

INFORMATION FOR FIRST AND SECOND RESPONDERS

EMERGENCY RESPONSE GUIDE



Cruise Origin
2-Way Monocab
4-Door Hatchback
Rear Wheel Drive

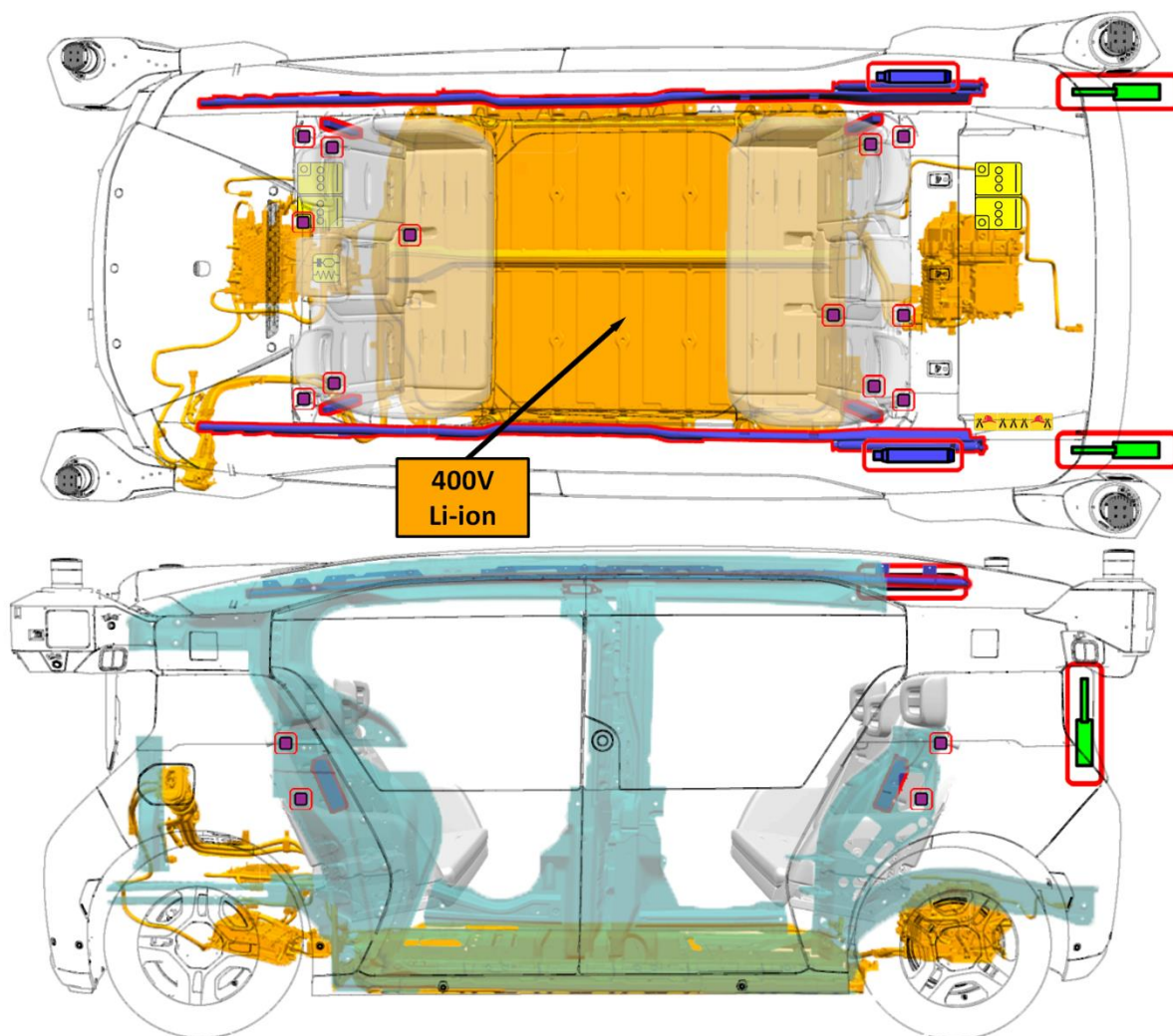
Li-ion













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0. Rescue Sheet



	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		Gas strut/ Preloaded spring
	High strength zone		Battery low voltage		High voltage battery pack		High voltage power cable component		Cable Cut Location

1. Identification / recognition



Advise Dispatch and all responders that an electric vehicle is involved.



