

DOSING CONTROL UNIT [SKYACTIV-D 2.2]

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With SCR system

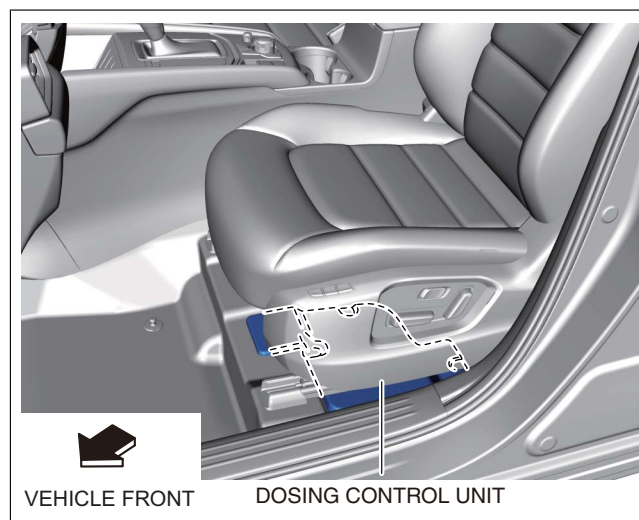
Purpose, Function

- Reduction of NOx in the exhaust gas has been achieved by optimally controlling the SCR system (such as AdBlue® injection amount) according to the vehicle conditions.
- Controls each output part based on a signal from each input part.
- The controlled functions are as follows.

Functions	Content
AdBlue® injection control	The dosing control unit controls the optimum AdBlue® injection amount according to the vehicle conditions to reduce NOx.
Heater control	The dosing control unit controls the heater (urea tank, urea hose) to keep warm/defrost AdBlue® according to the surrounding environment and AdBlue® conditions.
NOx sensor activation control	The dosing control unit controls the signal from the NOx sensor.
Diesel particulate filter malfunction diagnosis	The dosing control unit performs a part of the diesel particulate filter malfunction diagnostic function.
PM sensor activation control	The dosing control unit controls the sensing function of the PM sensor.

Construction

- The dosing control unit is installed below the driver seat.



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Operation

- If the SCR catalyst temperature exceeds 180 degrees C, the NOx sensor is activated, and NOx is detected, the AdBlue® injection function operates according to the purification rate of the catalyst.
- Activation of the NOx sensor and PM sensor is controlled at the timing according to the surrounding environment.

Fail-safe

- Not applicable.