

Accord

2014–17 Honda Accord Hybrid Emergency Response Guide

Prepared for Fire Service, Law Enforcement, Emergency Medical, and Professional Towing Personnel

NOTE: Honda did not produce the Accord Hybrid for the 2016 model year.

Supersedes 2014-15 Honda Accord Hybrid Emergency Response Guide, dated August 2015

This guide has been prepared to assist emergency response professionals in identifying a 2014–17 Honda Accord Hybrid vehicle and safely respond to incidents involving this vehicle.

Copies of this guide and other emergency response guides are available for reference or downloading at <https://techinfo.honda.com>.

For questions, please contact your local Honda dealer or Honda Automobile Customer Service at (800) 999-1009.

Honda wishes to thank emergency response professionals for their concern and efforts in protecting Honda customers and the general public.



Contents

Vehicle Identification.....	4
Vehicle Dimensions.....	7
Vehicle Description.....	8
Component Location.....	12
Potential Hazards.....	14
Vehicle Collision & Submerged Vehicles.....	15
Emergency Procedures High-Voltage Shut Down Procedure.....	16-18
Emergency Procedures Extricating Occupants.....	19
Emergency Towing & Vehicle Repairs.....	20

The Honda Accord Hybrid can be identified by the exterior **Hybrid** marks located on the front fenders and the trunk lid. You can also identify an Honda Accord Hybrid by the **Hybrid** mark under the hood.



A Honda Accord Hybrid also be identified by inspecting the VIN at the three locations shown below. Characters 4–6 of the VIN will show **CR6** indicating that it is a Honda Accord Hybrid.

JHM **CR6*******000001

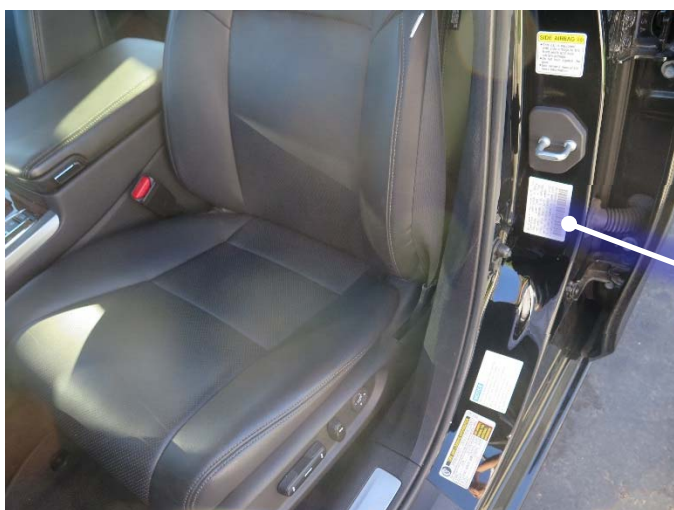
NOTE: Photos are examples only



In front of passenger seat under plastic panel marked
FRAME NUMBER



In lower-right corner of windshield



On driver's door jamb

The Honda Accord Hybrid has two variations. One for 2014–15 model and the other for the 2016–17 model.

