# RLX Sport Hybrid

## 2014, 2016–20 Acura RLX Sport Hybrid Emergency Response Guide

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

NOTE: Acura did not produce the RLX Sport Hybrid for the 2015 model year.

Supersedes 2014, 2016–19 Acura RLX Sport Hybrid Emergency Response Guide, dated September 2018



05460-12307 Version 5 (1907)

This guide has been prepared to assist emergency response professionals in identifying a 2014, 2016–20 RLX Sport Hybrid vehicle and safely respond to incidents involving this vehicle.

NOTE: Acura did not produce this model for the 2015 model year.

Copies of this guide and other emergency response guides are available for reference or downloading at https://www.acura.ca/owners/esafety-info.

For questions, please contact your local Acura dealer or Acura Client Relations at 1-888-946-6329.

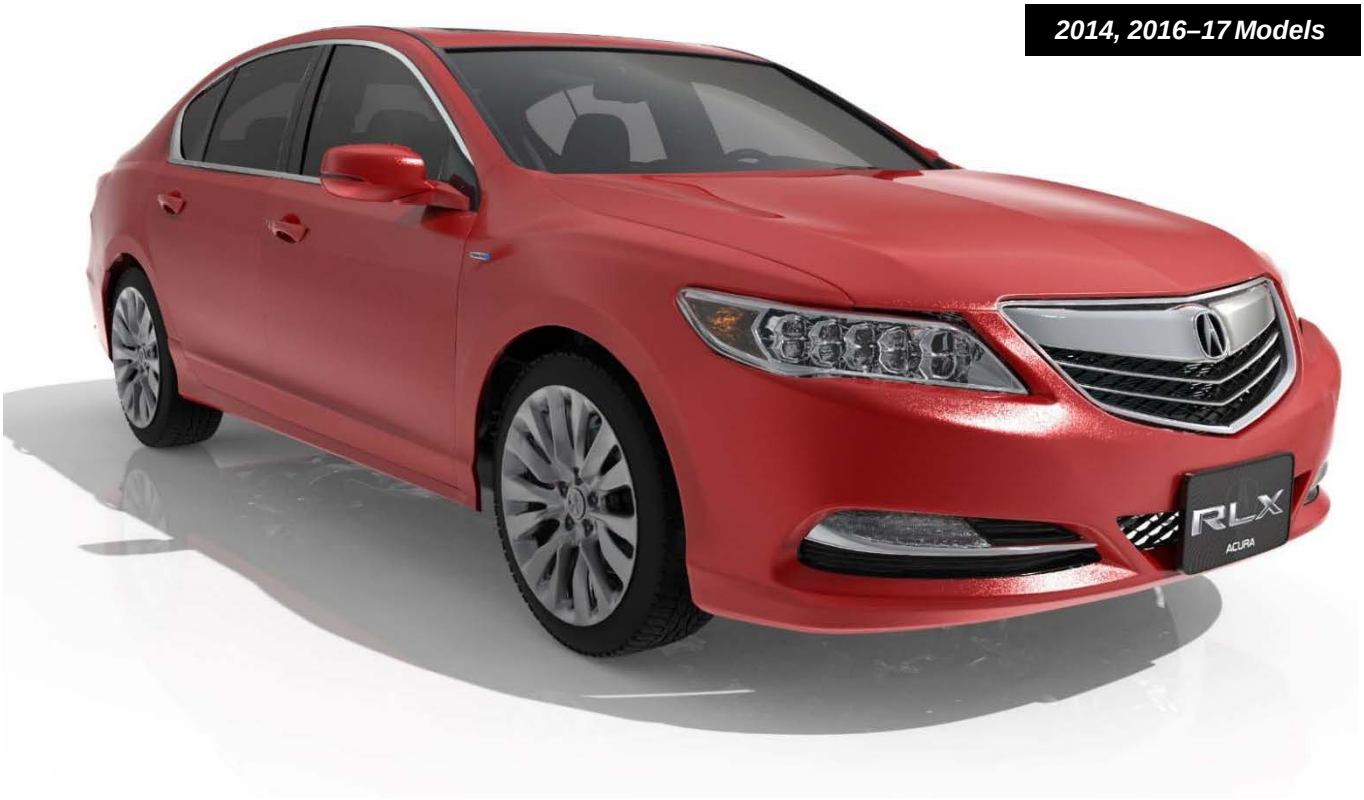
Acura wishes to thank emergency response professionals for their concern and efforts in protecting Acura clients and the general public.


# Contents

You can identify an 2014,2016–20 Acura RLX Sport Hybrid by the exterior “Hybrid ” marks located on the front fenders and by the blue letters “SH” on the trunk lid. You can also identify an RLX Hybrid by the orange cabling under the hood.



