



## HOW YOUR MAZDA 2.5 L e-SKYACTIV PHEV OPERATES IN COLD WEATHER



While Plug-in Hybrid Electric Vehicles (PHEVs) are a big step forward, Canadian winters bring challenges for all electrified vehicles, including PHEVs. Your Mazda 2.5 L e-Skyactiv PHEV has been designed to automatically manage these cold weather considerations.

## 1. DRIVE NORMALLY

The colder it gets, the less efficiently and quickly an EV battery can charge. When needed, the gasoline engine can take over and jump in instantly. This impacts how far you can travel in Electric Vehicle (EV) drive mode and the ability to heat the interior of the vehicle without starting the gasoline engine.

In low temperatures, the maximum driving display will be shown as “1 km”, even if the battery is fully charged. There’s no need to be concerned – your Mazda PHEV is letting you know that the battery temperature is too low for EV drive mode operation and that the Hybrid Electric Vehicle (HEV) mode has been prioritized. As a result, your Mazda PHEV will run entirely on gas until the battery temperature reaches a state and temperature in which it can re-engage. So, just drive as usual with your vehicle in Normal drive mode and let your Mazda optimize its own operation. EV drive mode will automatically re-engage as soon as the battery management system (BMS) determines it should.

## 2. HYBRID FUNCTIONALITY CHARACTERISTICS

When cold battery temperature conditions are detected, BMS may override EV drive mode operation and start the gasoline engine – rather than the battery – to generate power and heat. This is cold weather optimizing, and it’s designed to help protect your battery and its components from damage, while helping to keep your Mazda’s electricals, climate control, safety and convenience features working seamlessly. In cold weather temperatures, the engine may start and use fuel, even with a fully charged battery. Make sure there is fuel in the tank.

Remember that while the vehicle is plugged in, using your MyMazda app or onboard preconditioning timers in Mazda Connect is a good way to help warm the cabin and defrost windows faster.

## 3. WHAT YOU CAN DO

There are a couple of things you can also do to help optimize EV battery health and operation.

Because of cold Canadian winters, you should have a Level 2 charger in your home. Do not leave your Mazda PHEV in extremely low temperatures for long periods of time. Do not leave your vehicle for longer than 14 days with the battery at Empty (level 0). If you’re going away on a trip to escape winter, leave your Mazda PHEV charged to full, and parked indoors, if possible.