Lack of engine noise does not mean vehicle is off: vehicle movement capability exists until vehicle is fully shut down. Always wear appropriate PPE.

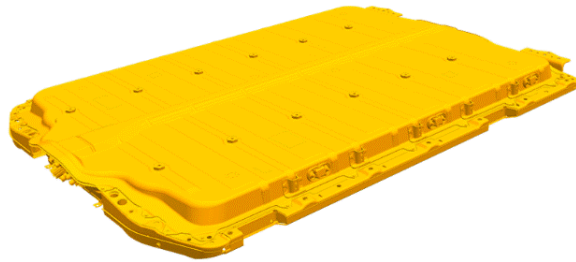
Emblems and Badging

cruise

The Cruise Origin can be identified by “cruise” emblems located on the exterior of the vehicle under the front windshield, on the rear side doors, and at the center of the rear liftgate.



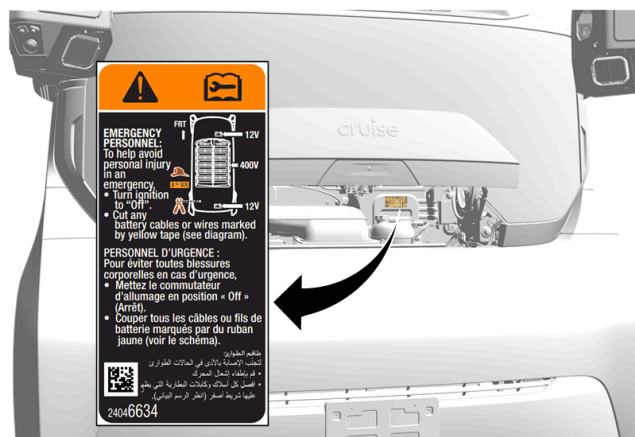
High Voltage Battery Information



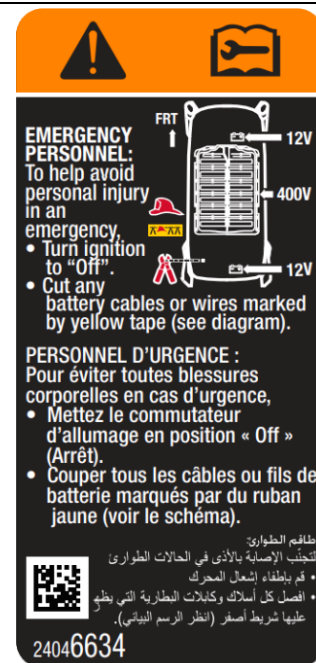
The battery is a High Voltage (Class B) Li-ion pack, that is a mounted under the vehicle and is a structural part of the floor pan.



Battery Warning Label



The battery warning label is located on the left side of the front compartment.



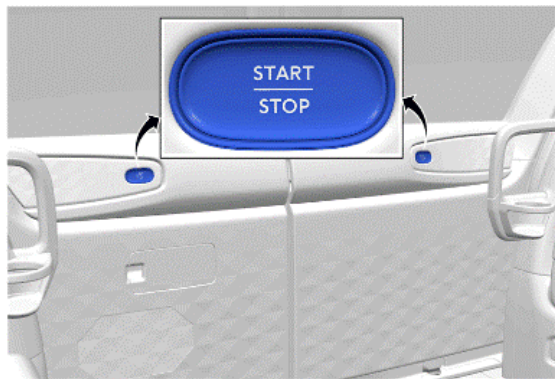
2. Immobilization / stabilization / lifting



IMMOBILIZE VEHICLE

- Block the wheels.
- Follow procedures for conventional vehicles.

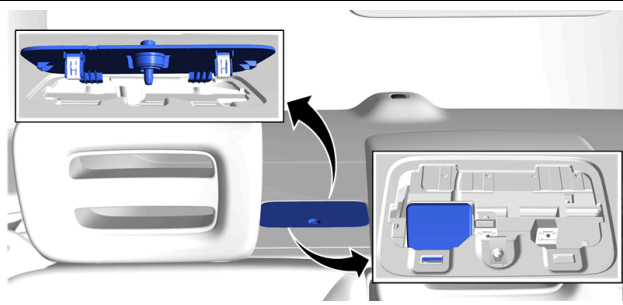
Start/Stop Ride Buttons



Press one of the Start/Stop buttons, located on any of the left or right-side doors to disable vehicle propulsion.

