	GROUP <b>Electrical</b>	MODEL <b>2017-18MY Niro (DE HEV) Niro Plug-in (DE PHEV) Optima Hybrid (JF HEV) Optima Plug-in Hybrid (JF PHEV)</b>
	NUMBER <b>PS522</b>	DATE <b>October 2017</b>




## TECHNICAL OPERATIONS

**SUBJECT: ECO-COASTING (ECOASTING) & ECO-DAS (DRIVING ASSISTANT SYSTEM) OVERVIEW – CUSTOMER TIP**

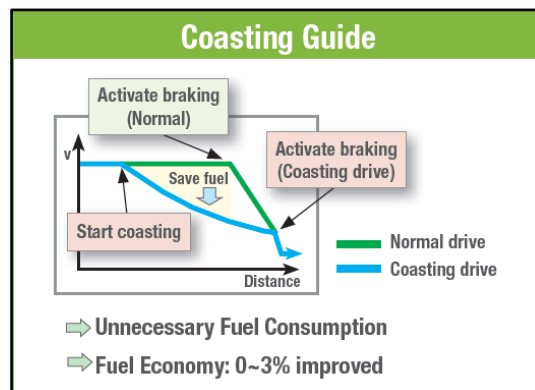
This Pitstop provides information regarding Eco-Coasting Guide (eCoasting) and Eco-Driving Assistant System (DAS) found on 2017-18MY Niro (DE HEV), Niro Plug-in (DE PHEV), Optima Hybrid (JF HEV), and Optima Plug-in (JF PHEV) vehicles.

**Eco-Coasting (eCoasting)** is a predictive energy control system that works in conjunction with the Premium Navigation/UVO eco (AVN 4.0/5.0) head unit. With the vehicle's driving mode in ECO, eCoasting enabled, and an active destination set on the Navigation, the system will predict the road conditions and encourage the driver to take their foot off the accelerator to allow the vehicle to coast and regenerate with the help of the EV motor. This coasting guide helps prevent unnecessary fuel consumption.

When the coasting guide is active, the driver will be notified with an audible chime and a flashing “Coast” lamp (  ) on the cluster. The audible chime can be turned ON or OFF within the cluster settings. This notification may surprise some customers if they are unaware of this feature and they may mistake it for a concern.

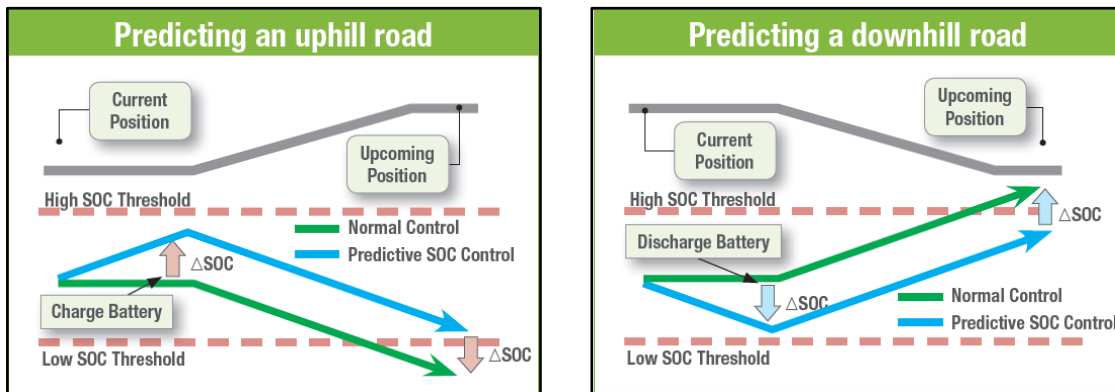
**Customer concerns may include:**

- Knowing the Eco-Coasting feature system exists but has not seen it active before
- A warning message randomly appears on the cluster and quickly disappears
- A warning chime is heard for no apparent reason with no other vehicle concerns



**Eco-Driving Assistant System (DAS)** is another predictive energy control system that works in conjunction with the Premium Navigation/UVO eco (AVN 4.0/5.0) head unit. With the vehicle's driving mode in ECO and an active destination set on the Navigation, the system will analyze the topography of the route, such as elevation, slope, and curvature and automatically adjust the state of charge (SOC) based on the predicted road conditions.

These adjustments are all done automatically without any input from the driver. Before entering an uphill section, the system will add an additional charge to the hybrid battery to account for the additional load that will be placed on the vehicle during the uphill climb. Conversely, when a downhill section is predicted, the system will increase the use of the EV drive mode. As the vehicle descends downhill, the vehicle will charge to the normal range by using downhill regenerative braking.



### Reminders:

- Eco-Coasting and Eco-DAS are only functional when an active destination is set on the Premium Navigation/UVO eco (AVN 4.0/5.0) head unit, the vehicle drive mode is in ECO, and the coasting guide is enabled.
- The eCoasting feature, audible notification, and distance-to-activation can be turned ON/OFF or adjusted through the cluster settings.