

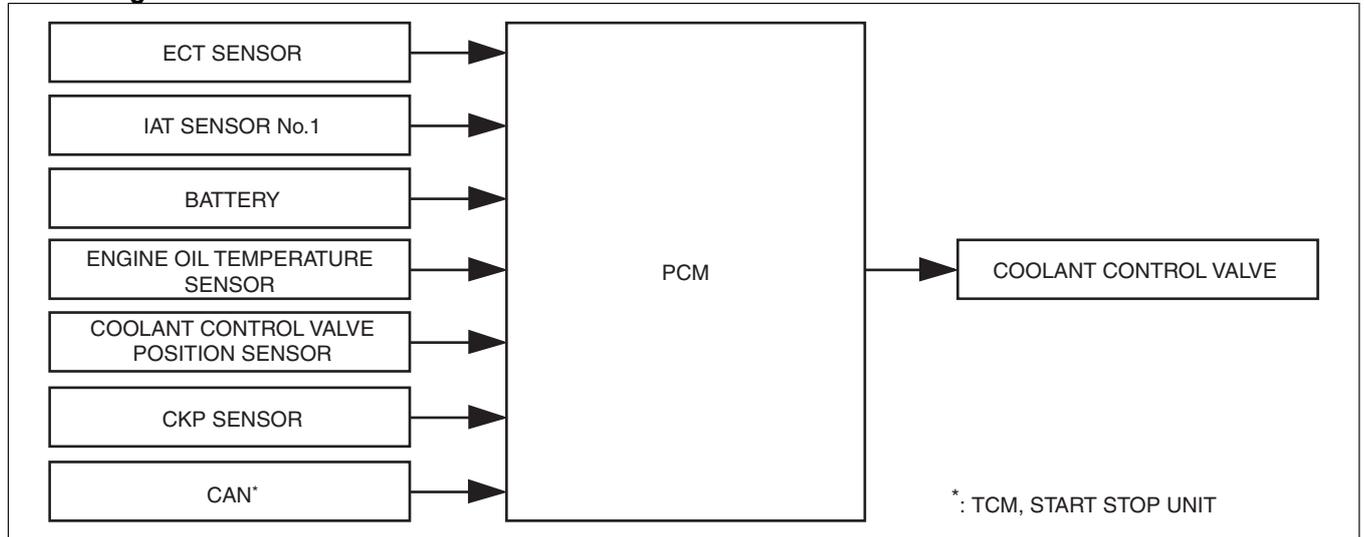
WATER FLOW CONTROL [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]

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Outline

- The PCM adjusts the engine coolant control valve and supplies engine coolant to the appropriate engine coolant passage according to the changes in the engine coolant temperature.
- By blocking each water passage before the engine warms up, and suppressing heat radiation, the temperature of the internal wall of the cylinder is quickly increased to improve fuel economy.

