



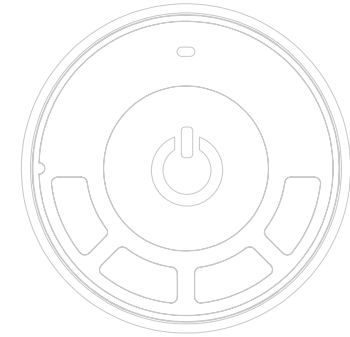
**RELIABLE PRODUCTS :**  
**HIGHEST RESULTS**







- Innovative design and shape
- Built-in microprocessor
- Ability to adjust a color of LED backlight according to RGB
- Integrated buzzer
- Ability to adjust the buzzer loudness
- 3-pin plug connector with no need of soldering wires
- Centrally located connector
- Possibility to fit in the vehicle's dashboard
- Auto-adjusted brightness of the LED backlight according to environment



# RGB SWITCH

the latest generation gas/petrol switch

**The digital RGB switch** allows to choose the fuel on which an engine has to work. It is equipped with LEDs which indicates the gas level in a tank and a so-called buzzer

- the beep indicating such parameters as: The moment of switching fuel / Alert - low gas level in the tank / Alert - no gas in the tank.

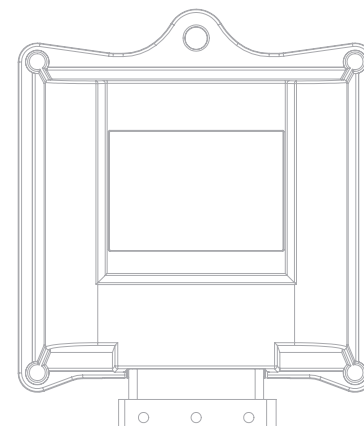


up to 4 cylinders supported

composite casing

24-pin connector

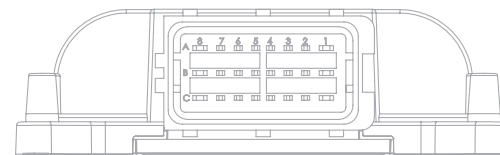
- Fast, simplified installation
- 3 wires, digital control panel
- Semiconductor petrol injectors emulators
- 3D map of fuel injection times
- Precise gas dose calculation based on built-in corrections
- TECH and Standard tuning algorithm
- Self diagnosis of faults and defects
- Full short circuit and overload protection
- Additional corrections of gas temperature, reducer pressure, gas pressure and engine rpm



# TECH ONE

## LPG/CNG injection controller

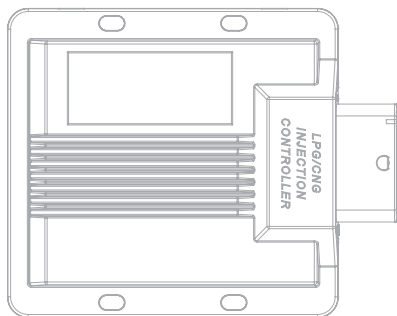
**TECH ONE** is dedicated for the most popular 4-cylinder engines which does not requires the use of gas injection controller that supports the car OBD. Due to a small, compact cover and 24-pin connector the fitting is much easier and faster.





# LPG/CNG INJECTION CONTROLLERS

- TECH-224 - cooperation with external Scanner TECH-OBD
- Precise gas dose calculation based on built-in corrections
- TECH and Standard tuning algorithm
- Self diagnosis of faults and defects
- Full short circuit and overload protection
- Compatible with Valvetronic and Rotary engines
- Additional corrections of gas temperature, reducer pressure, gas pressure and engine rpm



**RELIABLE PRODUCTS** ➤  
➤ **HIGHEST RESULTS**



## TECH-200 SERIES

TECH-204 | TECH-224

**TECH-200** controller series - a modern microprocessor controllers with the 48-pin bundle, for up to 4-cylinders engines. It combines advanced technology with ergonomics. A processor which controls calibration, autotuning and continuous monitoring system is locked in a small body made of tecamid.

