

Instruction Manual

EX504 INJECTOR EMULATOR



GENERAL WARNING



Install in upright position far from any possible infiltration of water.



Install far from any sources of excessive heat (i.e. exhaust manifold).



Install far from the ignition coil and pass the wiring harness far from the high voltage cable.



Make good electrical connection without using a "current tap". Bear in mind that the best connection is duly insulated welding. Never open the processor box for any reason whatsoever, especially with the engine running or the panel switched on.

PLEASE NOTE



When running on gas the emulator blocks and simulates the injectors, while the electric petrol pump stays in operation. It is therefore important there is always petrol in the petrol tank to prevent the pump overheating and getting irreparably damaged.

TECHNICAL SPECIFICATIONS

Emulation for injectors from 11-16 Ohm.

Selection of three different types of emulation possible.

Wiring harness fitted with original connectors having perfect interface. Overlap time adjustment for petrol-gas passage.

It is not necessary to check the injector's polarity as each injector is cut-off and simulated singularly.

The emulator will automatically restore the injector's original connection should the gas electric plant present a failure.

GENERAL DESCRIPTION

Injectors Emulators EX504 is an device that cut-off and simulates injector operation when vehicle is used with gas, thus avoiding ignition of the check engine warning light and possible malfunctions due to injectors cut-off data memorized in the injection electronic control box. This new emulator combines three different types of simulations in one sole product and simulations are selected by means of two switches. This means that Injectors Emulators EX504, by simply combining different types of wiring harness according to different types of connectors fitted to injectors, can be used on the majority of European, American and Japanese vehicles: it simulates, in fact, full-group and sequential injections without distinction.

CONFIGURATION ADJUSTMENT

The Injectors Emulators EX504 has the possibility of selection three emulation types by means of two switches. Configuration of latter must be modified according to the injection type on which it must be installed.

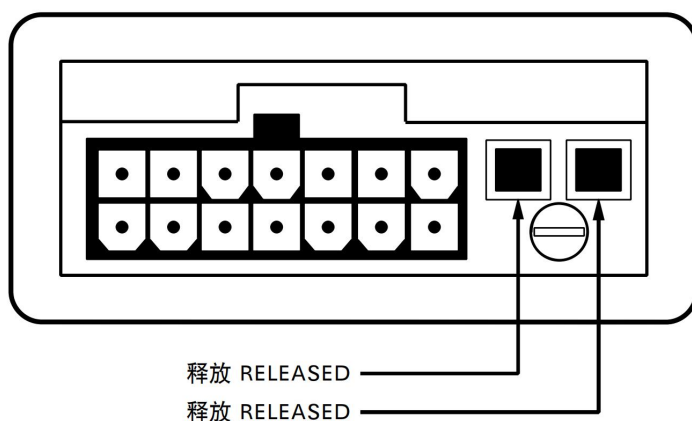
Injectors Emulators EX504 is sold with a standard emulation configuration.

Standard Emulation: recommended for the majority of vehicles with injectors starting from 11-15 Ohm.

Except for: Chrysler, Hyundai, Mitsubishi.

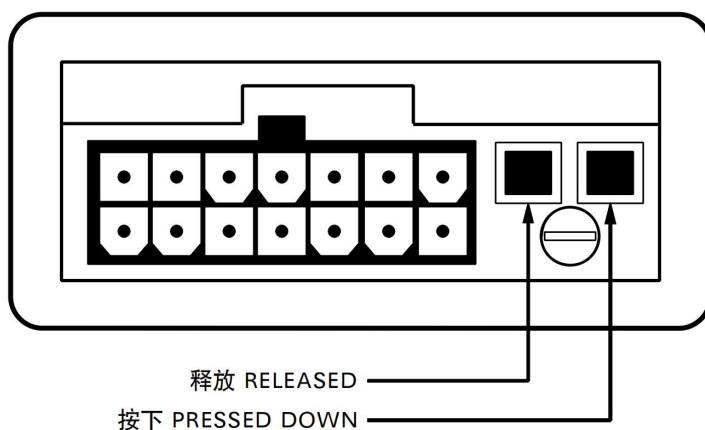
Switches Position: both released

STANDARD EMULATION



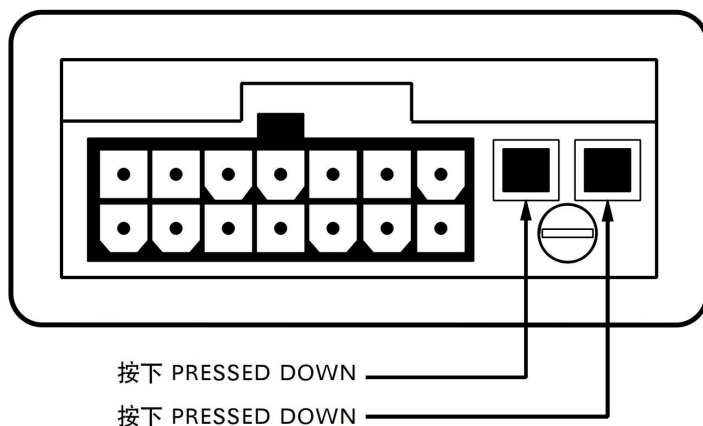
Emulation A recommended for: Chrysler, Hyundai, or on vehicle that when set with a Standard Emulation have check - engine warning light signaling injector error.
Switches Position: one pressed down, one released.

EMULATION A



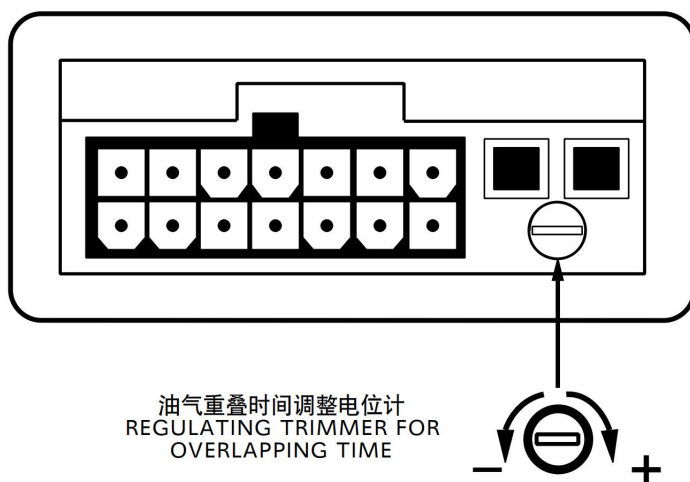
Emulation "B" recommended for: Mitsubishi, or on vehicle that when set with a Emulation "A" have check-engine warning light signaling injector error.
Switches Position: both pressed down.

EMULATION B

**OVERLAPPING TIME ADJUSTMENT**

When switching over from petrol to gas, the emulator does not immediately cut off injector operation; this is order to allow the gas to exit from the reducer and reach induction, thus avoiding feed gaps with consequent backfiring. In this way, during switching over, the two fuels (petrol and gas) will overlap for a time that can be adjusted with a trimmer placed on the emulator's lower side. The trimmer has been set, during the test phase, in such a way as to have an overlapping time that is suitable for the majority of vehicles.

If trimmer is turned towards the left (anti-clockwise sense), overlapping time decreases, if turned towards the right (clockwise sense) overlapping time increases.



CONNECTION DIAGRAM

EX504 四缸油嘴仿真器接线图

EX504/EX504-6 EMULATOR CONNECTION DIAGRAM

