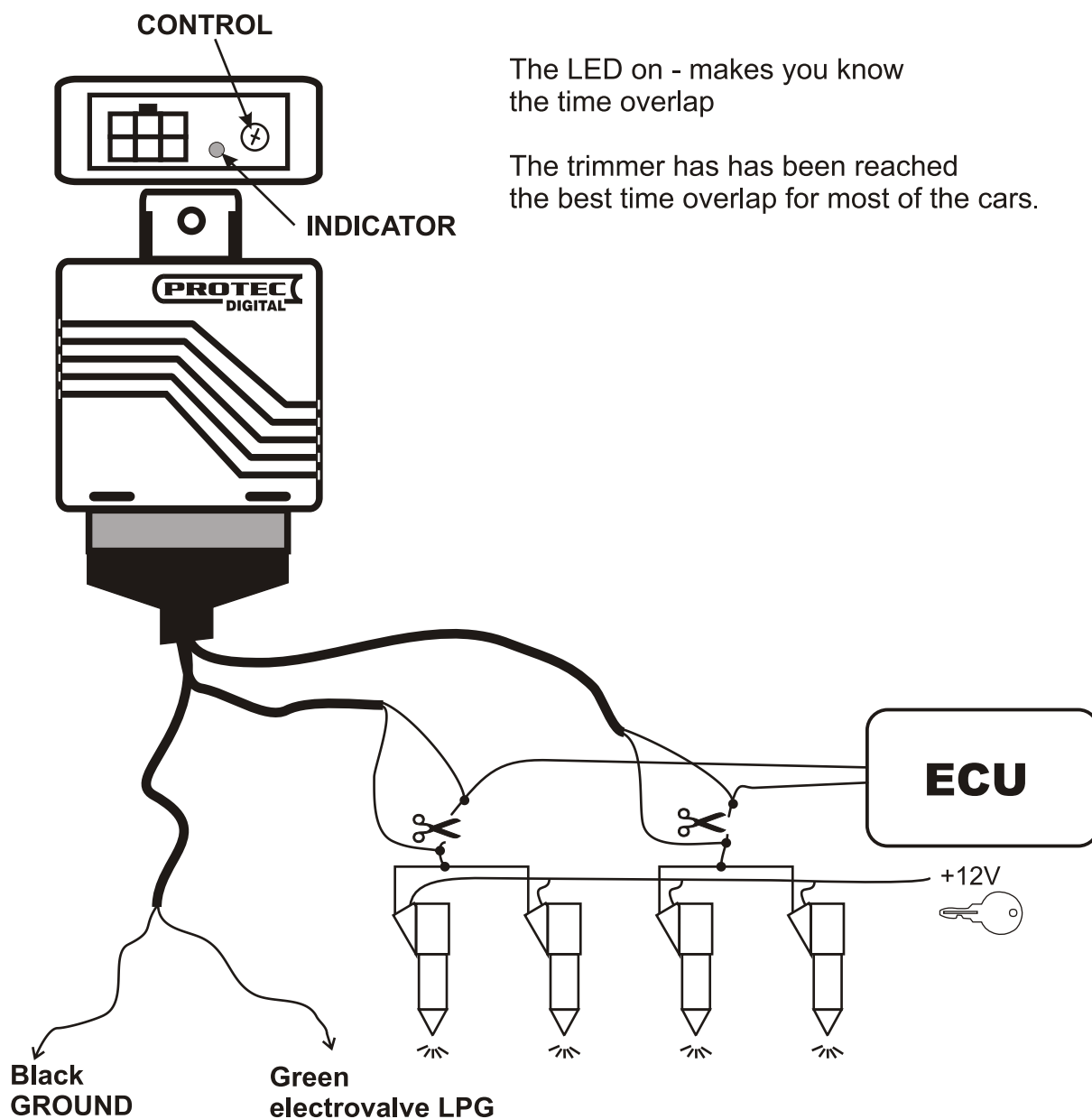
Emulator 2-channel injection
Regulation of sovraposition time
wiring system for "cutting"



Symbol :

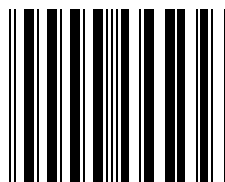
PD-21B

The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 10 until 15 Ω
Example of using 2-channel emulator in case if two injectors are controlled is presented below.
Emulator can be also used when three injectors are controlled at the same time.



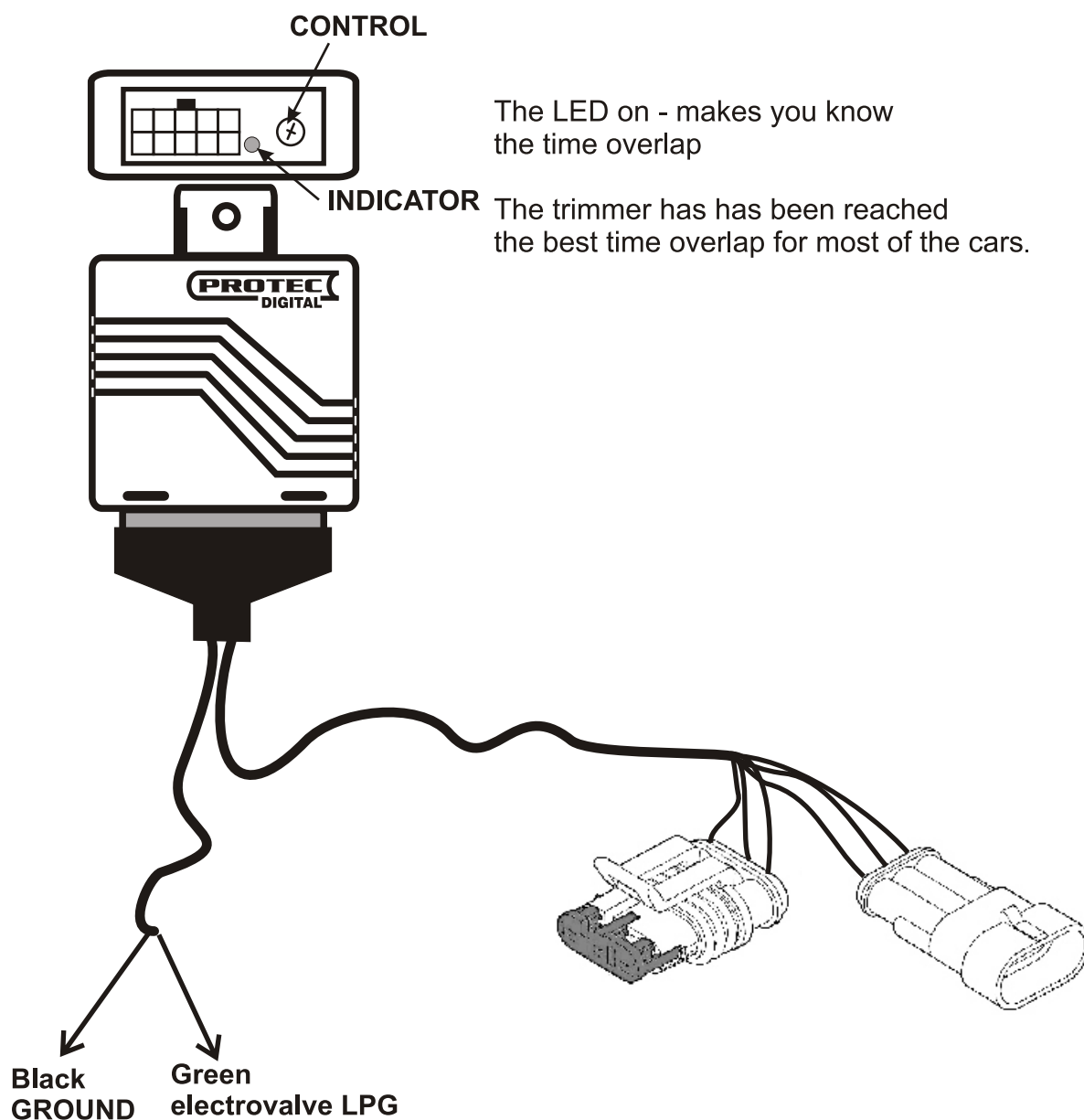


Description : Emulator multipoint injection
max. 4-cyl. (10 - 15 Ω)
Regulation of sovraposition time
wiring system with FIAT plugs



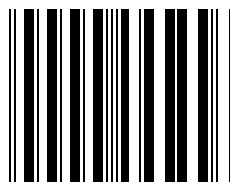
Symbol:
PD-21F

The emulator is used in FIAT (BRAVO,BRAVA).
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).