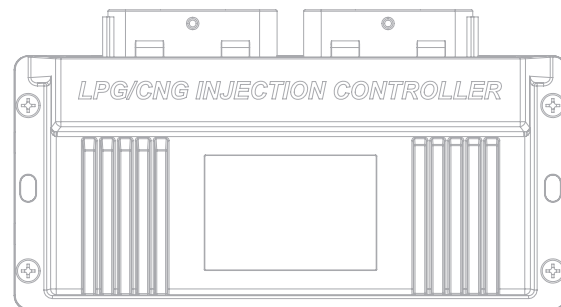
# LPG/CNG INJECTION CONTROLLERS

up to 8 cylinders supported

aluminum casing



56-pin connector

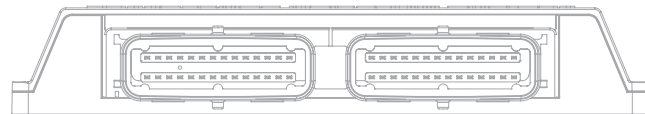


## TECH-320 SERIES

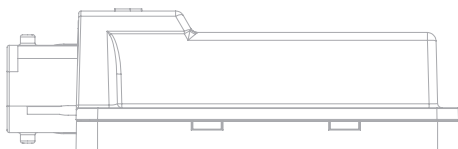
TECH-324 | TECH-326 | TECH-328

**TECH-320** controllers series - a microprocessor controllers with a traditional 56-pin bundle, locked in an aluminum casing. It's designed for up to 8 cylinders engines, depending on the version. It is also possible to connect two controllers simultaneously, allowing to control the gas supply even for 16 cylinders engines.

- Cooperation with external Scanner TECH-OBD
- Precise gas dose calculation based on built-in corrections
- TECH and Standard tuning algorithm
- Self diagnosis of faults and defects
- Full short circuit and overload protection
- Compatible with Valvetronic and Rotary engines
- Additional corrections of gas temperature, reducer pressure, gas pressure and engine rpm







- Automatic, intelligent OBD data trouble codes erasing
- Automatic, real time LPG/CNG injection time correction based on petrol ECU parameters readed via OBD bus
- OBD mapping while driving without PC connection need
- OBD scanner function – OBD parameters, data trouble codes reading and erasing
- Additional corrections of gas temperature, reducer pressure, gas pressure and engine rpm
- TECH and Standard tuning algorithm
- Self diagnosis of faults and defects
- Full short circuit and overload protection
- Compatible with Valvetronic and Rotary engines

up to 8 cylinders supported

aluminum casing

56-pin connector



TECH-324 OBD | TECH-326 OBD | TECH-328 OBD

## TECH-320 OBD SERIES

TECH-320 OBD series provide the same functions and security features as TECH 320 series – ensuring excellent quality and performance. Connection with the vehicles OBD system uses only two wires, regardless of the used protocol. Another advantage is the possibility to use the controller to read, erase diagnostic trouble codes and read all the engine parameters, like using a standard OBD scanner.

After connection with the vehicles OBD system, TECH-320 OBD will pick up and save in table fuel trim values on petrol and gas. OBD adaptation, based on this data, self-adjust mixture composition to reach perfect instalation calibration. This ensure convenient autogas system operation.

**RELIABLE PRODUCTS  
HIGHEST RESULTS**

# LPG/CNG INJECTORS

trouble-free operation even at -40°C

## TECH-YETI

1/2/3/4 cyl. versions available



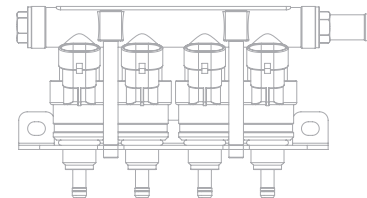
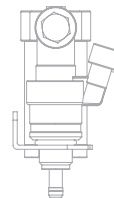
fluoropolymer coating

