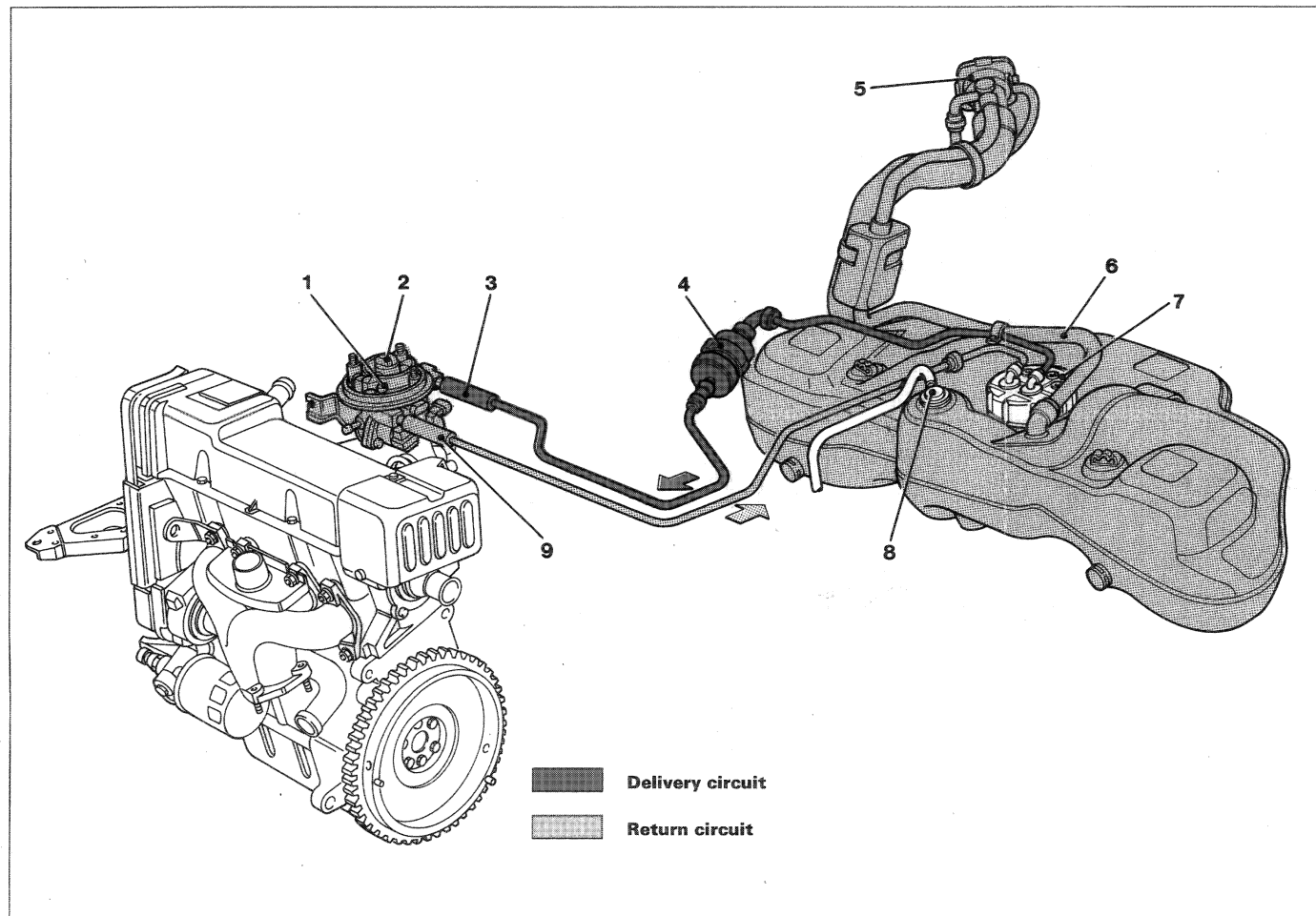


PUNTO eMANUAL

Engines

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FUEL SYSTEM OPERATING DIAGRAM