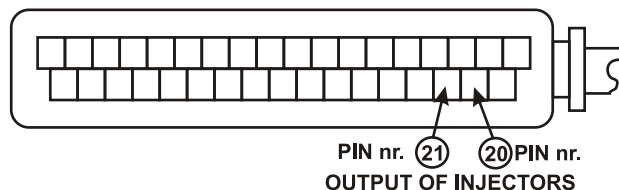
Description : Emulator multipoint injection
max. 4-cyl. (2,6 Ω) RENIX
Regulation of sovraposition time
wiring system for "cutting"



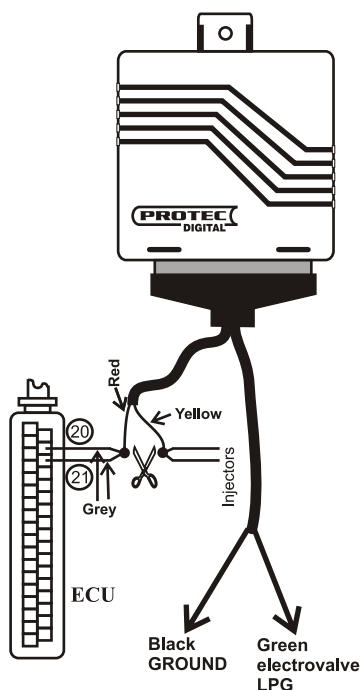
Symbol :
PD-21R

The emulator RENIX is used in all vehicles (only 4-cyl.)
equipped in RENIX module ignition.
The emulator has to be installed
only if injectors resistance is around 2,6 Ω

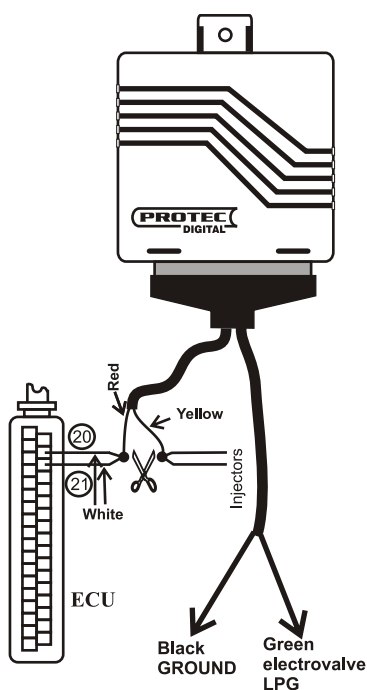
View of the pin in RENIX module ignition



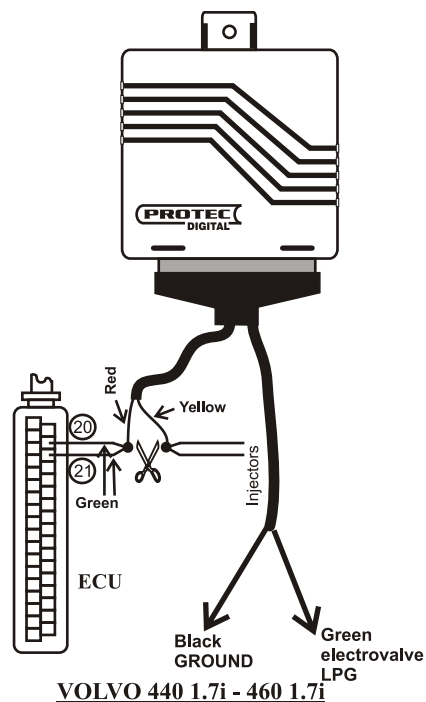
Examples of connection in different cars



RENAULT 19 16V
RENAULT CLIO 16V

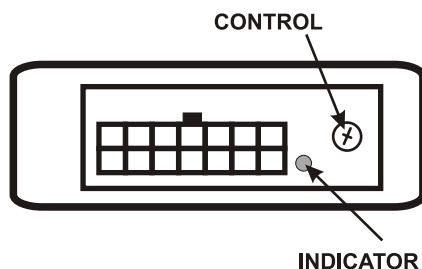


RENAULT 21-25



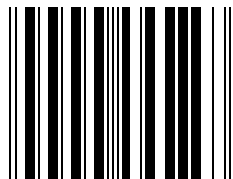
VOLVO 440 1.7i - 460 1.7i

ATTENTION!!
If for pin no. 20 a wire 0,5mm is connected in
the brown-yellow colour
please do not installed the emulator



