

## DTC P0662 [LF]

B3E010201088W04

DTC P0662	Variable intake-air solenoid valve circuit high input
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>The PCM monitors the variable intake-air solenoid valve control signal at PCM terminal 2AJ. If the PCM turns variable intake-air solenoid valve on but voltage at PCM terminal 2AJ still remains high, the PCM determines that the variable intake-air solenoid valve circuit has malfunction.</li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The MIL does not illuminate.</li> <li>PENDING CODE is available if the PCM detects the above malfunction condition.</li> <li>FREEZE FRAME DATA is not available.</li> <li>The DTC is stored in the PCM memory.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Variable intake-air solenoid valve malfunction</li> <li>Short to power supply in wiring harness between variable intake-air solenoid valve terminal B and PCM terminal 2AJ</li> <li>Shorted variable intake-air solenoid valve or PCM connector</li> <li>PCM malfunction</li> </ul>

### Diagnostic procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"> <li>Has FREEZE FRAME DATA been recorded?</li> </ul>	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	<b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related service repair information availability.</li> <li>Is any related repair information available?</li> </ul>	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	<b>INSPECT VARIABLE INTAKE-AIR SOLENOID VALVE CONNECTOR FOR POOR CONNECTION</b> <ul style="list-style-type: none"> <li>Turn the ignition switch off.</li> <li>Disconnect the variable intake-air solenoid valve</li> </ul>	Yes Repair or replace the terminal, then go to Step 7.

	connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion, etc.). • Is there malfunction?	No	Go to the next step.
4	<b>INSPECT VARIABLE INTAKE-AIR SOLENOID VALVE MALFUNCTION</b> • Perform variable intake-air solenoid valve inspection. (See <a href="#">VARIABLE INTAKE-AIR SOLENOID VALVE INSPECTION [LF]</a> .) • Is the variable intake-air solenoid valve normal?	Yes	Go to the next step.
		No	Replace the variable intake-air solenoid valve, then go to Step 7.
5	<b>INSPECT PCM CONNECTOR FOR POOR CONNECTION</b> • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection at terminal 2AJ. (such as damaged/pulled-out pins, corrosion). • Is there malfunction?	Yes	Repair the terminal, then go to Step 7.
		No	Go to the next step.
6	<b>INSPECT VARIABLE INTAKE-AIR SOLENOID VALVE CONTROL CIRCUIT SHORT TO POWER SUPPLY</b> • Turn the ignition switch to the ON position (Engine off). • Measure the voltage between variable intake-air solenoid valve terminal A (wiring harness-side) and body ground. • Is the voltage <b>B+</b> ?	Yes	Repair or replace the wiring harness for short to power supply, then go to the next step.
		No	Go to the next step.
7	<b>VERIFY TROUBLESHOOTING OF DTC P0662 COMPLETED</b> • Make sure to reconnect all disconnected connectors. • Turn the ignition switch to the ON position (Engine off). • Clear the DTC from the PCM memory using the WDS or equivalent. • Access RPM PID. • Increase the engine speed <b>4,750 rpm or more</b> for 10 times. • Is the same DTC present?	Yes	Replace the PCM, then go to the next step. (See <a href="#">PCM REMOVAL/INSTALLATION [LF]</a> .)
		No	Go to the next step.
8	<b>VERIFY AFTER REPAIR PROCEDURE</b> • Perform the "After Repair Procedure". (See <a href="#">AFTER REPAIR PROCEDURE [LF]</a> .) • Are any DTC present?	Yes	Go to the applicable DTC troubleshooting. (See <a href="#">DTC TABLE [LF]</a> .)
		No	Troubleshooting completed.