ALSO AVAILABLE  
**TECH-YETI plus**  
WITH INCREASED FLOW **UP TO 130 l/min**

*RELIABLE PRODUCTS  
HIGHEST RESULTS*

- Fluoropolymer coating
- Coil Resistance 1,9  $\Omega$
- Opening time: <2.0 ms
- Closing time: <1.0 ms
- Max current opening 7 A
- Max hold current: 2.8 A
- Working pressure: 0.2 ÷ 4.2 bar
- Maximum operating pressure: 4.5 bar
- Temperature range: -40 ° to 120 ° C
- Power supply: 10 ÷ 16 V DC
- Max. gas flow: 115 l / min
- It is recommended to use a filter Perfect Blue
- The compact stainless steel casing
- Adjusting the flow through the nozzle calibration

**TECH-YETI** is the latest injector by LPGTECH. As one of few available on the market it has approvals for temperatures to - 40 ° C! The fluoropolymer coating applied in the injector makes it extremely resistant to fuel contamination. Wide configurability of injectors and vertical power supply provides installers with opportunities in terms of selection and arrangement under the hood of a vehicle.





1/2/3/4 cyl. versions available



max. gas flow: 130 l/min

fluoropolymer coating

max. gas flow: 170 l/min

# TECH-DRAGON GOLD



stainless steel casing

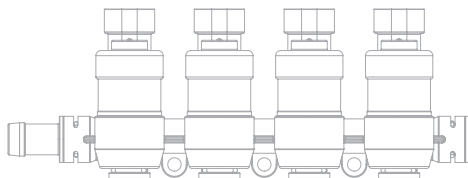
## TECH-DRAGON SILVER

we recommend to use a Perfect Blue filter

**TECH-DRAGON** is an injection rail of LPG/CNG volatile gas phase. It can be easily installed in hard to reach places under the bonnet because of small diameters. Application of fluoropolymer coating prevents the moving injector parts from sticking of contaminants. This allows faultless operation and precise gas dosage. Reduction of friction significantly extends injector lifespan.

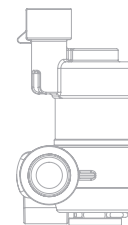
- TECH-DRAGON SILVER**
- Fluoropolymer coating
  - Coil Resistance 2  $\Omega$
  - Opening time: <2.0 ms
  - Closing time: <1.0 ms
  - Max current opening: 7 A
  - Max hold current: 2.8 A
  - Working pressure: 0.2 ÷ 4.2 bar

- TECH-DRAGON SILVER**
- Maximum operating pressure: 4.5 bar
  - Temperature range: -40 ° to 120 ° C
  - Power supply: 10 ÷ 16 V DC
  - Max. gas flow: 130 l / min
  - Operating temperature range: -20 ° C to +140 ° C
  - The compact stainless steel casing
  - Adjusting flow through the nozzle calibration



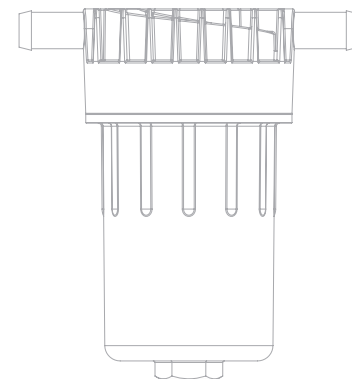
- TECH-DRAGON GOLD**
- Fluoropolymer coating
  - Coil Resistance 2  $\Omega$
  - Opening time: <2.1 ms
  - Closing time: <1.0 ms
  - Max current opening: 7 A
  - Max hold current: 2.8 A
  - Working pressure: 0.2 ÷ 4.2 bar