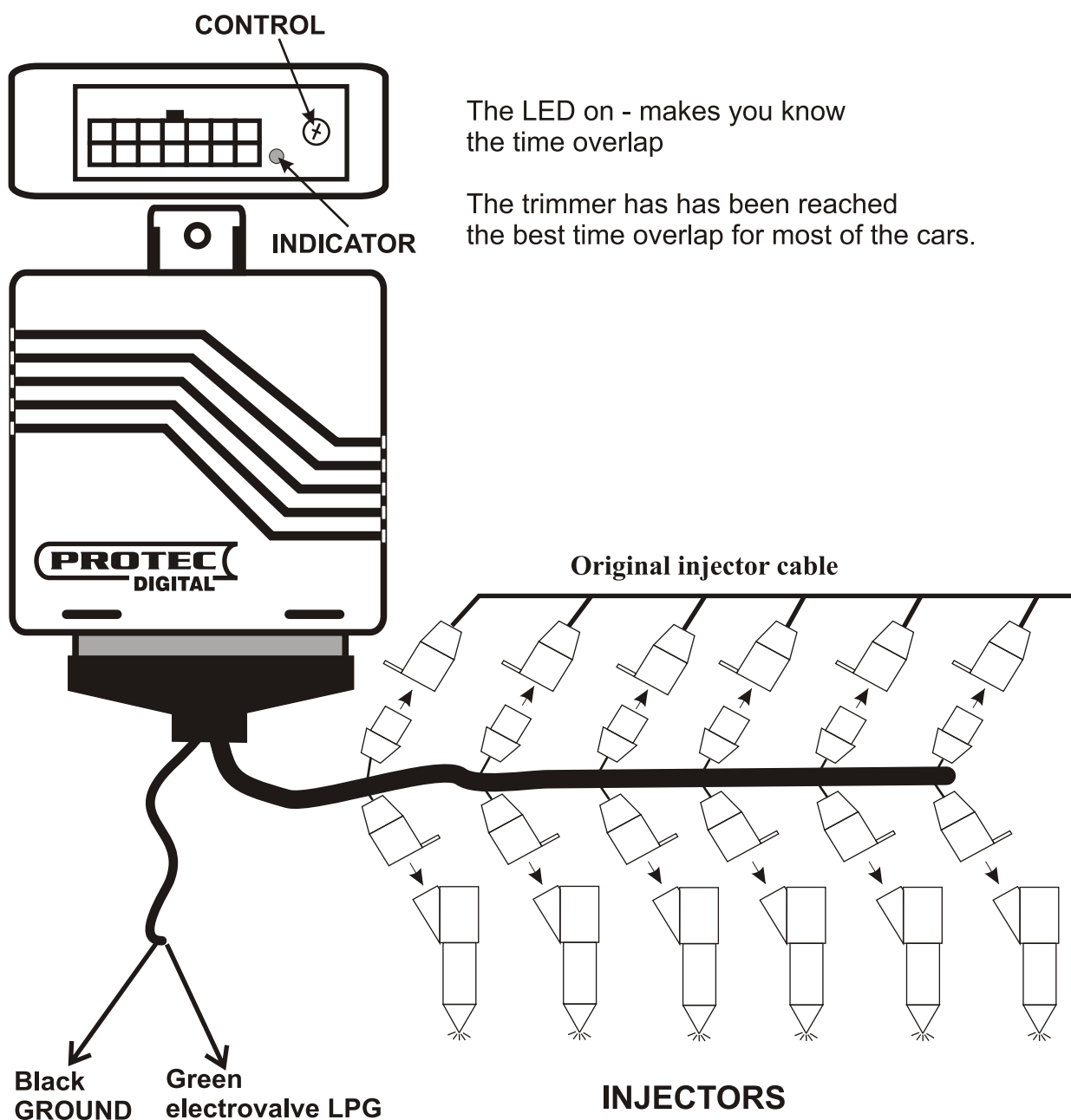
PROTEC
DIGITAL

Description : Emulator multipoint injection
max. 6-cyl.(IN-LINE engine)
Regulation of sovraposition time
wiring system with EUROPA plugs



Symbol :
PD-22

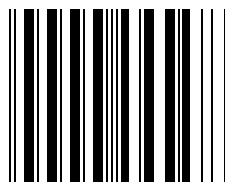
The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 10 untill 15 Ω



PROTEC DIGITAL

Description :

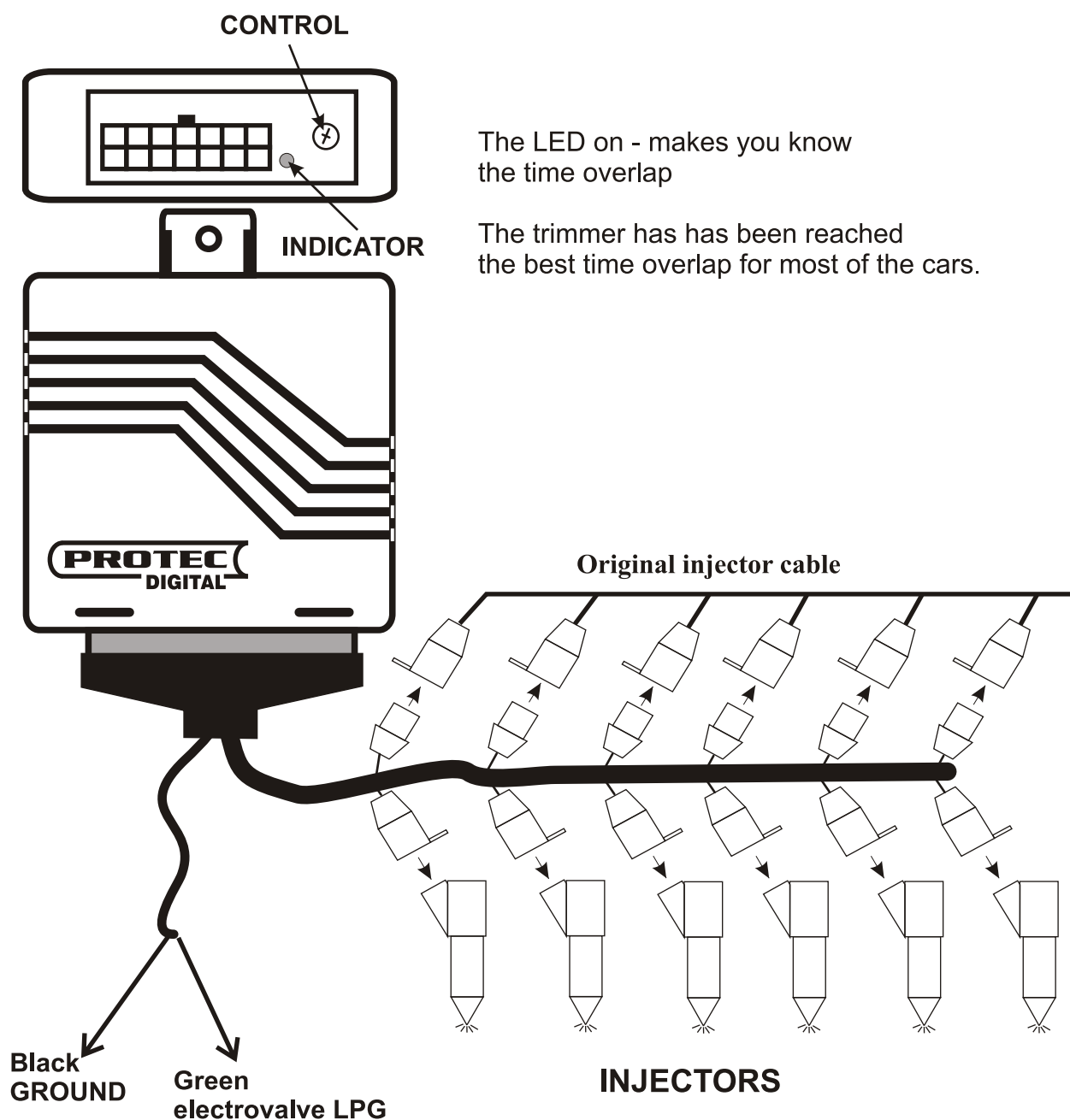
Emulator multipoint injection
max. 6-cyl.(V-TYPE engine)
Regulation of sovraposition time
wiring system with EUROPA plugs



Symbol :

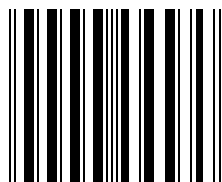
PD-22V

The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 10 untill 15 Ω
Wiring system in emulator type PD-22V is longer than in PD-22



