

Information for First & Second Responders Emergency Response Guide For Vehicle:





2023 Honda Accord Hybrid 4-Door Sedan Hybrid Electric Vehicle



Version 1

This guide has been prepared to assist emergency response professionals in identifying a 2023 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 1 (888) 946-6329

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



Contents

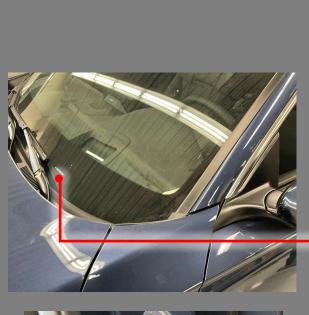
1. le	dentification / Recognition	Page 04
2. I	mmobilization / Stabilization / Lifting	Page 09
3. [Disable Direct Hazards / Safety Regulations	Page 12
4. <i>A</i>	Access to the Occupants	Page 15
5. 5	Stored Energy / Liquids / Gases / Solids	Page 19
6. I	n Case of Fire	Page 21
7. l	n Case of Submersion	Page 22
8. 1	Fowing / Transportation / Storage	Page 23
9. I	mportant Additional Information	Page 34
10. E	Explanation of Pictograms Used	Page 40

The Honda Accord Hybrid can be identified by the **ACCORD** emblem mounted on the trunk, the **HYBRID** emblem mounted on the trunk, and the **HYBRID** sticker on the steering column cover.

The Accord Hybrid can also be identified by the orange cables throughout the engine compartment and under the vehicle.









The Honda Accord Hybrid can also be identified by inspecting the two VIN locations shown below.

The characters 4 thru 6 of the VIN will show CY2 indicating that it is a Honda Accord Hybrid.

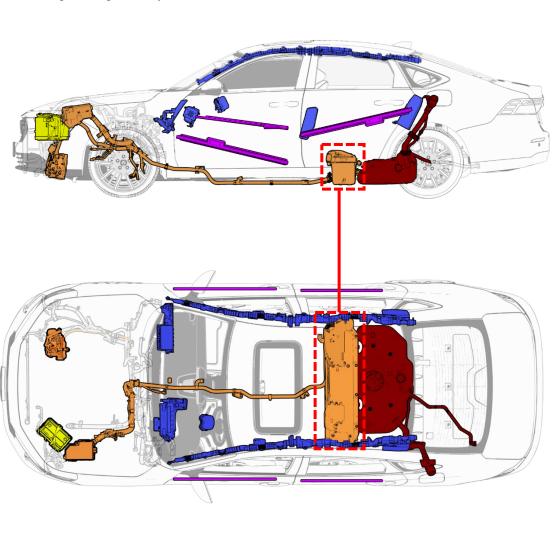
1HG<u>CY2</u>*****000001

VIN plate located on the lower-right corner of the front windshield

Printed on the VIN label on the driver's side doorjamb

High-Voltage Battery - Location

The high-voltage battery is located under the rear seats.









How to Determine if Vehicle is in ON / OFF Mode.

Check the POWER button and the gauges for the vehicle status.

Vehicle is OFF

The power to all electrical components is turned off.

- The POWER button is OFF.
- Pressing the POWER button once will change to the Accessory mode.



You can operate the audio system and other accessories in this position.

- The POWER button is blinking.
- Press the POWER button twice to turn off the vehicle.
- While in accessory mode, pressing the POWER button once will change to the ON mode.

Vehicle is ON

The Engine is OFF but all electrical components can be used.

- The POWER button is blinking.
- Press the POWER button once to turn the vehicle OFF.
- While pressing the brake pedal, pressing the POWER button once will turn on the READY indicator on the gauge.







Vehicle is Ready to Drive

The **READY** indicator is shown on the gauge.

- The POWER button is ON.
- Depending on the high-voltage battery state of charge, the EV indicator may be ON or the Engine may be ON.



 Press the POWER button once to turn the vehicle OFF.







Parking the Vehicle

NOTE:

- The following features will only operate if the vehicle's 12-volt battery power is available.
- If the 12-volt power IS NOT available, use available wheel chocks.
- 1. Press the POWER button twice to turn the vehicle ON.
- Press and hold the brake pedal, then shift to the P position on the Gear Selector to shift the transmission to Park, or N to shift the transmission to Neutral.
- 3. Push the POWER button to turn the vehicle OFF.
- 4. If necessary, pull up the Electric Parking Brake switch to apply the parking brake.









