



GROUP
Engine

MODEL
2017MY
Niro (DE)

NUMBER
491

DATE
February 2017



TECHNICAL OPERATIONS

SUBJECT: Voltage Protection Device (VPD) DTCs
P1BA7 and P1B77

The Voltage Protection Device (VPD) (1) is mounted on top of the HV battery pack. If the HV battery overcharges, the battery cells/modules/case can swell. If swelling occurs, the VPD switch will turn ON, and the Battery Management System (BMS) will receive the VPD "ON" signal and turn off the Power Relay Assembly (PRA) to prevent damage.

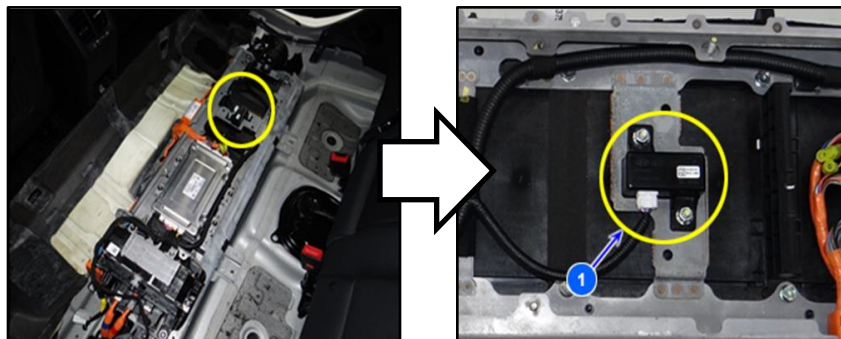
Exercise caution when working on or in the area of the HEV battery assembly. Leaning or pressing on the VPD switch can cause:

- The switch to activate/turn ON,
- The BMS to turn OFF the PRA,
- The EV Warning Light to turn ON, and
- DTCs P1BA7/P1B77 to set. (These DTCs will prevent the vehicle from going into the **READY** mode.)



CAUTION

Use caution not to touch or push on the VPD (1) as it may set DTCs: P1BA7 (Battery Overcharge Detection Active) and P1B77 (HV Pre-Charge Fault), and result in an inoperable vehicle.



* NOTICE

If DTCs P1BA7 and P1B77 are erased from the BMS, the P1BA7 will not recode and only the PRA DTC P1B77 will display as an active DTC. Under these circumstances, **DO NOT** replace the PRA assembly. Instead, remove the VPD, reset/unswitch the VPD, reinstall, and erase all DTCs.