

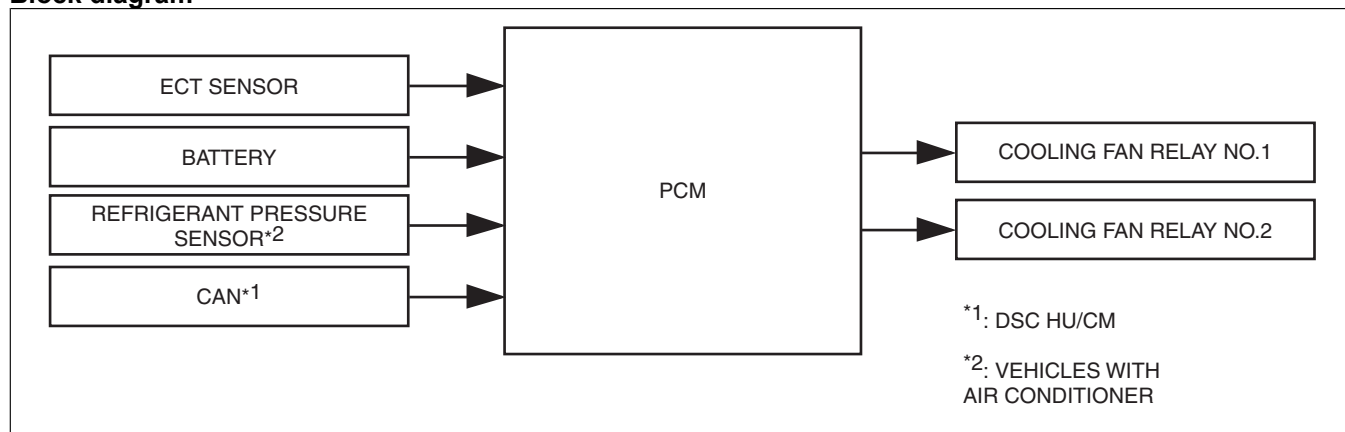
## ELECTRICAL FAN CONTROL [SKYACTIV-D 2.2]

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### Outline

- Through cooling of the radiator and condenser by operation of the cooling fan according to vehicle conditions, engine reliability and cooling performance have been improved.
- The PCM determines the engine operation conditions based on the signal from each sensor and performs duty-control of the fan control module to control the rotation speed of the cooling fan motor.

### Block diagram

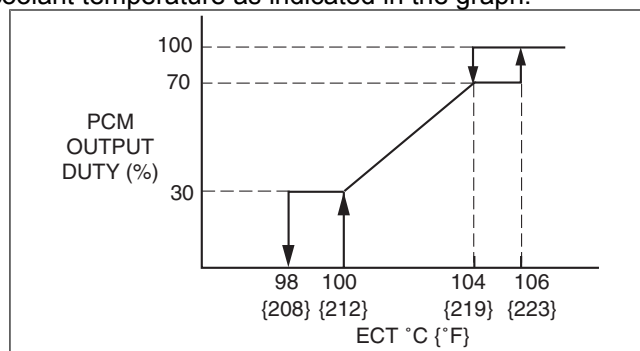


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### Operation

#### Engine coolant temperature conditions

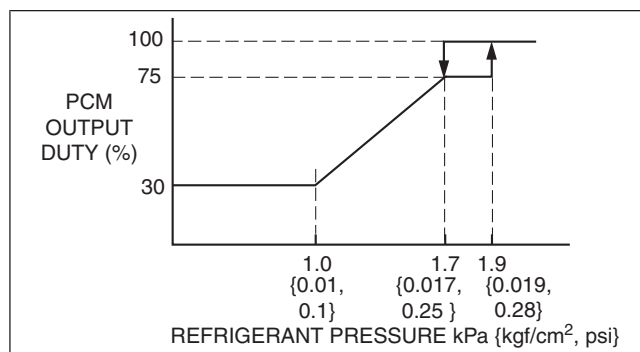
- Output duty ratio is controlled according to the engine coolant temperature as indicated in the graph.
- While the engine coolant temperature is decreasing, it is controlled at a different temperature from that of when the engine coolant temperature is increasing.



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#### A/C conditions

- Output duty ratio is controlled according to the refrigerant pressure when the A/C switch is on.



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