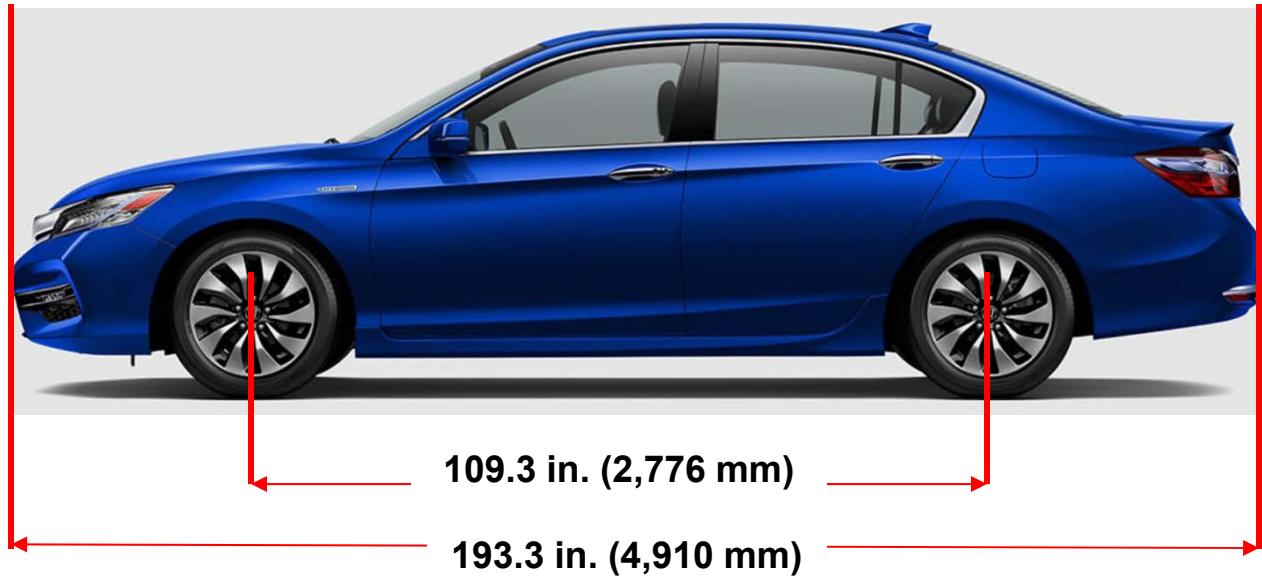


2014–2015 Models



2016–2017 Models

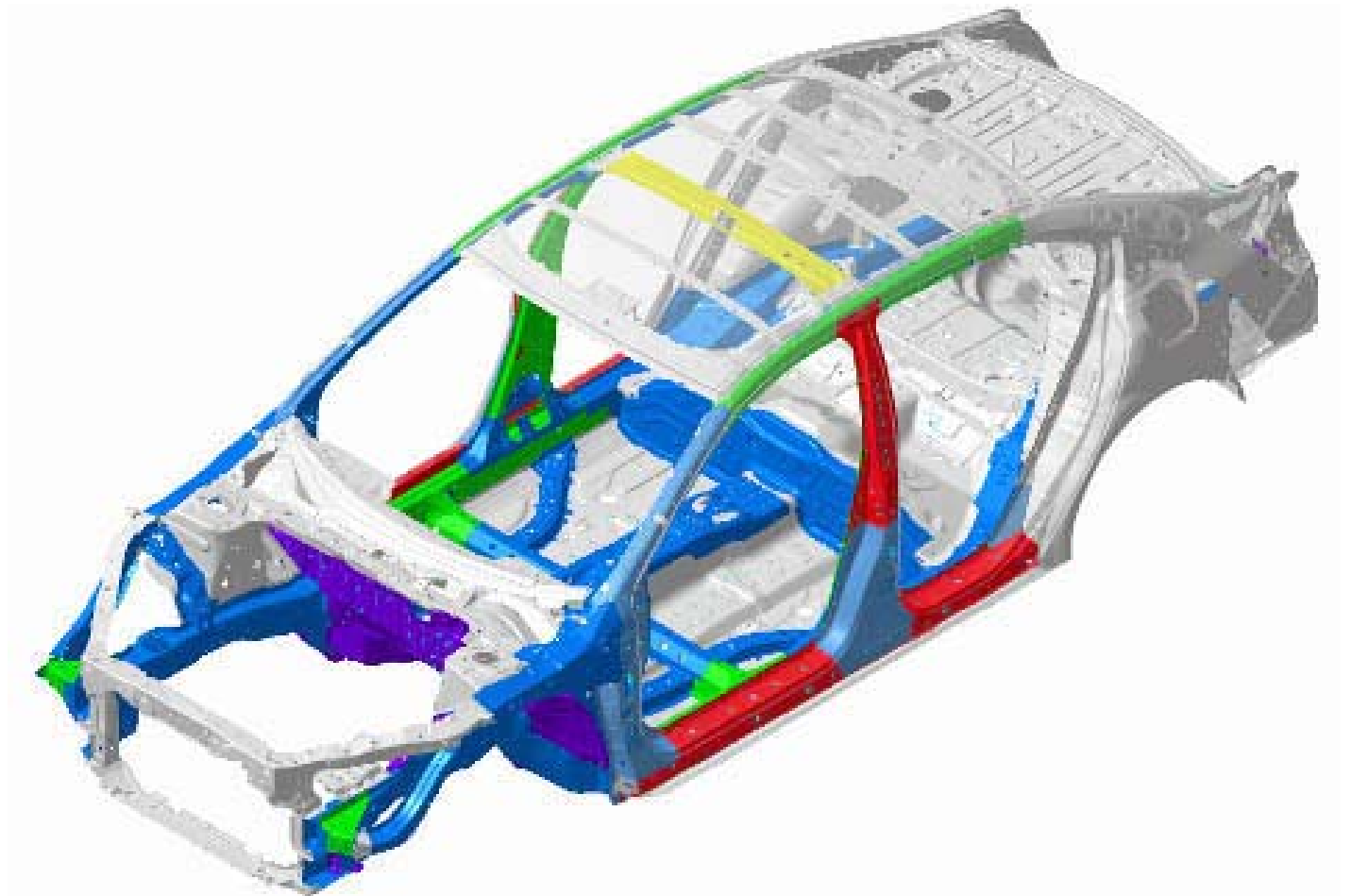




Vehicle Weight = 4,542 lbs (2,060 kg)

High-Strength and Ultra-High-Strength Steel

The body of the Honda Accord Hybrid is comprised of high-strength steel and ultra-high-strength steel indicated in the colored areas.



1500 Mpa

980 Mpa

780 Mpa

590 Mpa

440 Mpa

270 Mpa

Occupant Protection Equipment

The Accord Hybrid is equipped with lap/shoulder belts in all five seating positions. Front seat belts are equipped with pyrotechnically activated tensioners that help tighten the seat belt in a crash. Front, front side, and side curtain airbags are also provided.

In a collision severe enough to deploy one or more of the airbags, the Accord Hybrid electrical system is designed to automatically open the high-voltage electrical contactors. This disconnects the high-voltage battery from the other high-voltage components and stops the flow of electricity in the high-voltage cables.

Responders should always assume, however, that the HV system is powered on and take the appropriate action described later in this guide to power off the system.

It takes up to 3 minutes for the airbags and tensioners to power off after the 12-volt system has been turned off by following the emergency shutdown procedures provided later in this guide.