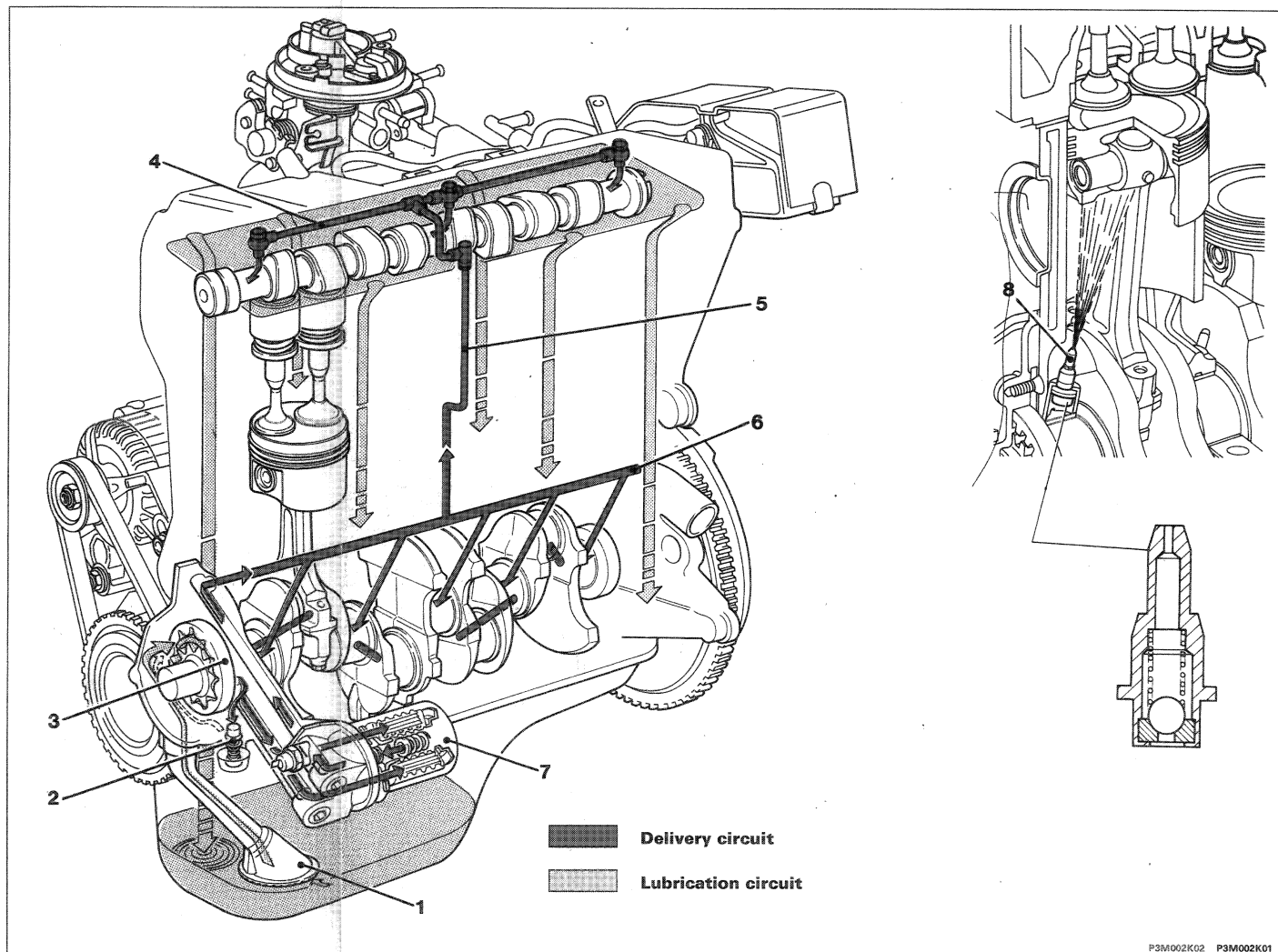


P3M001K02 P3M001K01

- 1 Injector turret
- 2 Injector
- 3 Fuel outlet line
- 4 Fuel filter
- 5 Fuel filler fitting
- 6 Tank ventilation pipe
- 7 Pump submerged in tank
- 8 Tank ventilation valve
- 9 Fuel return lines to tank

10.

LUBRICATION SYSTEM OPERATING DIAGRAM

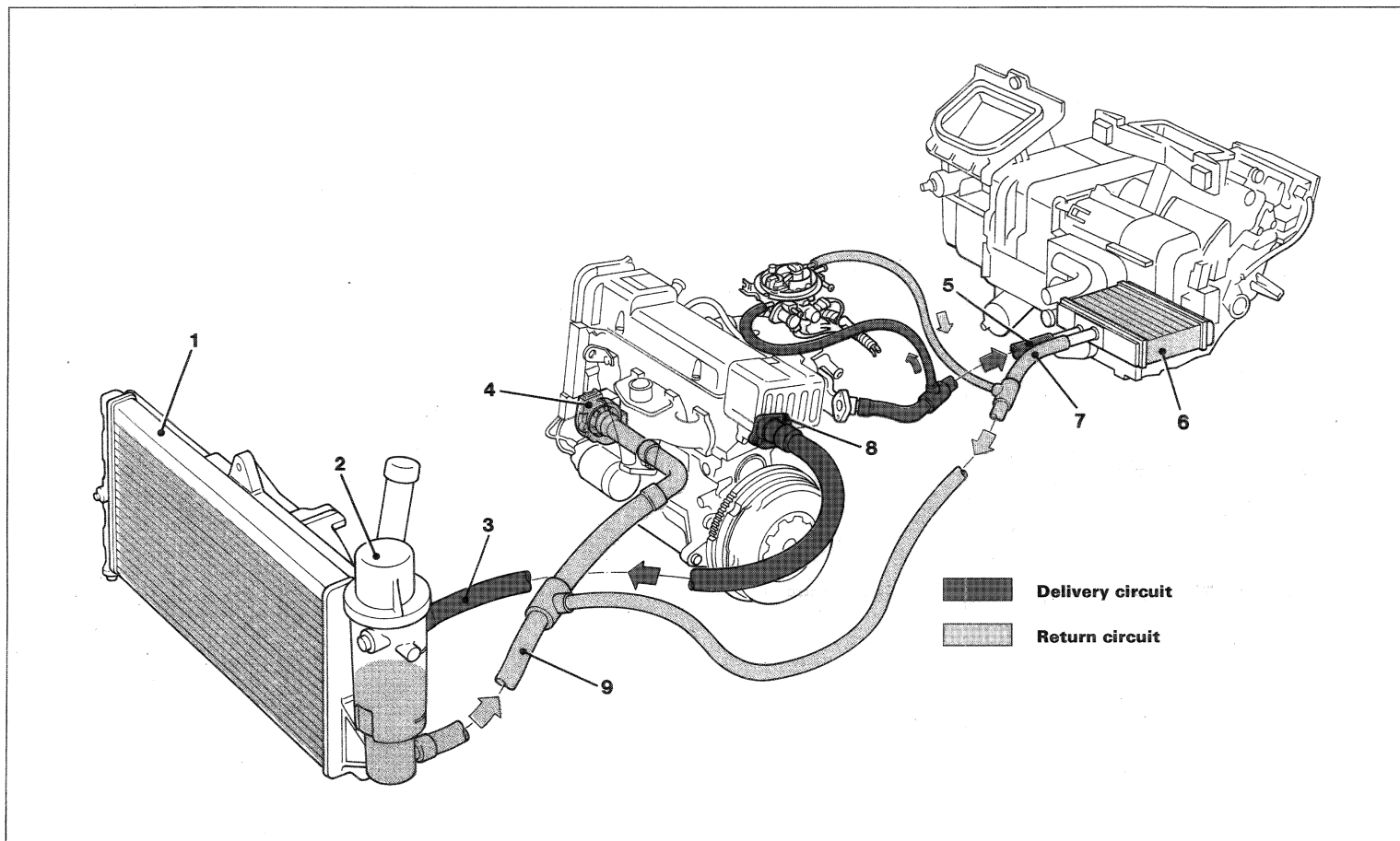


1. Suction head with filter mesh
2. Oil pressure relief valve
3. Gear-type oil pump
4. Camshaft mount lubrication line
5. Main pressure oil delivery line to cylinder head

6. Main delivery duct for oil under pressure to the various components
7. Full-flow cartridge oil filter with safety by-pass valve for clogged filter
8. Oil sprays for piston cooling (*)

(*) Piston oil sprays contain a ball valve that opens at a pressure of 1.1 bar. Replace spray in the case of inefficient operation.

