

Reference	SSM72159
Models	LR4 / L319
Title	15MY LR4 with P2183-00 stored in the PCM
Category	Engine
Last modified	29-Jan-2015 00:00:00
Symptom	402000 Cooling System Concerns
Attachments	15MY L319 P2183 SSM Info (1).pdf

ContentIssue:

The MIL is illuminated and P2183-00 is stored in the PCM, but with no driveability concerns raised by the customer.

Cause:

The P2183-00 code is set when the PCM detects a problem with the temperature reading from 'Engine Coolant Temperature Sensor 2 Circuit'. If the long term average value is stuck (movement of sensor value is not as expected during a monitored drive cycle), the code will set.

Action:

Please follow the actions listed in TOPIx to check for the following possible causes:

- Blockage in coolant system Insufficient mixture of antifreeze creating possibility of icing in coolant system
- Connector is disconnected, connector pin is backed out, connector pin corrosion
- Engine coolant temperature sensor circuit short circuit to power, short circuit to ground, open circuit, high resistance
- Engine coolant temperature sensor failure

IF NO FAULT IS FOUND, please raise a TA and provide information of any actions taken along with the detail listed in the attached file.

Please also provide answers to as many of the following questions as possible:

- What are the climate control temperature settings (front both sides and rear) of the vehicle currently?
- Is auto is selected?
- If auto is not selected, what is the fan speed?
- Is the A/C (air conditioning) control switch on or off?
- Does the customer recall if the climate control settings for the front or the rear have been adjusted since the MIL was illuminated (what have the settings changed from and to)?
- How was the vehicle being driven when the fault occurred?
 - Approx ambient temp
 - How long since vehicle was started
 - Speed being driven (steady state, under acceleration or deceleration)
 - Any other observations from the customer (such as an unexpected change in cabin temperature, or the temperature setting adjusted?)

IF A FAULT IS FOUND, please raise an EPQR listing details of the fault found and the actions taken to make the repair. Please retain any part replaced for this issue and list it in the EPQR so the factory team can call it back if required.

Please note the following:

1. Is auxiliary climate control installed?



2. Does the aux coolant pump operate when the engine is running?

The pump should begin to run approx. 1 second after engine start and run continuously.

Verify this with by placing suitable listening equipment against the top surface of the pump from the top of the engine bay.

NOTE. Take the necessary care and precautions when using listening equipment in an engine bay with moving components.

