

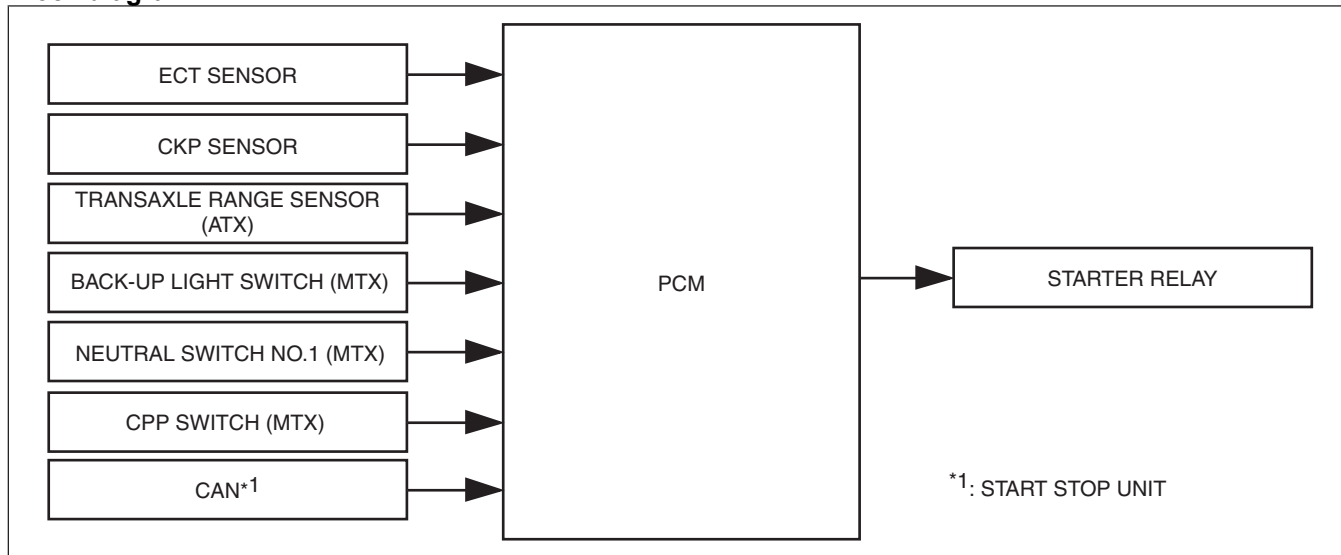
STARTER CUT-OFF CONTROL [SKYACTIV-D 2.2]

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Outline

- The PCM controls energization to the starter relay according to an immobilizer system request to improve security.
- While the shift lever is not in P or N position, starter relay energization using the push button start is inhibited. (ATX)
- When the clutch pedal is not depressed, starter relay energization using the push button start is inhibited. (MTX)

Block diagram



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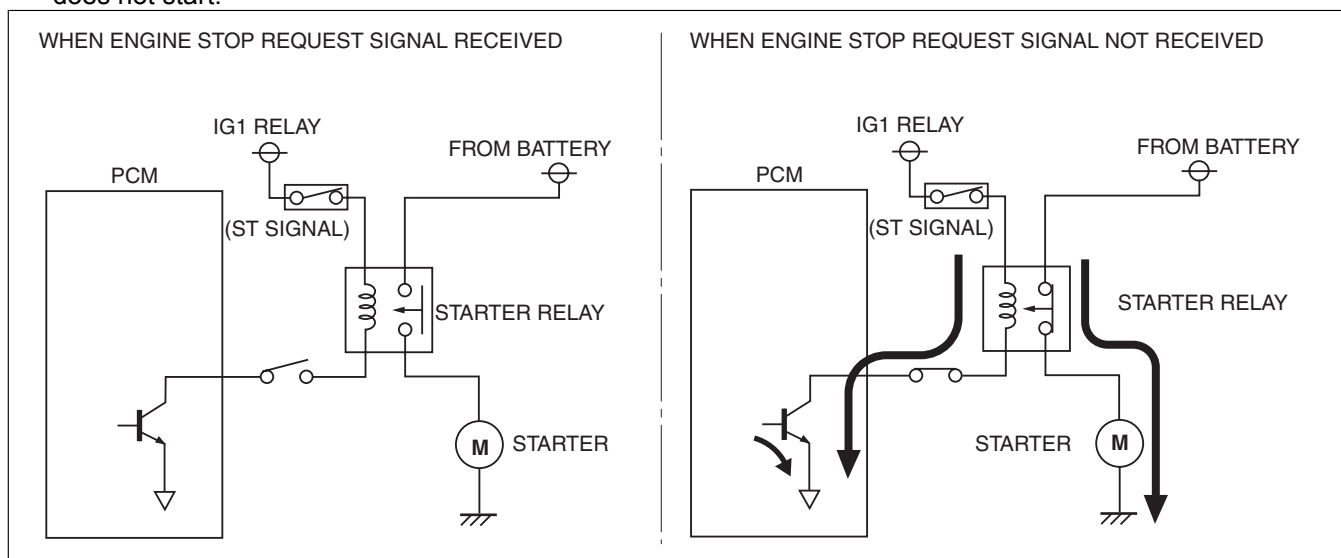
Operation

When engine stop request signal is not received

- The PCM establishes a ground to the starter circuit. Therefore, when the ignition is switched to the START position, the starter relay is energized and the starter motor rotates. As a result, the engine starts normally.

When engine stop request signal is received.

- The PCM does not establish a ground to the starter circuit. Therefore, even if the ignition is switched to the START position, the starter motor does not rotate because the starter relay does not energize, and the engine does not start.



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- The PCM turns the starter relay off with the engine speed at the set value or more (value varies depending on engine coolant temperature).

Starter cut-off control during preheating

- During the preheating timer operation by the glow control, energization to the starter relay is cut.