

INFORMATION FOR FIRST AND SECOND RESPONDERS

EMERGENCY RESPONSE GUIDE



GMC HUMMER EV
Truck / SUV
Li-ion Battery

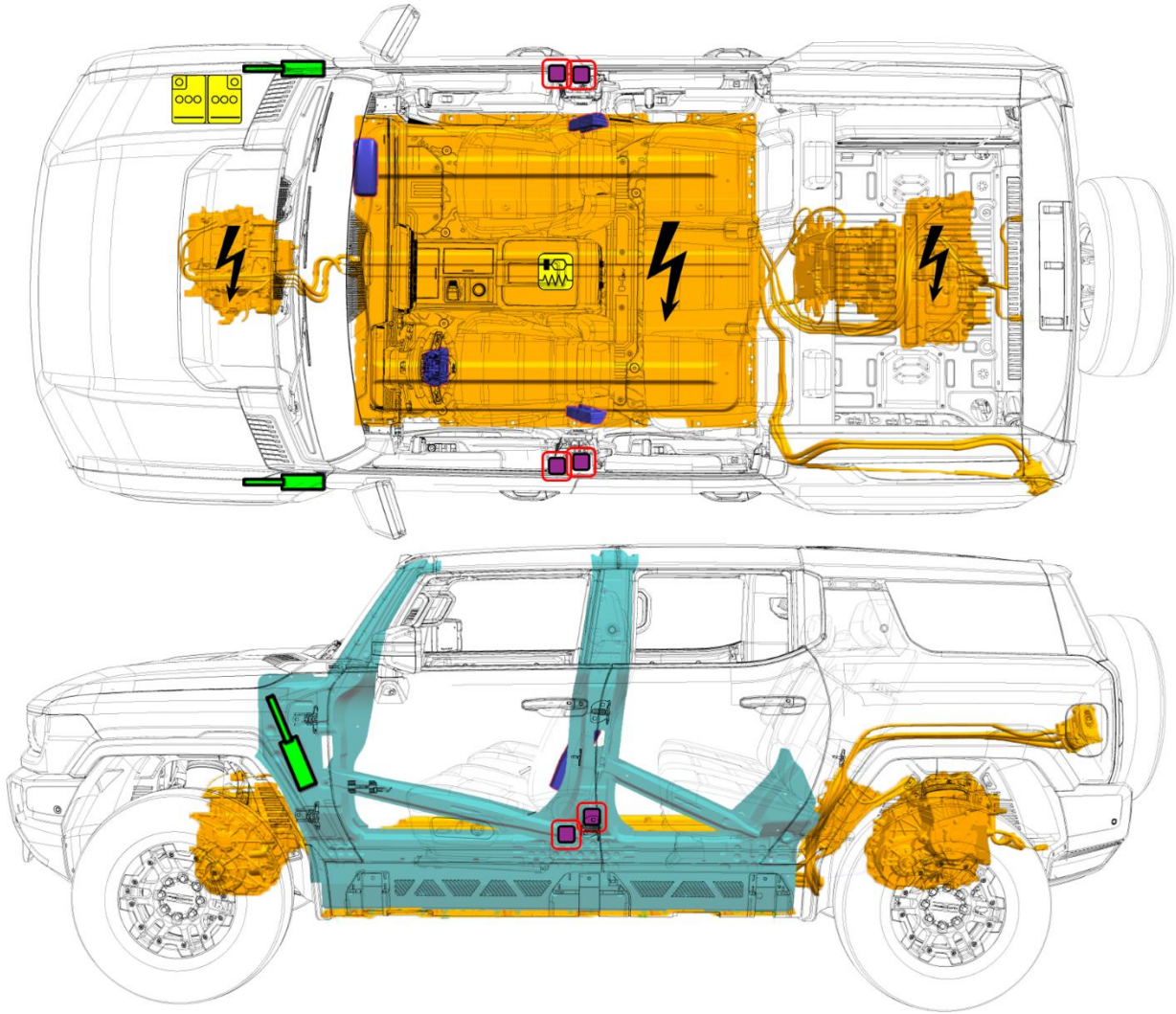
Li-ion






















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0. Rescue Sheet



	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		Pedestrian protection active system
	Automatic rollover protection system		Gas strut/Preloaded spring		High strength zone		Zone requiring special attention		
	Battery low voltage		Ultra capacitor, low voltage		Fuel tank		Gas tank		Safety valve
	High voltage battery pack		High voltage power cable component		High voltage disconnect		Fuse box disabling high voltage system		Ultra capacitor, high voltage