- TECH-DRAGON GOLD**
- Maximum operating pressure: 4.5 bar
  - Temperature range: -40 ° to 120 ° C
  - Power supply: 10 ÷ 16 V DC
  - Max. gas flow: 170 l / min
  - Operating temperature range: -20 ° C to +140 ° C
  - The compact stainless steel casing
  - Adjusting flow through the nozzle calibration



exchangeable filter insert

99% filtration efficacy

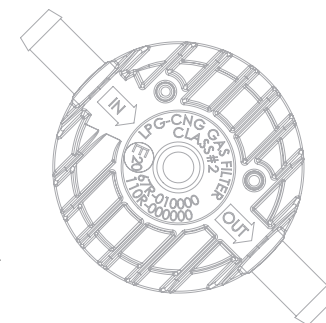


- Exchangeable fiber glass filter insert
- Separation of the particles and liquid fractions
- Protection against injectors oily substances
- Improves the efficiency of the gas supply system
- 99% filtration efficacy for particles of 1 µm
- Max. pressure: 4,5 bars
- Temperature range: -20°C – +120°C
- Gas outlets: Ø 10,6/12 mm
- Dimensions: 120 mm x 110 mm x Ø 68 mm

# PERFECT BLUE

## LPG volatile phase filter with oil fractions separation

The volatile phase filter **Perfect Blue** efficiently separates all the impurities in the gas LPG. Assembly of the Perfect Blue filter effectively protects against oily substances and solid particles increasing the reliability of the whole gas installation.





# THERMOPLASTIC HOSE

perfect replacement for standard copper pipes

- Made from the highest quality materials
- Resistant to substances contained in LPG
- Testing pressure: > 200 bars
- Resistant to mechanical damage
- Resistant to extreme temperature changes
- Perfect replacement for copper pipes
- Available fittings angles: 90°, 180°

The LPGTECH **thermoplastic hose** is a perfect solution for the quick and easy installation. The high quality materials used make it light, flexible and easy to use. It holds the pressure up to 200 bars. LPGTECH hose is a perfect substitute for the difficult to handle and costly copper pipe

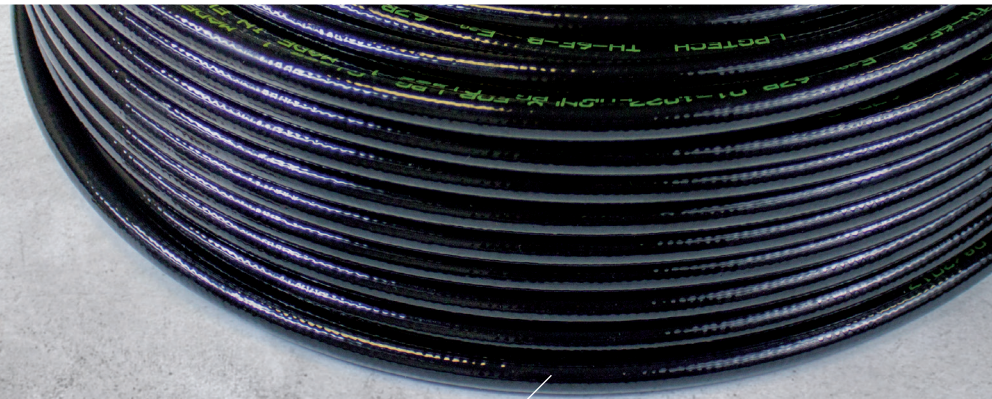
We also offer connecting devices which perfectly fits the hose. This makes the connections secure and leakless. 180 and 90 degrees angle connectors are available

**RELIABLE PRODUCTS &  
HIGHEST RESULTS**

available fittings angles: 90°, 180°



made from the highest quality materials





## TECHConnect

Wireless connection through the WiFi

## OptoTECH

Wired connection through the USB



Wireless connection through the Bluetooth

## BlueTECH<sup>XT</sup>

# COMMUNICATION MODULES

one controller - many ways of connection

### TECHConnect

- WiFi 802.11 b / g / n technology
- Range up to 100 m
- Communication protocol - RS-232
- Cooperation with any computer/tablet/phone with WiFi available
- Cooperation with the application MyGAS