COOLING SYSTEM OPERATING DIAGRAM

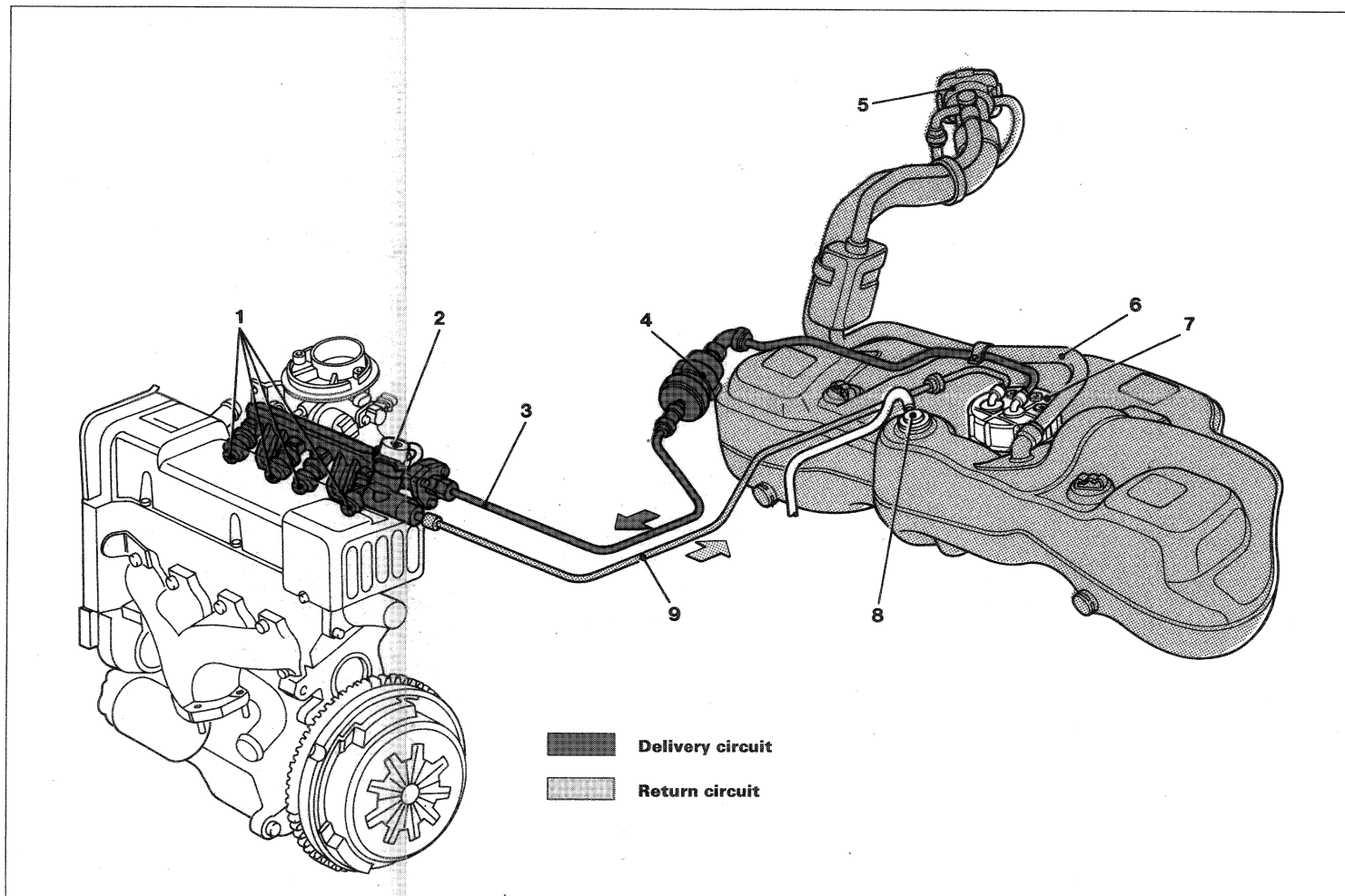


P3M003K02 P3M003K01

1. Coolant radiator
2. Expansion tank
3. Line carrying coolant from thermostat to coolant radiator
4. Coolant pump
5. Line carrying coolant from engine to passenger compartment heater-radiator
6. Passenger compartment heater radiator
7. Line carrying coolant from heating radiator to coolant pump
8. Coolant by-pass thermostat
9. Line carrying coolant from expansion tank to coolant pump

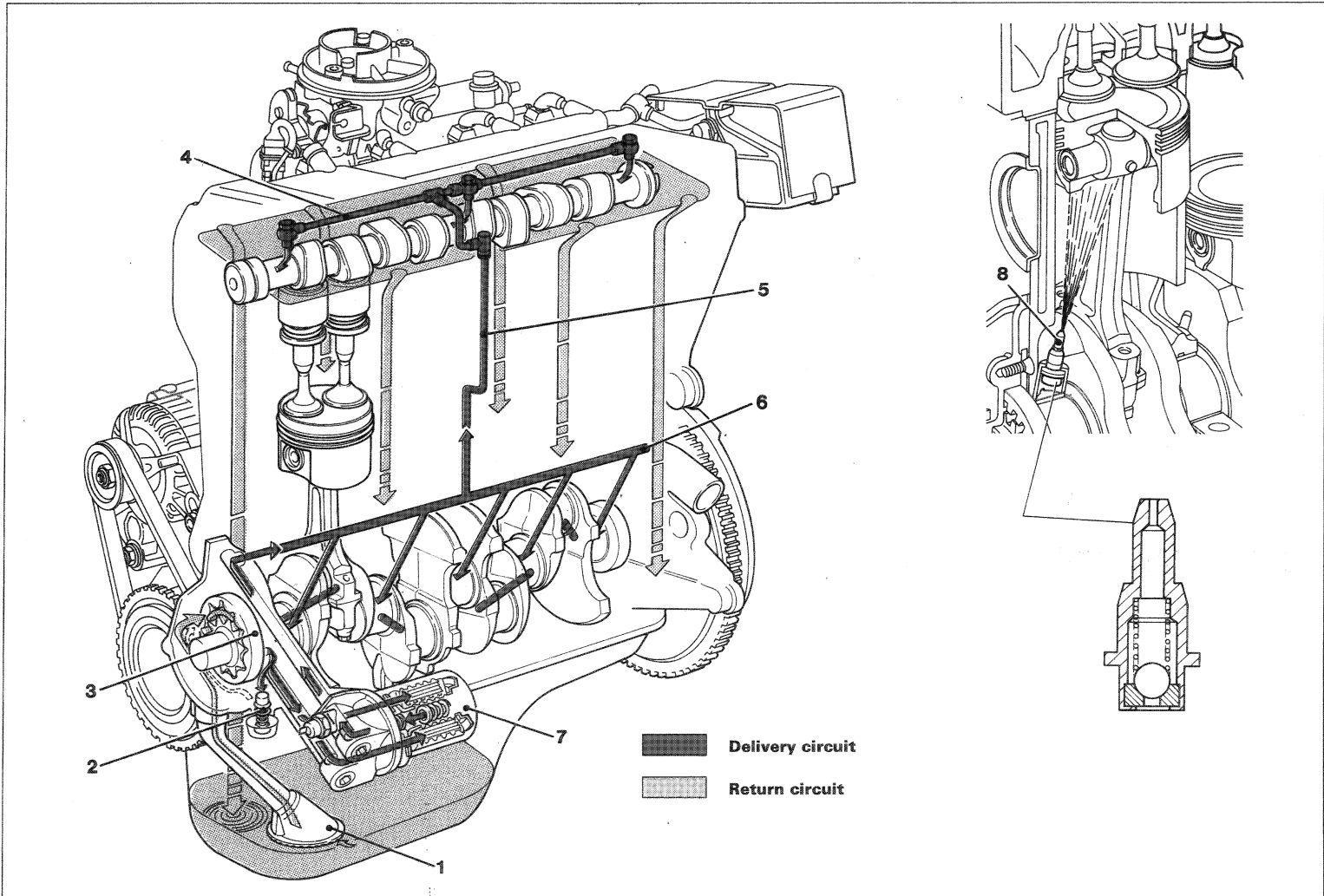
10.