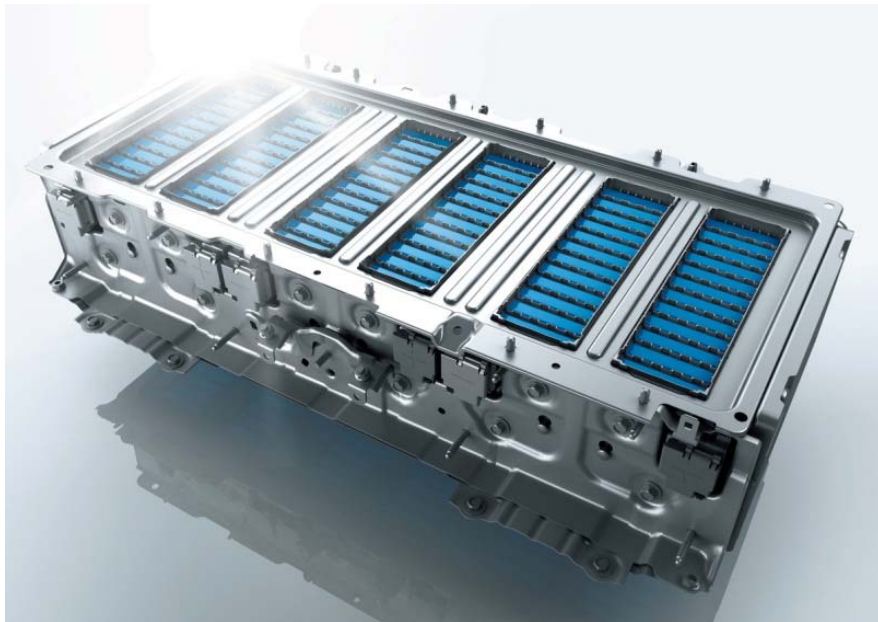
12-Volt Battery

A conventional 12-volt battery is located under the front hood of the vehicle. This battery powers the airbags, lights, audio system, and other standard 12-volt system components. In an emergency situation, it may be necessary to disconnect or cut the 12-volt battery negative cable.



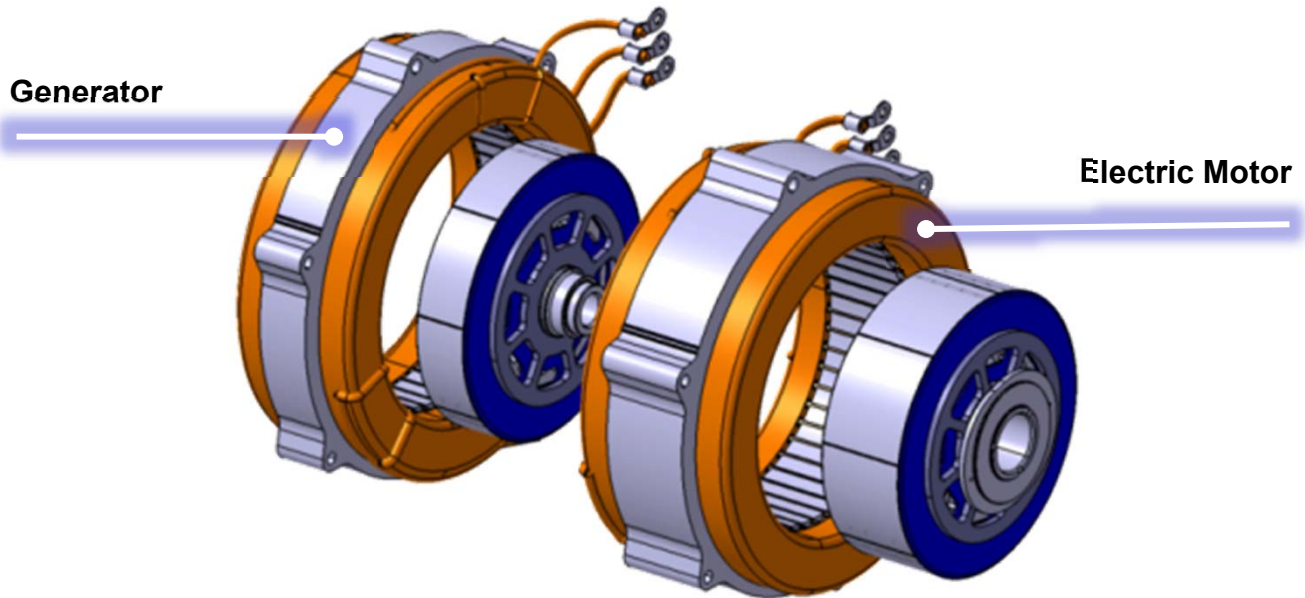
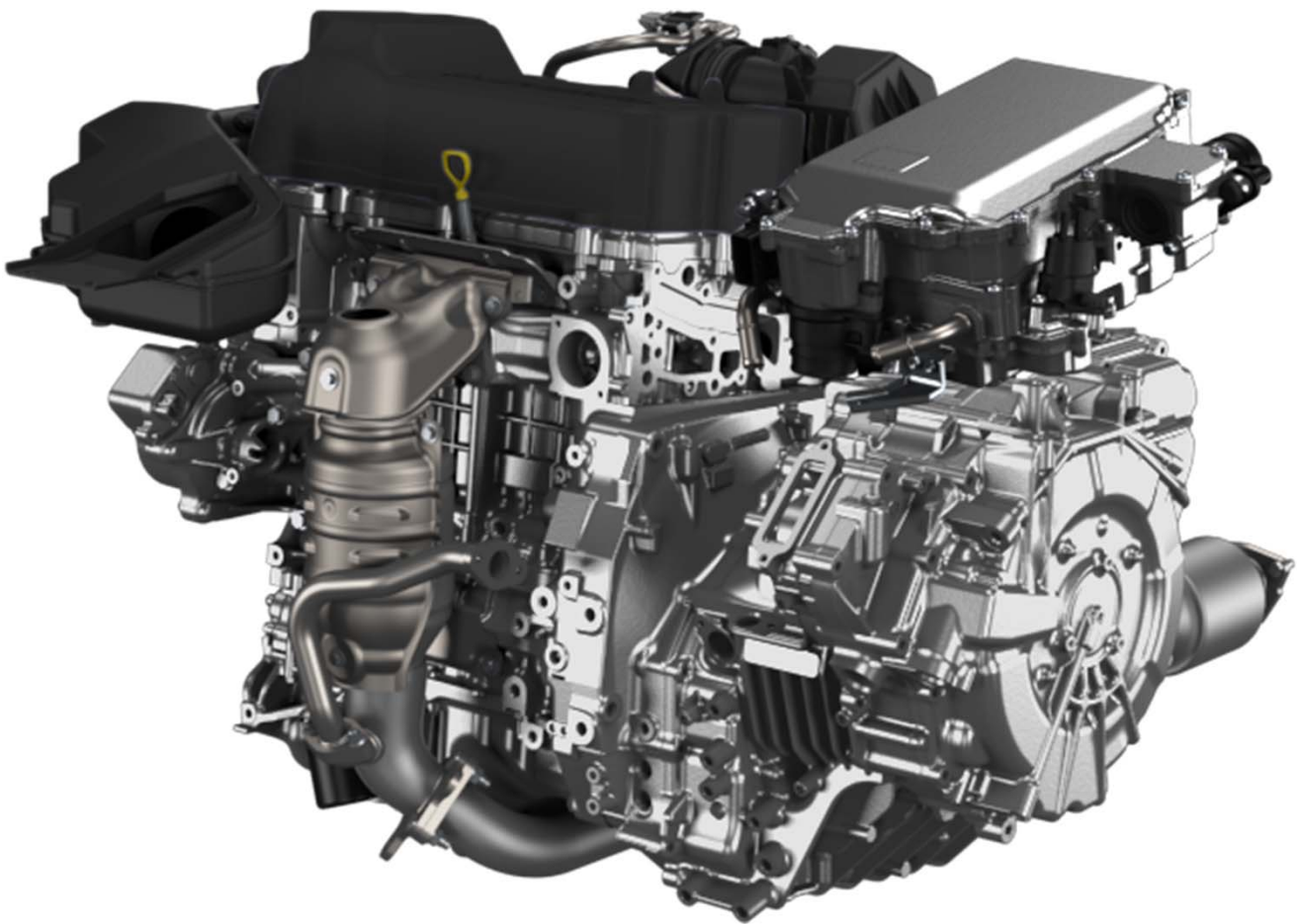
High-Voltage Lithium-Ion Battery