***2014, 2016–17 Models***




***2018–20 Models***


Starting with the 2018 model year, the Acura RLX Sport Hybrid received a front and rear fascia update.

***2014, 2016–17 Models***

***2018–20 Models***

For the 2018-2020 model year, the Acura RLX Sport Hybrid received a front and rear fascia update.

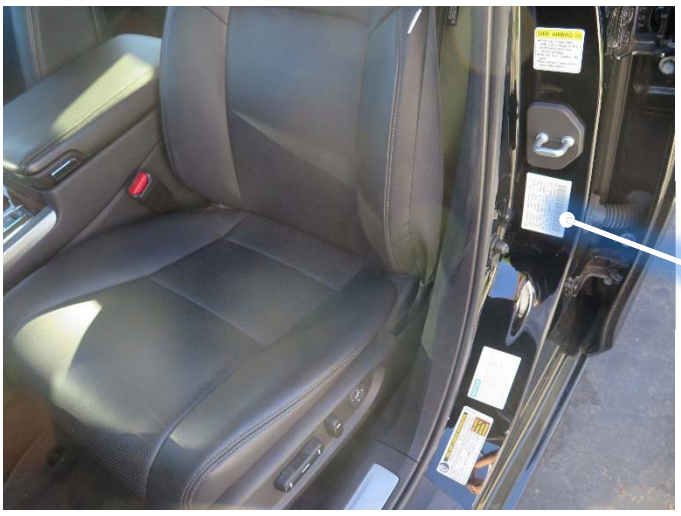
A 2014, 2016-20 RLX Sport Hybrid can also be identified by inspecting the VIN at the three locations shown below.

Characters 4–6 of the VIN will show **KC2**, indicating that it is an RLX SportHybrid.

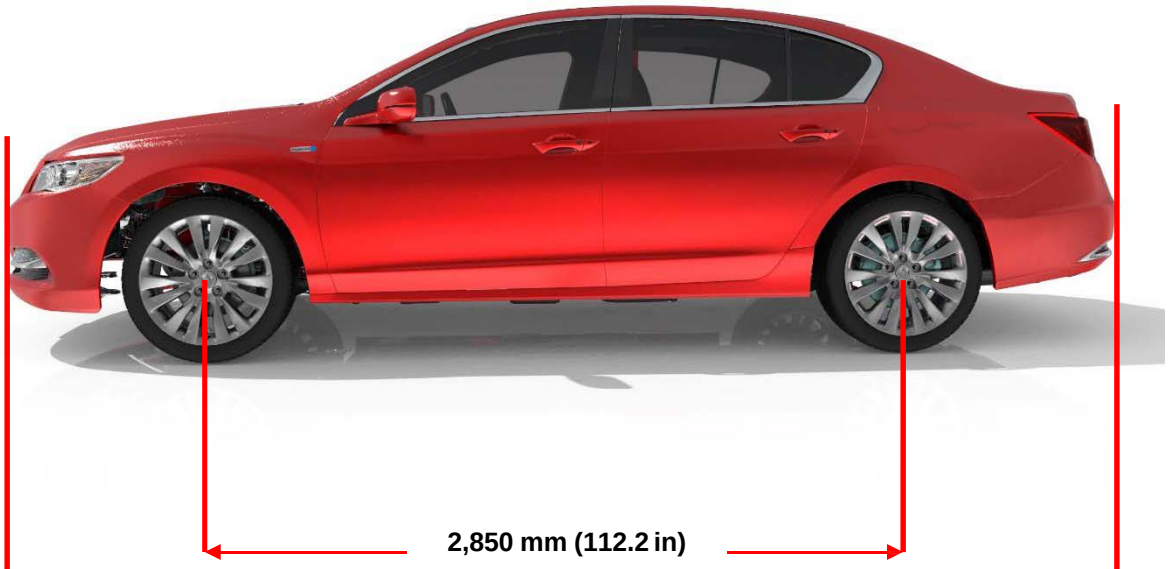
# JH4KC2*****000001


In front of passenger seat under plastic panel marked FRAME NUMBER


In lower-right corner of windshield.