FUEL SYSTEM OPERATING DIAGRAM



P3M064K02 P3M004K01

LUBRICATION SYSTEM OPERATING DIAGRAM



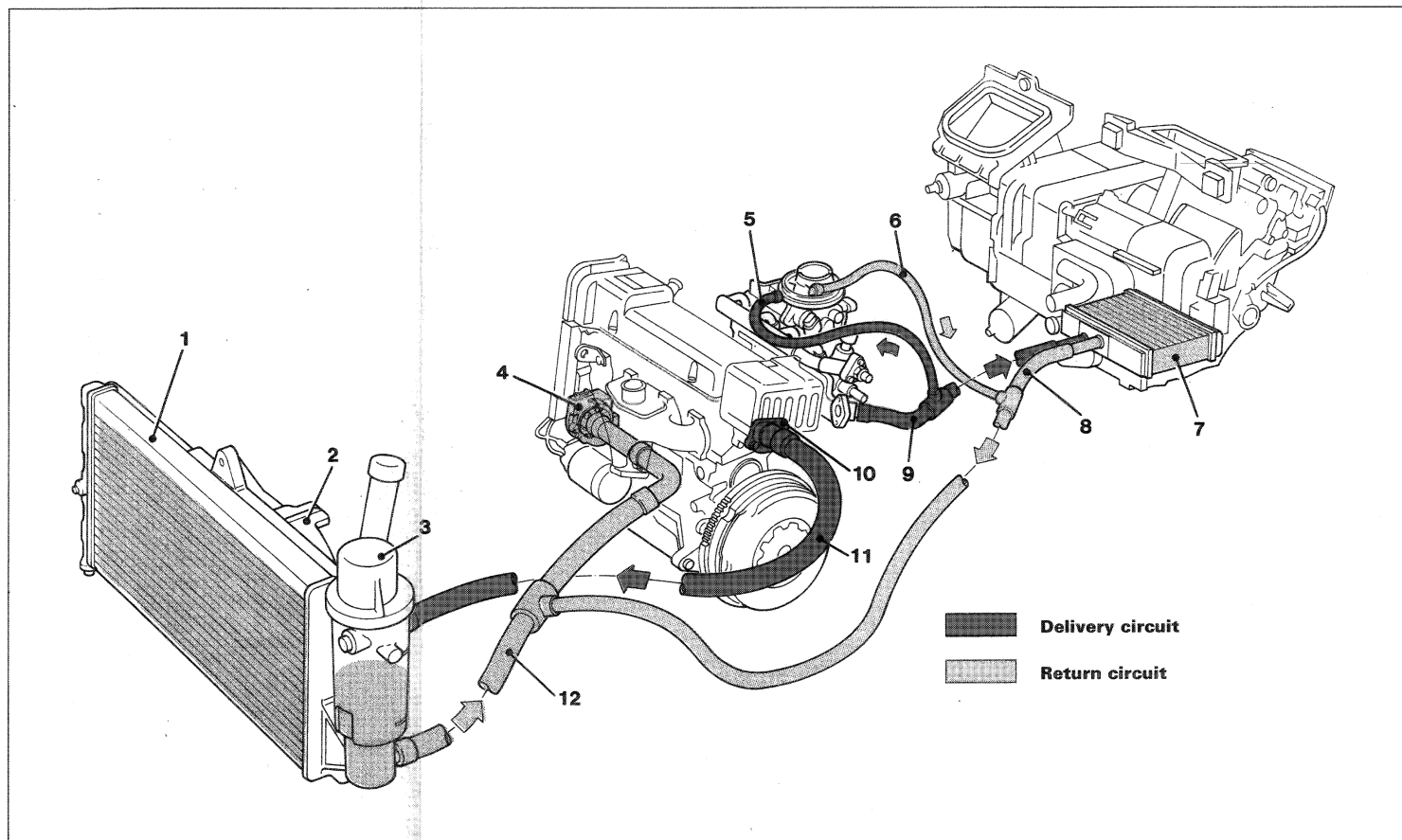
P3M002K02 P3M005K01

1. Suction head with filter mesh
2. Oil pressure relief valve
3. Gear-type oil pump
4. Camshaft mount lubrication line
5. Main pressure oil delivery line to cylinder head
6. Main delivery duct for oil under pressure to the various components
7. Full-flow cartridge oil filter with safety by-pass valve for clogged filter
8. Oil sprays for piston cooling (*)

(*) Piston oil sprays contain a ball valve that opens at a pressure of 1.1 bar; replace spray in the case of inefficient operation.

10.

