

Reference	SSM75862
Models	E-PACE / X540 F-PACE / X761
Title	Concern regarding EV Mode not being available when selected by the driver (PHEV Engines)
Category	Electrical
Last modified	09-Dec-2022 00:00:00
Symptom	206000 Warning Indicators

Content **X761, X540**
PHEV powertrains only
2020-2023 MY

Issue:

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

Cause:

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.

Action:

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.

Note, this application is available only for P3 and 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:

- 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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