1. Identification / recognition

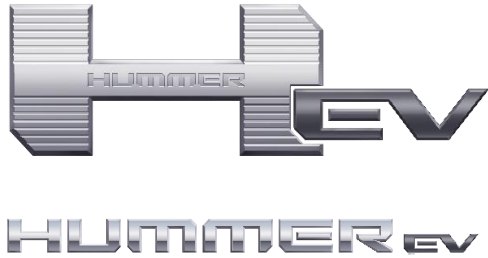


Advise Dispatch and all responders that an electric vehicle is involved.



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

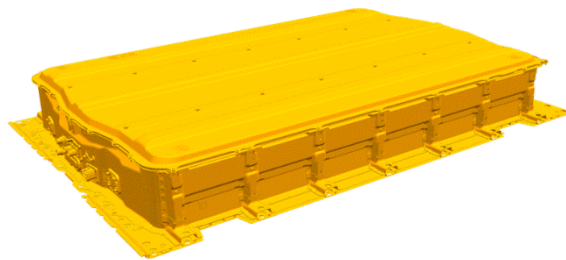


In addition to the exterior images shown on the cover page, the HUMMER EV can be identified by badging that appears on many panels, including the:

- Lighted Front Grille Applique
- Tail Lamps
- Front Side Doors
- Exterior Mirrors
- Door Sills
- Steering Wheel



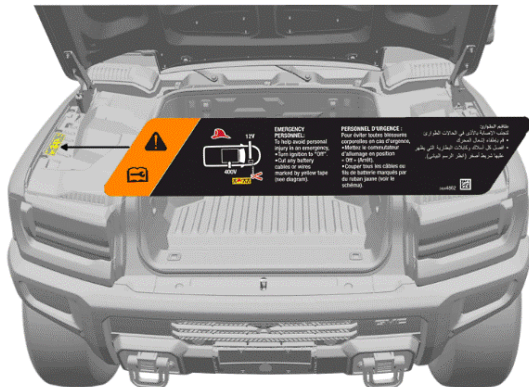
High Voltage Battery Information



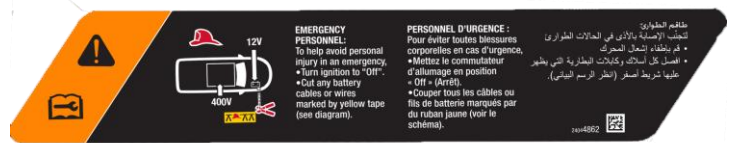
The battery is a High Voltage (Class B) Li-ion pack, that is mounted under the vehicle and is a structural part of the floor pan.



Battery Warning Label



The battery warning label is located on the front compartment sight shield on the right side of the vehicle.



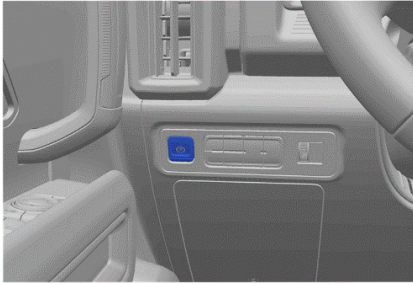
2. Immobilization / stabilization / lifting



IMMOBILIZE VEHICLE

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

Electric Parking Brake (EPB)



Applying the Electric Parking Brake

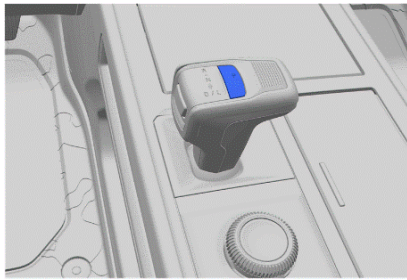
Press the EPB switch momentarily. The red parking brake status light will flash and then stay on once the EPB is fully applied.

Releasing the Electric Parking Brake

1. Turn the ignition on or to ACC/ACCESSORY.
2. Apply and hold the brake pedal.
3. Press the EPB switch momentarily.

The EPB is released when the red parking brake status light is off.

