

<b>Reference</b>	SSM72178
<b>Models</b>	LR4 / L319
<b>Title</b>	15MY LR4 with P2183-00 stored in the PCM
<b>Category</b>	Engine
<b>Last modified</b>	11-Feb-2015 00:00:00
<b>Symptom</b>	402000 Cooling System Concerns

**Content**Issue:

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 the '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.

While the diagnostic is intended to detect a fault with the cooling system, in some situations the diagnostic is not working as expected and will set the P2183-00 code when in fact there is not a fault with the cooling system.

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 an EPQR and provide information of any actions taken along with answers to as many of the following questions as possible:

- 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?)

Faults of this nature are being investigated by the central engineering team and revised PCM software will be forthcoming to address a specific issue with the P2183-00 diagnostic logic. Until this resolution is available in the market, please ensure there are no other faults with the vehicle and it is built according to factory specification. The PCM code can be cleared and the vehicle returned to the customer.

Land Rover recommends the customer be notified there is a slight possibility the check engine light will return due to the same concern. This will not affect vehicle driveability. Retailers will be advised via the standard publication process when a robust solution becomes available.

If the customer has any additional concerns they can be advised to contact the Land Rover Customer Relationship Center at: 1-800-637-6837, Option 9.

IF A FAULT IS FOUND, please also raise an EPQR listing details of the fault found and the actions taken to make the repair. Please provide details of any other faults found relating to powertrain in addition to the P2183-00 code.