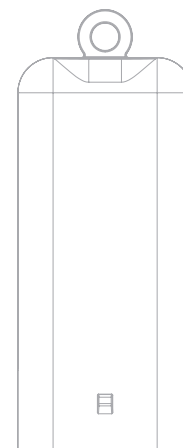
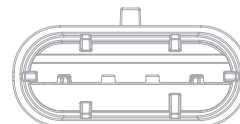


### BlueTECH<sup>XT</sup>

- Bluetooth technology
- Range up to 100 m
- Communication protocol: RS-232
- Class Power – 1
- Cooperation with the application GasDroid
- Cooperation with the application GasSetting

### OptoTECH

- USB / RS-232 TTL interface
- Transmission speed - up to 1Mbps
- Communication protocol: RS-232
- Transmission's LEDs
- Direct cooperation with GasSetting 2.0
- Cable length: 3m, 5m





# Scanner TECH-OBD

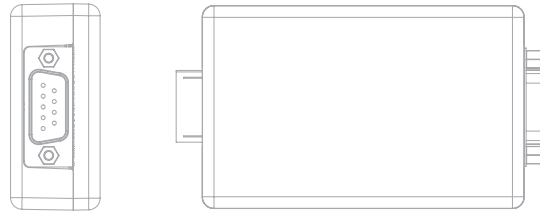
**Scanner TECH-OBD** enables cooperation of the controller TECH controllers with a petrol controller using an OBD diagnostic interface OBD. After connecting to the proper TECH controller and a vehicle diagnosis system, it collects the maps of adjustments value of injection time on petrol and gas.

After turning on the adaptation, the OBD system automatically modifies the composition of the mixture to reduce differences between maps down to zero, which is the vehicle's perfect setting. The device can be used as an independent reader OBD which gives an ability of erasing the errors and read the current parameters made shared by the vehicle's controller.

- Communication to the controller - RS-232
- Cooperation with GASDROID app
- Direct compatibility with TECH controllers
- Can be used as separate OBD reader
- Live data stream read
- Erase fault codes
- Connection via OBD plug or directly the socket wiring
- Connecting cable included
- The service wire to connect as an independent OBD reader (additional option)

## MultiTECH

- TECH-xx6 and TECH-xx8 series controllers supported
- MASTER/SLAVE operating modes
- Supports up to 16 cylinders engines



## SUPPORTED PROTOCOLS

- ISO 15765-4 CAN (11 bit ID, 500 Kbaud); ISO 15765-4 CAN (29 bit ID, 500 Kbaud);
- ISO 15765-4 CAN (11 bit ID, 250 Kbaud); ISO 15765-4 CAN (29 bit ID, 250 Kbaud);
- ISO 14230-4 KWP (fast init, 10.4 Kbaud); ISO 14230-4 KWP (5 baud init, 10.4 Kbaud);
- ISO 9141-2 (5 baud init, 10.4 Kbaud);
- SAE J1850 VPW (10.4 Kbaud); SAE J1850 PWM (41.6 Kbaud);

# Scanner TECH-OBD

allows to use all the abilities of your vehicle's OBD socket



supports up to 16 cylinders engines

## MultiTECH

connects two TECH controllers



independent OBD reader

connecting cable included

## EmuTECH Pb-Level-02

Dedicated for all the vehicles, in which the fuel level indicator falls down while driving on gas and doesn't return to the correct level after re-starting the vehicle. Emulator restores the correct position of petrol level indicator after every car starting.

## EmuTECH Pb-Pressure-02

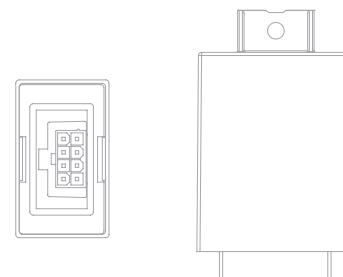
Emulates the correct value of the fuel injection rail pressure, as it would be when running on petrol. The emulator is equipped with a function of controlling the fuel pump, which ensures the constant pressure of the injection rail while driving on gas and ensures trouble-free switching to petrol, no matter under what load the vehicle will operate.

ensures the proper operation of the autogas installation

# TECH EMULATORS

## TECHTronic 2.0

Should be used in vehicles that have no vacuum in the manifold, so the TECH controllers are unable to read the load signal, which does not allow for creating the map of gas injection times. It occurs only in the Valvetronic (BMW) and MultiAir (Fiat) engines. TECHTronic is compatible with both the digital and analog flowmeters. It is fully customizable via the dedicated PC software.