Electric Drive Unit Shift Lever

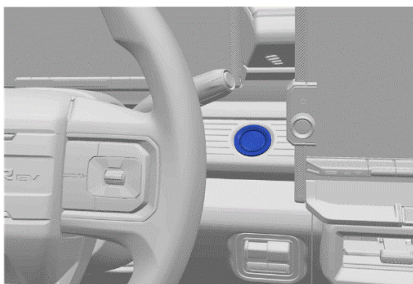


Shifting into Park

Press the button on top of the shift lever to shift to P (Park).



Power Button

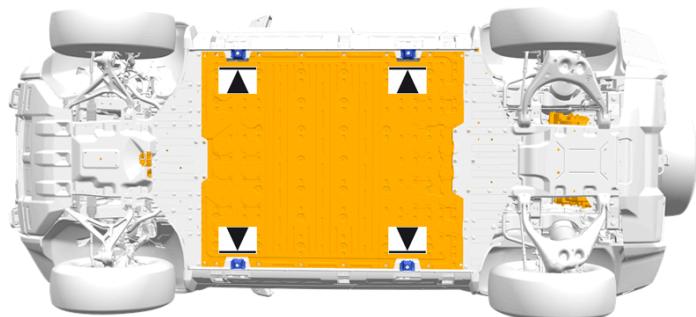


To turn the vehicle off, press the button on top of the shift lever to shift to P (Park) and press the POWER button.

Alternatively, press and hold the POWER button. The electric drive unit will shift to P (Park) then shut off automatically.



Lifting Points



There are features on the body of the vehicle, for use as primary lifting points. Do NOT use these features as attachment points to move or tie the vehicle down.

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.**

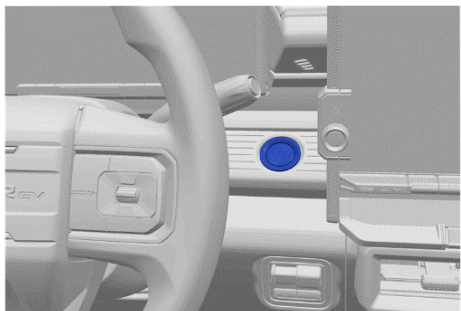
Automatic safety systems are enabled when low voltage power is available, including a battery thermal runaway mitigation system that internally cools the High Voltage battery when a thermal event is detected; this feature is available in non-crashed, static situations.

When these safeguards are activated, OnStar Advisors will contact First Responders. Information about this feature will be displayed on the driver instrument panel including a “Battery Danger Detected” message. The vehicle will also activate the horn and 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



If the vehicle is already in PARK state, press the POWER button to disable vehicle propulsion.

Alternatively, press and hold the POWER button. The electric drive unit will shift to P (Park) then shut off automatically.

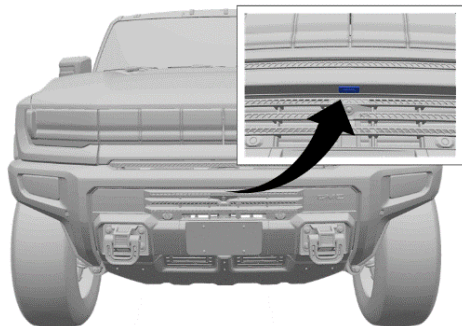
Consider any manipulations of power devices in the vehicle (steering wheel, power seats, windows, etc.) **prior to** cutting the Low Voltage loop.



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



Outside Access to Hood Release



Power Operation

To open or close the hood, press the touch pad in the center of the front fascia once, when the RKE transmitters within 1 m (3 ft).

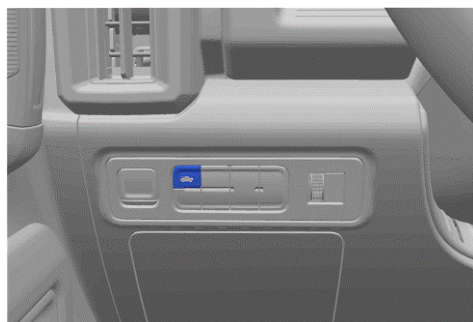
Manual Operation

Press and release the touch pad on the front fascia. Lift the hood to open.

To close the hood, pull the hood down until it is secured in the latch. When the hood is in the latch, the hood will automatically close.



