

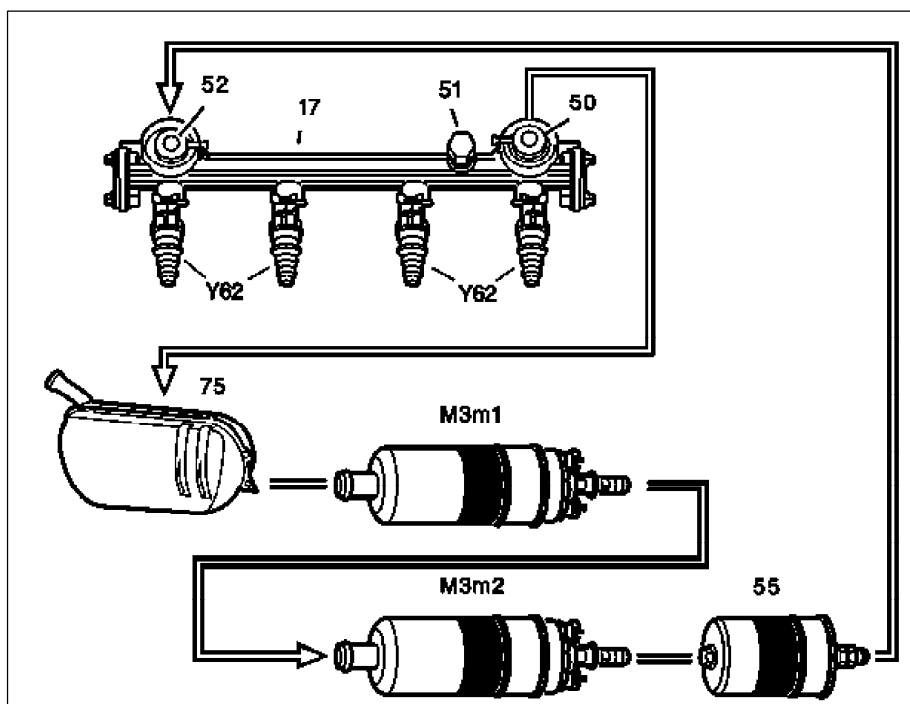
ENGINE 111.940 in MODEL 124.079

17	Fuel rail
50	Diaphragm pressure regulator
51	Pressure measuring connection
52	Diaphragm pressure damper
55	Fuel filter
75	Fuel tank

M3	m1 Fuel pump 1
M3	m2 Fuel pump 2

Task

- Making available an adequate quantity of filtered fuel from the fuel tank at an adequate pressure (injection pressure) to the fuel injectors (Y62) for injection in all operating conditions.



P07.52-0014-06

Function

When engine is running, the fuel is suctioned by the fuel pump 1 (M3m1) out of the fuel tank (75) and delivered to the fuel pump 2 (M3m2). This one delivers the fuel through the fuel filter (55) to the fuel injectors (Y62) connected to the fuel distribution tube (17). The diaphragm pressure damper (52) mounted at the inflow of the fuel distribution tube (17) takes up the pressure points caused by injection of the fuel injection valves (Y62) in pairs. The fuel pressure (injection pressure) is controlled by the diaphragm pressure regulator (50) in line with the intake manifold pressure. Excess delivered fuel flows back unpressurized from the diaphragm pressure regulator (50) to the fuel tank (75). As a result of this circulation relatively cool fuel is always available for injection (avoids the formation of vapor bubbles).

The fuel injection valves, actuated in pairs by the PEC control unit (N3/6), spray the finely atomized fuel into the intake port. Y62 Through the location of the fuel pumps (M3m1, M3m2) (connected with each other in series) each fuel pump produces half the fuel pressure (injection pressure).

	Fuel pump location/task/design/function		GF47.20-P-4003AA
	Fuel pump relay position/task/design/ function		GF07.52-P-1008A
	Fuel filter location/task/design/function		GF47.20-P-4004A
	PEC fuel rail, location/task/design		GF07.52-P-1006A
	Diaphragm pressure regulator location/design/function		GF07.17-P-4107A
	Diaphragm pressure damper location/task/design/function		GF07.52-P-1009A
	Fuel injector, location/task/design/function		GF07.03-P-5004A