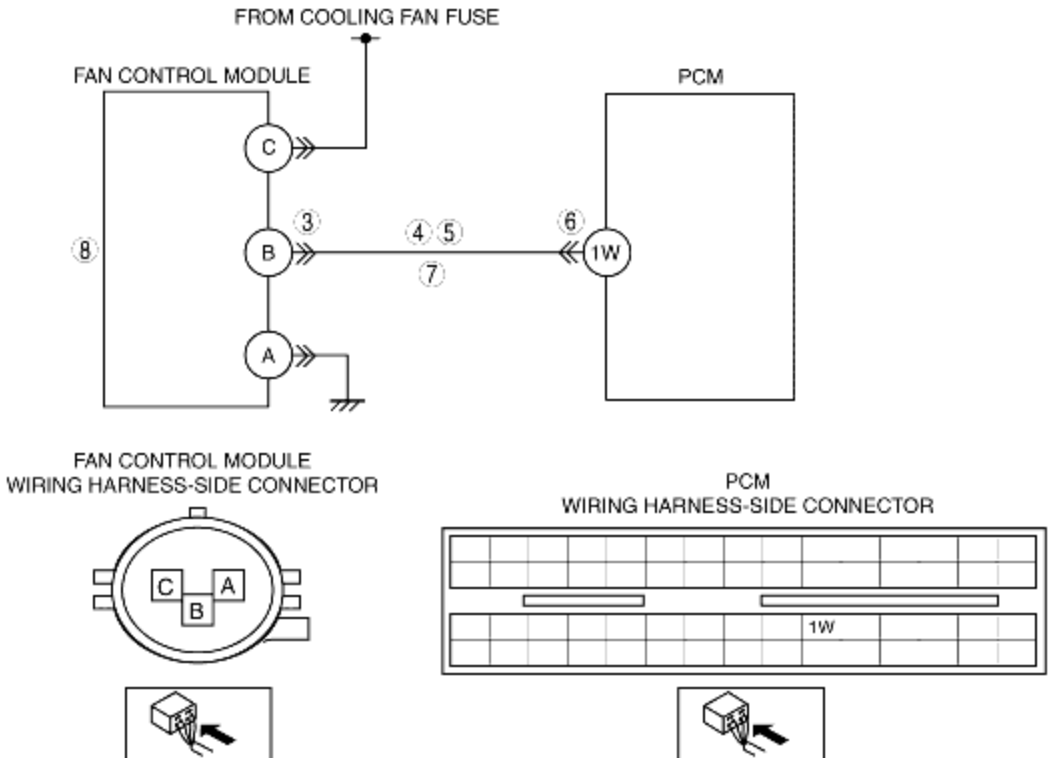


## DTC P0480 [LF]

B3E010201086W04

DTC P0480	Fan control circuit problem
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>The PCM monitors the input voltages from the fan control module. If the voltage at PCM terminal 1W remains low or high, the PCM determines that fan control circuit has malfunction.</li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is an continuous monitor (other).</li> <li>The MIL does not illuminate.</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>Connector or terminal malfunction</li> <li>Short to power supply in wiring harness between fan control module terminal B and PCM terminal 1W</li> <li>Short to ground in wiring harness between fan control module terminal B and PCM terminal 1W</li> <li>Open circuit in wiring harness between fan control module terminal B and PCM terminal 1W</li> <li>Fan control module malfunction</li> <li>PCM malfunction</li> </ul>
	

### Diagnostic procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b> • Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
	<b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b>	Yes Perform repair or diagnosis according to the available repair information.

2	<ul style="list-style-type: none"> <li>• Verify related service repair information availability.</li> <li>• Is any related repair information available?</li> </ul>		• If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	<b>INSPECT FAN CONTROL MODULE CONNECTOR FOR POOR CONNECTION</b> <ul style="list-style-type: none"> <li>• Turn the ignition switch off.</li> <li>• Disconnect fan control module connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is there malfunction?</li> </ul>	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
4	<b>INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Turn the ignition switch to the ON position (Engine off).</li> <li>• Measure the voltage between fan control module terminal B (wiring harness-side) and body ground.</li> <li>• Is the voltage <b>B+</b>?</li> </ul>	Yes	Repair or replace the wiring harness for open circuit, then go to Step 9.
		No	Go to the next step.
5	<b>INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Turn the ignition switch off.</li> <li>• Inspect for continuity between fan control module terminal B (wiring harness-side) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness for open circuit, then go to Step 9.
		No	Go to the next step.
6	<b>INSPECT PCM CONNECTOR FOR POOR CONNECTION</b> <ul style="list-style-type: none"> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is there malfunction?</li> </ul>	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
7	<b>INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Inspect for continuity between fan control module terminal B (wiring harness-side) and PCM terminal 1W.</li> <li>• Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace wiring harness for open circuit, then go to Step 9.
8	<b>INSPECT FAN CONTROL MODULE</b> <ul style="list-style-type: none"> <li>• Perform fan control module inspection.</li> <li>• Is fan control module normal?</li> </ul>	Yes	Go to the next step.
		No	Replace the fan control module, then go to the next step.
9	<b>VERIFY TROUBLESHOOTING OF DTC P0480 COMPLETED</b> <ul style="list-style-type: none"> <li>• Clear the DTC from the PCM memory using the WDS or equivalent.</li> <li>• Start the engine.</li> <li>• Turn A/C switch to ON.</li> <li>• Is same DTC present?</li> </ul>	Yes	Replace the PCM, then go to the next step. (See <a href="#">PCM REMOVAL/INSTALLATION [LF]</a> .)
		No	Go to the next step.
10	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "After Repair Procedure". (See <a href="#">AFTER REPAIR PROCEDURE [LF]</a>.)</li> <li>• Are any DTC present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <a href="#">DTC TABLE [LF]</a> .)
		No	Troubleshooting completed.