Block Diagram

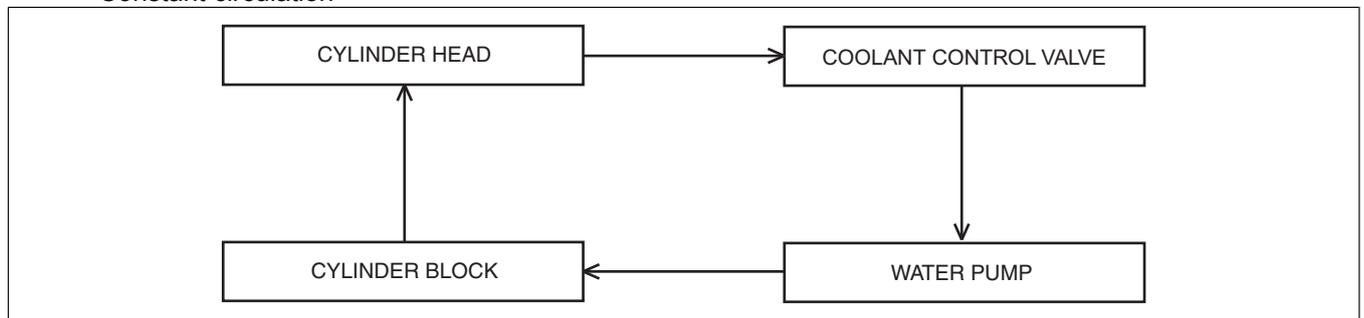


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Operation

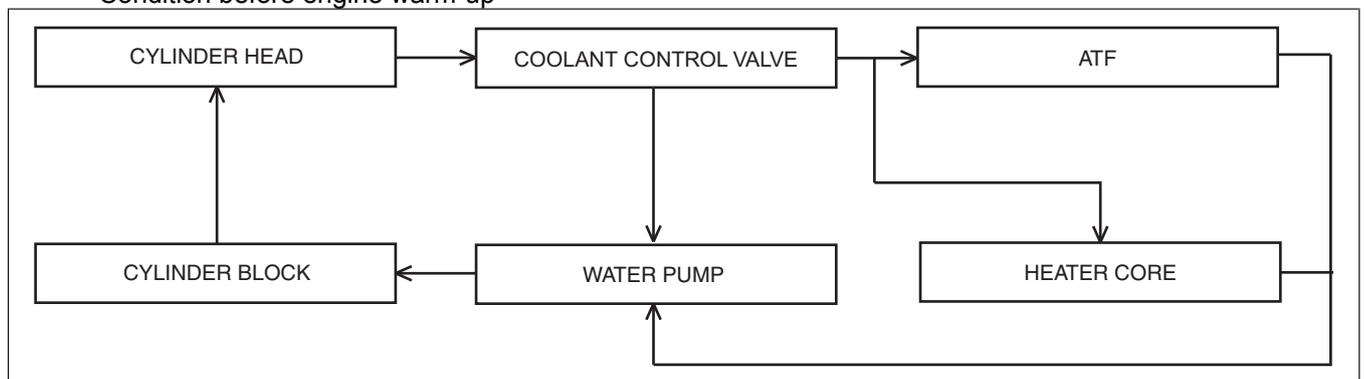
Operation condition

- Passage between coolant control valve and water pump
 - Constant circulation



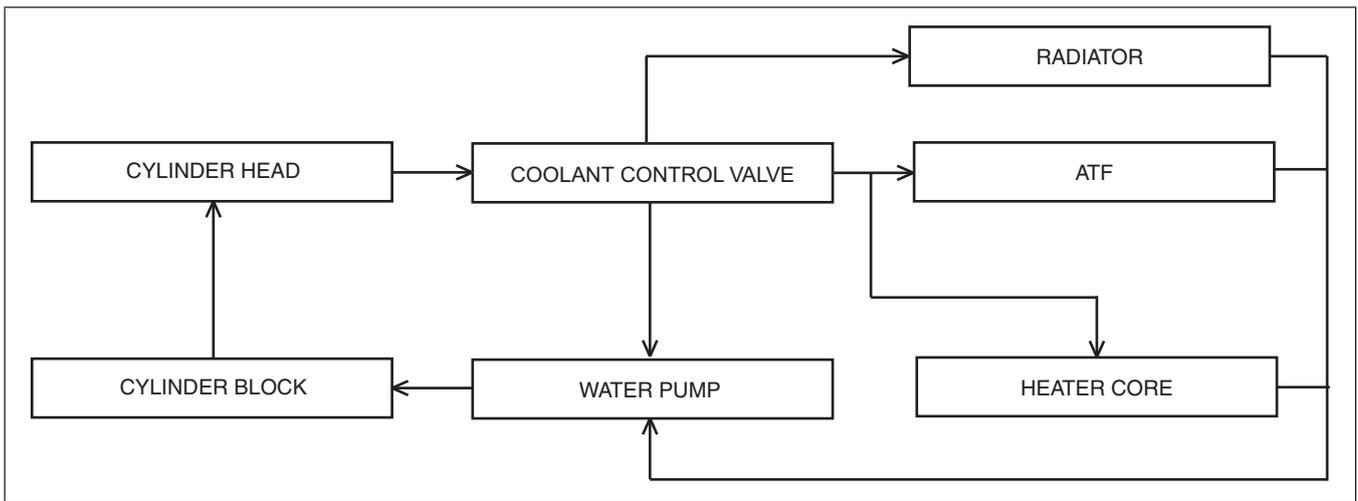
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- Passage between coolant control valve and ATF, heater core
 - Condition before engine warm-up



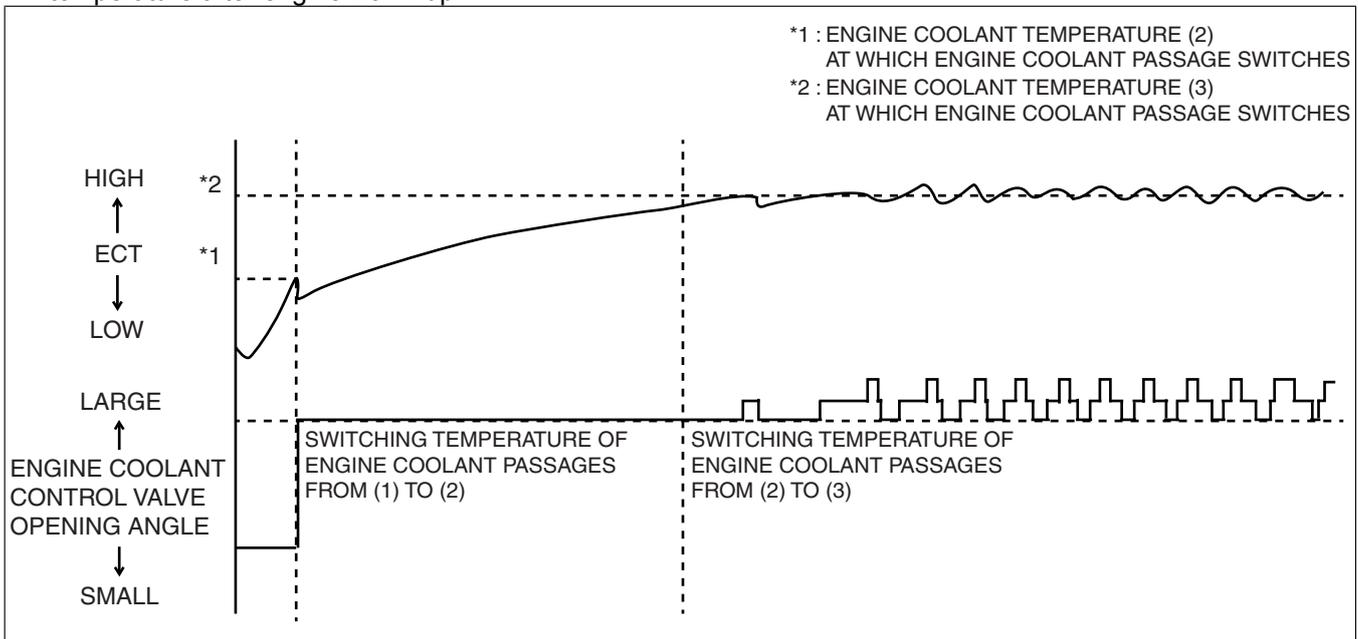
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- Passage between coolant control valve and radiator
 - Engine warmed up



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- Adjusts the engine coolant control valve to the appropriate opening angle to stabilize the engine coolant temperature after engine warm-up.



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