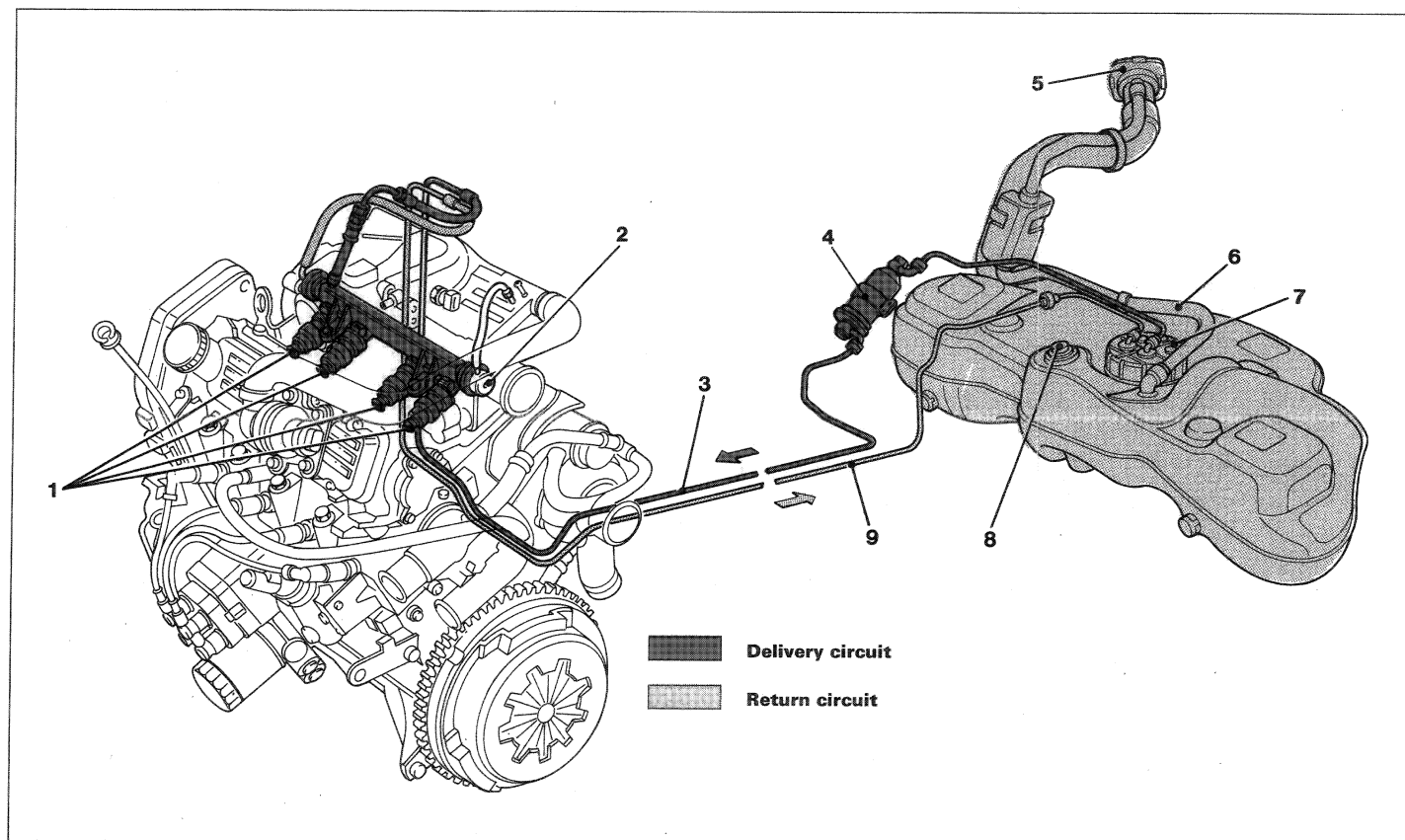
COOLING SYSTEM OPERATING DIAGRAM



PSM000K02 PSM006K01

1. Coolant cooling radiator
2. Radiator cooling fan
3. Coolant expansion tank
4. Cooling system pump
5. Line carrying coolant to throttle case
6. Coolant return line from throttle case
7. Passenger compartment heating radiator
8. Coolant return line from interior heating radiator to cooling radiator
9. Line carrying coolant to interior heater radiator
10. Coolant by-pass thermostat
11. Line carrying coolant from thermostat to cooling radiator
12. Coolant return line from radiator to pump