On driver's door jamb



**2,850 mm (112.2 in)**

**2014, 2016-17 Models: 4,982 mm (196.1 in)**

**2018-20 Models: 5,031 mm (198.1 in)**


**1,466 mm (57.7 in)**

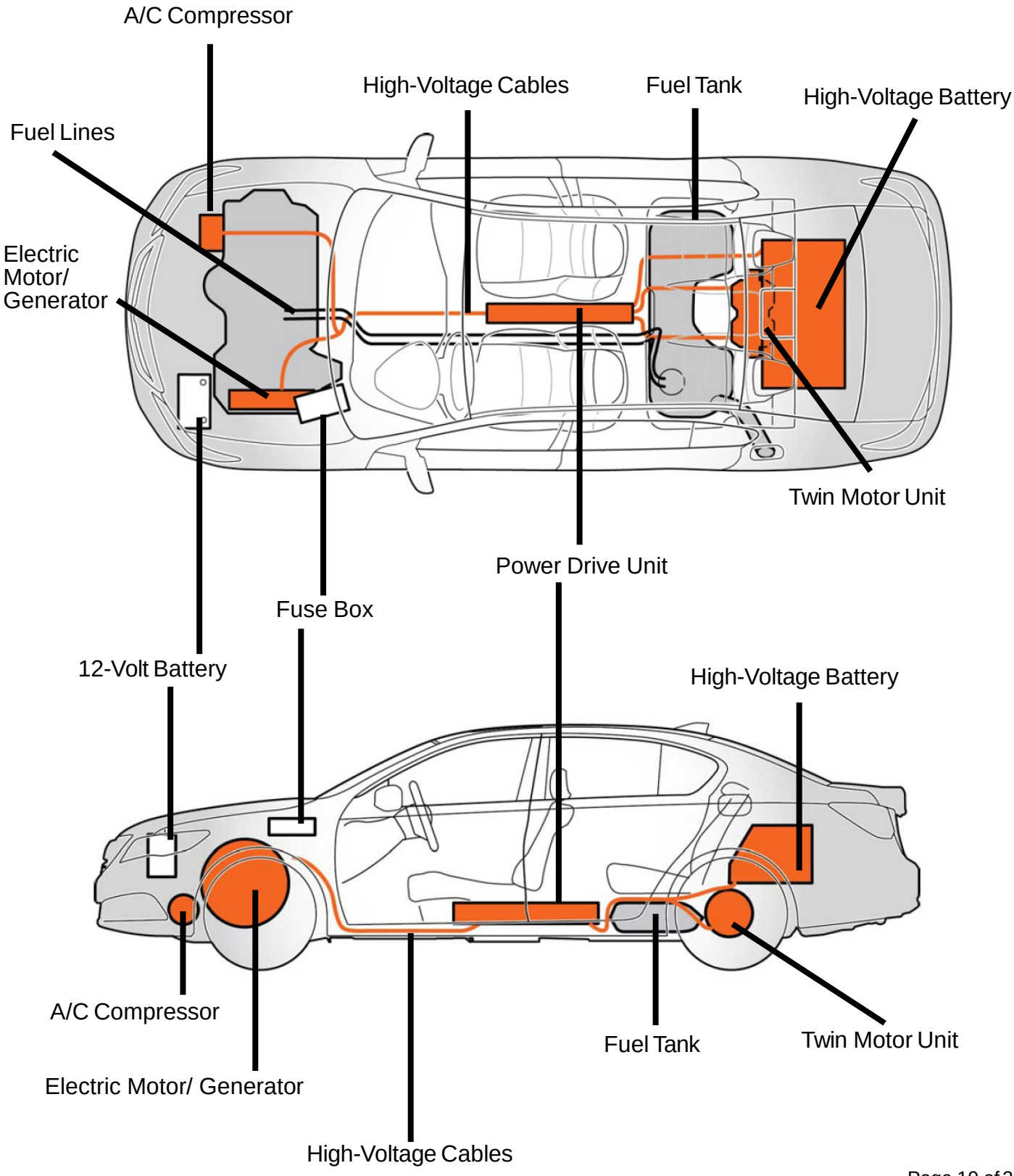
**1,890 mm (74.4 in)**

**Vehicle Weight**
**5,379 lb. ( 2,440 kg)**

## Vehicle Overview

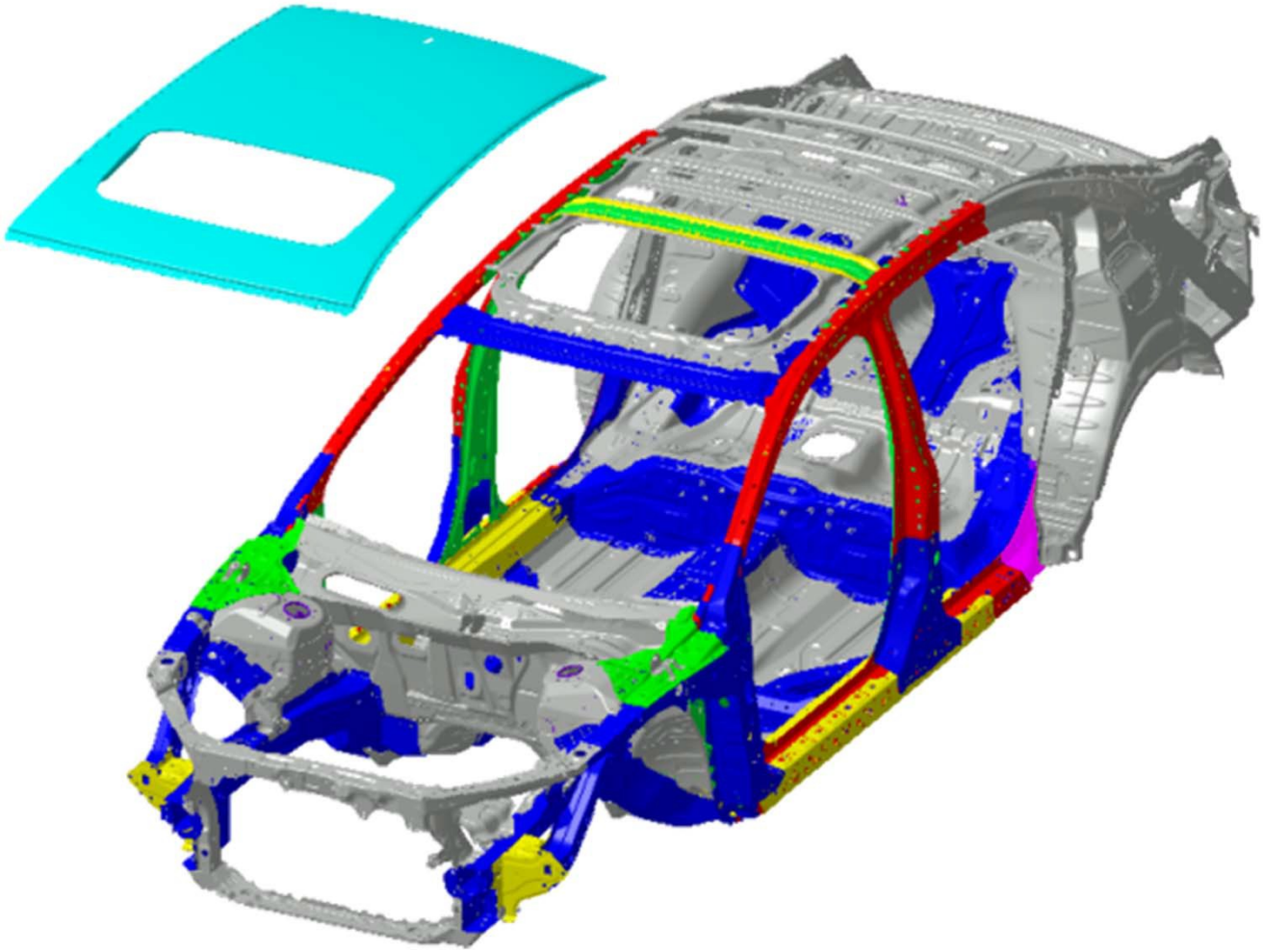
The Acura RLX Sport Hybrid is powered by a three-motor hybrid system, which consists of a 6-cylinder 3.5 liter gasoline engine that is attached with a 35 kilowatt (kW) electric motor/generator in the front of the vehicle and two 27 kW electric motors in the twin motor unit located between the two rear wheels. A 1.3 kilowatt-hour (kWh) (260 volt) high-voltage lithium-ion (Li-Ion) battery is mounted behind the rear seats and is charged under certain driving conditions.