Applying the Electric Parking Brake

The electric parking brake can be applied any time the vehicle has 12-volt battery power no matter what power mode it's in.

Pull up the Electric Parking Brake switch gently and securely.

The parking brake and Brake System indicator will turn on.



Releasing the Electric Parking Brake

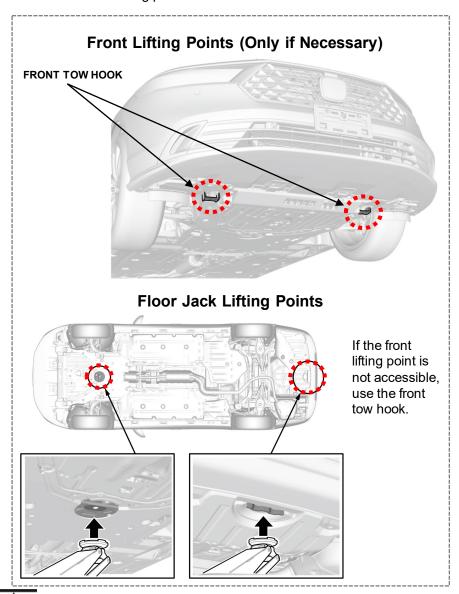
The power mode must be turned to ON to release the electric parking brake.

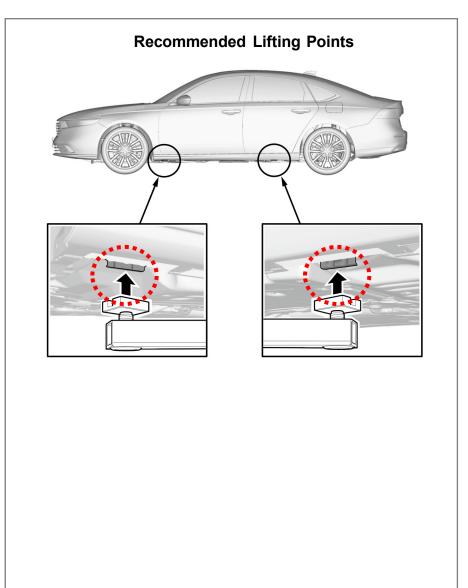
- 1. Press and hold the brake pedal.
- 2. Press the Electric Parking Brake switch.

The parking brake and Brake System indicator will turn off.

Lifting the Vehicle

Use the indicated lifting points to raise the vehicle.







Preventing Current Flow Through the High-Voltage Cables

Before attempting to rescue occupants or move a damaged Honda Accord Hybrid, you should reduce the potential of current flowing 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 in the following pages:

PREFFERED METHOD for High-Voltage Shutdown

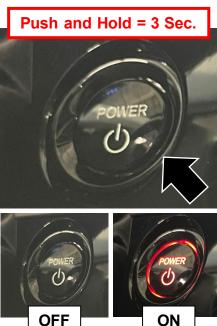
Push and hold the POWER button for 3 seconds.

This simple action turns the vehicle OFF and immediately shuts down the high-voltage system controllers, preventing current flow into the cables. It also cuts power to the airbags and 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, disconnect the negative terminal from the 12-volt battery to prevent electrical fires and accidental restarting of the vehicle.









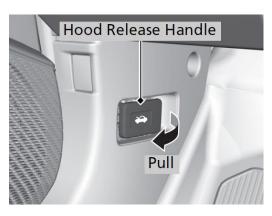
3. Remove the support rod from the clamp using the grip. Mount the

ALTERNATIVE BEST METHOD for High-Voltage Shutdown

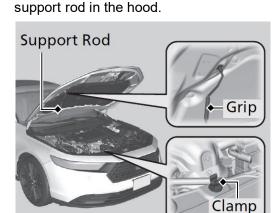
Locate and cut the negative 12-volt battery cable and the power control unit (PCU) cable in the engine compartment.

Cutting both the negative 12-volt battery cable and PCU cable immediately turns off and shuts down the high-voltage system controllers and engine, preventing current flow into the high-voltage cables.

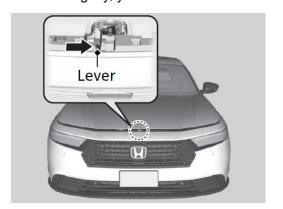
1. Pull the hood release handle under the driver's side lower corner of the dashboard. The hood will open slightly.



2. Push the hood latch lever (located under the front edge of the hood to the center) to the side and raise the hood. Once you have raised the hood slightly, you can release the lever.



Continued on the next page.



