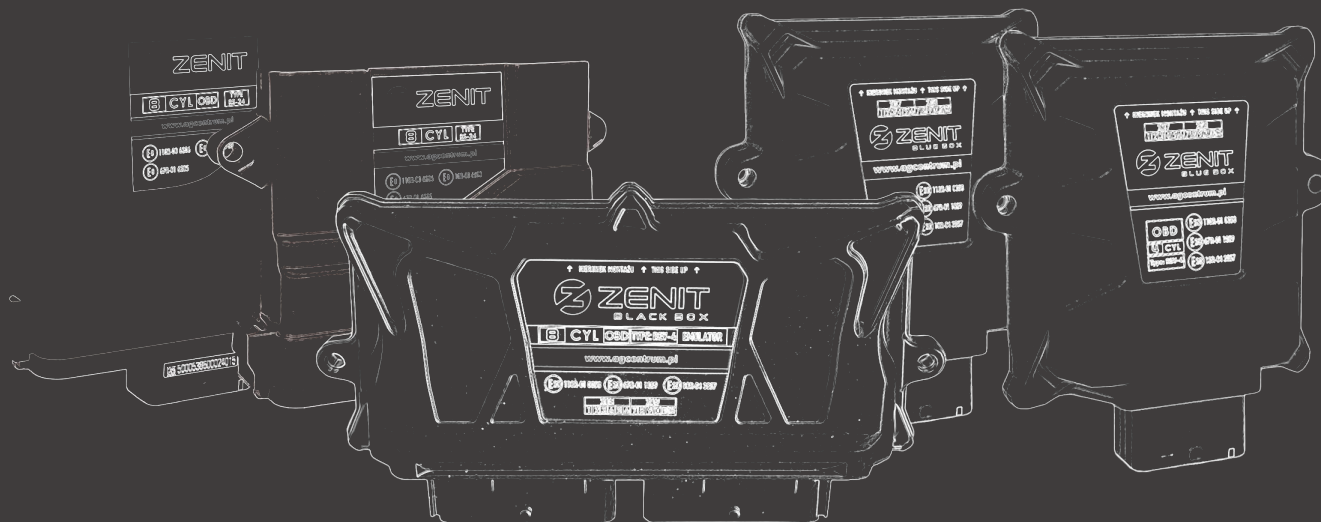


ECU COMPARISON



FUNCTIONALITY AND POSSIBILITIES

ZENIT
BLACK BOX

ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

The maximum number of supported cylinders

4,6,8

4,6,8

4,6,8

4

4

4,6,8

4,6,8

4

Efficient processor with automotive certification



Emulator based on semiconductors



Support for engines with half-sequential injection and full group



Built-in OBD module



FUNCTIONALITY AND POSSIBILITIES

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ZENIT
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ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Built-in fuel level emulator



Possibility to change cylinder assignment, sequence acceleration



Control of external devices



Circuits of solenoid valves



Signal inputs of lambda sensor



FUNCTIONALITY AND POSSIBILITIES

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ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Pressure and gas temperature sensor integrated in the flow



Cooperation with the USB interface



Cooperation with the RS232 interface



Cooperation with the Bluetooth interface



Protection against damage in the case of updating disruption



FUNCTIONALITY AND POSSIBILITIES

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EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

LPG and CNG gas support



Automatic model fitting



Constant switching of selected cylinders to petrol



Correction of the mixture after motor rotation



Compensation at the reducer and gas temperature



FUNCTIONALITY AND POSSIBILITIES

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BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Compensation at gas pressure



Compensation at acceleration



Compensation at supply voltage



Autocalibration



Self-adaptation after petrol
injection times



FUNCTIONALITY AND POSSIBILITIES

ZENIT
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BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Self-adaptation after OBD



Motor rotation reading without the necessity of connecting the RPM cable



Adjustable sensivity of the speed signal



Reading of the camshaft sensor rotation



Support for turbocharged engines



FUNCTIONALITY AND POSSIBILITIES

ZENIT
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BLACK BOX OBD

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BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Automatic heating up of the injectors



Secondary injection filter



Acceleration/deceleration switching



Sequential switching to gas/
return to gasoline



Overlapping of fuels during switching



FUNCTIONALITY AND POSSIBILITIES

ZENIT
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ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Quick start on gas



Control of the switch brightness



Gas pressure control



Support for Valvetronic, Valvematic,
Multiair, Start&Stop technology



Support for full opening
of the petrol injectors



FUNCTIONALITY AND POSSIBILITIES

ZENIT
BLACK BOX

ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Adjusting the gas mixture during full opening



Switching to petrol at specified motor rotations / injection times / load



Smooth secondary petrol injections during gas work



Mazda depletion



Cold VAG



FUNCTIONALITY AND POSSIBILITIES

	ZENIT BLACK BOX	ZENIT BLACK BOX OBD	ZENIT BLACK BOX OBD EMULATOR	ZENIT BLUE BOX	ZENIT BLUE BOX OBD	ZENIT PRO	ZENIT PRO OBD	ZENIT COMPACT
Automatic protocol detection with OBD connection	—	✓	✓	—	✓	—	✓	—
Support for reverse corrections	—	✓	✓	—	✓	—	✓	—
Preview of OBD parameters	—	✓	✓	—	✓	—	✓	—
Automatic erasing of errors in the engine control unit	—	✓	✓	—	✓	—	✓	—
Erasing of the selected codes of errors	—	✓	✓	—	✓	—	✓	—

FUNCTIONALITY AND POSSIBILITIES

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ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Recorder of the work parameters
of the installation



Advanced diagnostics



Frozen frame



Solenoid valve test



Buzzer test



FUNCTIONALITY AND POSSIBILITIES

ZENIT
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ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Test of gas injectors performance



Test of correct connection
of petrol injectors



Work time counters



Service reminder



Credit function



FUNCTIONALITY AND POSSIBILITIES

ZENIT
BLACK BOX

ZENIT
BLACK BOX OBD

ZENIT
BLACK BOX OBD
EMULATOR

ZENIT
BLUE BOX

ZENIT
BLUE BOX OBD

ZENIT
PRO

ZENIT
PRO OBD

ZENIT
COMPACT

Password lock



Call registration



Automatic software update





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