## Key Components



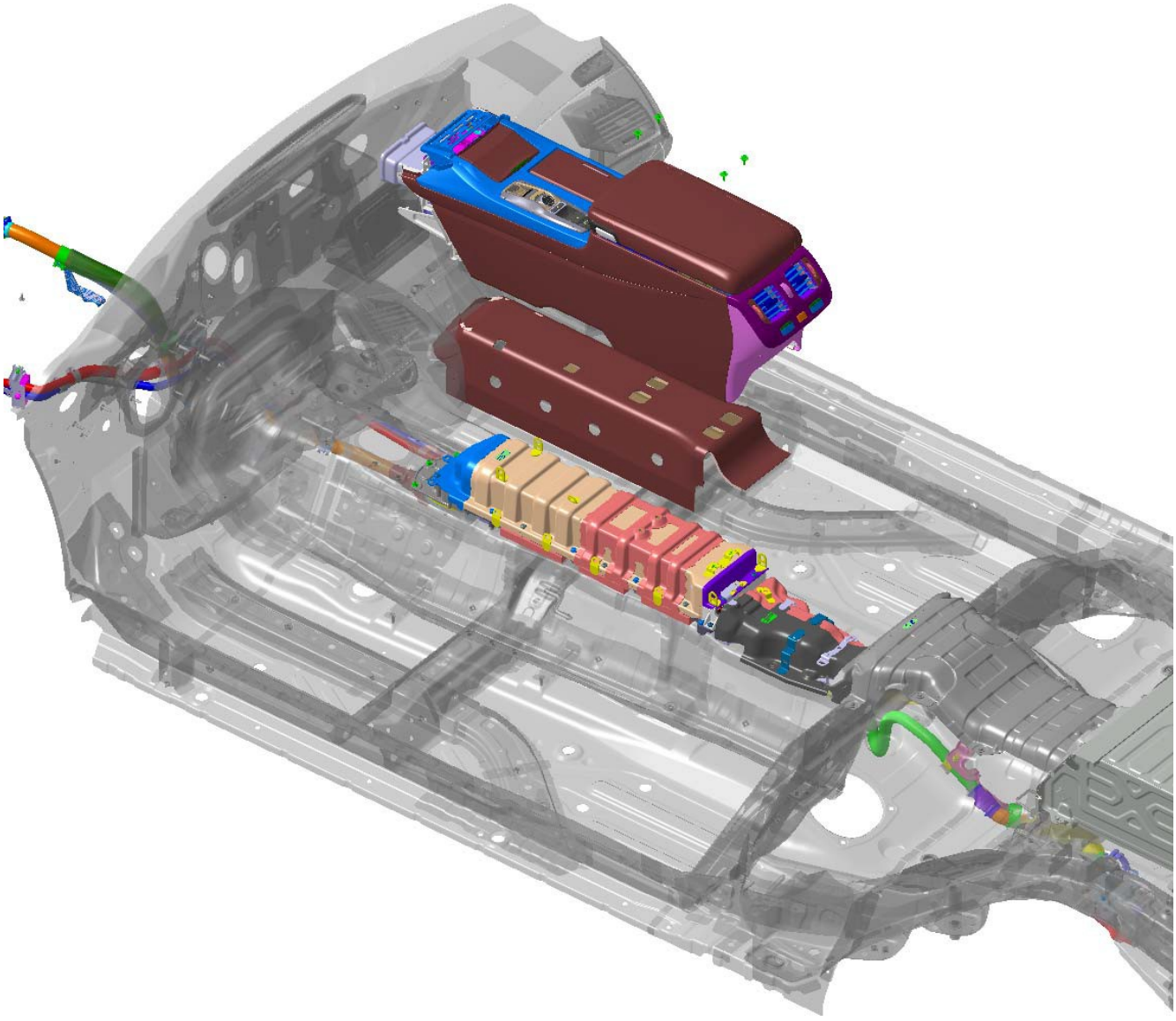
## High-Strength and Ultra-High-Strength Steel

The body of the Acura RLX Sport Hybrid is comprised of high-strength steel and ultra-high-strength steel as shown below.



## Power Drive Unit (PDU)

The PDU is located below the center console and houses the liquid cooled inverter and other high-voltage system components. There are no serviceable parts inside, so there is no reason for it to be opened or disassembled.

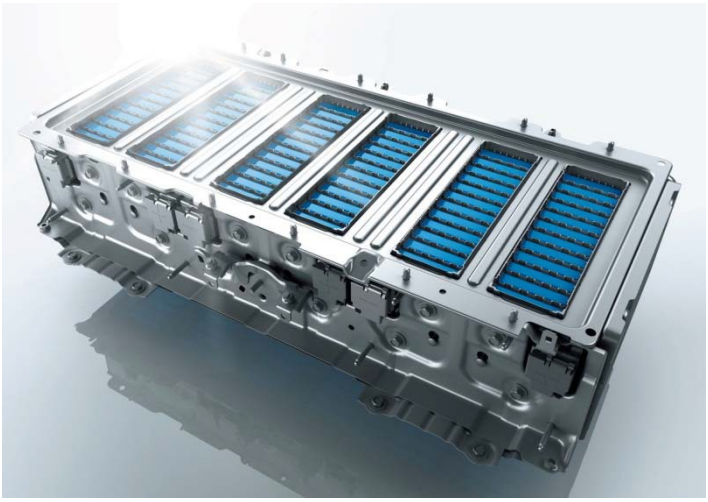


## 12-Volt Battery

A conventional 12-volt battery is located under the hood on the driver's side of the vehicle. This battery is used to start the high-voltage system and 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.

