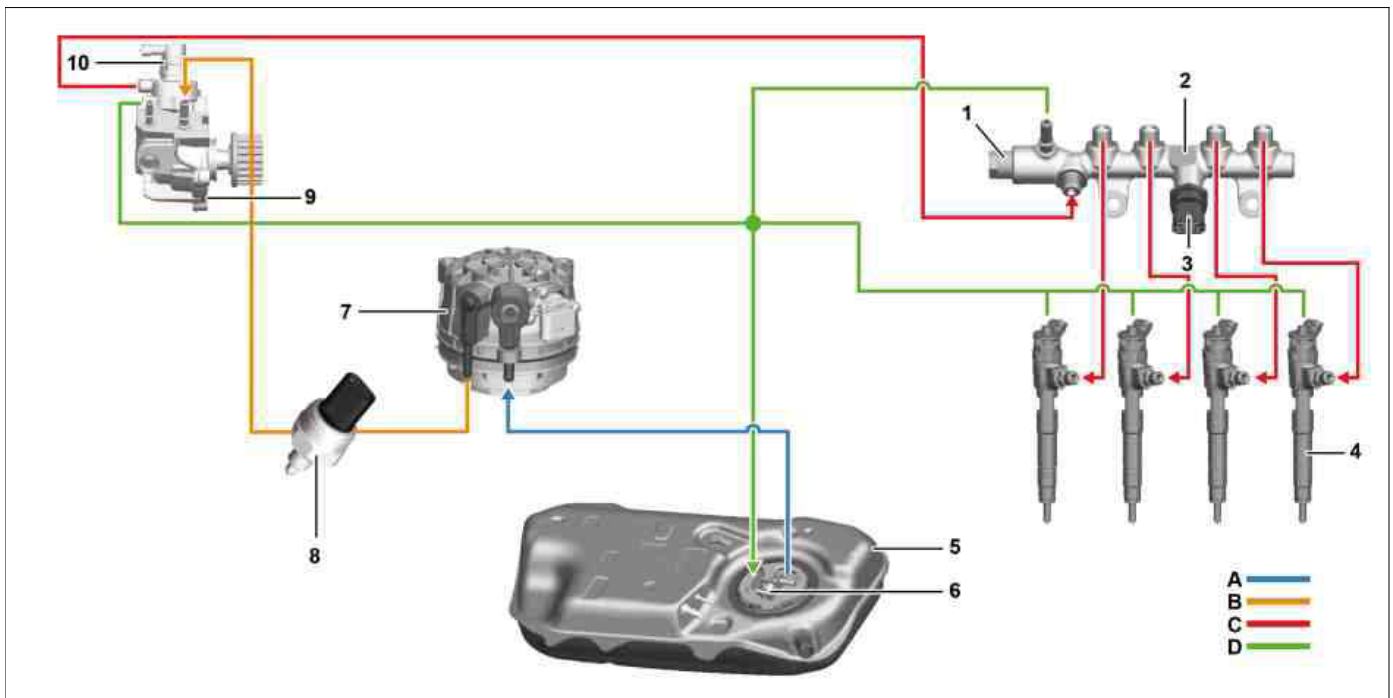


Model all (CAR)



P47.00-2271-79

Schematic diagram (low- and high-pressure fuel pump), engine 608

- | | | | |
|---|---------------------------------------|----|--|
| 1 | Pressure limiting valve | 8 | Fuel pressure and temperature sensor |
| 2 | Fuel distributor | 9 | Fuel system high pressure pump |
| 3 | Fuel distributor fuel pressure sensor | 10 | Quantity control valve |
| 4 | Fuel injector | A | Fuel feed line for fuel filter module (low-pressure line) |
| 5 | Fuel tank | B | Fuel feed line for high-pressure fuel pump (low-pressure line) |
| 6 | Fuel feed module | C | Fuel high-pressure lines |
| 7 | Fuel filter module | D | Fuel return lines |

Overview

This document contains information on:

- General
- Function requirements
- Function

General

The fuel system provides the combustion engine with fuel in all operating ranges by means of the fuel supply system and mixture formation system.

Function requirements

- Engine management ON (terminal 87M)
- Ignition ON (circuit 15)

Function

The fuel system comprises the fuel supply system (low-pressure fuel circuit) and mixture formation system (high-pressure fuel circuit).

The fuel supply system pumps the fuel from the fuel tank to the high-pressure fuel pump.

The mixture formation system comprises the high-pressure fuel circuit and injection control system. The mixture formation system compresses the fuel via the high-pressure fuel pump, stores the fuel pressure in the fuel distributor and, depending on the operating condition, supplies the fuel to the fuel injectors. The fuel injectors inject as much fuel as is needed directly into the combustion chamber, where the optimum fuel-air mixture can then be formed.

Key components of the fuel supply (low-pressure fuel circuit):

- Fuel tank
- Fuel feed module
- Fuel filter module (diesel engines)
- Fuel pump control unit
- Fuel preheating control unit (diesel engines)
- Fuel pressure and temperature sensor

Key components of the mixture formation system (high-pressure fuel circuit):

- Fuel system high pressure pump
- Fuel distributor
- Fuel injectors
- Fuel distributor fuel pressure sensor
- Quantity control valve
- Pressure limiting valve
- Fuel high-pressure lines

	Mixture formation, basic function	Engine all (CAR)	GF07.00-P-1000A
	Fuel supply, basic function	Engine all (CAR)	GF47.00-P-1003A
	Collection of gases when refueling, basic function	Engine 260, 282	GF47.10-P-1002A
	Fuel preheating, basic function	Engine 608	GF47.21-P-1000A
	Purging, basic function	Engine 260, 282	GF47.30-P-1000A