

## COOLING CIRCUITS

COOLING

### 2. Cooling Circuits

The cooling system operates in three different phases depending on the temperature of the engine coolant.

- 1st phase (thermostat closed)

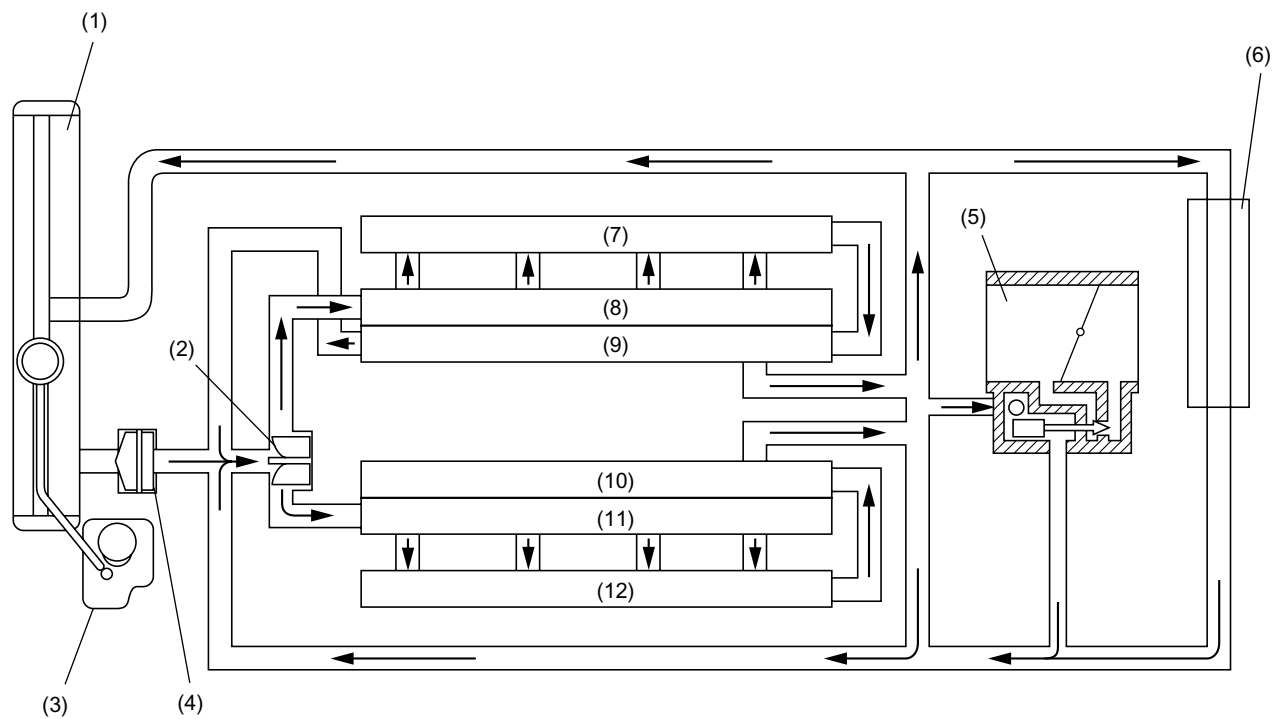
When the engine coolant temperature is below 76°C (169°F), the thermostat remains closed. The coolant flows through the bypass and heater circuits. This permits the engine to warm up quickly.

- 2nd phase (thermostat open)

When the engine coolant temperature is above 76 — 80°C (169 — 176°F), the thermostat opens. The coolant flows through the radiator where it is cooled.

- 3rd phase (thermostat open and radiator fan operating)

When the engine coolant temperature sensor sends a signal indicating a temperature above 95°C (203°F) to the ECM, it causes the radiator fan (or fans) to operate.



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|-----------------------------------|-------------------------|
| (1) Radiator                      | (7) Cylinder head RH    |
| (2) Water pump                    | (8) Cylinder jacket RH  |
| (3) Engine coolant reservoir tank | (9) Cylinder block RH   |
| (4) Thermostat                    | (10) Cylinder block LH  |
| (5) Throttle body                 | (11) Cylinder jacket LH |
| (6) Heater core                   | (12) Cylinder head LH   |

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