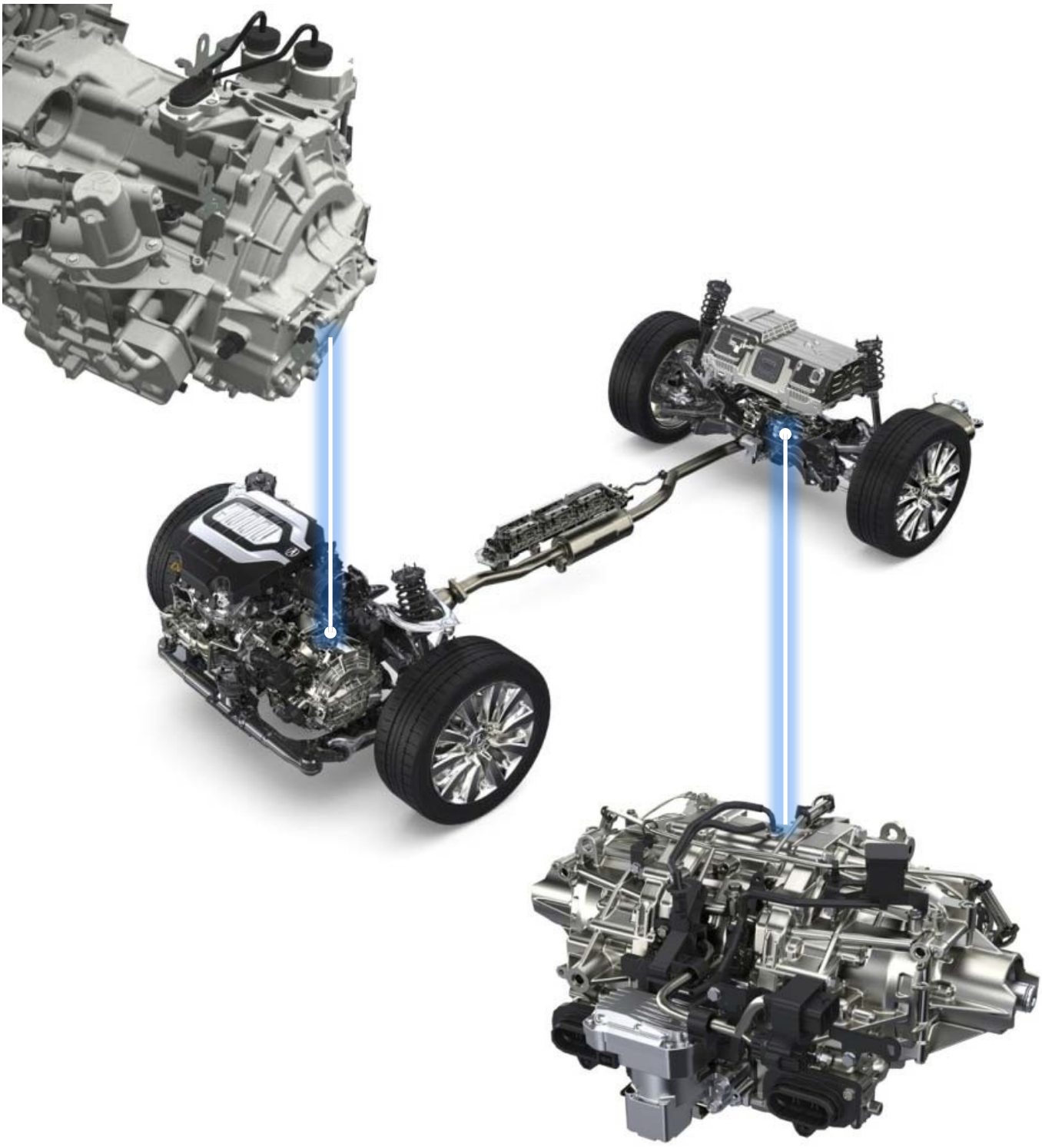

## High-Voltage Battery

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



## Electric Motors/Generators

The Acura RLX Sport Hybrid incorporates one electric motor/generator that is attached to the gasoline engine and transmission and two electric motors located between the rear wheels in the twin motor unit.



## 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.

## Occupant Protection Equipment

The Acura RLX Sport 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 RLX 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-voltagecables.

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

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

## Lithium-ion Battery Fumes or Fire

A damaged high-voltage lithium-ion battery can emit toxic fumes. Also, the organic solvent used as electrolyte is flammable and corrosive. 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 an Acura RLX Sport 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 an Acura RLX Sport Hybrid, however, is highly unlikely because of thefollowing:

- 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 properprecautions.
- 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 canbe 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 SRS (Supplemental Restraint System) unit makes a judgment based on input from the impact sensors. If the input values meet various threshold requirements, the SRS unit sends a signal to the high-voltage battery ECU. The high-voltage 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 an Acura RLX Sport 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 Acura RLX Sport 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 Acura RLX Sport 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 Acura RLX Sport 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 2 seconds.**

This simple action turns off the gasoline engine 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 seat belt tensioners, though these pyrotechnic devices have up to a 3-minute deactivationtime.

