

STAG-4 BOX BASIC



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The unit design based on
a high-performance 32-bit
microprocessor



STAG
autogas systems

New generation controllers



STAG-4 QBOX BASIC is the first of our new-generation controllers for sequential autogas injection in vehicles powered by four-cylinder engines with multiple fuel injection.

The unit design is based on a modern, high-performance 32-bit microprocessor enabling very precise control of autogas feeding, rapid response to varying engine parameters and measurement of petrol injection time.

The hardware platform offers a range of useful functions, including the possibility of change (to) the injection sequence, support for wireless Bluetooth communication and reading of engine rpm on the basis of petrol injection signals. The design allows for the addition of new functions and extensions of the **QBOX** series.

The compact, light and robust housing with its ergonomic arrangement of functional elements allows faster and easier wiring up as well as installation in any position within the engine compartment. The high-quality plastic material used for the housing has been examined as required, with the use of mechanical strength, climatic and thermal shock tests. It demonstrates a high resistance to applied forces and weather conditions. A housing base plate made of stainless steel guarantees a high corrosion resistance and emphasizes the unique look of the housing.



STAG 4 QBOX BASIC is manufactured on the basis of the latest technology and top quality components tested in laboratories at the AC Research and Development Center in line with automotive standards. The ideal selection of components and the innovative 32-bit signal processor for autogas injection control guarantees precise and instant fuel dosage and improve the economics of driving on autogas. **STAG 4 QBOX BASIC** is an optimal solution for modern engines, ensuring their long life, failure-free operation, safety and comfort.

Benefits:

- a light, compact housing with a straight connector, making installation in the engine compartment faster;
- a harness socket location allowing practically any mounting position;
- a hardware platform based on a 32-bit microprocessor dedicated to automotive solutions;
- a wide range of operating temperatures (-40°C, + 125°C);
- hardware solutions for improved protection of data and controller extension options;
- support for wireless Bluetooth communication;
- self-testing capabilities for actuating components;
- rpm reading on the basis of petrol injector signals;
- optional injection sequence modification;
- fault management – freeze frame recording;
- operation with LED-300, LED-300/400 and LED-400 switches;
- components using top quality laboratory tested materials in line with automotive standards.



Conversion kit elements

STAG-4 **QBOX**
BASIC

- STAG-4 QBOX BASIC controller
- wiring harness
- PS-02 pressure sensor
- B/G LED300 switch with buzzer
- gas level indicator
- mounting accessories
- CD with software
- warranty booklet
- wiring diagram



Controller features



Available functions in **STAG-4 QBOX BASIC**:

- autocalibration
- emergency start
- warm start
- handling multiple temperature sensors
- RPM signal filter
- smart pressure handling
- LPG pressure map correction 2D
- correction RPM map injector time
- correction temperature LPG map 2D
- correction reduce temperature map 2D
- LPG/Gasolina map's
- multiplier 2D
- read turnover of the camshaft sensor
- Bluetooth handling
- handling injectors error's
- emergency start's limit
- empty thre pressure
- injectors heating
- type of engine (aspirated, Turbo)
- injection control time
- type of injectors RENIX
- extra-injection trimming
- map view Gasoline/LPG 2D and 3D
- view deviation Gasoline/LPG 2D and 3D

New functions in **STAG-4 QBOX BASIC**:

- executive elements Test
 - solenoid valve and injectors
- car information
- reducer temperaturę correction
- read turnover of fuel injection pulse
- read the temperature inside the controller
- injection sequential change option
- delay filling reducer
- settable operating temperature threshold injector warm
- error Handling - frozen frame
- auto data and instalation save

Functions **STAG-4 QBOX BASIC** in progress:

- gasoline addition
- multiplier fit
- Smart Extra-injection handling (this function solution problem with change of controls in Mazda cars - "Mazda depletion")

STAG-4

For systems equipped with STAG-4 Q-BOX BASIC controller we recommend using the rail and reducer made by AC SA



Rail AC W01 or AC W01 BFC



Reducer AC R01



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