A 1.3 kilowatt hour (kWh) high-voltage lithium-ion battery pack is located in a well protected area behind the rear seat. The battery pack is made up of 72 3.6 volt cells, totaling approximately 260 volts. The intelligent power unit (IPU), the HV battery ECU, the battery contactors, a forced air cooling system, and other battery system controls are housed with the battery pack.

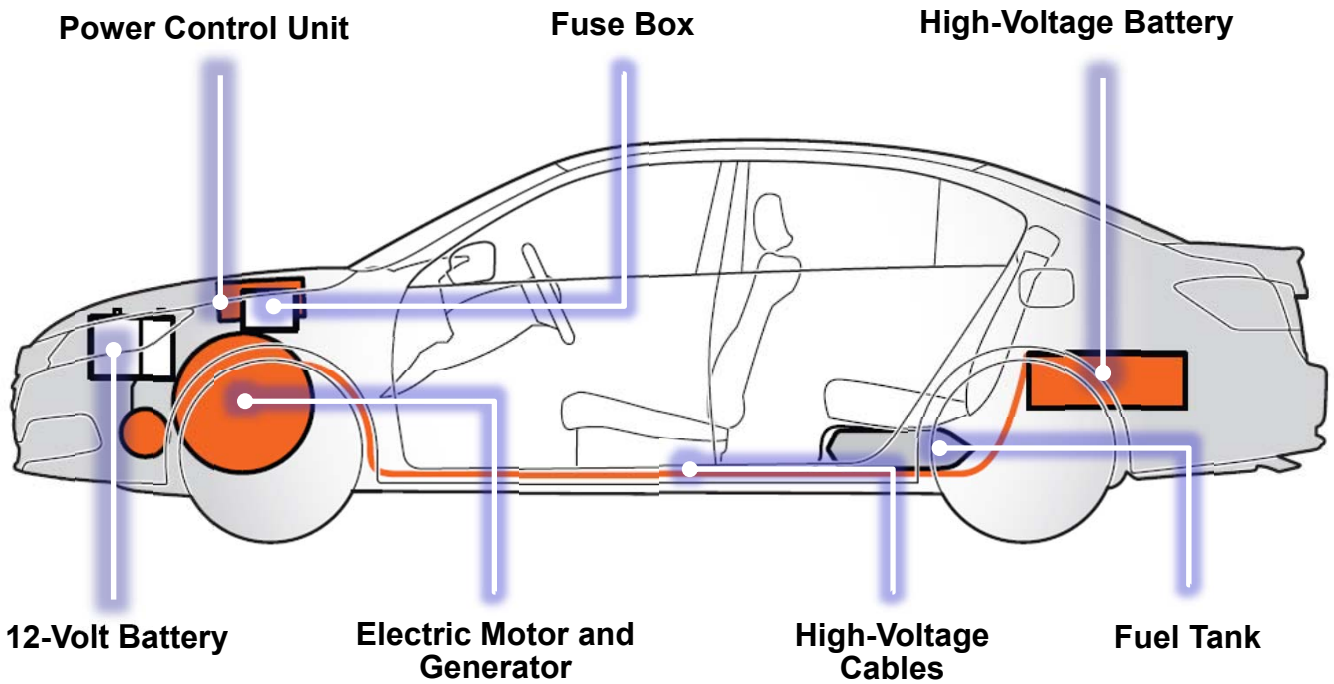
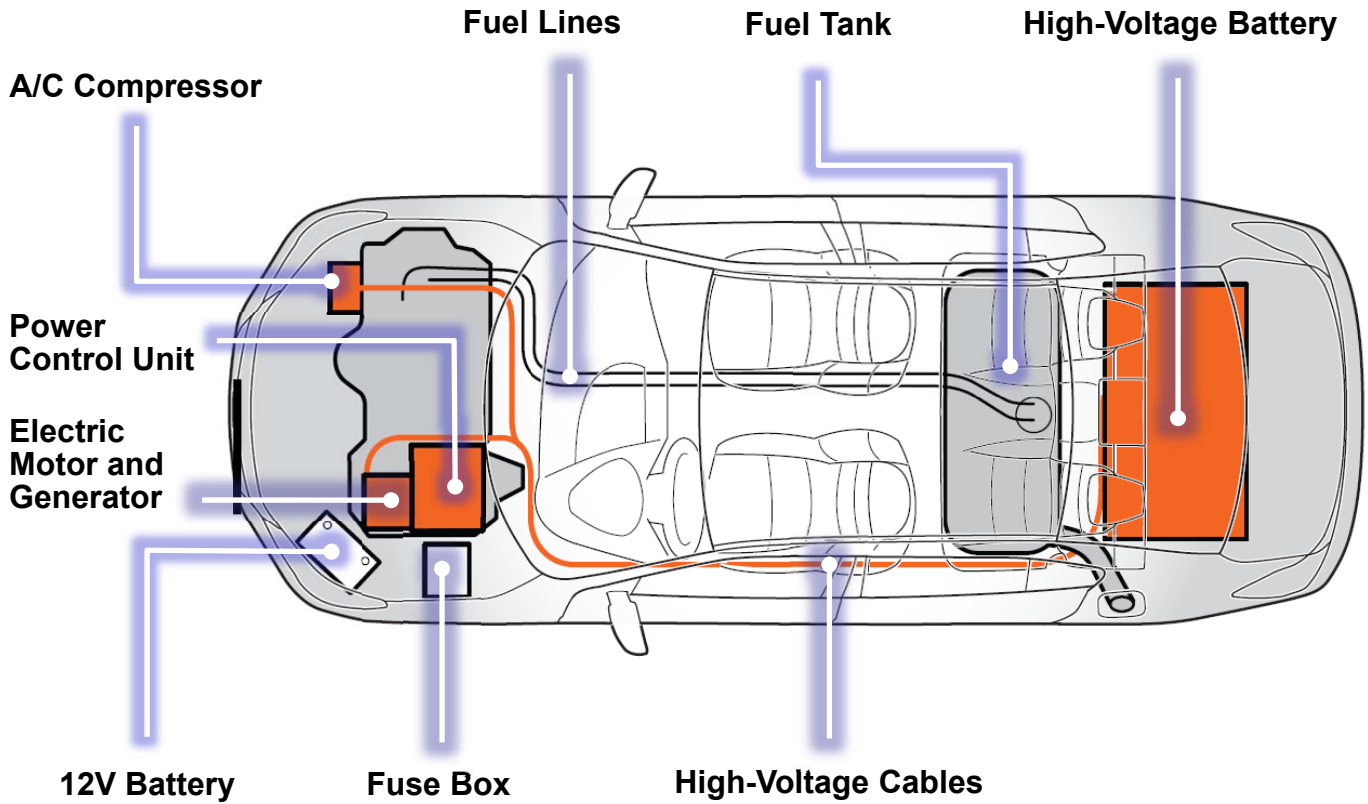