EmuTECH Pb-Level-02

EmuTECH Pb-Pressure-02

TECHTronic 2.0



petrol level emulator



petrol pressure emulator



MAF signal conversion module



# LEAK DETECTOR

foam leak detector

A professional product which enables a fast and precise detection of leaks in various types of gas installations which operates under pressure. It is suitable for all types of gas installations. The product is non-flammable and environmentally neutral. It does not cause corrosion and does not irritate the skin.

- Finds leaks in LPG/CNG installations
- Can be used on metal and plastic surfaces
- No cleaning necessity after usage
- Does not cause corrosion
- Optimal density for leak detection
- Works in any position
- Easy use with long straw
- Environmentally neutral product

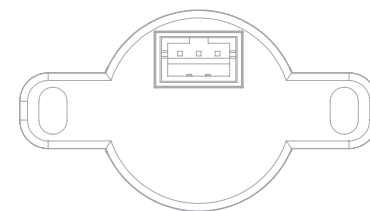
environmentally neutral

works in any position

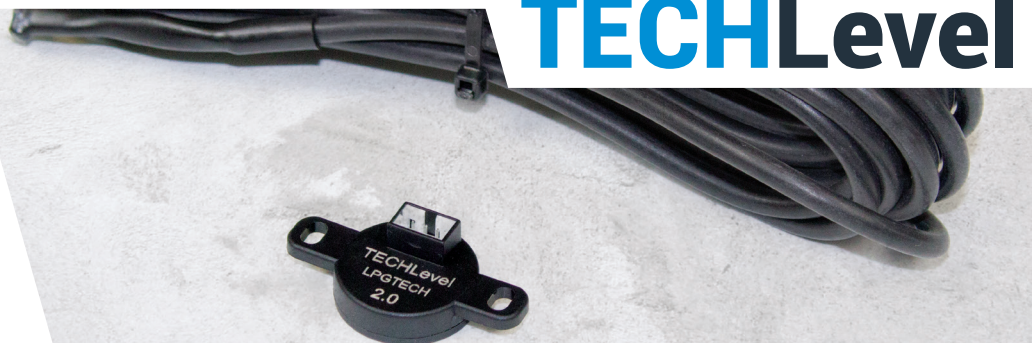


gas level sensor in tank

## TECHLevel 2.0



- No mechanical parts
- Hall effect measure technology
- 12V power supply
- Wiring loom supplied



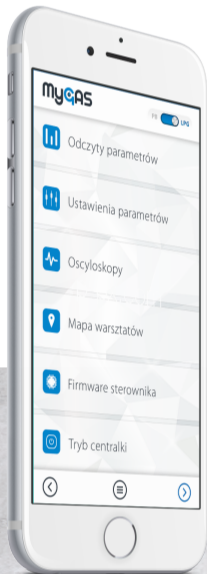
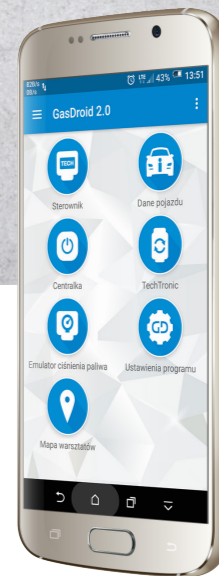
**GasDroid 2.0** is an official version of GasSetting software, which allows the user to calibrate the TECH. It is dedicated for devices with the Android system installed (version 4.03 and later).

GasDroid 2.0 support all the LPGTECH communication modules, which are: BlueTECH, OptoTECH, and the latest one - TECHConnect (for wireless connection through the WiFi. Actual version of the app supports all the TECH controllers, so as the latest company's Gas/Petrol RGB switch. EmuTECH Pb-Pressure-02 will be supported ultimately.