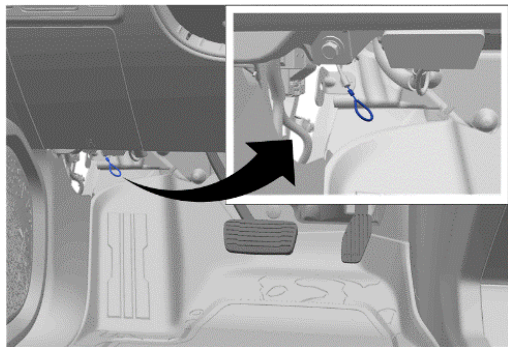
Inside Access to Hood Release



Power Operation

To open the hood, press the button on the instrument panel to the left of the steering wheel once.

To close the hood, press the button and hold until the hood closes.



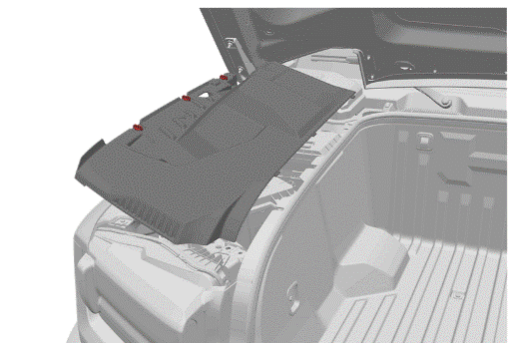
Manual Operation

The Manual Release Cable is located at the outboard side of the driver's footwell.

Firmly pull the hood release cable twice to release the hood. It is on the lower left side of the instrument panel.

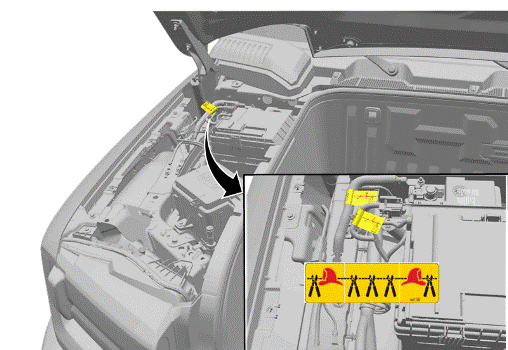


Low Voltage Cable Access



Front Compartment Sight Shield

1. Rotate the 3 quarter turn retainers on the sight shield.
2. Lift the outboard edge of the sight shield up and pull the panel out to remove.



Low Voltage Cable

Cut both low voltage cables marked by the yellow tape located above the battery on the right side of the forward compartment. 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 12-volt 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. If enabled, the vehicle's anti-theft alarm may activate.

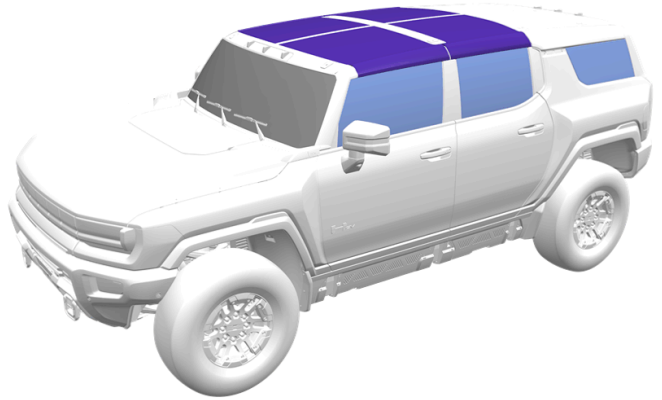
Common charge handle is shown; DC Fast Charge handle is moderately larger and may require additional effort to disconnect.

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.

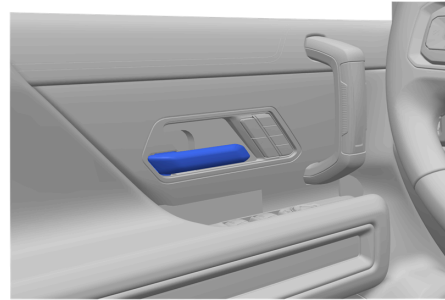
Vehicle Glass and Removable Roof Panels

-  - The windshield is made of Laminated Glass
-  - The door windows, rear quarter windows and rear window are made of Tempered Glass
-  - The removable roof panels are made of Polycarbonate Material



Opening a Locked Side Door

If the doors remain locked, pull **twice** on the inside door handle to gain access to the occupant at each seating location.