Look at vehicle displays for any important information,

Front Compartment Access

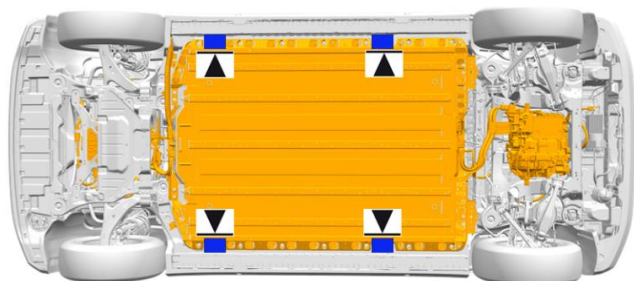


If the front compartment panel electric release is not available, a manual release lever is located in the front package shelf area of the vehicle.

1. Using an appropriate tool, remove the manual release lever access cover.
2. Depress the manual release lever to actuate the front compartment panel latch.



Lifting Points



There are features on the body of the vehicle, for use as primary lifting points.

Do NOT lift the vehicle from any locations on the high voltage battery.

3. Disable direct hazards / safety regulations

Thermal Runaway Mitigation



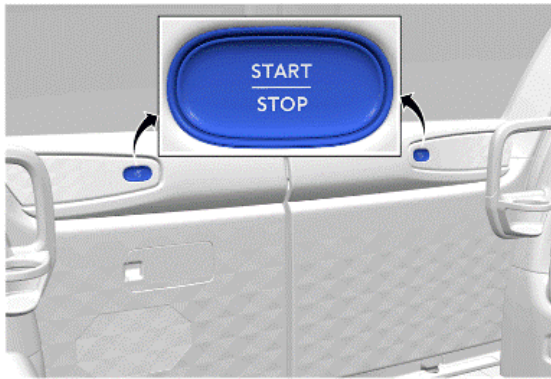
The vehicle is equipped with a battery management system with internal fault detection, including thermal runaway mitigation. In the event of a “**Battery Danger Detected**” notification, **DO NOT cut or disable the low voltage system, unless you need to disable the airbags for occupant extrication.**

Automatic safety systems are enabled when low voltage power is available, including a battery thermal runaway mitigation system that internally cools the High Voltage battery when a thermal event is detected; this feature is available in non-crashed, static situations.

When these safeguards are activated, Cruise Support will contact First Responders. Information about this feature will be displayed on the “End Zone” displays informing the passengers of the vehicle’s movements. Actions to be taken by the passengers are displayed on the Overhead “personal” displays. The vehicle will also activate the hazard lights.

In the event of a “Battery Danger Detected” notification, DO NOT cut or disable the low voltage system during the thermal runaway mitigation cycle, unless you need to disable the airbags for an occupant extrication.

Power Button



Press one of the Start/Stop buttons, located on any of the left or right-side doors to disable vehicle propulsion.

Look at vehicle displays for any important information,



The high voltage system can remain energized even when the vehicle is in the OFF state.



Rear Compartment Release

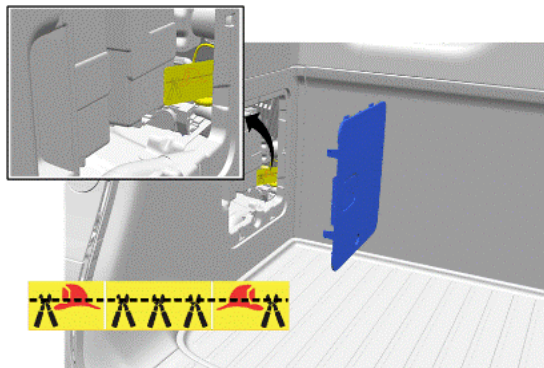


- **Power Release** – The rear compartment latch can be released using the touchpad at the center of the liftgate, just above the license plate.
- **Manual Release** - The rear compartment latch can be manually released using the key cylinder at the right-hand side of the license plate pocket.

NOTE: An alternative method for cut loop access may be necessary if the liftgate touchpad or key cylinder are not operable.



