

HO2S HEATER CONTROL OPERATION [LF]

B3E014018881T36

Front

Operation condition

- The PCM operates the front HO2S heater according to engine operation conditions as shown in the table below.

Drive duty ratio	Engine operation conditions
20 %	• Engine coolant temperature 5 °C {41 °F} or less
35 %	<ul style="list-style-type: none"> • At engine start • During engine rotation except idling • When a DTC indicating a damaged engine coolant temperature sensor, throttle position sensor or intake air temperature sensor is detected.
100 %	• For a fixed period of time after engine start when the engine coolant temperature at engine start is 50 °C {122 °F} or less than the engine coolant temperature when the engine is stopped from a previous operation (differs from engine coolant temperature at engine start [lower engine coolant temperature→longer time])

Inhibition conditions

- When all of the following conditions are met (for **6 s**):
 - During torque reduction execution
 - Engine speed is **5,000 rpm or more**.
 - Throttle opening angle **85 % or more**
- Engine speed **4,000 rpm or more**
- During high load
- When HO2S is damaged
- When ignition switch is turned to the ON position while engine is stopped

Rear

Operation conditions

- When all of the following conditions are met:
 - After fixed period of time from engine start
 - Engine speed is less than **4,000 rpm**.
 - Except during torque reduction execution
 - During low load