

<b>Reference</b>	SSM72610
<b>Models</b>	Discovery Sport / L550 LR4 / L319 Range Rover / L405 Range Rover Evoque / L538 Range Rover Sport / L494
<b>Title</b>	DTC P20E8 – Reductant pressure too low –signal above allowable range
<b>Category</b>	Engine
<b>Last modified</b>	29-Jan-2016 00:00:00
<b>Symptom</b>	403000 Exhaust System Concerns
<b>Content</b>	<p><b><u>Issue:</u></b> Customers may report the engine management light (MIL) is illuminated with the possibility of a ‘<b>No engine restarts in xxx miles/km, diesel exhaust fluid dosing malfunction</b>’ warning message displayed within the instrument cluster message centre and DTC’s <b>P20E8-84/85 and P2BAE/P2BAF stored in the PCM (Powertrain Control Module).</b></p> <p><b>NOTE: If other codes are stored in the PCM they must be investigated and resolved before following the advice detailed in this SSM.</b></p> <p><b><u>Cause:</u></b> The system has detected a pressure deviation in the DEF (Diesel Exhaust Fluid) injection system.</p> <p><b><u>Action:</u></b> Issue is most likely to occur during the first 1000miles/1600km but is entirely dependent on drive style and road conditions, so there is a possibility for higher mileage vehicles to experience the concern, particularly where the “No engine restarts in xxx miles/km, diesel exhaust fluid dosing malfunction” message is only present for one driving cycle.</p> <p>Visually inspect the DEF tank, supply line and dosing module for any leaks/damage or loose electrical connectors, repair any faults identified. Proceed to the routine detailed below once faults have been repaired or if no fault is found.</p> <p>Please complete the following routine, this will prime, purge and pressure test the DEF/SCR system:</p> <ol style="list-style-type: none"> <li>1. Start SDD session and enter service functions (<b>DVD143 Patch 3 onwards</b>)</li> <li>2. Under the powertrain section run the ‘<b>Diesel exhaust fluid prime and pressure test routine</b>’ and the ‘<b>Reset selective catalyst reduction quality monitor</b>’</li> </ol>

3. Once completed successfully, clear the DTC's.

**NOTE: Upon DTC clear, the warning changes to “No engine restarts in xxx miles, diesel exhaust fluid dosing malfunction” also make sure the engine MIL is off (when engine is running).**

4. Complete the following drive cycle making sure the DEF/SCR system monitor conditions are met:

- Drive the vehicle at 'urban' speeds (<50mph) and light engine load
- Drive for at least 15 minutes to ensure the exhaust reaches minimum temperature (100degC or 212degF) to trigger DEF/SCR pressure build up. Make sure the exhaust temperature remains under **300degC** or **572degF (use data logger if required)**
- The 'inducement' warning clears automatically once the monitoring has executed. This terminates the driving cycle.

**NOTE: If the engine MIL shows during the driving cycle, the malfunction has re-occurred, this will require further diagnosis on the DEF/SCR system. Please raise a TA for Help Desk and engineering to assist as and when appropriate**

5. Clear Faults/PCodes after the driving cycle, this clears up the DTC's P2BAE/P2BAF