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

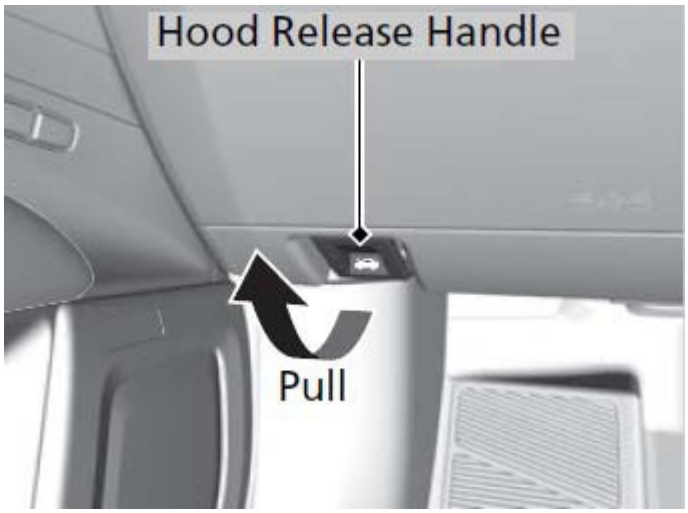
If you cannot locate the keyless remote, you should also do the SECOND-BEST METHOD for high-voltage shutdown (for preventing high-voltage current flow) on the following page.