Electric Motor / Generator

The two-motor hybrid system contains an electric motor and a generator. The electric motor propels the vehicle using electric power directly produced by the generator and/or supplied by the high-voltage battery.



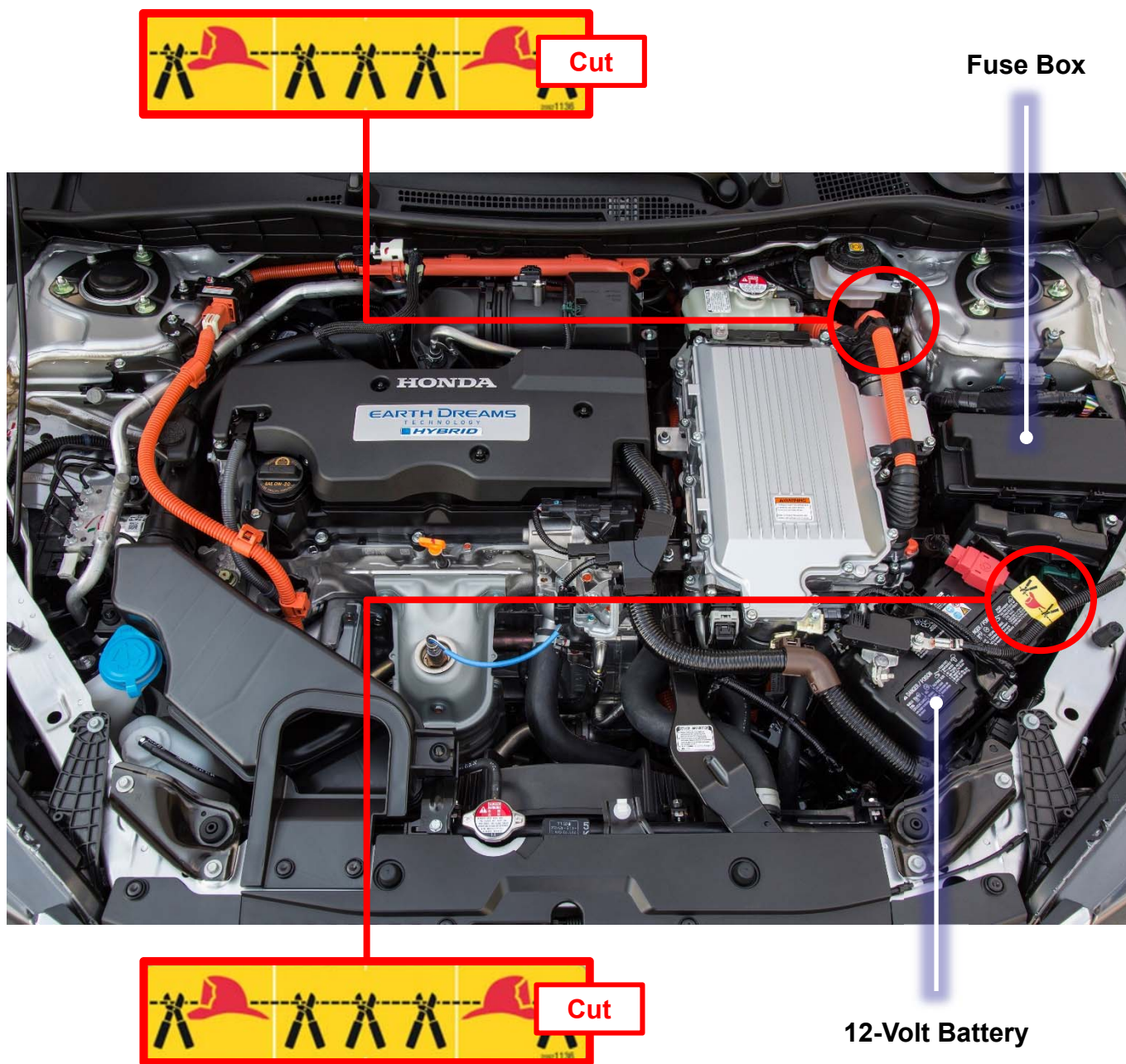
Key Components



High-Voltage Cables

High voltage flows through easy-to-identify, heavy-duty orange cables. These cables are purposely routed through areas away from the usual cut points.

There are two sections of the high-voltage cables that can be cut in the event of emergency and the high-voltage system needs to be shut down. They can be identified by the labels as shown.



Cut Point Labels
(Refer to page 19 for more information.)

Lithium-Ion Battery Fumes or Fire

A damaged high-voltage lithium-ion battery can emit toxic fumes and the organic solvent used as electrolyte is flammable and corrosive, so responders should wear appropriate personal protective equipment. Even after a lithium-ion battery fire appears to have been extinguished, a renewed or delayed fire can occur. The battery manufacturer cautions responders that extinguishing a lithium-ion battery fire will take a large and sustained volume of water.

Responders should always ensure that a Honda Accord Hybrid with a damaged battery is kept outdoors and far away from other flammable objects in order to minimize the possibility of collateral fire damage should the battery catch on fire.



Lithium-Ion Battery Fluid

Avoid contact with the high-voltage battery fluid. The high-voltage battery contains a flammable electrolyte that could leak as a result of a severe crash. Avoid any skin or eye contact with the electrolyte as it is corrosive. If you accidentally touch it, flush your eyes or skin with a large quantity of water for at least 5 minutes and seek medical attention immediately.

Electric Shock

Unprotected contact with any electrically charged high-voltage component can cause serious injury or death. Receiving an electric shock from a Honda Accord Hybrid, however, is highly unlikely because of the following:

- Contact with the battery module or other high-voltage components can only occur if they are damaged and the contents are exposed, or if they are accessed without following proper precautions.
- Contact with the electric motor can only occur after one or more components are removed.
- The high-voltage cables can be easily identified by their distinctive orange color, and contact with them can be avoided.

If severe damage causes high-voltage components to become exposed, responders should take appropriate precautions and wear appropriate insulated personal protective equipment.



Vehicle Collision

In the event of a crash, the airbag control unit makes a judgment based on input from the impact sensors. If the input values meet various threshold requirements, the airbag control unit sends a signal to the high-voltage battery ECU. The battery ECU then turns off the high-voltage battery contactors, stopping the flow of electrical current from the high-voltage battery.

When responding to an incident involving a Honda Accord Hybrid, we recommend that emergency personnel follow their organization's standard operating procedures for assessing and dealing with vehicle emergencies.

Given our knowledge of the Accord Hybrid, we also recommend that responders follow the procedures on the following pages to avoid potentially lethal shock by high voltage.

Submerged Vehicle

If an Accord Hybrid is submerged or partly submerged in water, first pull the vehicle out of the water. Then, shut down the high-voltage system using one of the two procedures described on the following pages.

Aside from severe damage to the vehicle, there is no risk of electric shock from touching the vehicle's body or framework — in or out of the water.

If the high-voltage battery was submerged, you may hear noises from the battery as the cells are being discharged from shorting.

Preventing Current Flow Through High-Voltage Cables

Before attempting to rescue occupants or move a damaged Honda Accord Hybrid, you should reduce the potential for current to flow from the electric motor or the high-voltage battery through the high-voltage cables.

There are **two recommended methods** for preventing current flow. These are discussed on the following pages.