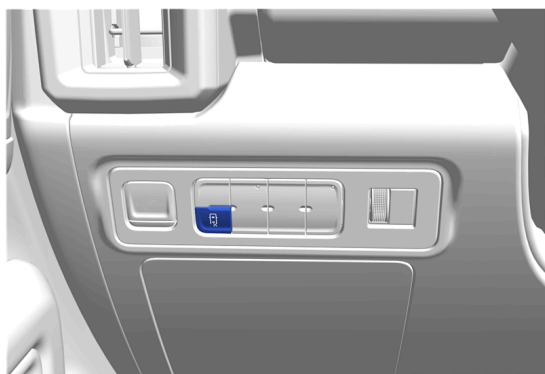


Outside Method to Open Rear Compartment Access Door



To open or close the swing gate, press the touch pad below the left hand taillamp.

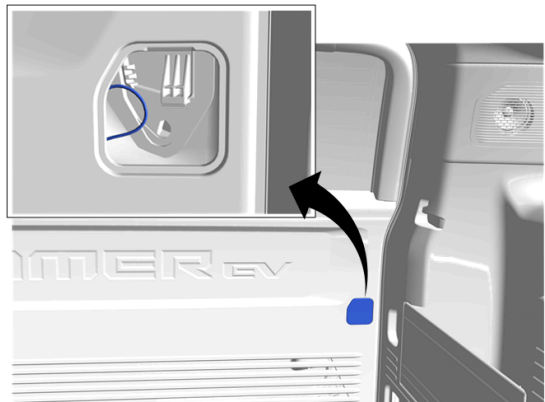
Inside Method to Open to Rear Compartment Access Door



Power Operation

To open the swing gate, press the button on the instrument panel to the left of the steering wheel.

To close the swing gate, press the button and hold until the swing gate closes.



Manual Operation

The swing gate release cable is located on the left hand side of the swing gate behind the cable access cover.

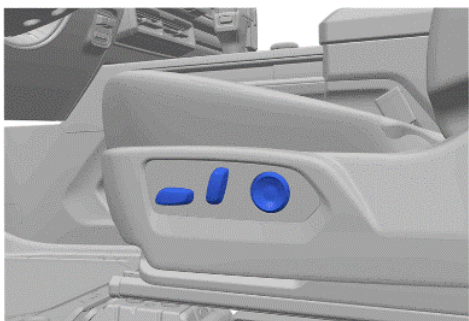
Firmly pull the swing gate release cable to release the swing gate.

Steering Column Tilt and Telescoping Control Switch



- Press the control up or down to tilt the steering wheel up or down.
- Press the control rearward or forward to move the steering wheel closer or away from you.

Seat Control Switches



The seat switches function the same for the driver and front seat passenger.

Front Switch

- Move the seat forward or rearward by sliding the control forward or rearward.
- Raise or lower the seat by moving the control up or down.

Middle Switch

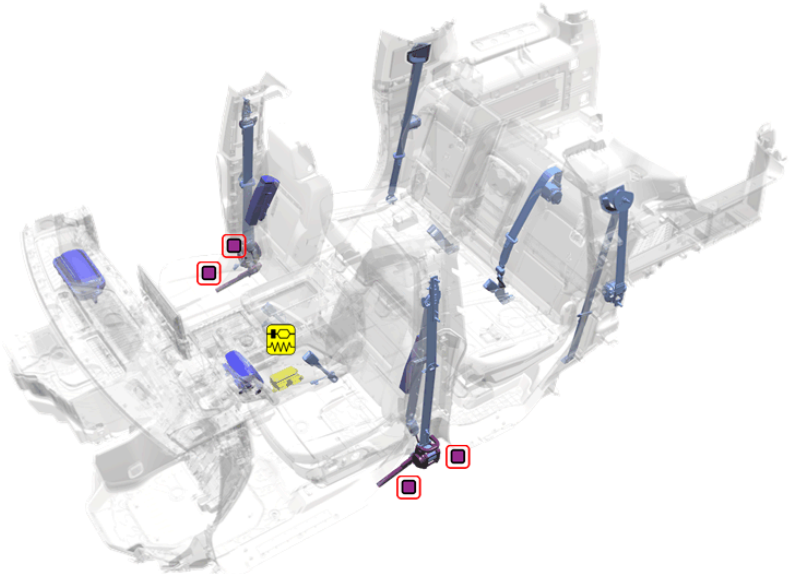
Rotate the switch forward to raise the seatback and rearward to recline the seatback.