Low Voltage Cable Access



Low Voltage Cable

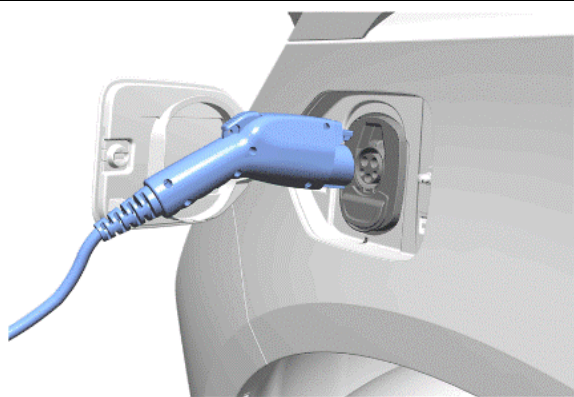
1. Using an appropriate tool, remove the access cover on the left side of the rear compartment.
2. Double cut the low voltage cables on both sides of the yellow tape and remove the cut section of cable from the vehicle. Ensure that the cuts are clean and that there is no risk of loose wires touching.

This cut will disable the airbags and high voltage.

DO NOT CUT ANY ORANGE COLORED HIGH VOLTAGE CABLES.



After disabling low voltage power, wait at least 10 seconds to allow any un-deployed airbag reserve energy to dissipate and wait at least 1 minute to allow high voltage energy to discharge.



VEHICLE AT CHARGE STATION:

If able, terminate charging by removing the charge handle from the vehicle. It may be appropriate to terminate charging at the station, as well.

The common charge handle is shown; The DC Fast Charge handle is moderately larger and may require additional effort to disconnect.

4. Access to the occupants

Refer to the vehicle [Rescue Sheet](#) for additional illustrations that show the locations of High Strength Structural Components, High Voltage Components, and Safety Components.

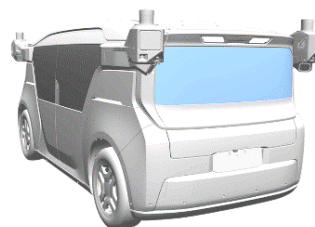
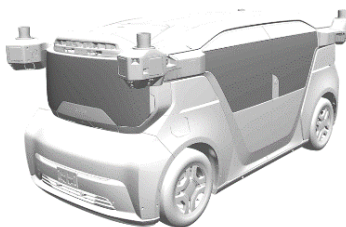
Vehicle Glass



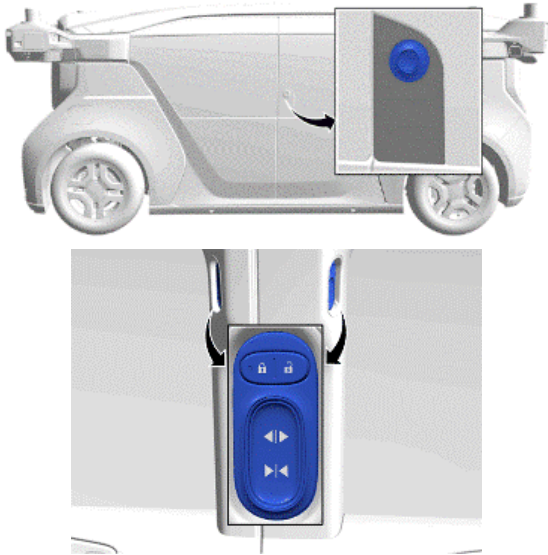
The windshield and side door windows are made of Laminated Glass



The rear liftgate windows is made of Tempered Glass



Power Operation of Side Doors



Exterior Operation:

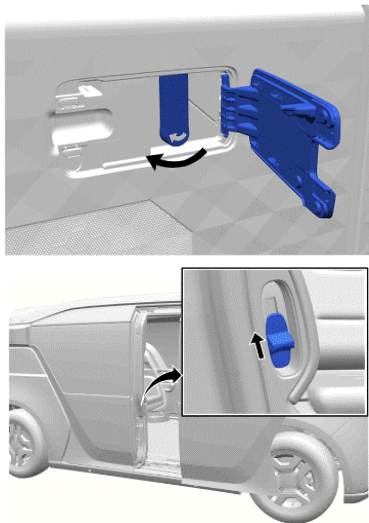
Press the button at the center of doors to initiate operation. The front door will slide forward, and the rear door will slide rearward.