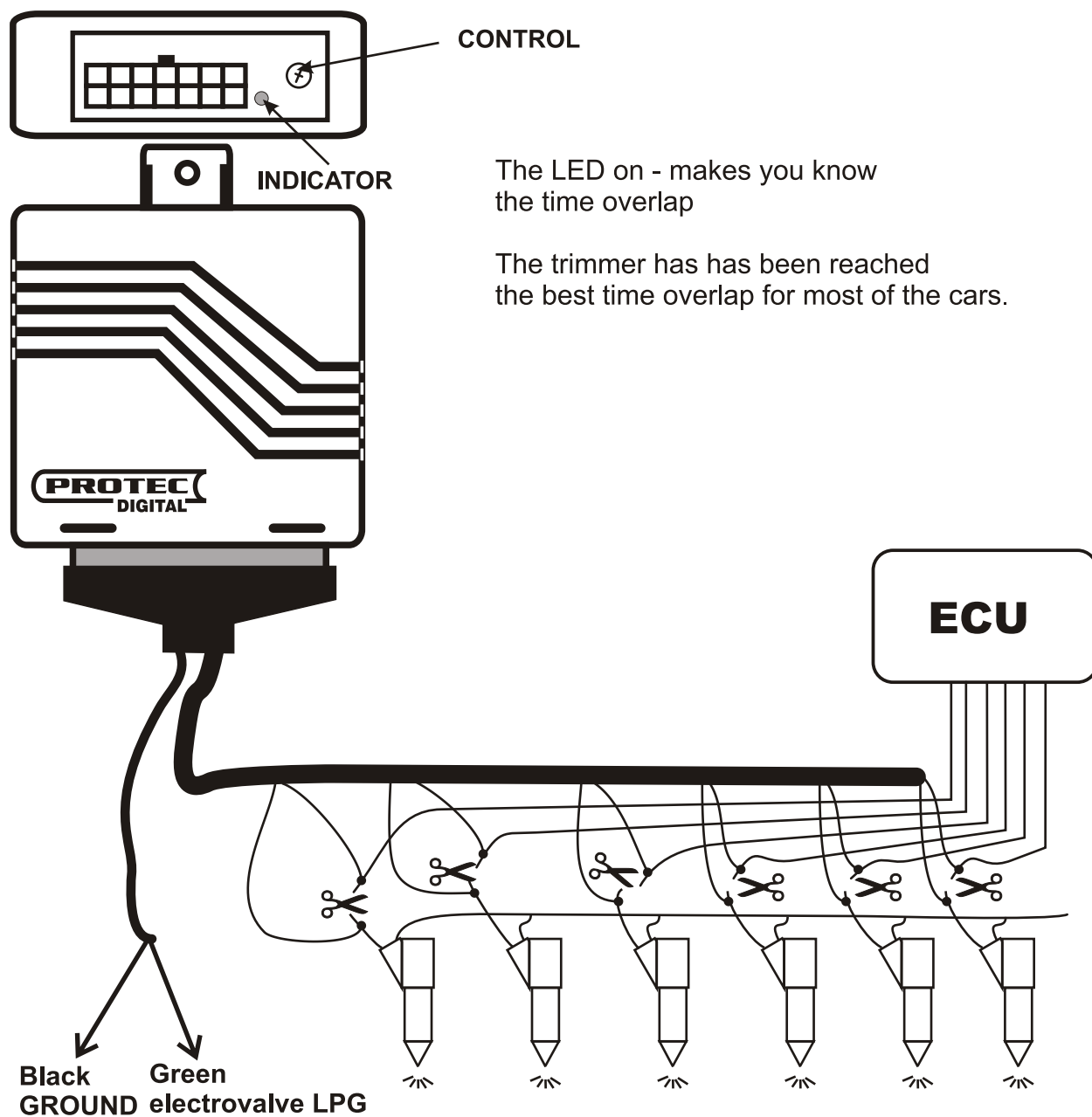


Description : Emulator multipoint injection
max. 6-cyl. (10 - 15 Ω)
Regulation of sovraposition time
wiring system for "cutting"



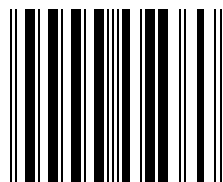
Symbol:
PD-22A

The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 10 untill 15 Ω



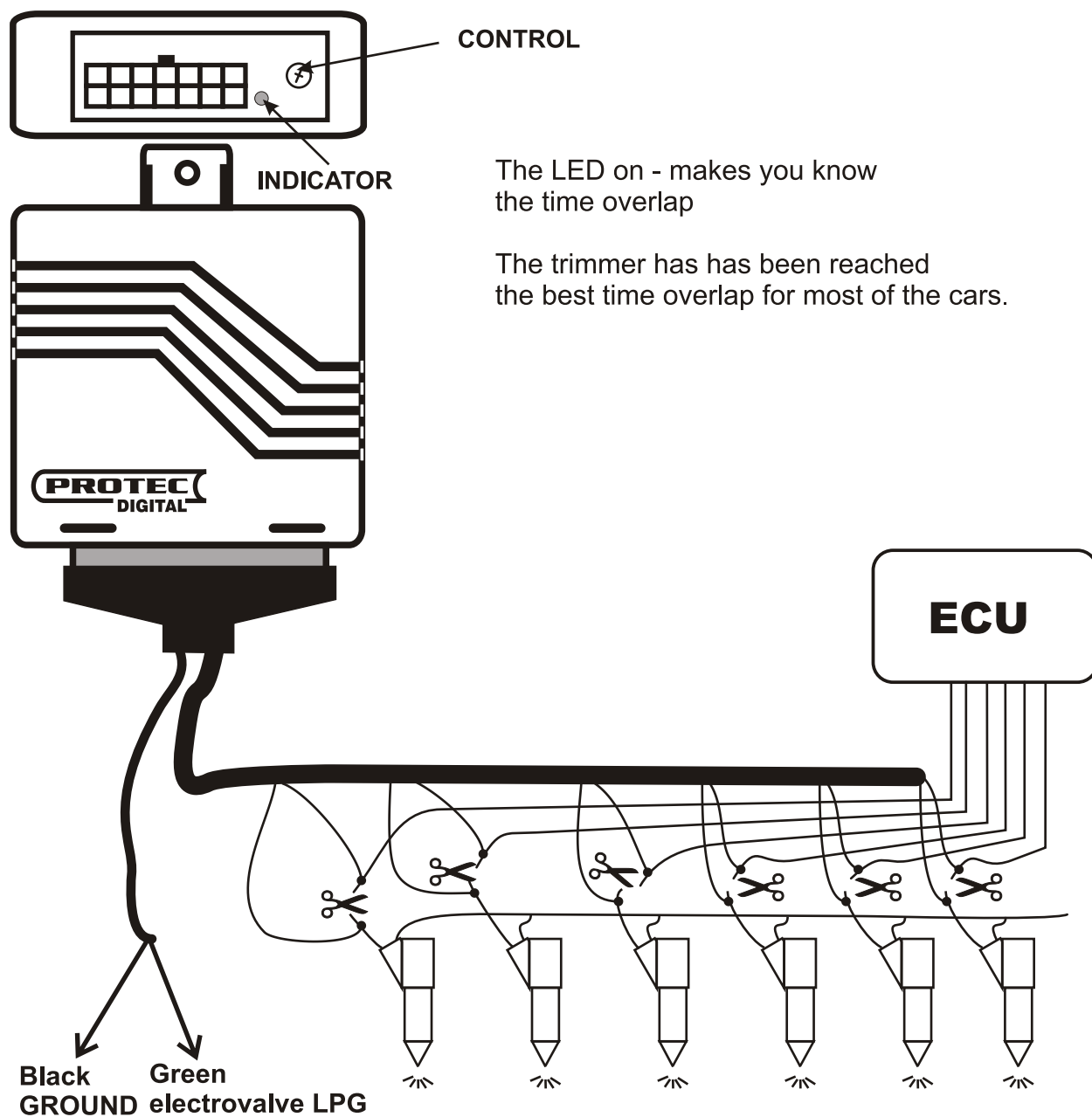


Description : Emulator multipoint injection
max. 6-cyl. (5 - 10 Ω)
Regulation of sovraposition time
wiring system for "cutting"



Symbol :
PD-22AJ

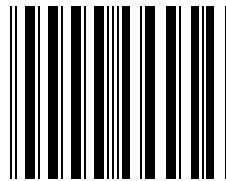
The emulator can be used in all vehicles equipped by multipoint injection.
Regulation trimmer is used to regulation of sovraposition time (GAS / PETROL).
The emulator has to be installed only if injectors resistance is from 5 untill 10 Ω





Description :

