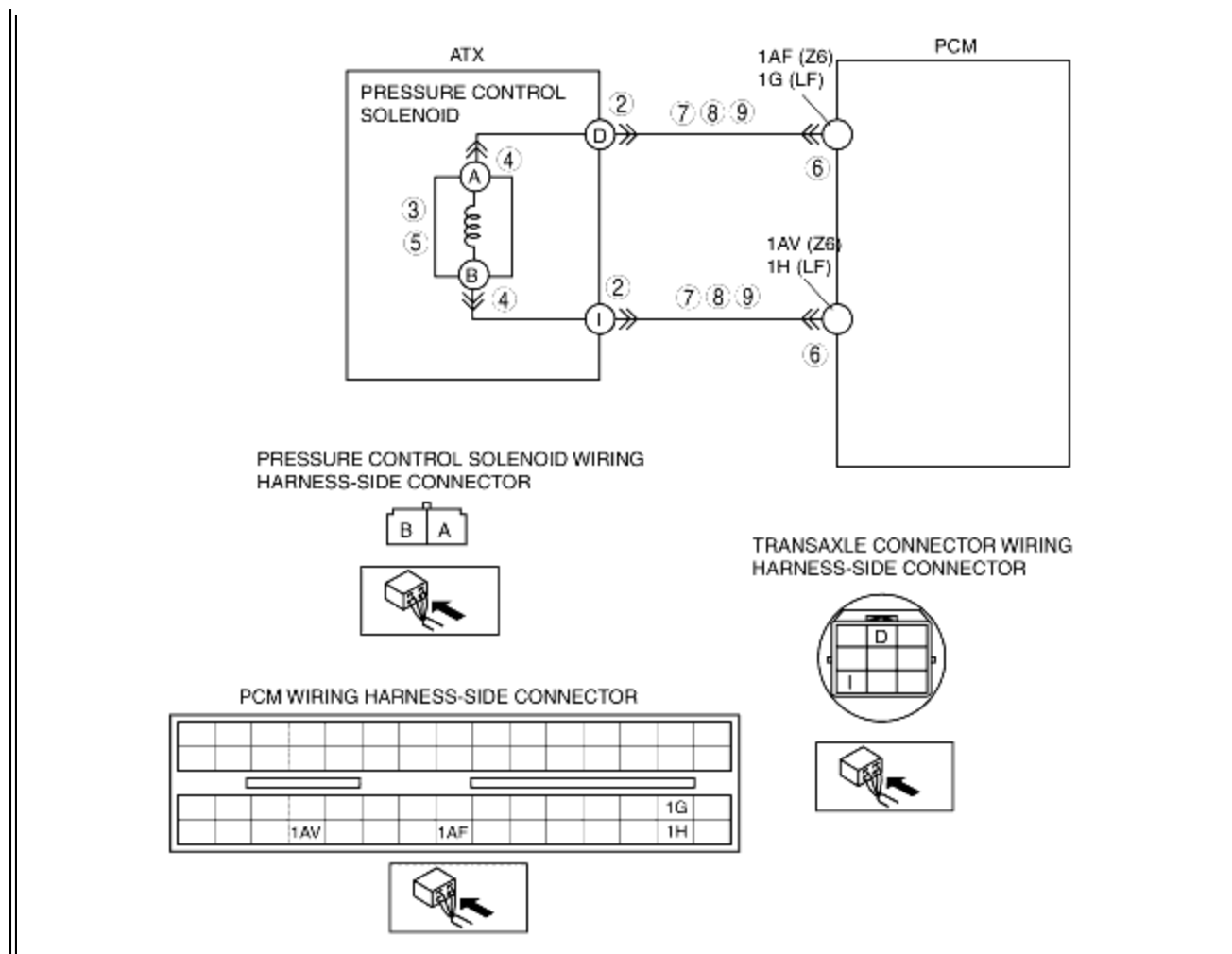


## DTC P0745 [FN4A-EL]

B3E050219090W20

DTC P0745	Pressure control solenoid malfunction
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>• If the PCM detects either of the following conditions, the PCM determines that pressure control solenoid circuit has a malfunction.               <ul style="list-style-type: none"> <li>- Pressure control solenoid voltage stuck <b>0 V</b> after engine start</li> <li>- Pressure control solenoid voltage stuck <b>B+</b> after engine start</li> </ul> </li> </ul> <p><b>Diagnostic support note:</b></p> <ul style="list-style-type: none"> <li>• This is a continuous monitor (CCM).</li> <li>• The MIL does not illuminate if PCM detects above malfunction conditions during the first drive cycle.</li> <li>• A PENDING CODE is not available.</li> <li>• FREEZE FRAME DATA is not available.</li> <li>• The AT warning light illuminates.</li> <li>• The DTC is stored in the PCM memory.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Pressure control solenoid malfunction</li> <li>• Open circuit in wiring harness between pressure control solenoid terminal B and ATX terminal I</li> <li>• Open circuit in wiring harness between ATX terminal I and PCM terminal 1AV (Z6)/1H (LF)</li> <li>• Short to ground in wiring harness between ATX terminal D and PCM terminal 1AF (Z6)/1G (LF)</li> <li>• Short to power supply in wiring harness between ATX terminal D and PCM terminal 1AF (Z6)/1G (LF)</li> <li>• Open circuit in wiring harness between pressure control solenoid terminal A and ATX terminal D</li> <li>• Open circuit in wiring harness between ATX terminal D and PCM terminal 1AF (Z6)/1G (LF)</li> <li>• Damaged connector between pressure control solenoid and PCM</li> <li>• PCM malfunction</li> </ul>



