

2009 Saturn VUE Two-mode Vehicles

Quick Reference Sheet

Vehicle Identification

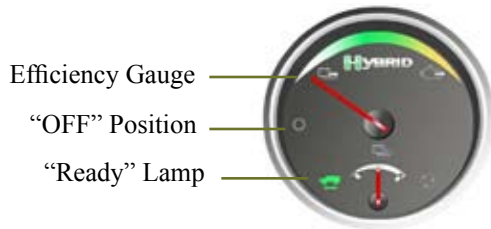
Special badging is used to identify the Saturn VUE Two-mode Hybrid vehicles.

A Hybrid badge is located on the right and left front fenders of the Saturn VUE Two-mode Hybrid vehicles.



One of these emblems is also located on the lower right corner of the vehicle's liftgate.

An efficiency gauge with ready lamp is unique to the Saturn VUE Two-mode Hybrid vehicles. On the efficiency gauge there is a position that indicates the vehicle is "OFF".



Efficiency Gauge

"OFF" Position

"Ready" Lamp

When the hood is opened, the Two-mode Hybrid system is identified by a Hybrid badge on the Hybrid sight shield.



The HP5 option listed on the RPO sheet (located in the glove box), can be used to identify the vehicle as a Two-mode Hybrid.

HP5



Approaching a Two-mode vehicle in Electric Vehicle (EV) Mode:

When the Two-Mode vehicle is in EV mode it is capable of propelling the vehicle electrically. This mode allows the vehicle to be propelled at speeds up to 30 mph, (40 Kp/h) while the engine is not running. Without depression of the accelerator pedal, just enough energy is provided by the electric motors to allow the vehicle to creep slowly when in gear. This operation is similar to a Non-Hybrid vehicle that has an idling engine. Depressing the accelerator pedal allows the vehicle to propel, and depending on the amount of pedal depression, could also result in the starting of the engine.



Perform the disabling 12V power procedure to ensure that all vehicle propulsion modes have been disabled.

How to identify if vehicle is "OFF"

1. Key should be turned to the "OFF" position and removed.
2. Efficiency gauge should be at the "OFF" position.
3. "Ready" lamp should not be illuminated.

"OFF" Position
"Ready" Indicator (not illuminated)



Located behind the second row seat under the sub-floor is the 300V Hybrid battery.

A "DANGER HIGH VOLTAGE" label is attached to the Hybrid battery case under the felt cover, indicating high voltage.



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To disable 12V power you must:



1. Turn the ignition key to the OFF position.

- And -



2. Remove the 12 volt (+) positive battery cable from the battery post. Ensure the terminal cannot contact the battery post (located in the left rear of the vehicle).

Note: After disabling 12V power, wait at least 10 seconds to allow any un-deployed air bag reserve energy to dissipate.

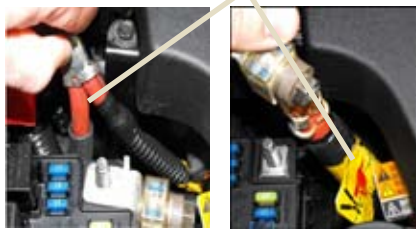
To disable 12V power when the ignition key is NOT accessible, you must:

Locate the 12 volt cables at the underhood fuse box (front center of the engine compartment) – to cut and separate all three cables.

1. Cut both 12V cables at the dotted lines shown.



2. Pull up each cable and cut each cable below the crimped terminal area.



3. After cutting the cables, separate all three cables so they do not touch.

Note: After disabling 12V power, wait at least 10 seconds to allow any un-deployed air bag reserve energy to dissipate.

High Voltage Manual Disconnect

If accessible, you can further minimize the potential for 300V current flow by removing the manual disconnect lever from the 300 volt Hybrid battery (located at the left front of the 300V battery). The hybrid battery is located behind the rear seats under the load floor.

1. Lift handle
2. Slide towards center of battery
3. Pull up and disengage



DANGER: The manual disconnect lever is designed to facilitate servicing of the vehicle. The energy potential within the 300V battery cannot be disabled. Even with the disconnect removed, assume the high voltage cables and components contain high voltage. If the 300 volt battery is exposed, it should only be handled by a properly trained technician - Otherwise, serious injury or death may occur.

High Voltage Cables - DO NOT CUT ZONES

Performing the “Disabling 12 Volt Power” procedure will eliminate current flow through the 12 volt system and should also disable the high voltage electrical system, external to the 300V battery.



DANGER: Do NOT cut the orange high voltage 300 volt cables. Cutting these cables can result in serious injury or death. No matter what disable method you have performed, always assume the high voltage cables and components contain high voltage.

Vehicle DO NOT CUT ZONES

Do NOT cut the:

- Area near the passenger side frame rail. High voltage 300 volt wiring is routed near the frame rail on the passenger side of the vehicle.
- Roof rails between the windshield and ‘D’ pillars (rear pillars). Saturn VUE Two-mode Hybrid vehicles are equipped with side impact air bags.
- Two-mode Hybrid battery. The Two-mode Hybrid battery has 300 volt electrical potential at all times.

DO NOT CUT HERE. Roof rails between the windshield and ‘D’ pillars (rear pillars). Side impact air bags.

DO NOT CUT HERE. Side curtain air bags.



DO NOT CUT HERE. Under center of vehicle 300 volt electrical cables may contain high voltage energy.

DO NOT CUT HERE. Two-mode Hybrid battery has 300 volt electrical potential at all times.

WARNING: Do NOT cut into the vehicle until the 12V electrical system has been deactivated. Cutting into the vehicle prior to disconnecting and isolating the 12V electrical energy sources may cause air bag deployment resulting in serious injury.