

Reference	SSM75863
Models	Defender / L663 Discovery Sport / L550 New Range Rover / L460 New Range Rover Evoque / L551 New Range Rover Sport / L461 Range Rover / L405 Range Rover Sport / L494 Range Rover Velar / L560
Title	Concern regarding EV Mode not being available when selected by the driver (PHEV Engines)
Category	Electrical
Last modified	01-Mar-2023 00:00:00
Symptom	206000 Warning Indicators
Content	<p>L663, L560, L405, L494, L460, L461, L550, L551 PHEV powertrains only 2020-2023 MY</p> <p><u>Issue:</u></p> <p>EV (Electric Vehicle) Mode not available when selected by the driver, petrol engine running when not expected or 'EV Mode not available' warning displayed on the screen</p> <p><u>Cause:</u></p> <p>Engine start is requested due to conditions of the Powertrain system. The most likely cause is due to PCM Air-Fuel adaptations being in an incomplete state. This can happen post a PCM SOTA update or DTC clear event which results in the adaptations being reset. The PCM needs to see a variety of engine running conditions in order to re-learn the adaptations and therefore remove the engine start request, allowing EV Mode to function.</p> <p><u>Action:</u></p> <p>The first action is to run the 'PCM - Fuel Adaption Re-Initialization' application in TOPIx. Ensure the HV battery has sufficient State of Charge and then drive the vehicle, periodically selecting EV Mode to confirm the concern has been resolved. If the concern persists, then please refer to TOPIx workflow for further guidance.</p> <p>Note, this application is available only for P6 PHEV powertrains. If the vehicle has a P4 PHEV powertrain, the adaptations must be learned by driving the vehicle. The drive cycle should have variety and include the following scenarios:</p> <ul style="list-style-type: none">• Steady state cruise

- Pull-aways from rest
- Overrun periods where the engine has opportunity to enter fuel-cut mode

Smooth pedal inputs are sufficient

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