If you need to cut the hood to open it, be sure to stay within the cut zone as shown





ALTERNATIVE BEST METHOD for High-Voltage Shutdown (continued)

4. Locate the two cut point labels as shown, and cut them.

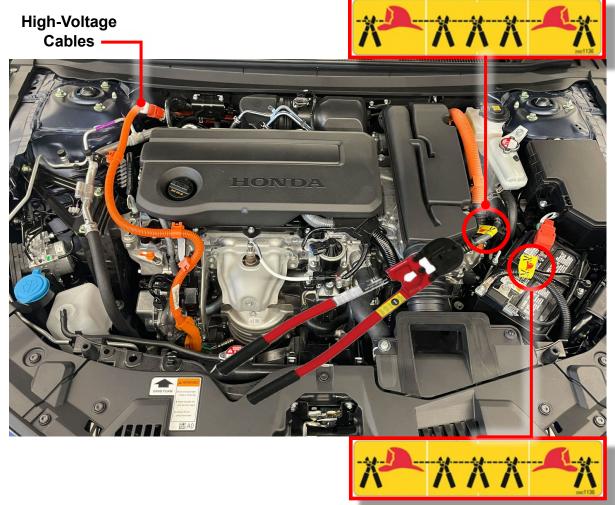
If touching high-voltage cables and/or other high-voltage components is unavoidable, personal protective equipment (insulating gloves,

goggles, and boots) should always be worn.

This also cuts power to the airbags and the front seat belt tensioners, but remember these pyrotechnic devices have up to a **3-minute** deactivation time.

NOTE: When cutting the cables, do not allow the cutting tool to contact any surrounding metal parts; electrical arcing could occur, igniting any flammable vapors.

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.



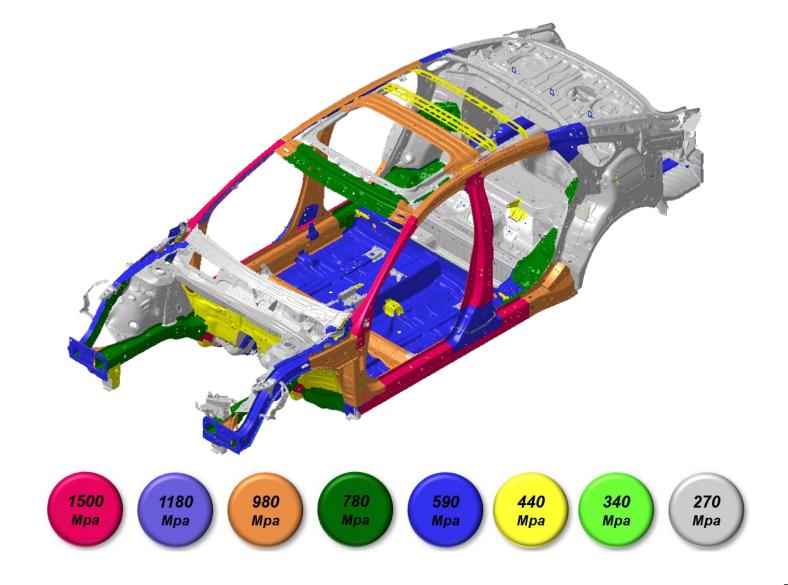






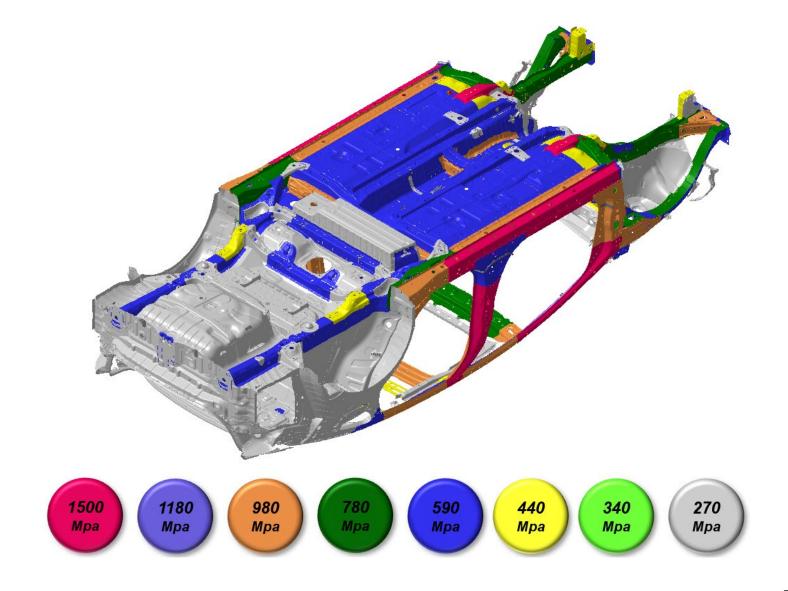
High-Strength and Ultra-High-Strength Steel

