INTAKE SHUTTER VALVE CONTROL [SKYACTIV-D 2.2]

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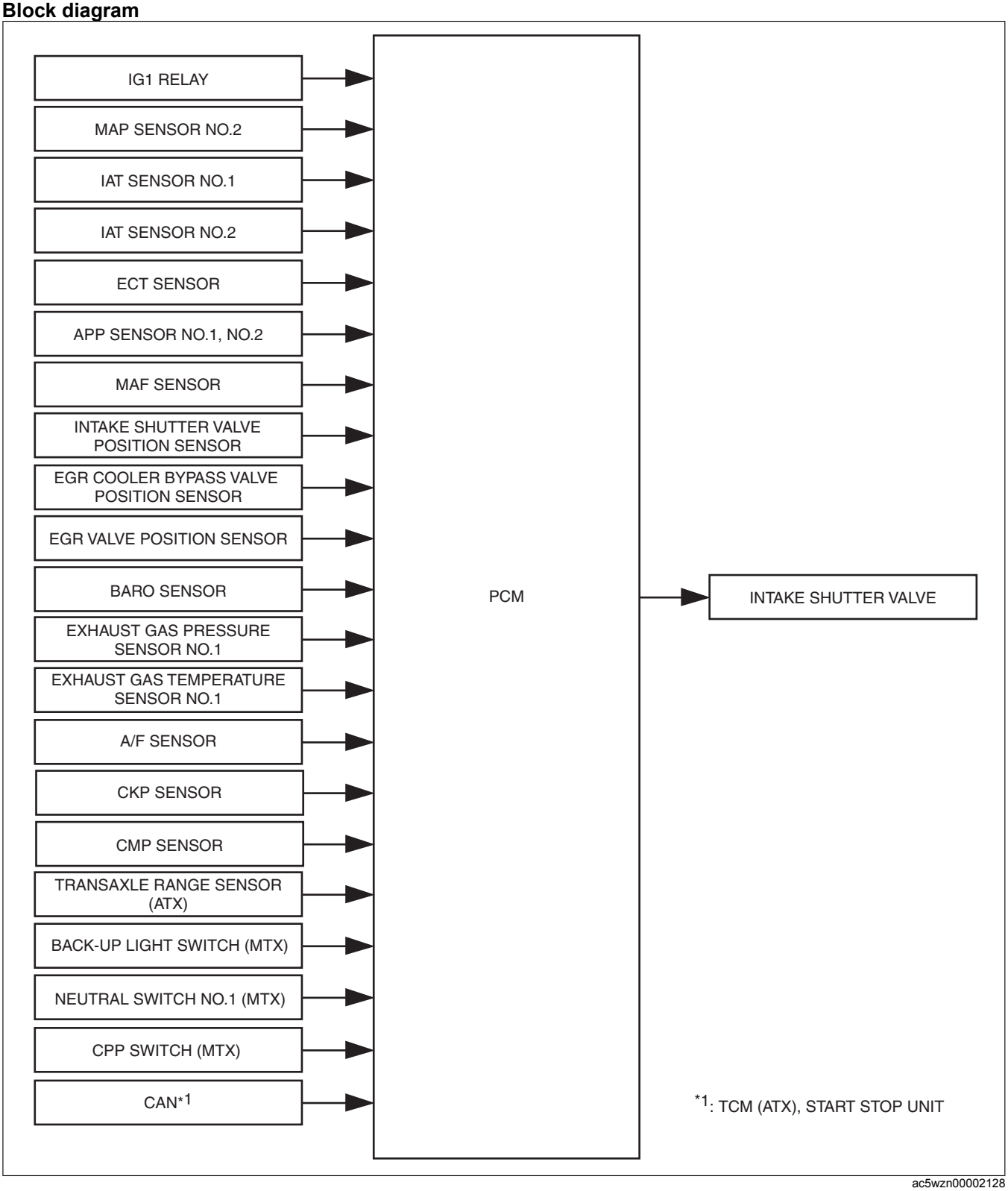
Outline

- The PCM controls the intake shutter valve when the following controls are performed.
  - — EGR control: It is difficult to recirculate exhaust gas because of the influence of the two-stage air charging pressure, therefore, the intake shutter valve is closed during EGR control to make recirculated exhaust gas induction easier.
  - — DPF regeneration control: Intake air is reduced during DPF regeneration control to cause the exhaust gas temperature to increase more easily.
  - — During deceleration: Intake air is reduced so that the catalyst temperature is not lowered by the incoming outside air.

Block diagram



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Operation

During EGR control

- The PCM controls the intake shutter valve to the optimum opening angle based on the engine speed, fuel injection amount, and intake air amount.

During DPF regeneration control

- The PCM controls the intake shutter valve to the optimum opening angle based on the engine speed, fuel injection amount, exhaust gas temperature, and intake air amount.