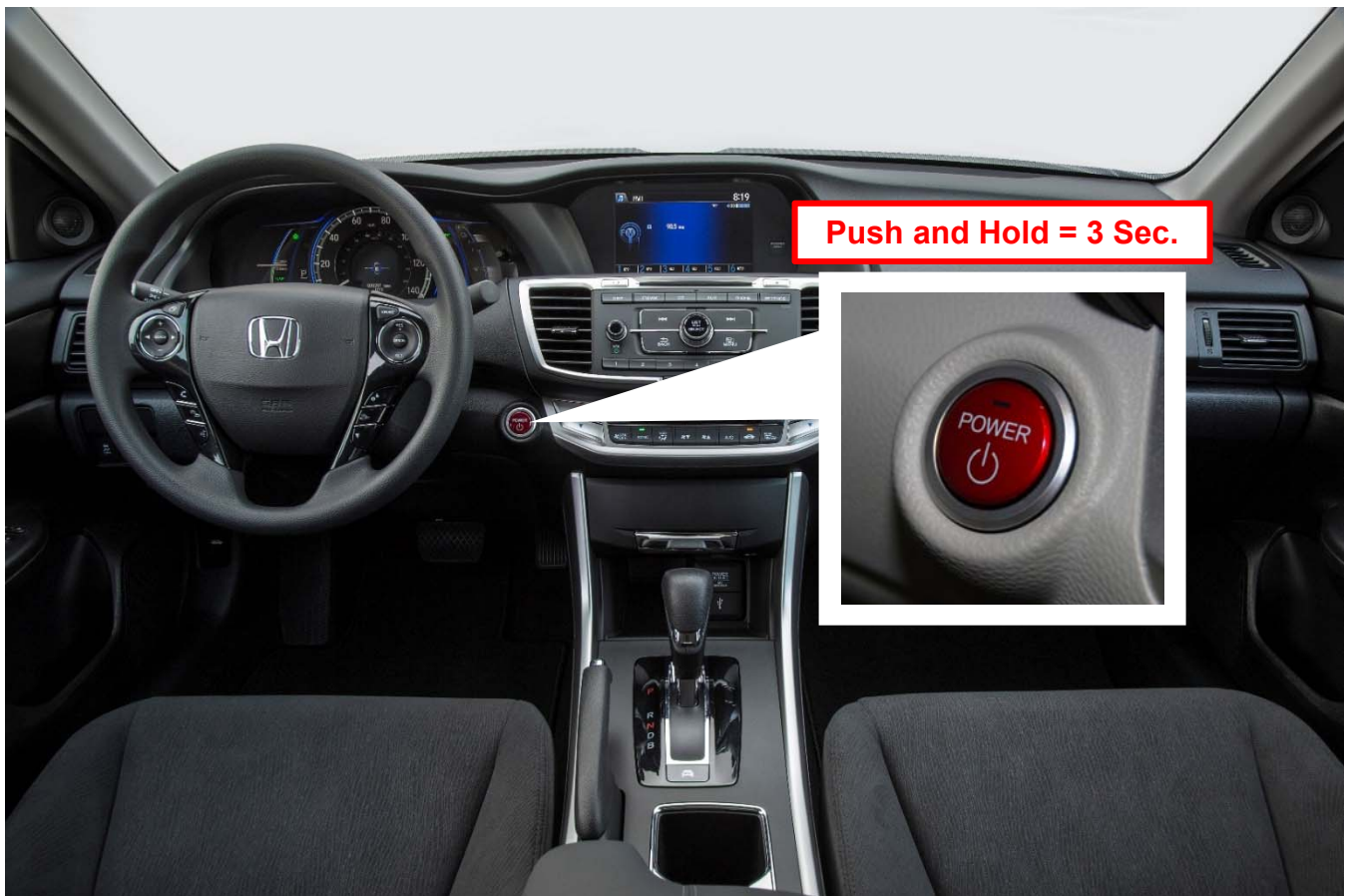
BEST METHOD for High-Voltage Shutdown

Push and hold the POWER button for 3 seconds.

This simple action turns off the vehicle and immediately shuts down the high-voltage system controllers, thereby preventing current flow into the cables. It also cuts power to the airbags and the front seat belt tensioners, though these pyrotechnic devices have up to a 3-minute deactivation time.

To prevent accidental restarting, you must remove the keyless remote from the vehicle and move it at least 20 feet away.

If you cannot locate the keyless remote, you should also do the SECOND-BEST METHOD for High-Voltage Shutdown (for preventing high-voltage current flow) on the following page.