## SECOND-BEST METHOD for High-Voltage Shutdown

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

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

1. Pull the hood release handle under the lower left corner of the dashboard.



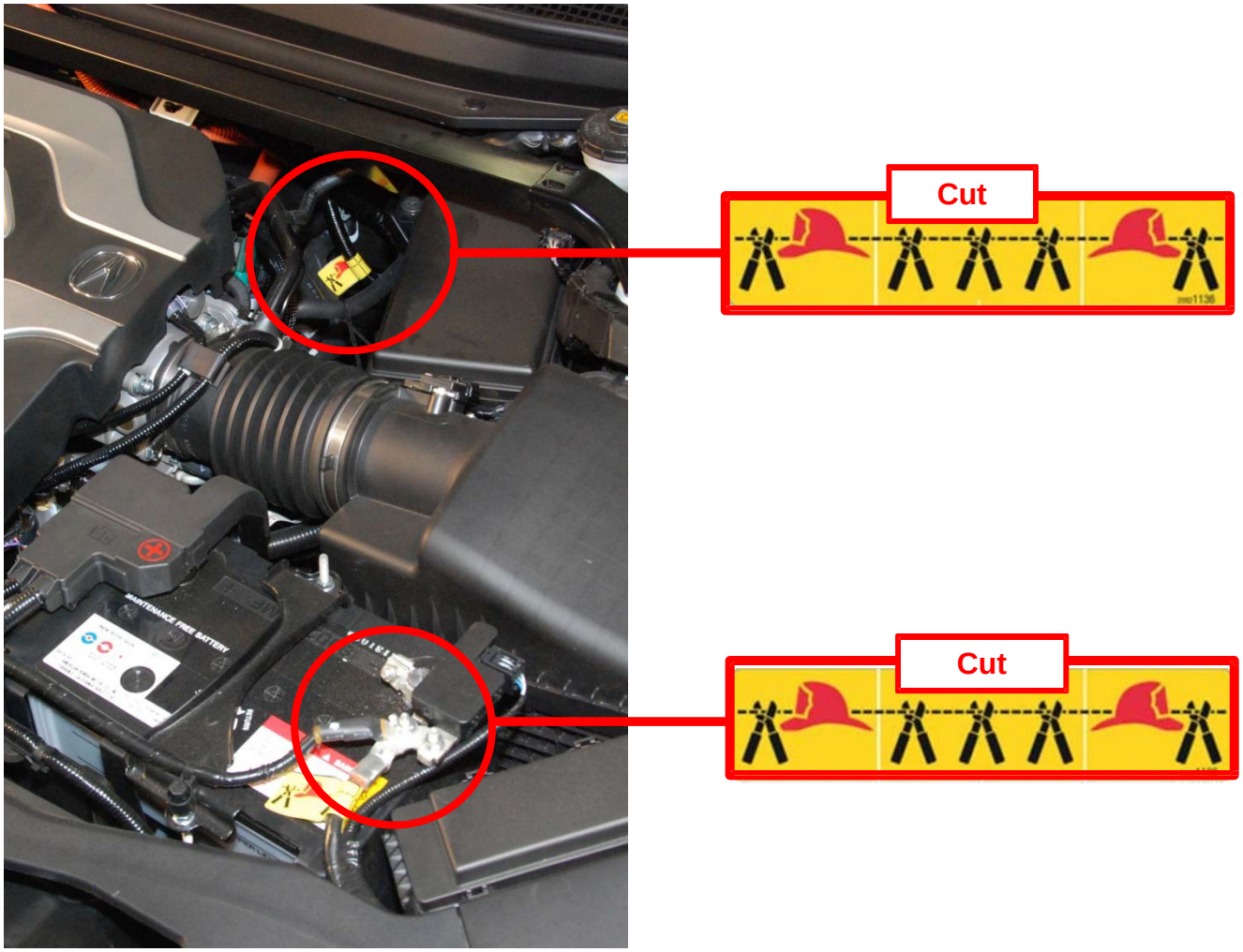

2. Push up the hood latch lever in the center of the hood to release the lock mechanism, and open the hood.

## SECOND-BEST METHOD for High-Voltage Shutdown

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

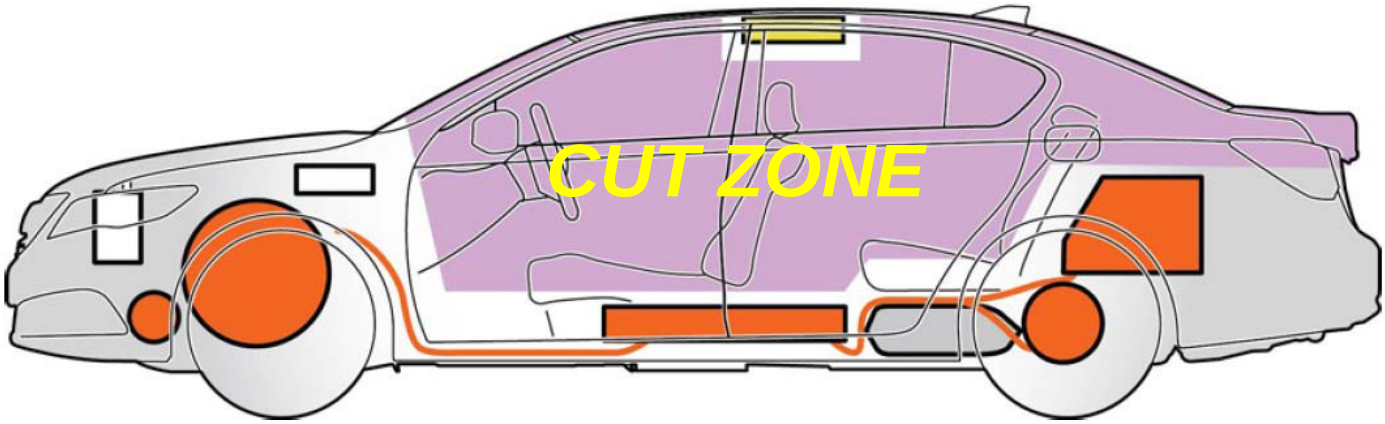
***When cutting the cables, do not allow the cutting tool to contact any surrounding metal parts; electrical arcing could occur, which can ignite any flammable vapors.***

**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 as shown below.

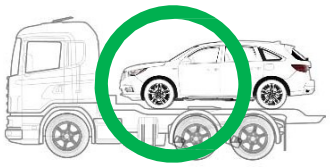
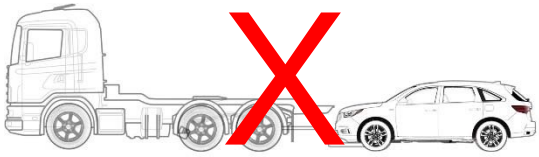
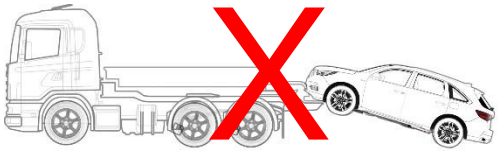



## Emergency Towing

The only approved method is to use a flat-bed tow truck or trailer. Towing the vehicle with two wheels on the ground will damage parts of the electric powertrain system. If the vehicle is damaged, it must be transported on a flat-bed tow truck or trailer.

Be aware that when towing or rolling a damaged Acura RLX Sport Hybrid with the front and/or rear 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.

NOTE: The below image is an example only.

| | | |
|---|---|---|
|  |  |  |
| Flat-bed Tow Truck Equipment | Cable-type Equipment | Front Wheel Lift Equipment |

The tow hook is stored in the tool kit located in the rear cargo area.

## Dealer Inspection and Repair

A damaged Acura RLX Sport Hybrid should be taken directly to an authorized Acura dealer for a thorough inspection and repairs. For questions, please contact your local Acura dealer or Acura Client Relations at 1-888-946-6329.

## High-Voltage Battery Recycling

The high-voltage lithium-ion battery requires special handling and disposal. If disposal is necessary, please contact your local Acura dealer or the Canadian Transport Emergency Centre (CANUTEC) at 1-888-226-8832 for shipping instructions.