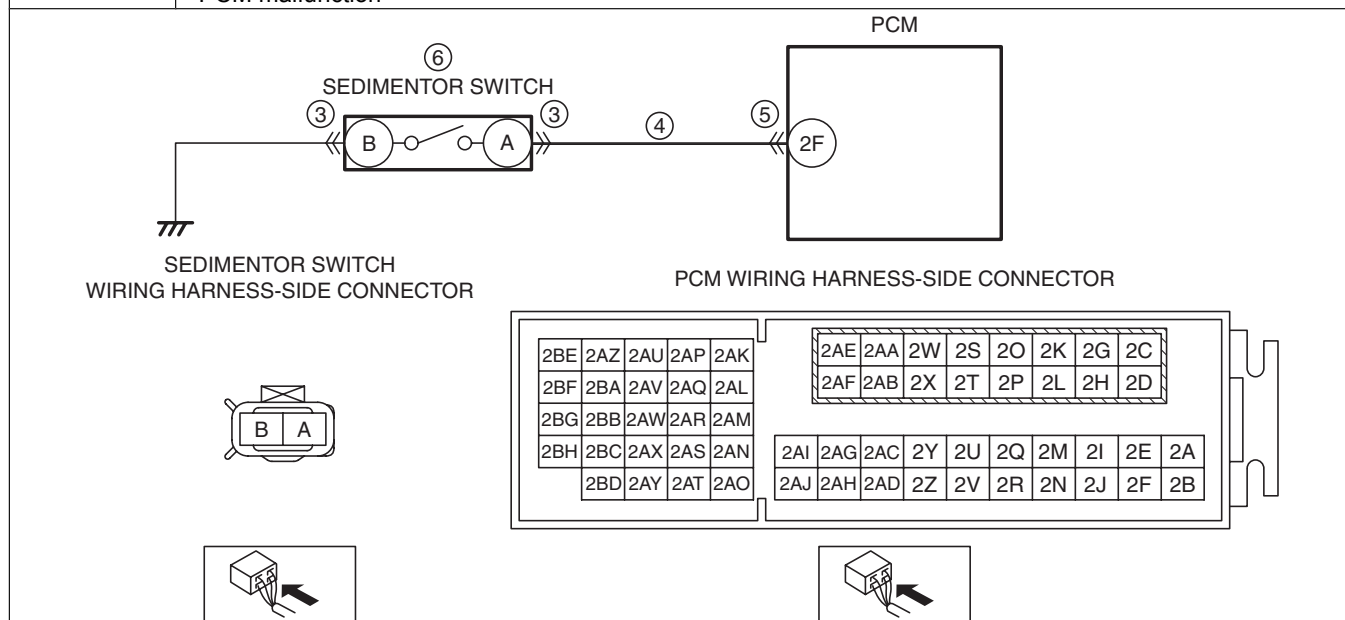


# DTC P1140:00 [SKYACTIV-D 2.2]

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<b>DTC P1140:00</b>	<b>Sedimentor switch control circuit range/performance problem</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>The level of accumulated water in the fuel filter exceeds the specification (sedimentor switch turns on in this case).</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is not available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	Not applicable
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>The level of accumulated water in the fuel filter exceeds the specification</li> <li>Sedimentor switch connector or terminals malfunction</li> <li>Short to ground in wiring harness between sedimentor switch terminal A and PCM terminal 2F</li> <li>PCM connector or terminals malfunction</li> <li>Sedimentor switch malfunction</li> <li>PCM malfunction</li> </ul>



## Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<b>VERIFY RELATED SERVICE INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Information availability.</li> <li>Is any related Service Information available?</li> </ul>	Yes	Perform repair or diagnosis according to the available Service Information.
		No	Go to the next step.
2	<b>DETERMINE IF MALFUNCTION CAUSE IS LEVEL OF ACCUMULATED WATER IN THE FUEL FILTER EXCEEDS THE SPECIFICATION</b> <ul style="list-style-type: none"> <li>Perform the "FUEL FILTER WATER DRAINING". (See FUEL FILTER WATER DRAINING [SKYACTIV-D 2.2].)</li> <li>Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)</li> <li>Is the same DTC present?</li> </ul>	Yes	Go to the next step.
		No	Go to Step 8.

STEP	INSPECTION		ACTION
3	<b>INSPECT SEDIMENTOR SWITCH CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition off.</li> <li>Disconnect the sedimentor switch connector.</li> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
		No	Go to the next step.
4	<b>INSPECT SEDIMENTOR SWITCH CONTROL CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Verify that the sedimentor switch connector is disconnected.</li> <li>Inspect for continuity between sedimentor switch terminal A (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>	Yes	If the short to ground circuit could be detected in the wiring harness: <ul style="list-style-type: none"> <li>Repair or replace the wiring harness for a possible short to ground.</li> </ul> If the short to ground circuit could not be detected in the wiring harness: <ul style="list-style-type: none"> <li>Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</li> </ul> Go to Step 7.
		No	Go to the next step.
5	<b>INSPECT PCM CONNECTOR CONDITION</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 there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
		No	Go to the next step.
6	<b>INSPECT SEDIMENTOR SWITCH</b> <ul style="list-style-type: none"> <li>Inspect the sedimentor switch. (See SEDIMENTOR SWITCH INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the fuel filter, then go to the next step. (See FUEL FILTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>Always reconnect all disconnected connectors.</li> <li>Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>Is the same DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</li> </ul> Go to the next step.
		No	Go to the next step.
8	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.