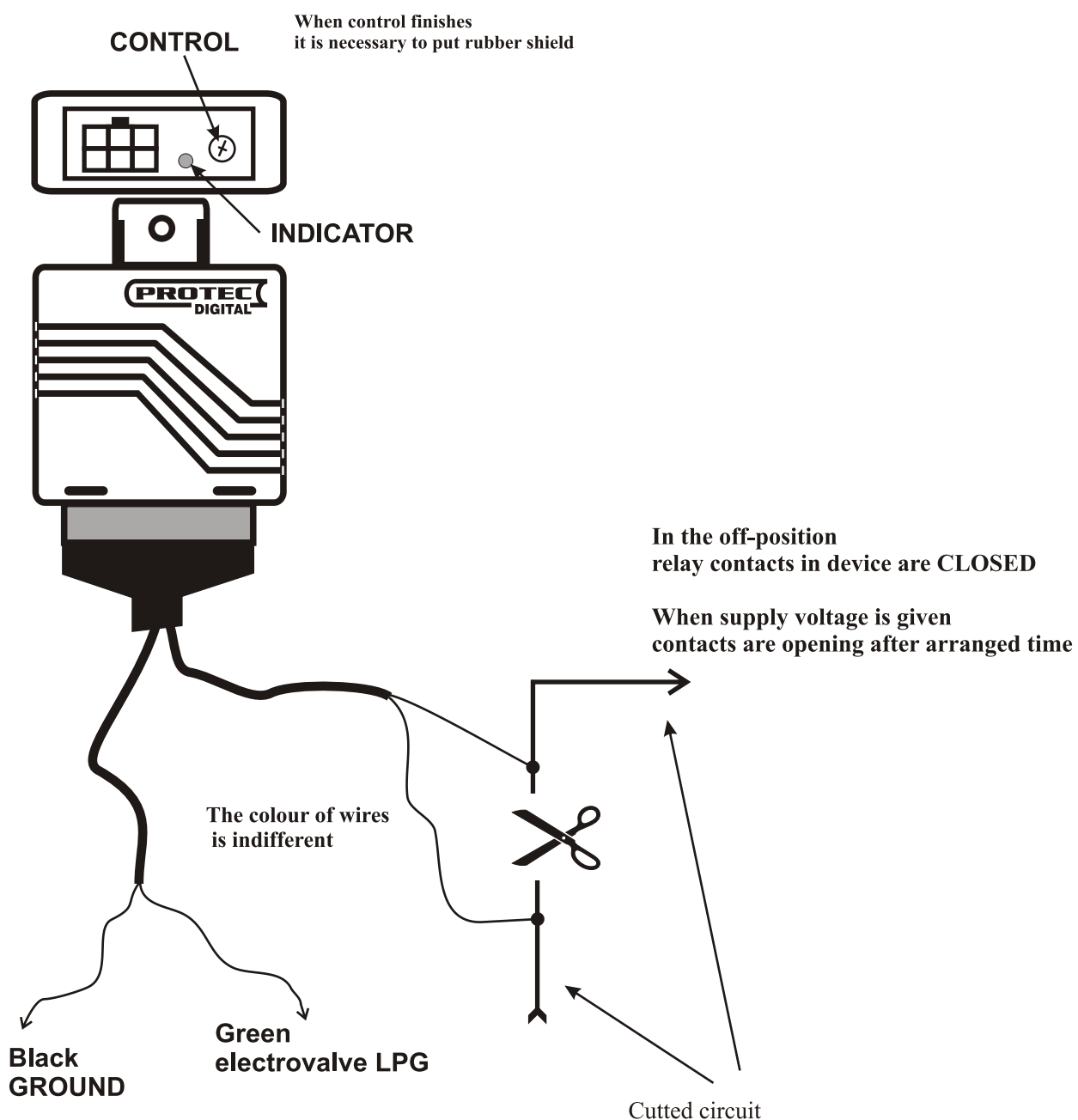
Time relay
Regulation of switching time
Relay loading 10 A



Symbol :

PD-24

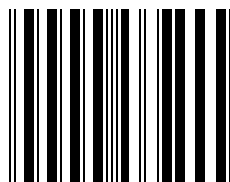
Time relay can be used in any electric circuit.
Maximum relay loading cant be more than 10 A.
Regulation trimmer is used for delay of switching time.





Description :

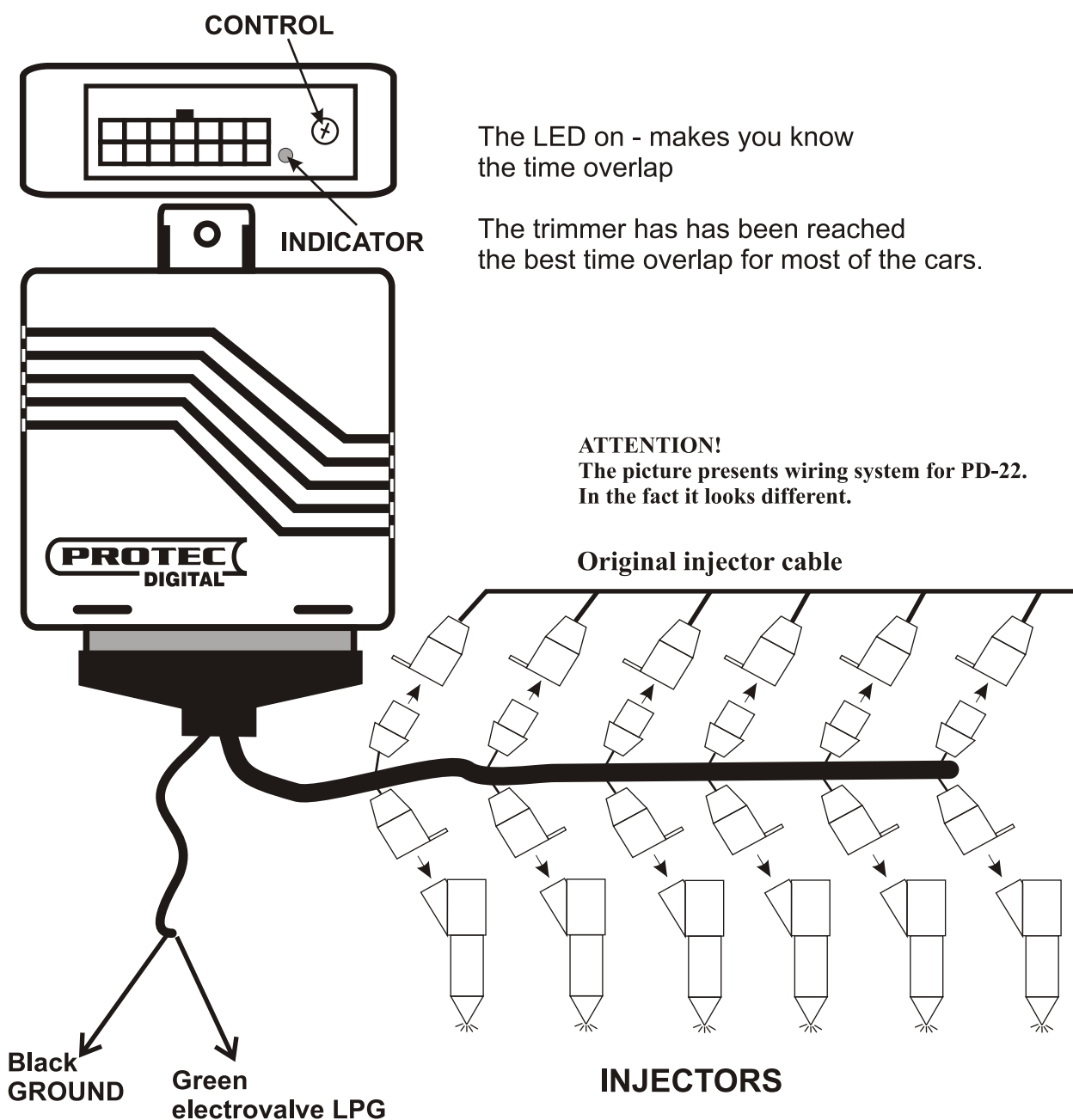
Emulator multipoint injection
max. 8-cyl.(10 - 15 Ω)
Regulation of sovraposition time
wiring system with EUROPA plugs



