

DPF emulator OPEL DENSO DEC

**engine codes:
Z17DT, Z17DTJ, Z17DTR,
A17DTR, A17DTJ,
Z30DT**

**cars covered:
Astra H, Zafira B,
Astra J - 2008 on
Vectra C – 2006 on**

"Particulate filters" (DPF, FAP), are used on all modern diesel cars starting from 2004. Their task is to reduce diesel engine soot to comply with Euro 4 and Euro 5 standards. According to theory everything is fine. In practice situation is not so good.

In most cases it isn't possible to strictly follow the manufacturer's operating instructions, poor quality fuel in some countries, urban driving on 5th gear at 50 kmh over short distances etc. As a result particulate filter is clogged, different ways of cleaning, washing, forced regeneration helps only for a short time. Filter loses its properties and recovery becomes impossible. ECU switches to emergency mode with the loss of power, opacity check fails. In some words, diesel particulate filter must be replaced with new one.

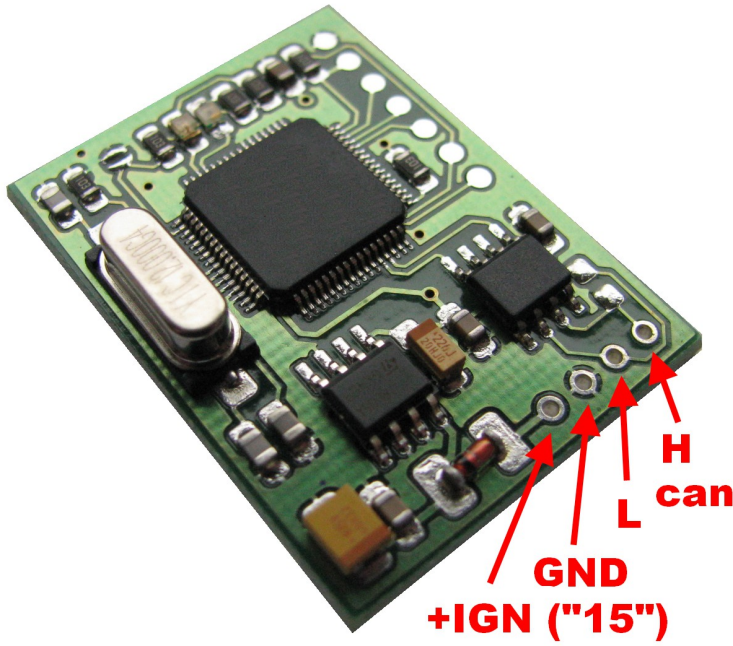
Cost of the new DPF is somewhere between 1000 ... 2000 euros, for most used car owners it is too expensive. Second serious question is a reason of replacement if operating conditions remains the same. There is only one way - to remove the FAP itself and make some modifications in ECU software.

In case of DENSO DEC seems that it isn't possible to remove DPF software from ECU correctly. All known and widely offered solutions are incomplete and causes engine to malfunction. That was a reason why we designed this small thing to make owners of used OPEL cars happy.

Principle of operation: on Opel cars equipped with DENSO DEC regeneration is requested each 200-300 km, depending on the operating mode. Emulator tells ECU that everything is OK with DPF and it doesn't need regeneration each time engine is started. It is possible that on long runs (200, 300 km) ECU asks for regeneration, dashboard will flash "glow plug" indicator. In this case simply restart the vehicle.

Mounting: device must be connected to CAN high speed (engine CAN) and terminal "15" (ignition on). Most comfortable place to attach it is located near UEC (under hood): CAN H: XE3 pin15 (blue wire), CAN L: XE3 pin11 (green wire), "ignition ON" ("15"): XE3 pin22 (black wire). GND – under bolt on the left side member.

Pinout is valid for Astra H and Zafira B.



There are two status LED's mounted on board:

GREEN: lights when board is connected correctly and there is ignition switched on,

YELLOW: lights if data exchange with ECU is ok.

