

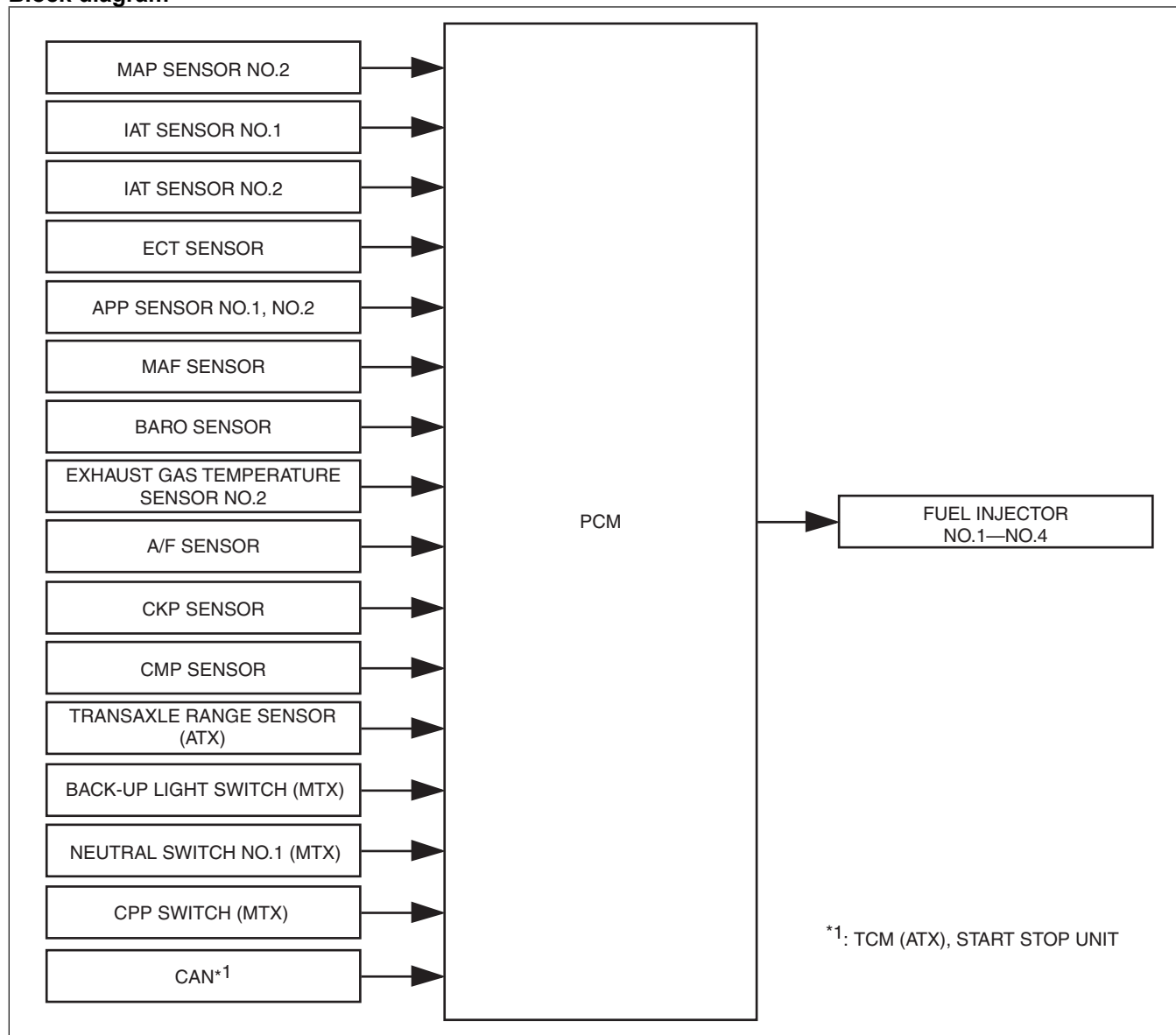
FUEL INJECTION TIMING CONTROL [SKYACTIV-D 2.2]

id0140z7988000

Outline

- The PCM determines and controls the optimum fuel injection timing according to engine operation conditions based on the signals from each input sensor.