Symbol :

PD-28

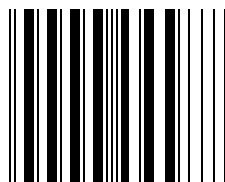
The emulator can be used in all vehicles equipped by multipoint injection.
The emulator has to be installed only if injectors resistance is from 10 untill 15 Ω
Wiring system in emulator type PD-28 consits of two wiring systems type PD-21





Description :

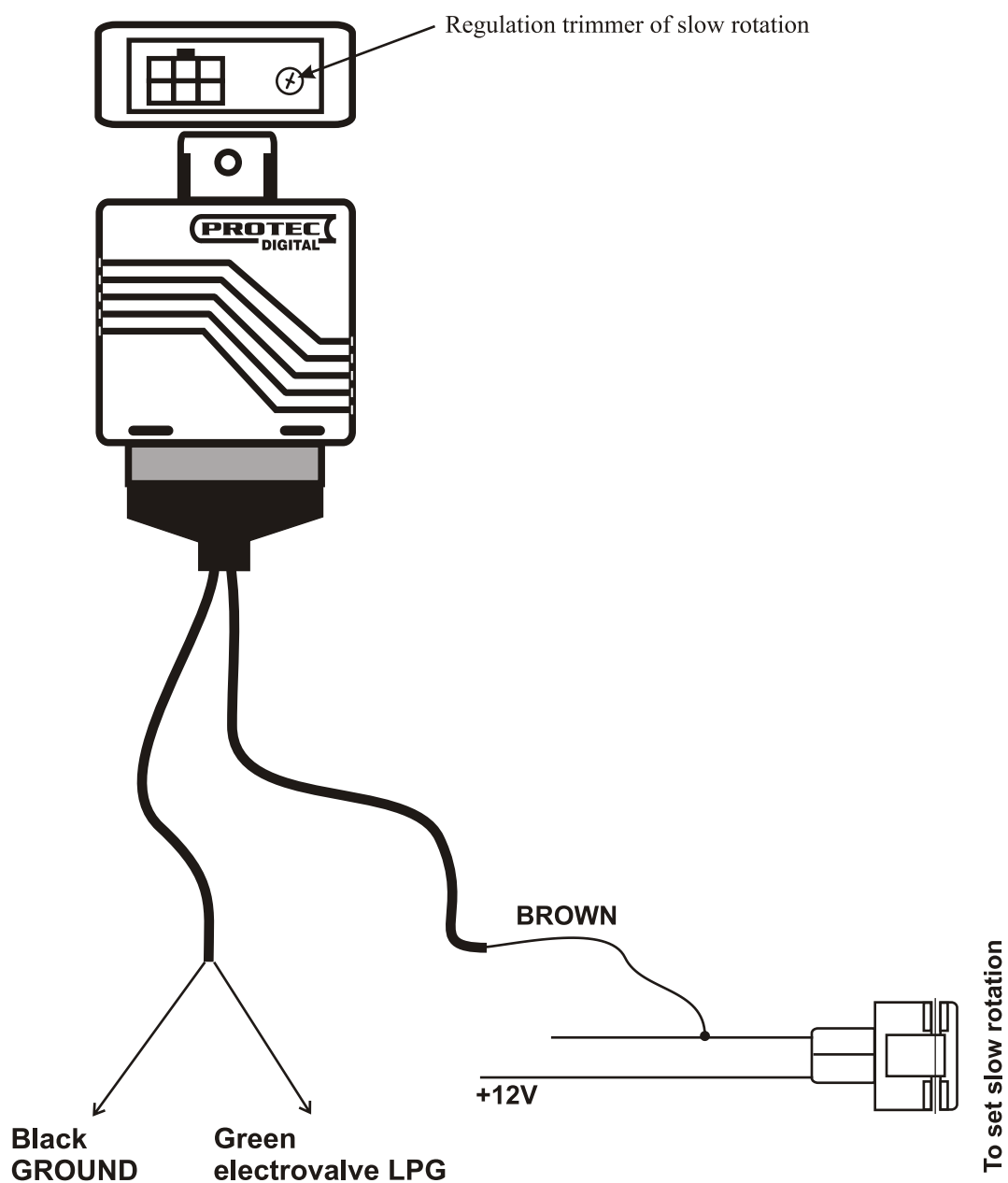
Slow rotation stabilizer
in the V.A.E system



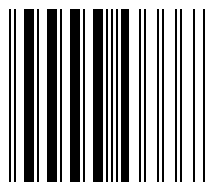
Symbol :

PD-30

Minimum stabilizer can be used in all vehicles equipped in V.A.E system.
Device can not be used with other systems (only like on example below)!!!