FUEL SYSTEM OPERATING DIAGRAM

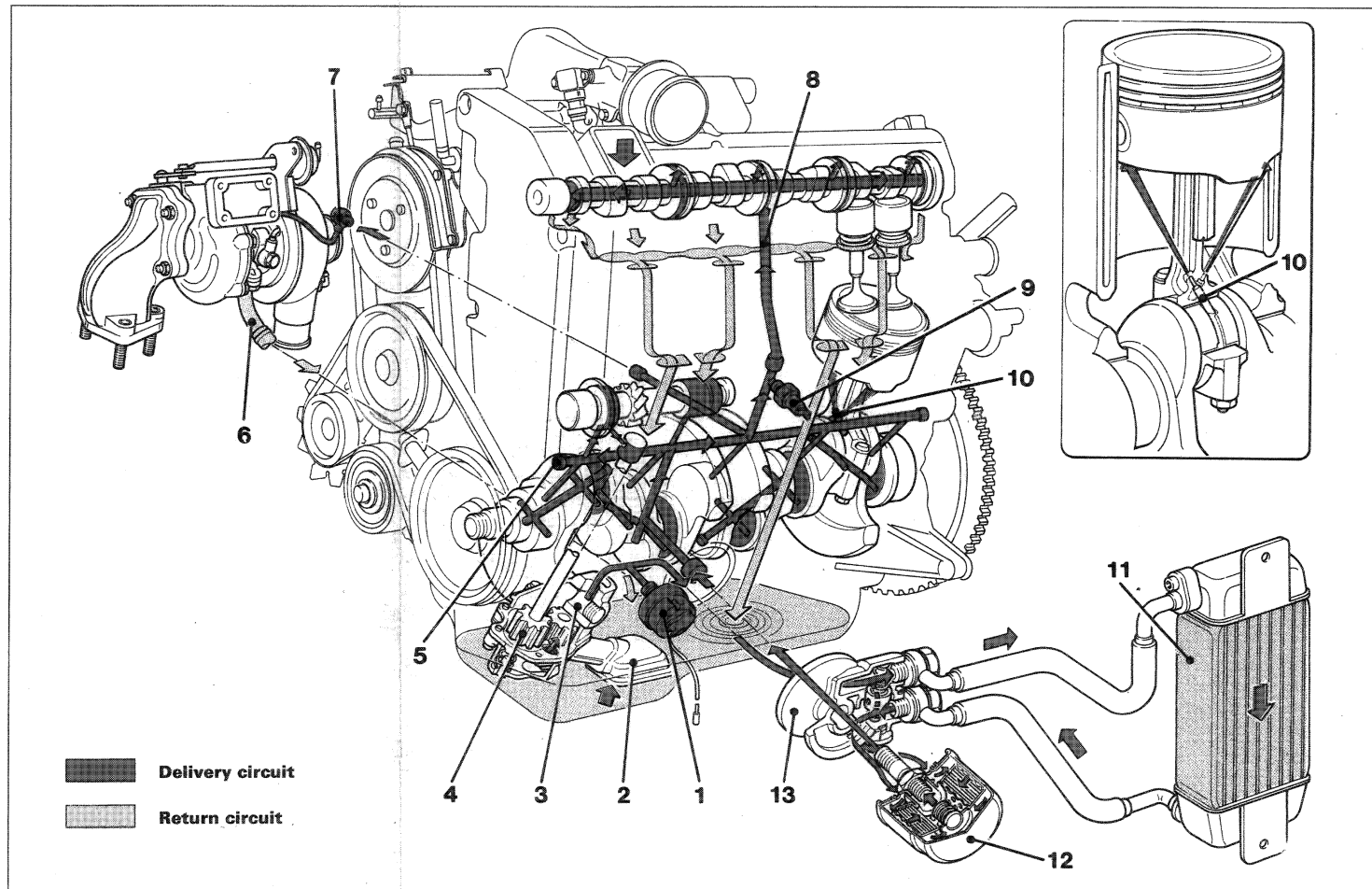


P3M007K02 P3M007K01

1. Injectors
2. Pressure regulator
3. Line carrying fuel to injectors
4. Fuel filter
5. Fuel filler fitting
6. Tank ventilation pipe
7. Pump submerged in tank
8. Tank ventilation valve
9. Fuel return lines to tank

10.

LUBRICATION SYSTEM OPERATING DIAGRAM



P3M008K02 P3M008K01

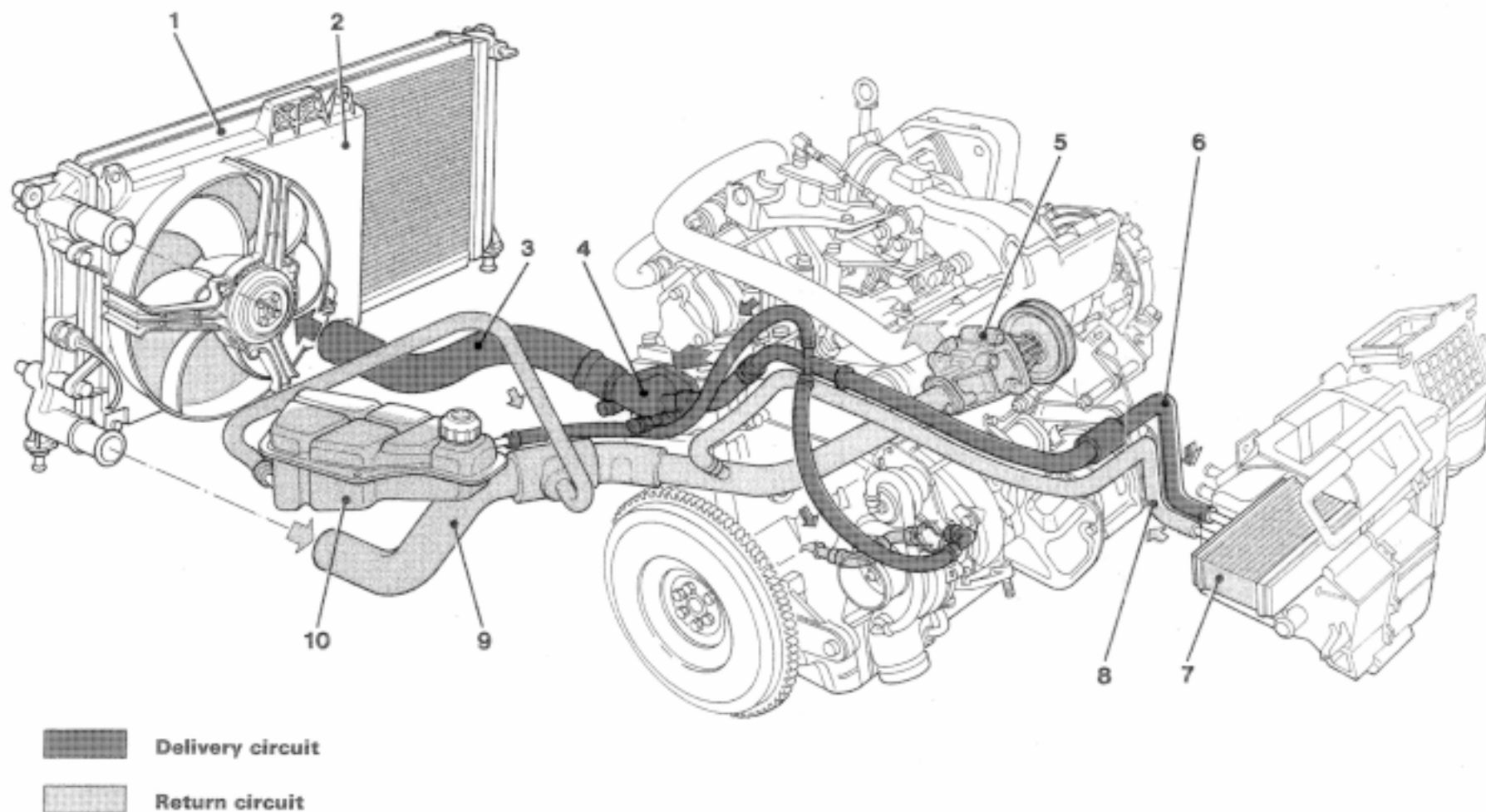
1. Engine oil pressure sender unit
2. Suction head with filter mesh
3. Oil pressure regulator valve
4. Gear-type oil pump
5. Main oil delivery duct to components
6. Oil return line from sump to turbocharger

7. Oil delivery duct to turbocharger
8. Oil delivery duct to camshaft mounts
9. Switch for low oil pressure warning light
10. Oil sprays for piston cooling (*)

11. Engine oil cooling radiator
12. Full-flow cartridge oil filter with safety by-pass valve for clogged filter
13. Oil filter mount

(*) Piston oil sprays contain a ball valve that opens at a pressure of 1.1 bar; replace spray in the case of inefficient operation.