Interior Operation:

Each door has a button that operates the doors on that side of the vehicle. The buttons are located on the center pillar of the doors. The front door will slide forward, and the rear door will slide rearward.

NOTE: An alternative method for passenger access may be necessary if the power switches are not accessible or functional.

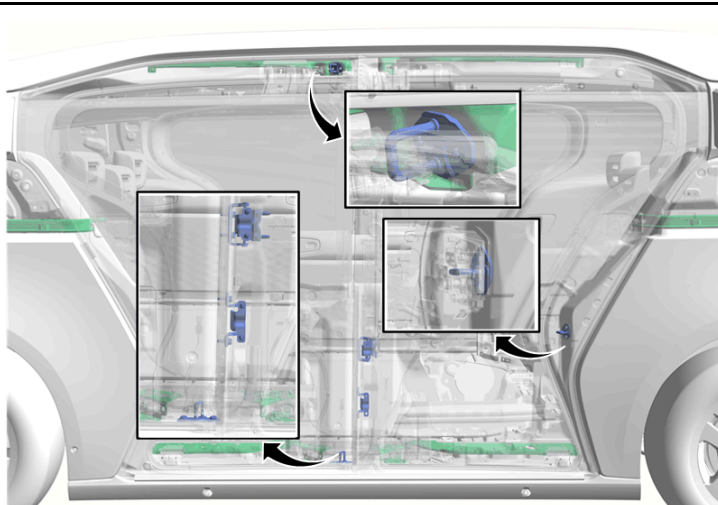
Manual Operation of Side Doors



1. From inside the vehicle, open the spring-loaded door on the rear sliding door to access the manual latch handle.
2. Rotate the rear sliding door manual latch handle rearward to unlatch and open the rear sliding door.
3. Press upward on the front sliding door latch lever to unlatch the door and slide forward to open.

NOTE: An alternative method for passenger access may be necessary if the manual latch handles are not accessible or functional.

Side Door Latching



The sliding door latching system has three striker points;

- Top of the front sliding door
- Bottom of the front sliding door
- Rear edge of the rear sliding door

There are front and rear sliding door interlock features on the lower portion of the doors.

The front and rear sliding doors each operate on three roller tracks.

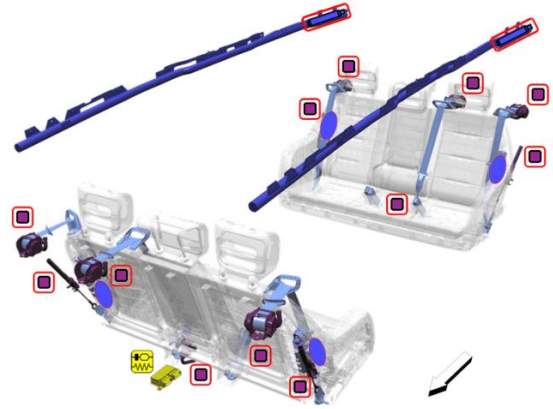
Occupant Restraint Systems

The Cruise Origin is equipped with six airbags:

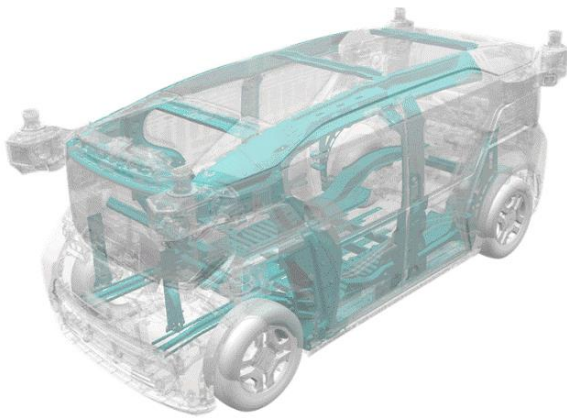
- (4) Front and Rear Seat Outboard Airbags
- (2) Roof Rail Airbags

There are seat belt restraints for six occupants.

The seat belt system includes upper and lower pre-tensioners at each seating location. One is seat belt retractor mounted and the other is mounted to the seat belt anchor at the base of the seat.



High Strength Steel Structure

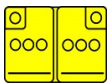


The passenger compartment is protected using high strength steel in the forward structure, roof headers, body pillars, rocker panels, door reinforcement beams, and floor structure.