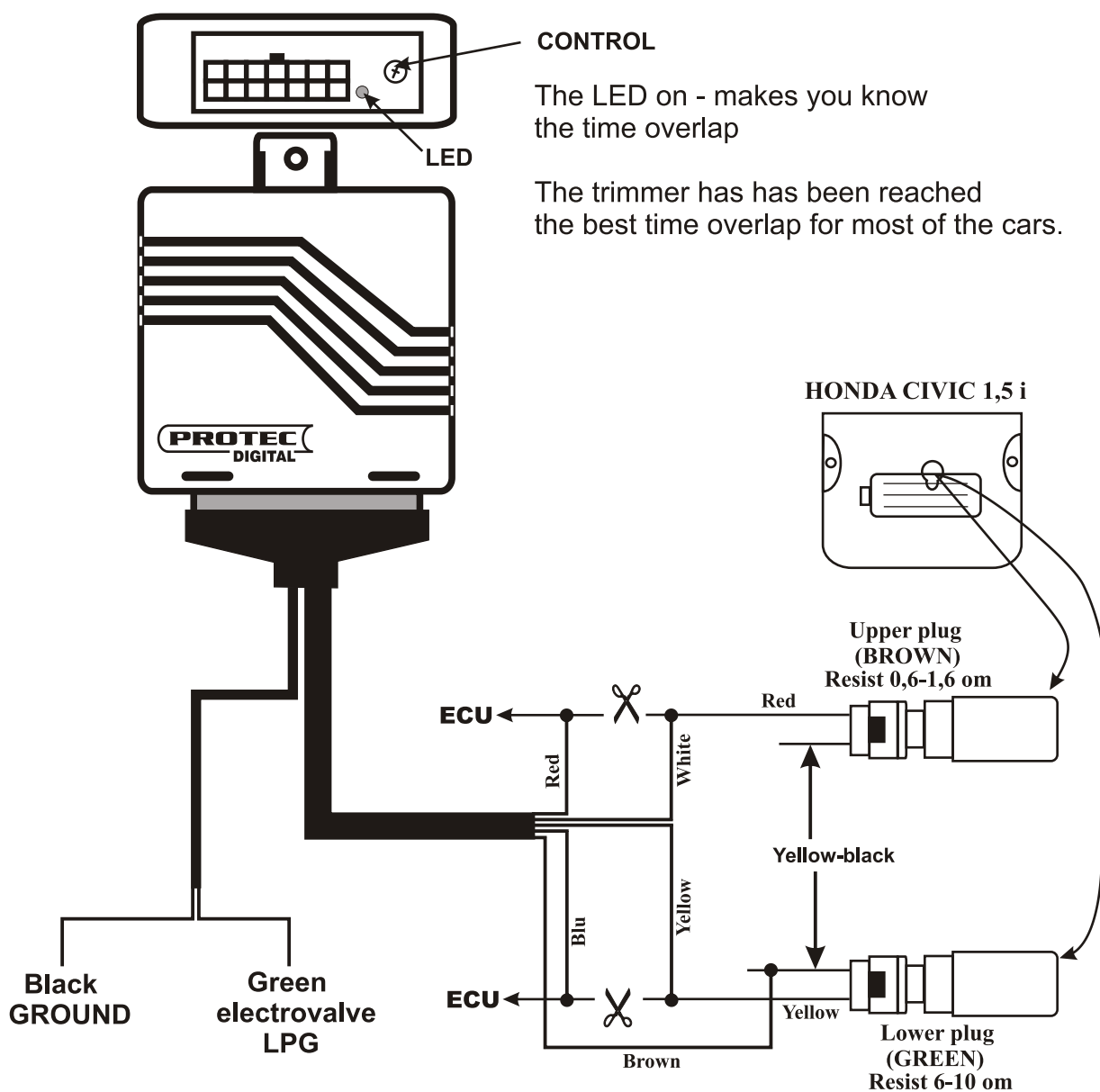


Description : Emulator HONDA CIVIC 1.5i
injection Double injector
Regulation of sovraposition time
wiring system for "cutting"



Symbol :
PD-44

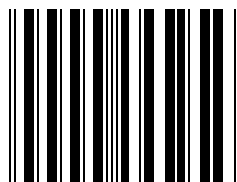
Emulator is designed for HONDA CIVIC 1.5i (BI-INIETTORE) engines.
Regulation trimmer is used for regulation of sovraposition time.





Description :

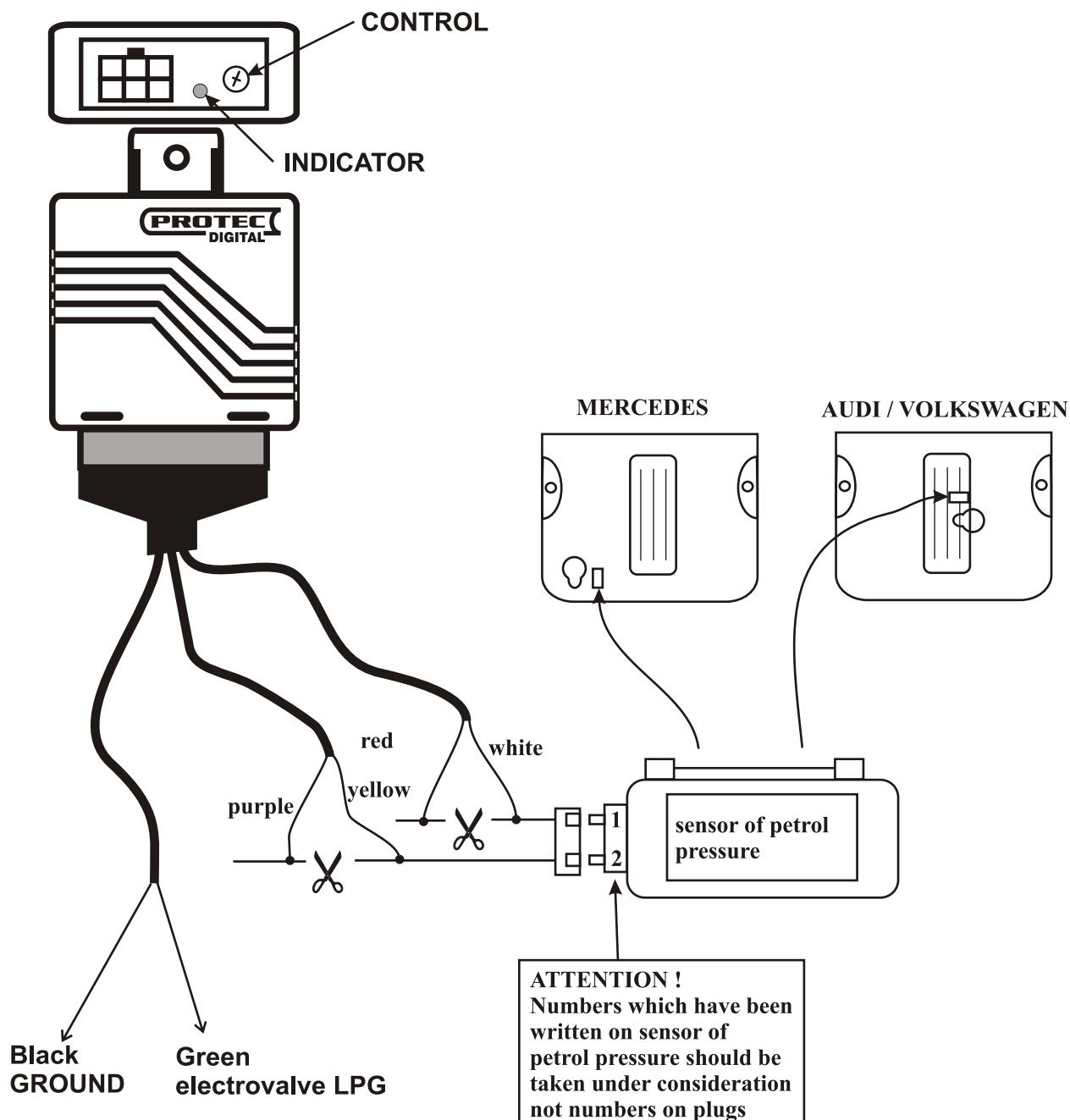
**Emulator KE-JETRONIC
for mechanical injection BOSCH
KE-JETRONIC**



Symbol :

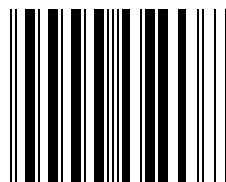
PD-45

Emulator PD-45 is used "to block" petrol injection in all vehicles equipped in BOSCH KE-JETRONIC.



