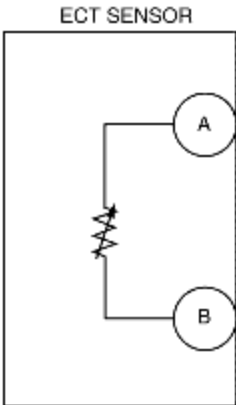
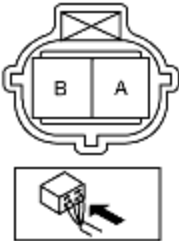
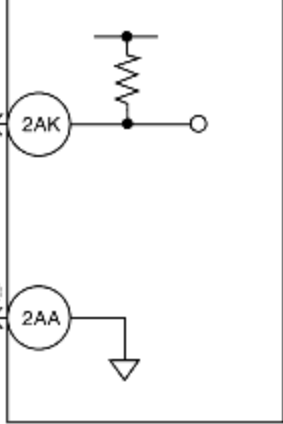
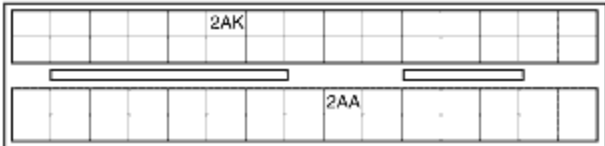


DTC P0118 [LF]

B3E010201084W14

DTC P0118	ECT sensor circuit high input
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors the ECT sensor signal at PCM terminal 2AK. If the PCM detects the ECT sensor voltage is above 4.6 V, the PCM determines that the ECT sensor circuit has malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition during first drive cycle. PENDING CODE is available if the PCM detects the above malfunction condition. FREEZE FRAME DATA is available. The DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> ECT sensor malfunction Open circuit in wiring harness between ECT sensor terminal A and PCM terminal 2AK Short to power supply in wiring harness between ECT sensor terminal A and PCM terminal 2AK Open circuit in wiring harness between ECT sensor terminal B and PCM terminal 2AA Poor connection of ECT sensor or PCM connectors PCM malfunction
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>ECT SENSOR</p>  <p>ECT SENSOR WIRING HARNESS-SIDE CONNECTOR</p>  </div> <div style="text-align: center;"> <p>PCM</p>  <p>PCM WIRING HARNESS-SIDE CONNECTOR</p>  </div> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED • 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.
	VERIFY RELATED REPAIR INFORMATION	Perform repair or diagnosis according to the

2	AVAILABILITY • Verify related service repair information availability. • Is any related repair information available?	Yes	available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT POOR CONNECTION OF ECT SENSOR CONNECTOR • Turn the ignition switch off. • Disconnect ECT sensor connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
4	CLASSIFY ECT SENSOR MALFUNCTION OR WIRING HARNESS MALFUNCTION • Connect the WDS or equivalent to the DLC-2. • Access ECT PID. • Connect a jumper wire between ECT sensor terminals A and B. • Verify the ECT value. • Is the voltage 4.6 V or below ?	Yes	Replace the ECT sensor, then go to Step 9.
		No	Go to the next step.
5	INSPECT ECT SENSOR SIGNAL CIRCUIT FOR SHORT TO POWER • Turn the ignition switch to the ON position (Engine off). • Measure the voltage between ECT sensor terminal A (wiring harness-side) and body ground. • Is the voltage B+ ?	Yes	Repair or replace the wiring harness for short to power supply, then go to Step 9.
		No	Go to the next step.
6	INSPECT PCM CONNECTOR FOR POOR CONNECTION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
7	INSPECT ECT SENSOR SIGNAL CIRCUIT FOR OPEN CIRCUIT • Inspect the continuity between ECT sensor terminal A (wiring harness-side) and PCM terminal 2AK. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for open circuit, then go to Step 9.
8	INSPECT ECT SENSOR GROUND CIRCUIT FOR OPEN CIRCUIT • Inspect for continuity between ECT sensor terminal B (wiring harness-side) and PCM terminal 2AA. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for open circuit, then go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0118 COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • Is the same DTC present?	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [LF] .)
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE • Perform "After Repair Procedure". (See AFTER REPAIR PROCEDURE [LF] .) • Are any DTC present?	Yes	Go to the applicable DTC troubleshooting. (See DTC TABLE [LF] .)
		No	Troubleshooting completed.