COOLING SYSTEM OPERATING DIAGRAM

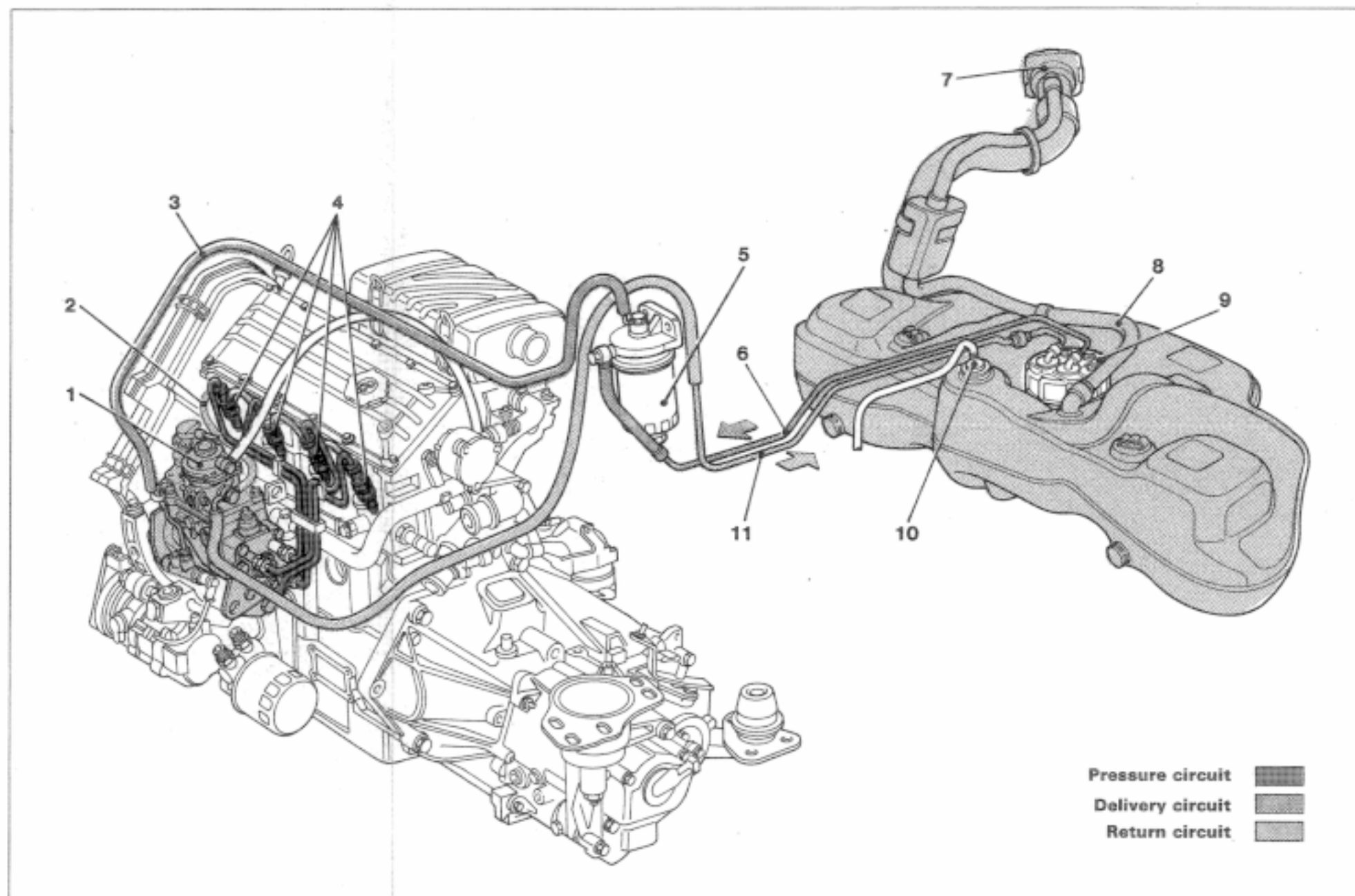


P3M009K02 P3M009K01

1. Coolant cooling radiator
2. Radiator cooling fan
3. Line from thermostat to coolant cooling radiator
4. Coolant by-pass thermostat
5. Coolant pump
6. Coolant delivery line from thermostat to interior heating radiator
7. Passenger compartment heater radiator
8. Coolant return line from heater radiator to coolant pump
9. Coolant delivery line from radiator to pump
10. Expansion tank

10.