## app dedicated for **Google Android**

- Available for Android from version 4.03
- Compatible with BlueTECH<sup>XT</sup> module
- Quick and easy tuning of LPG/CNG system
  - Intuitive interface
- Simple Mode - for the customer
- Support for over 7900 different mobile devices
  - More than 5,000 installations
- Available for free on Google Play



- Current parameters read
- Oscilloscope display
- Map of the workshops recommended by the LPGTECH company
- Controllers firmware display
- Gas/Petrol switch
- Adjusting the new RGB switch (LED backlight color, buzzer loudness)
- Compatible with TECHConnect module

## app dedicated for **Apple iOS**



**MyGas** is an app, dedicated for iPhone by Apple (5, 5s 6, 6 plus, 6s, 6s plus, 7, 7 plus), which gives the user ability to read the operation parameters of TECH autogas installation.



# calibrate your **TECH** installation

to achieve the highest results

- TECH and Standard tuning algorithm (innovative control algorithm with autocalibration and autoadaptation systems)
- 3D map of fuel injection times
- Corrections of gas temperature, reducer pressure, gas pressure and engine rpm
- Autodiagnosis of faults and defects
- AFR read
- Oscilloscope
- Read the parameters and faults in OBD system of the vehicle
- Erase the OBD faults
- Leak test of the autogas installation



**GasSetting** is an user-friendly and intuitive software, which gives the user ability to calibrate the TECH autogas installation. Automatically performs the calibration and adaptation of an operation parameters to successfully supply the vehicle with the LPG/CNG fuel.

app dedicated for  
**Microsoft Windows**

The biggest challenge for today's automotive industry is the creation of engines that are able to meet the increasingly restrictive emissions standards, passed by legislators. This forces manufacturers to reconcile good performance with decreasing capacity, which so far integrally goes hand in hand with the dynamics of the car. This is possible thanks to the use of modern technologies such as direct fuel injection. Thanks to the possibility of increasing the compression ratio, it was possible to increase the power achieved by the engine by 10% while reducing the amount of fuel consumption by 20%. The direct injection design has brought new challenges to the auto gas industry, because the injectors located in the head can't remain shut down, as is the case with the IV generation installation. LPGTECH is facing new technologies by introducing the LGI SYMBIO system, which is supported by many years of tests on engines with different manufacturers equipment and thousands of kilometers traveled. All our components comply with R67-01 and R83 regulations.

The LGI SYMBIO system, because of the solutions and reduced amount of components, is simple and quick to assemble and service. Access to filters and fuel pumps is easy, so that there is no longer a problem of periodic inspection or repair of installation with a full tank. The work of the gas injection system, regulates the original gasoline controller of the car. This solution reduces the number of components, and provides the ability to adapt the system, to any vehicle, regardless of the type of petrol injector used. This results in shorter assembly time and reduces the risk of failure. The gas is injected in the liquid phase, through the high pressure pump to the original petrol injectors and through them, directly into the combustion chamber.