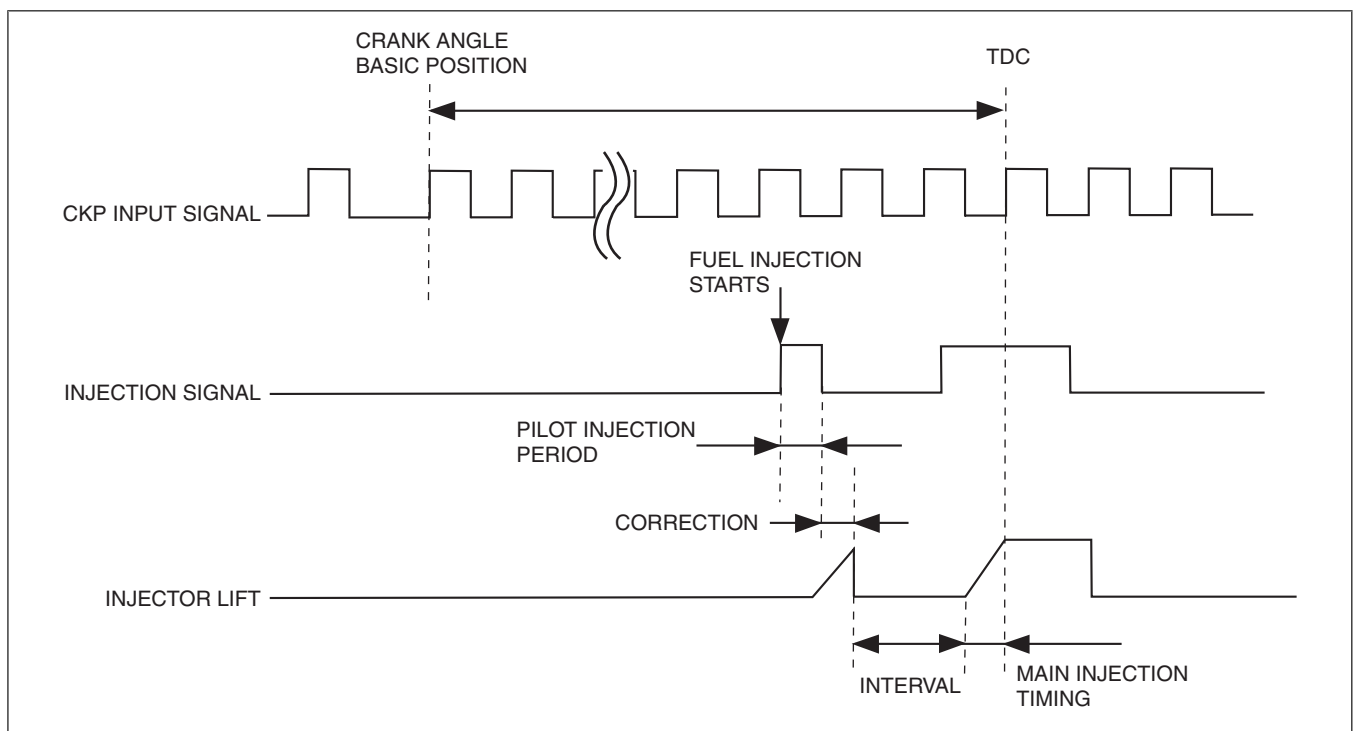
Block diagram



ac5wzn00002126

Operation

- Fuel injection start timing is determined based on the fuel injection amount and crank angle signals input from the crankshaft position sensor.



am6zzn00001039

Determination of Fuel Injection Timing

- The PCM calculates the optimum fuel injection timing based on the predetermined target fuel injection timing and input signals from each sensor.

Target Fuel Injection Timing

- Target fuel injection timing is calculated based on the engine speed and the fuel injection amount.

Injection Timing Correction

- The actual fuel injection timing is corrected based on the input signals from each sensor such as the IAT, ECT, and BARO sensors.