SECOND-BEST METHOD for High-Voltage Shutdown

Locate and cut the negative 12-volt battery cable and the DC to DC converter cable.

Together, cutting the negative 12-volt battery cable and cutting the DC to DC converter cable immediately turns off and shuts down the high-voltage system controllers, thereby preventing current flow into the high-voltage cables.

1. Pull the hood release handle located on the driver's left kick panel.



2. Locate the hood latch lever, pull the lever, and lift the hood.



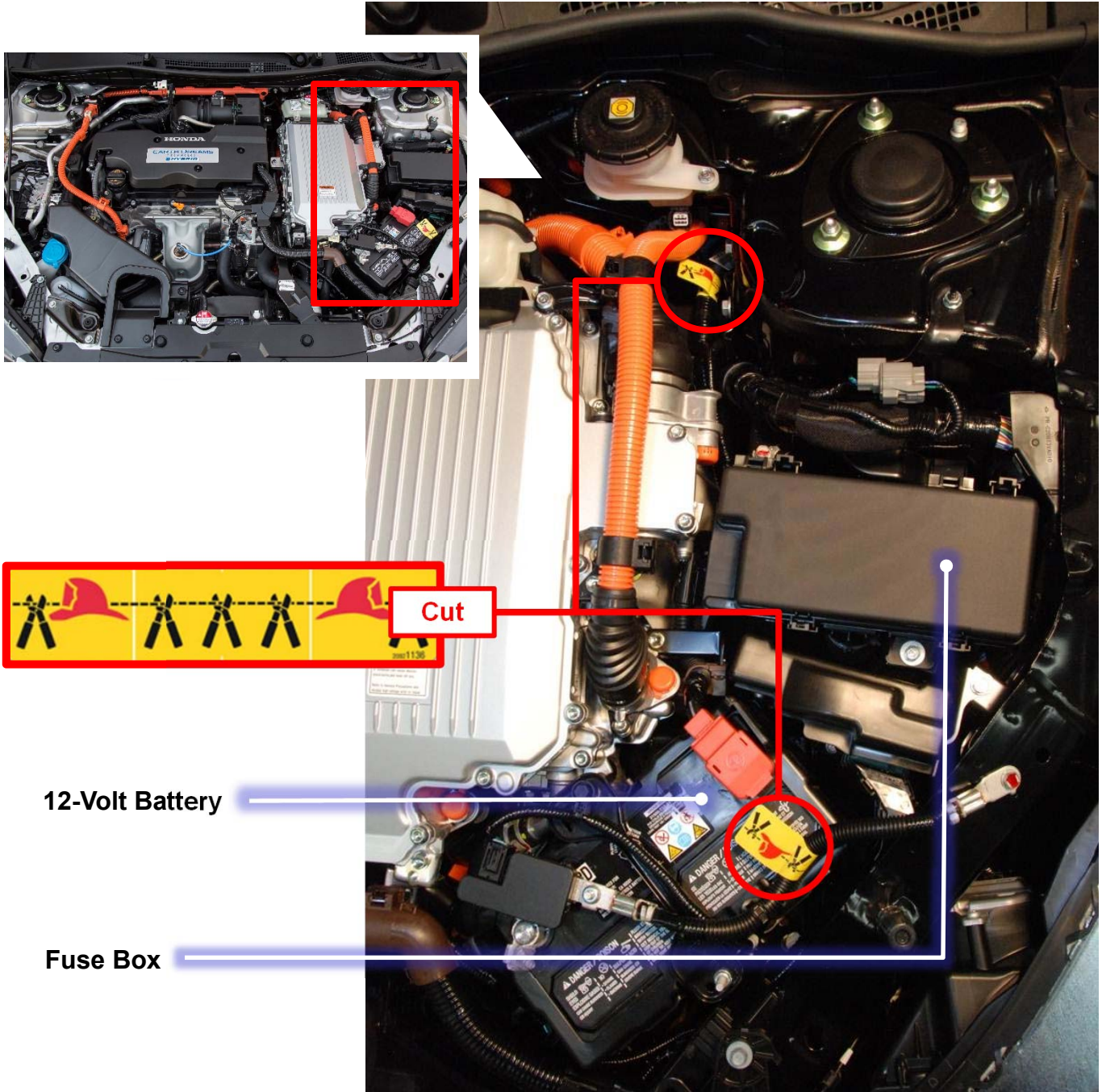
Continue to the next page.