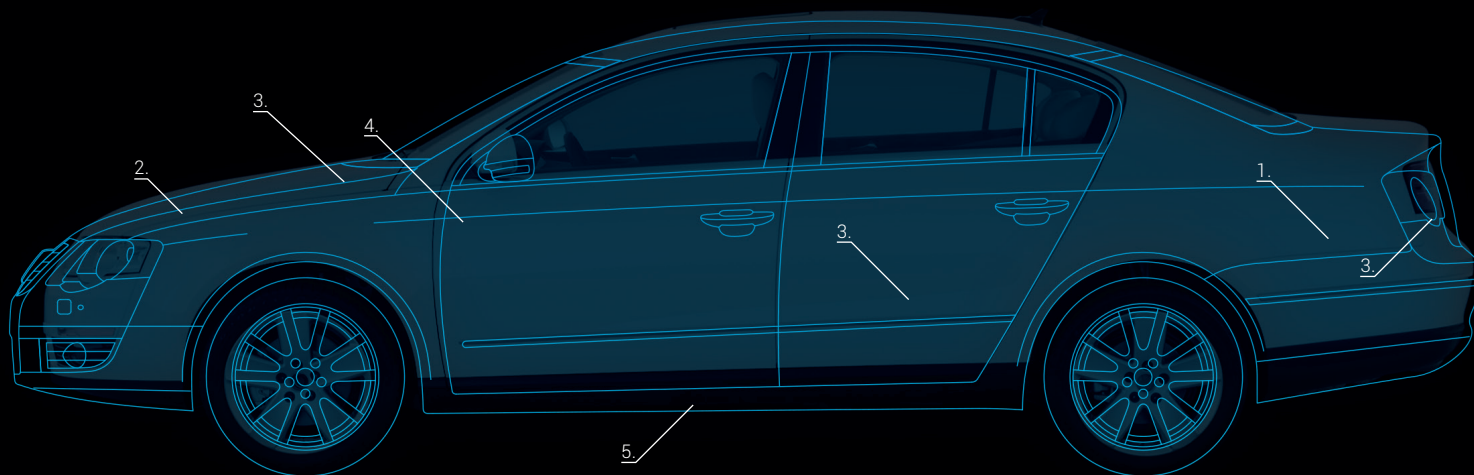
For the replacement of the fuel is responsible the fuel conversion module installed in the gas tank. Thanks to it, the gas is injected through the original gasoline supply system. In the LGI SYMBIO system, the fuel-air mixture is formed in a cylinder, cooling environment the locally up to -40 ° C. The reduced temperature in such a large way, allows for an intercooler effect, so that more oxygen is present in a given volume, which results into improved engine performance.

Thanks to innovative solutions, in the field of control electronics, it is possible to assemble the system and correct its operation, without redefining the settings for the given motor code. The control algorithm and the ECU capabilities, provide an excellent mix selection, so that the emission standard is maintained while operating on the gas.

LIQUID GAS INJECTION SYSTEM  
**SYMBIO**

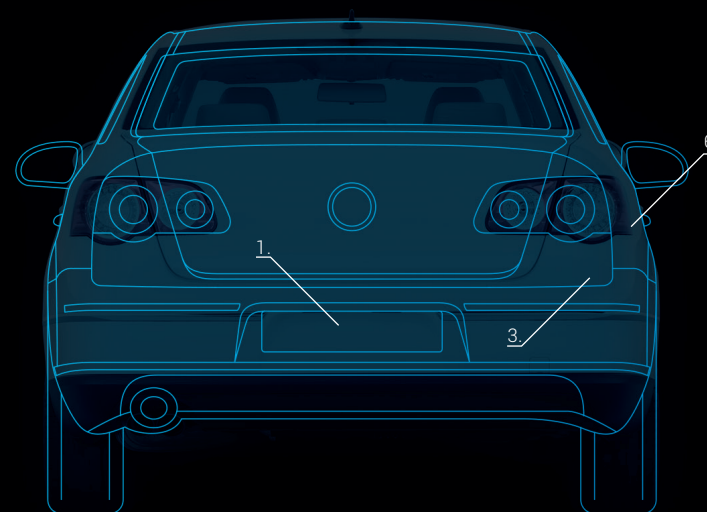






The liveness of the only one low pressure pump in the plant has been increased by its special construction and control method. The system consists of:

1. LPG-fuel tank, designed for operating with liquid injection pump LPG
2. Electro-valves module
3. ECU (multi-component electronic controller)
4. Fuel switch
5. Thermoplastic fuel hoses
6. Refueling valve



**RELIABLE PRODUCTS ;**  
**HIGHEST RESULTS**

**LPG TECH**  
GAS INNOVATIONS

**LPGTECH Sp. z o.o.**  
ul. Dojnowska 67, 15-557 Białystok, Poland  
**[www.lpgtech.com](http://www.lpgtech.com)**