Occupant Restraint Systems

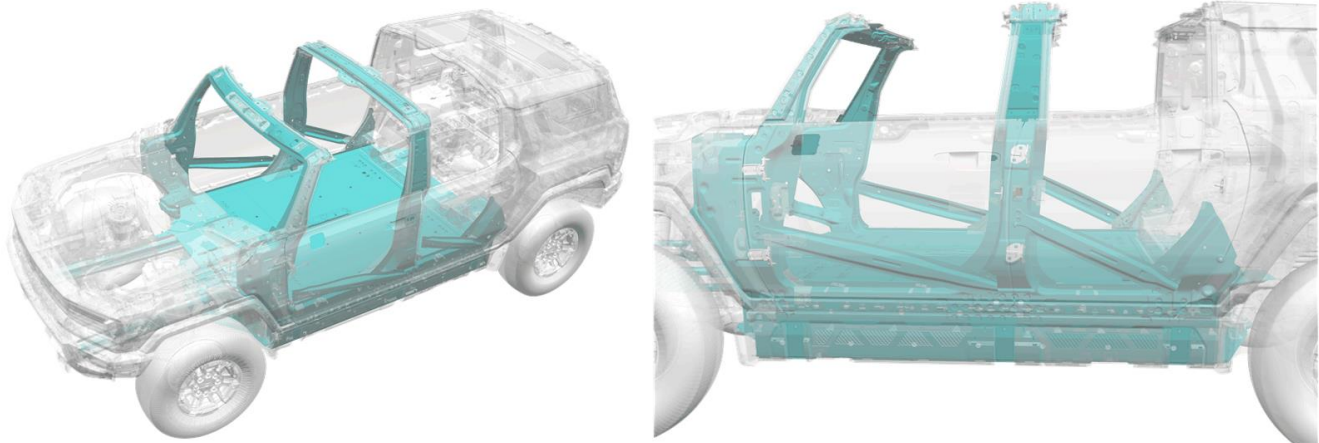
The HUMMER EV is equipped with four Airbags:

- Driver
- Front Seat Passenger
- (2) Front Seat Outboard Airbags

There are seat belt restraints for five occupants. The front seat belt system includes belt retractor mounted pre-tensioners.



High Strength Steel Structure









The passenger compartment is protected using high strength steel in the 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

Li-ion	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, you will not be electrocuted 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.

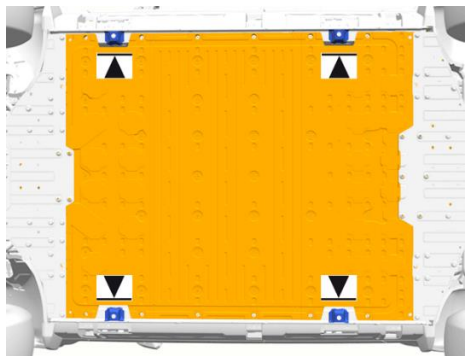
8. Towing / transportation / storage

Tow Hooks

The vehicle is equipped with two front tow hooks used to pull the vehicle onto a flatbed carrier from a flat road surface.

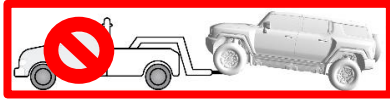
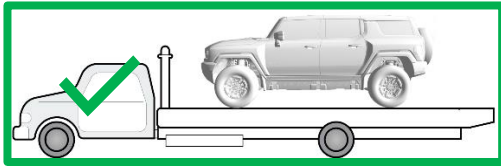


Vehicle Towing and Transportation



The lifting point features should only be used for lifting the vehicle. Do NOT use these features as attachment points to move or tie the vehicle down.

General Motors recommends a flatbed carrier 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 load the vehicle onto a flatbed carrier.

Post-Crash Vehicle Storage

Store the vehicle a safe distance/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		Front Compartment Release
	Power Button		Cable Cut Location		