SECOND-BEST METHOD for High Voltage Shutdown

3. Locate the two cut point labels shown, and cut them.

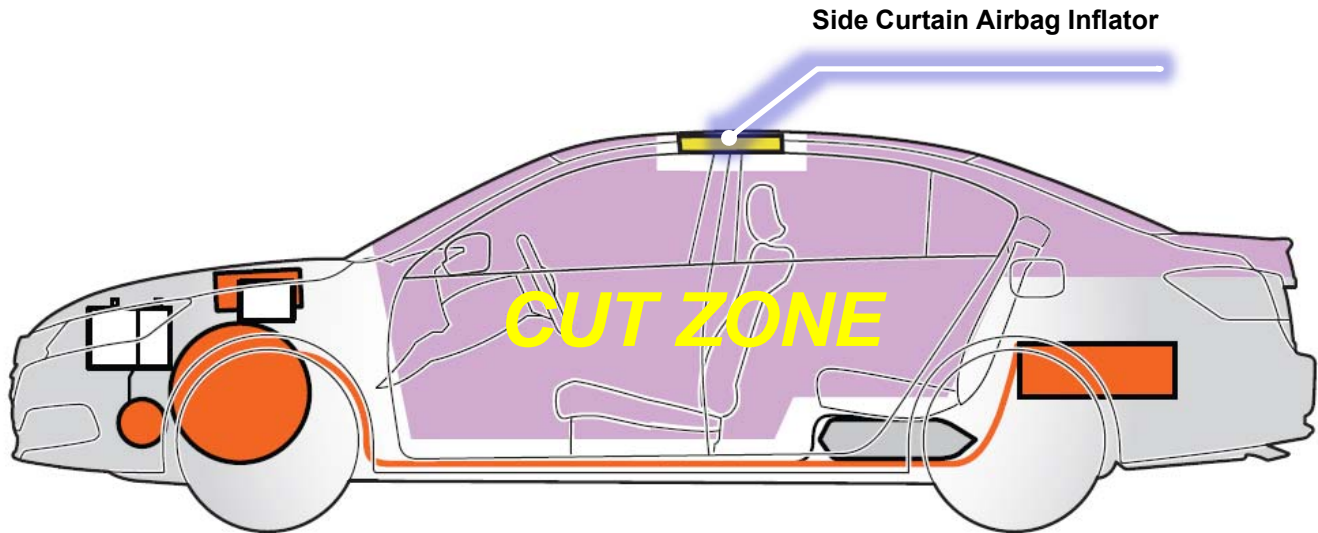
When cutting the cables, do not allow the cutting tool to contact any surrounding metal parts; electrical arcing could occur, which can ignite any flammable vapors.

NOTE: If you cannot do either method to stop the engine and prevent current flow into the high-voltage cables, use extreme care and do not touch damaged cables as they may be electrically charged.



Extricating Occupants

If you need to cut the vehicle body or use Jaws-of-Life equipment to remove occupants, be sure to stay within the cut zone indicated in the illustration below.



If you need to cut the hood to open it, be sure to stay within the cut zone indicated in the illustration below.



Emergency Repairs

The preferred method is to use a flatbed tow truck. If wheel lift equipment must be used, be sure to suspend the front wheels and release the parking brake.

Be aware that when rolling a damaged Accord Hybrid with the front (drive) wheels on the ground, the electric motor can produce electricity and remains a potential source of electric shock even when the high-voltage system is turned off.

Dealer Inspection and Repair

A damaged Honda Accord Hybrid should be taken to an authorized Honda dealer for a thorough inspection and repairs. For questions or to locate an authorized Honda dealer, please contact Honda Customer Service at (800) 999-1009.



High-Voltage Battery Recycling

The high-voltage lithium-ion battery requires special handling and disposal. If disposal is necessary, please contact an authorized Honda dealer or American Honda's Hybrid Battery Consolidation Center at (800) 555-3497 for assistance.



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OUR CHILDREN