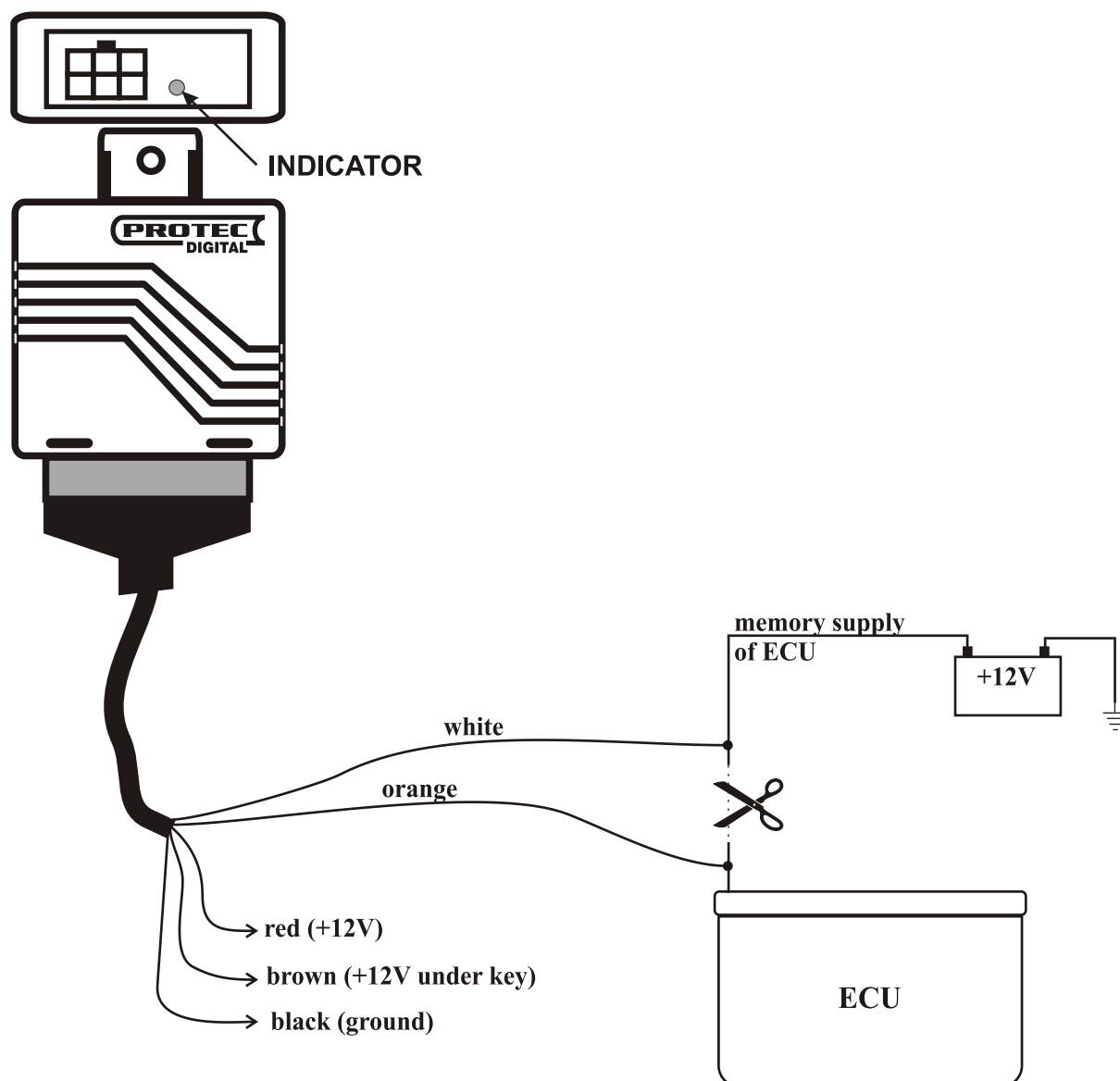


Description :
Time relay for reset ECU



Symbol :
PD-50

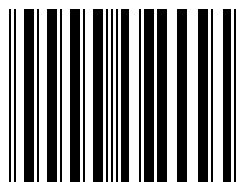
Time relay PD-50 is used for reset ECU





Description :

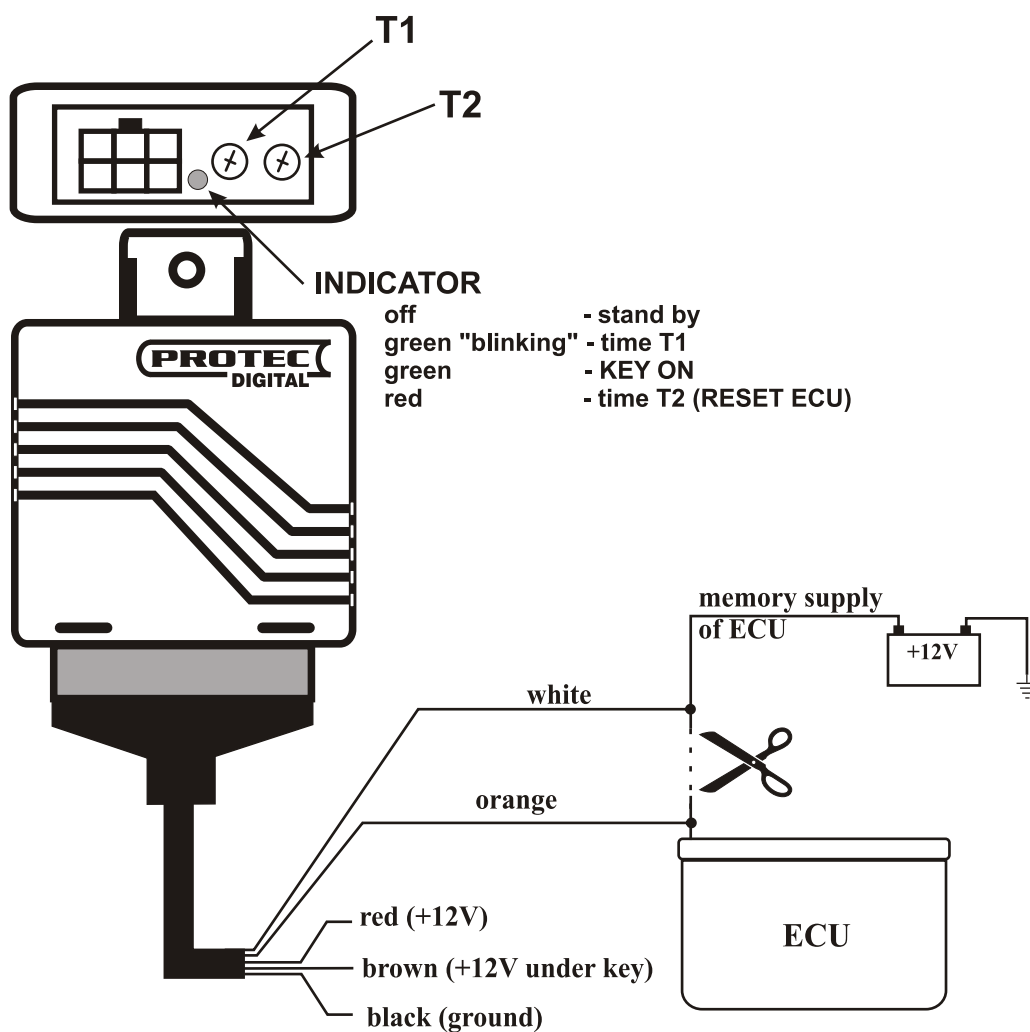
Time relay for reset ECU
complex version
additional time regulations T1,T2



Symbol :

PD-55

Time relay PD-55 is used for reset ECU





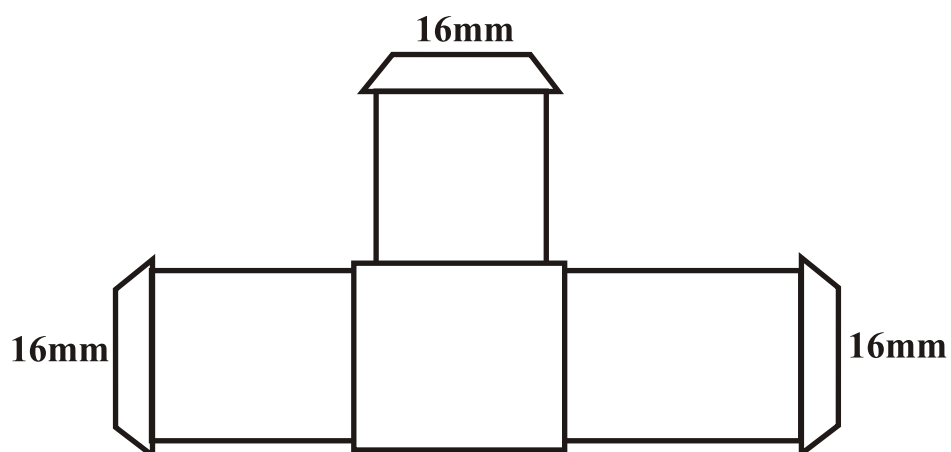
Description :

T-connection 16x16x16 mm

Symbol :

T-1

T-connection is made of from high quality plastics which is resistant to high temperature, oils, greases, cooling agents etc.





Description :

T-connection 19x19x16 mm

Symbol :

T-2

T-connection is made of from high quality plastics which is resistant to high temperature, oils, greases, cooling agents etc.