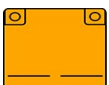


As with any occupant extrication, exercise caution. The vehicle's high voltage cables and components may be energized with high voltage. Avoid touching or cutting high voltage cables or components during any rescue operation.

5. Stored energy / liquids / gases / solids



Low Voltage Lithium-Ion Chemistry Battery







High Voltage Lithium-Ion Chemistry Battery












High Voltage Warning, potential for electric shock



Gases emitted from the battery pack are flammable

	Gases emitted from the battery pack are toxic
	Skin contact may cause irritation. Prolonged contact with electrolyte mixture may result in more severe irritation. Flush contaminated skin with plenty of water.
 	Coolant leaking inside the battery pack can become unstable and possibly a risk for a fire. Check the battery pack temperature using a thermal imaging camera.

6. In case of fire	
	High Voltage Warning, potential for electric shock
	A battery on fire will not explode
	A battery on fire will not explode. If battery cells reach high enough temperature, they vent and release electrolyte. Battery electrolyte is flammable.
	Gases emitted from the battery pack are toxic
	Skin contact may cause irritation. Prolonged contact with electrolyte mixture may result in more severe irritation. Flush contaminated skin with plenty of water.
	Potential for eye, nose, and throat irritation with prolonged exposure.
	Always wear Self-Contained Breathing Apparatus (SCBA). Use copious amounts of water to cool the battery and to extinguish a fire. Do NOT use an ABC dry chemical extinguisher because it will not extinguish a battery fire.
 	Potential for Battery Re-Ignition.

7. In case of submersion

The high voltage battery is isolated from the vehicle chassis. If the vehicle is immersed in water, there is no risk of electrocution by touching the vehicle.

After the vehicle was removed from the water, do the following:

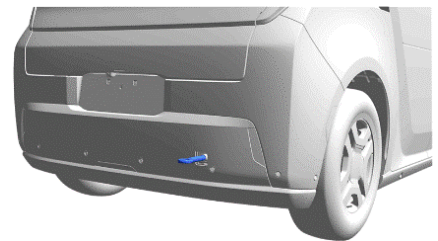
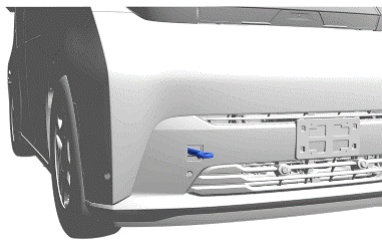
1. Allow the vehicle to dry out.
2. Perform the high voltage disabling procedure in Section 3.

8. Towing / transportation / storage

Tow Hooks

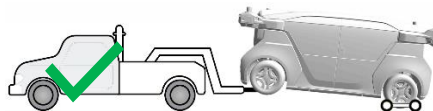
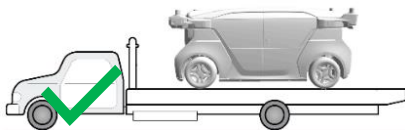
Carefully open the cover in the front or rear bumper fascia by using the small notch that conceals the tow eye socket.

Install the tow eye into the socket and turn it until it is fully tightened. When the tow eye is removed, reinstall the cover with the notch in the original position.



Vehicle Towing and Transportation

General Motors recommends a flatbed carrier or tow dollies to transport a disabled vehicle.



Moving the vehicle with the drive wheels on the ground will generate unwanted energy. Limit the movement of the vehicle to the distance required to prepare the vehicle for towing.

Post-Crash Vehicle Storage

Store the vehicle a safe distance (15 meters / 50 feet) or separated from other vehicles.



Potential for continued hazards (rekindling/re-gassing/etc) if a damaged vehicle battery is jostled during recovery, including the towing and storage process.















After a "Battery Danger Detected" notification, or thermal runaway mitigation cycle completes, it might be appropriate to wait up to an hour before towing to a certified dealer for vehicle inspection even though evidence of a thermal event such as smoke may not be visible, and unusual odors may not be detected from the vehicle.

9. Important additional information

This vehicle is supported by OnStar, where available.

10. Explanation of pictograms used

	Electric Vehicle		General warning sign		Warning, Electricity
	Battery Technology		Lifting Points		Thermal Imaging Camera
	Flammable		Toxic		Corrosive
	Injury Risk		Use Water		Cable Cut Location