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| <b>Reference</b>     | SSM75863   |
| <b>Models</b>        | Defender / L663<br>Discovery Sport / L550<br>New Range Rover / L460<br>New Range Rover Evoque / L551<br>New Range Rover Sport / L461<br>Range Rover / L405<br>Range Rover Sport / L494<br>Range Rover Velar / L560   |
| <b>Title</b>         | Concern regarding EV Mode not being available when selected by the driver (PHEV Engines)   |
| <b>Category</b>      | Electrical   |
| <b>Last modified</b> | 27-Apr-2023 00:00:00   |
| <b>Symptom</b>       | 206000 Warning Indicators  |
| <b>Content</b>       | <p><b>L663, L560, L405, L494, L460, L461, L550, L551</b><br/> <b>PHEV powertrains only</b><br/> <b>2020-2023 MY</b></p> <p><b><u>Issue:</u></b></p> <p>The Electric Vehicle (EV) driving mode does not operate as expected when selected by the driver. In some cases:</p> <ul style="list-style-type: none"> <li>• The EV driving mode will not be selectable</li> <li>• The engine will start unexpectedly</li> <li>• An 'EV Mode not available' warning will be displayed on the Instrument Panel Cluster.</li> </ul> <p><b><u>Cause:</u></b></p> <p>The most likely cause is due to the Powertrain Control Module (PCM) air-fuel adaptations being in an incomplete state. This can occur following a recent PCM Software Over The Air (SOTA) update or after clearing Diagnostic Trouble Codes (DTCs) stored within the PCM, which results in the adaptations being reset.</p> <p>The PCM needs to identify a variety of engine running conditions in order to re-learn the adaptations and therefore remove the engine start request, allowing the EV driving mode to operate as expected.</p> <p><b><u>Action:</u></b></p> <ul style="list-style-type: none"> <li>• Complete the 'PCM - Fuel Adaption Re-Initialization' application in TOPIx Cloud</li> <li>• Make sure the EV battery has sufficient State of Charge (SoC) and then drive the vehicle, periodically selecting the EV driving mode to confirm the concern has been resolved</li> <li>• If the concern is still present, then refer to TOPIx Cloud Fault and Breakdown for further guidance.</li> </ul> |

**NOTE:**

The 'PCM - Fuel Adaption Re-Initialization' application is only available for P6 PHEV vehicles. For P4 PHEV vehicles, the adaptations must be learned by driving the vehicle. The drive cycle must include the following scenarios:

- Steady cruise at a continuous speed
- Steady acceleration from a stationary position
- Overrun periods where the engine has the opportunity to enter the 'Fuel-Cut' state.

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