1982 Exhaust Emission Systems

SAAB DECELERATION FUEL CUT-OFF SYSTEM

900, 900 Turbo

DESCRIPTION

Deceleration fuel cut-off system is used on Man. Trans. models. System disconnects injection of fuel during deceleration. This reduces fuel consumption and HC emissions. System consists of a relay, vacuum valve, air flow sensor plate, by-pass hose, filter and fuse box.

OPERATION

Deceleration system relay is activated when coolant temperature is above 113°F (45°C), relay switch is in rest position and engine speed exceeds 1575 RPM. When throttle switch closes, system will operate until engine speed decreases to 1375 RPM.

During system operation, flow of air, which normally passes air flow sensor plate, is led through a hose and a vacuum valve by-passing mixture control unit. This results in air flow sensor plate not lifting which cuts off fuel to cylinders.

Fig. 1: Saab Deceleration Fuel Cut-Off System

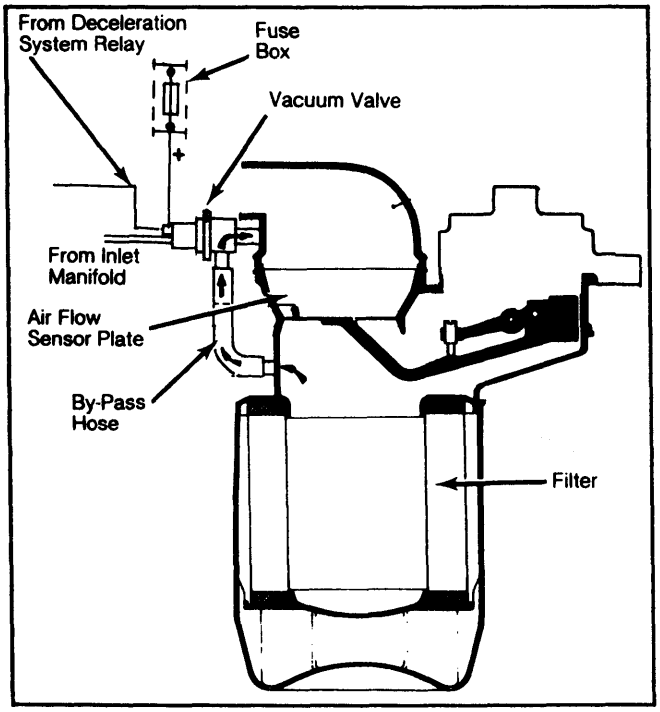
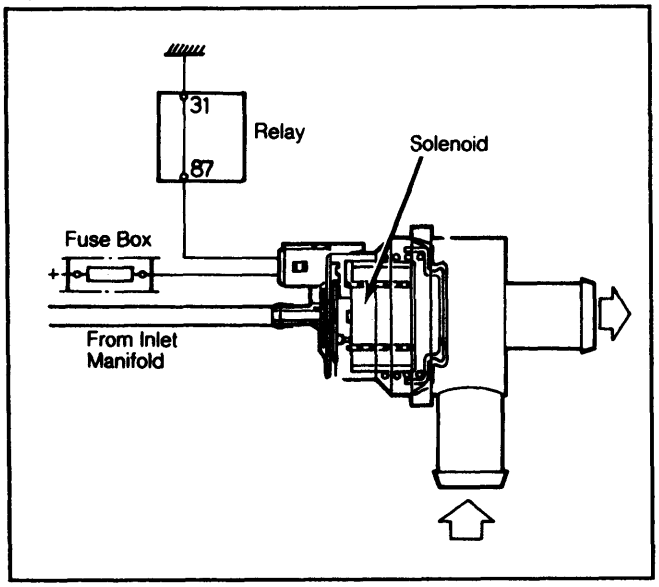


Fig. 2: Cutaway View of Vacuum Valve



TESTING

1) Connect Bosch test meter (KDJE 7453) to 2-pole test socket located near relay holder. Start engine and run at idle speed. Disconnect electrical connection from vacuum valve.

2) Using probe, check that there is 12 volts beteen connector and ground. Increase engine speed to 2000 RPM. Suddenly release accelerator.

3) Using hand, feel if vacuum valve is operating. Check that Lambda system assumes a fixed pulse relation (60%) until system cuts out at 1375 RPM.