### Diagnostic procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Bulletins and/or on-line 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.
2	<b>INSPECT ATX CONNECTOR FOR POOR CONNECTION</b> <ul style="list-style-type: none"> <li>Turn the ignition switch to the LOCK position.</li> <li>Disconnect the ATX connector.</li> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is the connection normal?</li> </ul>	Yes Go to the next step.
		No Repair or replace the connector and/or terminals, then go to Step 10.
3	<b>INSPECT RESISTANCE</b> <ul style="list-style-type: none"> <li>Inspect the resistance between ATX terminals D and I (transaxle case side).</li> <li>Is the resistance <b>within 2.4-7.3 ohms?</b> (See <a href="#">Resistance Inspection (On-Vehicle Inspection)</a>.)</li> </ul>	Yes Go to Step 6.
		No Go to the next step.
	<b>INSPECT PRESSURE CONTROL SOLENOID CONNECTOR FOR POOR CONNECTION</b>	Yes Go to the next step.

4	<ul style="list-style-type: none"> <li>• Disconnect the pressure control solenoid connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is the connection normal?</li> </ul>	No	Repair or replace the connector and/or terminals, then go to Step 10.
5	<b>INSPECT RESISTANCE</b> <ul style="list-style-type: none"> <li>• Inspect the resistance between the pressure control solenoid terminals A and B.</li> <li>• Is the resistance <b>within 2.4-7.3 ohms</b>? (See <a href="#">Resistance Inspection (Off-Vehicle Inspection)</a>.)</li> </ul>	Yes	Replace the solenoid wiring harness, then go to Step 10.
		No	Verify pressure control solenoid installation. <ul style="list-style-type: none"> <li>• If solenoid installed correctly, replace the pressure control solenoid, then go to Step 10. (See <a href="#">SOLENOID VALVE REMOVAL/INSTALLATION</a>.)</li> </ul>
6	<b>INSPECT PCM CONNECTOR FOR POOR CONNECTION</b> <ul style="list-style-type: none"> <li>• Disconnect the PCM connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is the connection normal?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the connector and/or terminals, then go to Step 10.
7	<b>INSPECT ATX CONNECTOR CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Inspect for continuity between the PCM (wiring harness-side) and ATX connector (wiring harness-side). <ul style="list-style-type: none"> <li>- PCM terminal 1AF (Z6)/1G (LF) and ATX terminal D</li> <li>- PCM terminal 1AV (Z6)/1H (LF) and ATX terminal I</li> </ul> </li> <li>• Is there continuity between terminals?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 10.
8	<b>INSPECT ATX CONNECTOR 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>• Inspect the voltage at ATX terminal D (wiring harness-side).</li> <li>• Is the voltage <b>0 V</b>?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 10.
9	<b>INSPECT PCM CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Turn the ignition switch to the LOCK position.</li> <li>• Inspect for continuity between ATX terminal D (wiring harness-side) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness, then go to the next step.
		No	Go to the next step.
10	<b>VERIFY TROUBLESHOOTING OF DTC P0745 COMPLETED</b> <ul style="list-style-type: none"> <li>• Make sure to reconnect all the disconnected connectors.</li> <li>• Clear the DTC from the memory using the WDS or equivalent.</li> <li>• Make sure to wait <b>more than 1 s</b> after turning the ignition switch to the ON position.</li> <li>• Are any DTCs present?</li> </ul>	Yes	Replace the PCM, then go to the next step. (See <a href="#">PCM REMOVAL/INSTALLATION [ZJ, Z6]</a> .) (See <a href="#">PCM REMOVAL/INSTALLATION [LF]</a> .)
		No	No concern is detected. Go to the next step.
	<b>VERIFY AFTER REPAIR PROCEDURE</b>	Yes	Go to the applicable DTC inspection.

11	<ul style="list-style-type: none"><li>• Perform the "After Repair Procedure". (See <a href="#">AFTER REPAIR PROCEDURE [FN4A-EL]</a>.)</li><li>• Are any DTCs present?</li></ul>	No	DTC troubleshooting completed.
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