FUEL SYSTEM OPERATING DIAGRAM

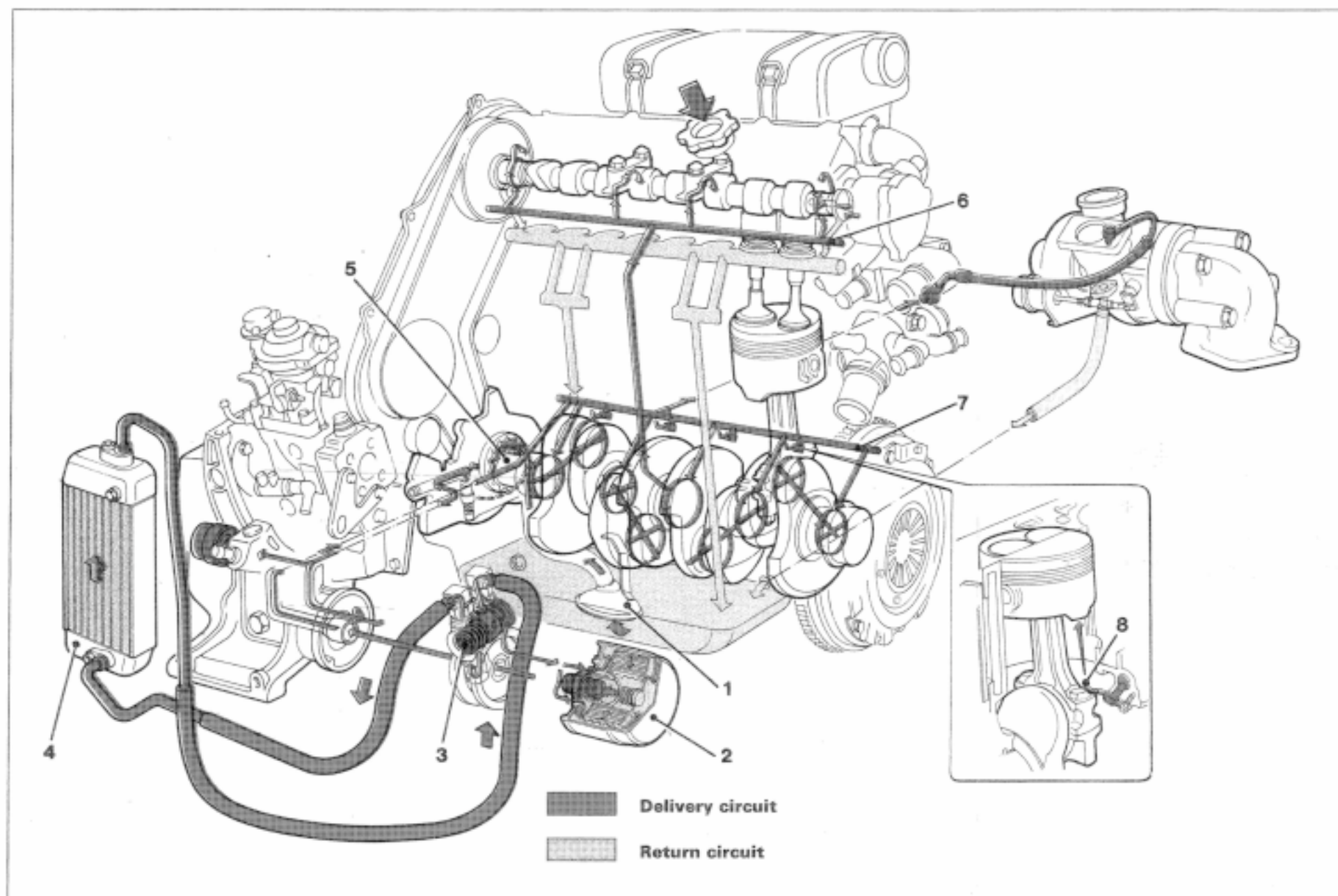


P3M010K02 P3M010K01

1. Rotary injection pump
2. Fuel recovery line from injectors
3. Fuel delivery line from filter to injection pump
4. Injectors
5. Fuel filter

6. Fuel feed line from tank to filter
7. Fuel filler fitting
8. Tank ventilation pipe
9. Submerged fuel pump
10. Tank ventilation valve
11. Fuel return line to tank

LUBRICATION SYSTEM OPERATING DIAGRAM



P3M011K02 P3M011K01

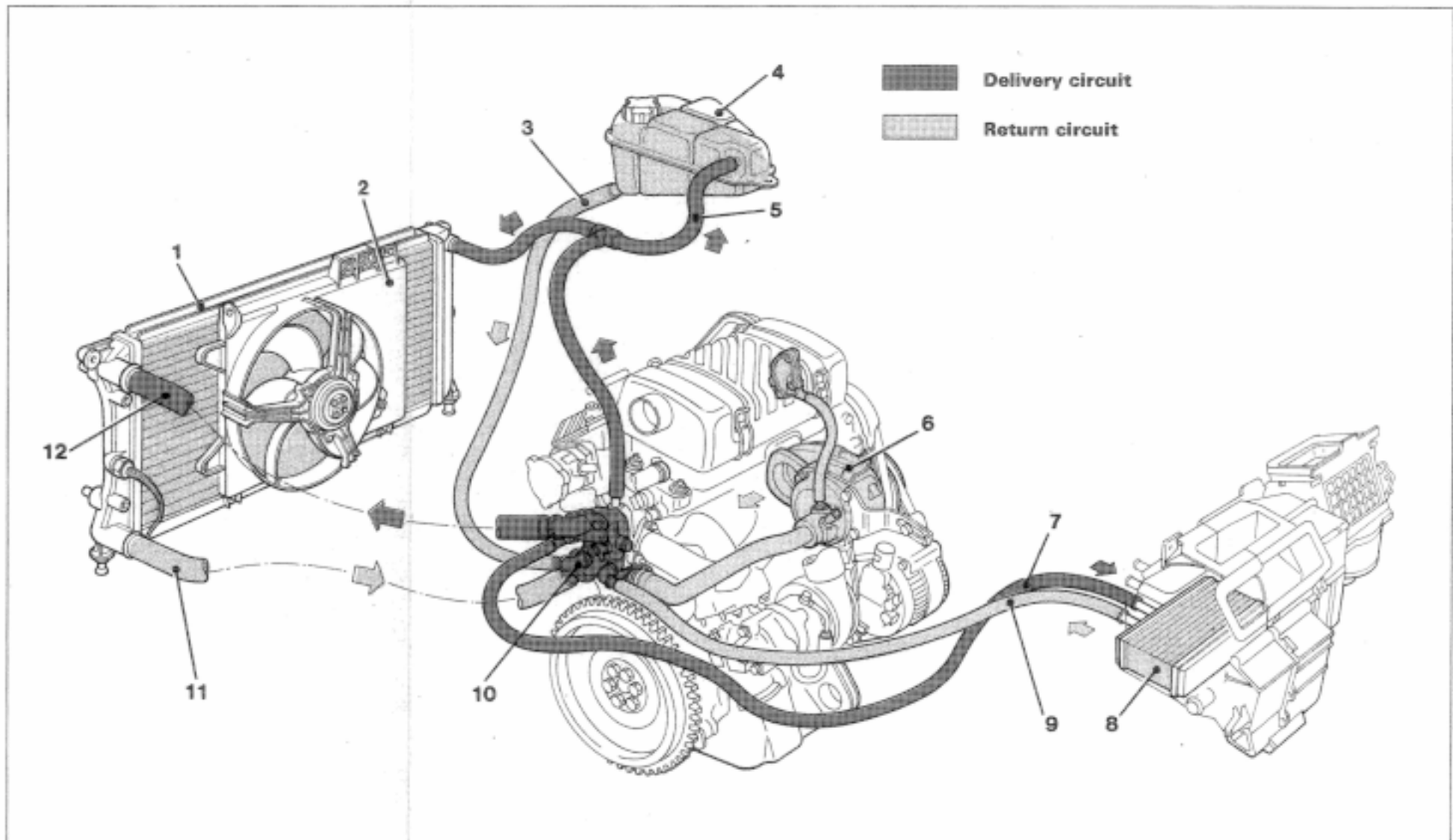
1. Suction head with filter mesh
2. Full-flow cartridge oil filter with safety bypass valve for clogged filter
3. Oil pressure regulator valve
4. Oil cooling radiator

5. Gear-type oil pump
6. Oil delivery duct to camshaft
7. Main oil delivery duct to components
8. Piston cooling oil sprays (*)

(*) Piston oil sprays contain a ball valve that opens at a pressure of 1.1 bar; replace spray in the case of inefficient operation.

10.

COOLING SYSTEM OPERATING DIAGRAM



P26A013K02 P26A013K01

1. Radiator
2. Electric fan
3. Line carrying coolant from expansion tank to pump
4. Expansion tank
5. Line carrying coolant from thermostat to expansion tank
6. Coolant pump
7. Line carrying coolant from thermostat to passenger compartment heater radiator
8. Passenger compartment heater radiator
9. Line carrying coolant from passenger compartment heater radiator to pump
10. Thermostat
11. Line carrying coolant from radiator to thermostat
12. Line carrying coolant from thermostat to radiator