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



High-Strength and Ultra-High-Strength Steel

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



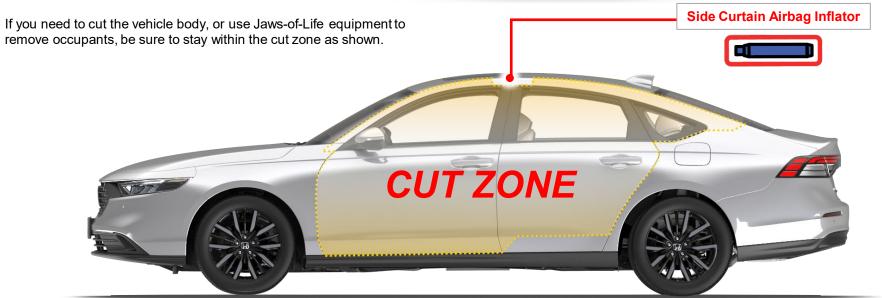


Extricating Occupants

If you need to cut the hood to open it, be sure to stay within the cut zone as shown.

When cutting the vehicle body, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.





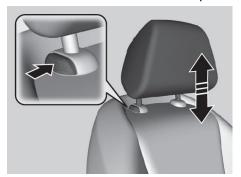
Moving the Seats, Head Restraints & Steering Wheel





To raise the head restraint: Pull it upward.

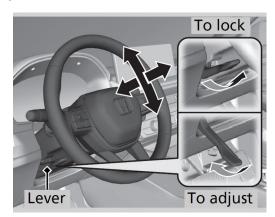
To lower the head restraint: Push down while pressing the release button.



To adjust the steering wheel position:

- 1. Pull the steering wheel adjustment lever down.

 The steering wheel adjustment lever is under the steering column.
- 2. Move the steering wheel up or down, and in or out.
- Push the steering wheel adjustment lever up to lock the steering wheel in position.





Туре	Capacity	Content	Dangers	
12-Volt Battery	12 V — 45 Ah/20 HR (12 V — 36 Ah/5 HR)	 Lead 34% Lead Peroxide 31% Lead Sulfate 1% Sulfuric Acid (35%) 34% 		
Lithium-lon, High-Voltage Battery	259.2 V 72 cells (36 cells × 2 modules)	 Lithium Metal Oxide 15-25% Aluminum 20-30% Graphite 5-15% Copper 15-25% Organic electrolyte 15-25% (Maximum volume: 50cc) 		
Engine Oil	5.4 US qt (5.1 L)	Distillates, petroleum, hydrotreated heavy parrafinic.		
Gasoline Tank	12.81 US gal (48.5 L)	 Gasoline 88-100% Ethanol Less than 10% Toluene Less than 10% 1,2,4-Trimethylbenzene Less than 5% Benzene Less than 5% N-Hexane Less than 3% 		
Engine Coolant	1.49 US gal (5.63 L)	 Ethylene Glycol 43 - 49 % Diethylene Glycol Less than 3% 		
High-Voltage Battery Coolant	About 0.29 US gal (1.1 L)	 Hydrated inorganic acid, organic acid salts Less than 5% Water 45 - 55 % 		

Туре	Capacity	Content	Dangers
Transmission Fluid	4.4 US qt (4.2 L)	 Lubricating base stocks 80-90% 2,6 Di-tert-butyl-p-cresol <0.1 to 1.0% 	Not provided on SDS
Brake Fluid	N/A	 Diethylene Glycol Less than 10% Mixture of glycol ether, glycol derivative, glycol ether borate ester (except diethylene glycol) 89 - 99 % None 	Not provided on SDS
Air Conditioning Refrigerant	HFO-1234yf 15.34 – 17.11 oz (435 – 485 g)	Tetrafluoroprop-1-ene 100%	
Windshield Washer Fluid	1.6 US qt (1.5 L)	Concentrate • Methyl Alcohol (methanol) more than 99% Tablet • Sodium carbonate (2:1) 40 to 55% • Citric acid 20 to 40% • Ethoxylated fatty alcohols 0.1 to 3% • Alkoxylated alcohols 0.1 to 2%	

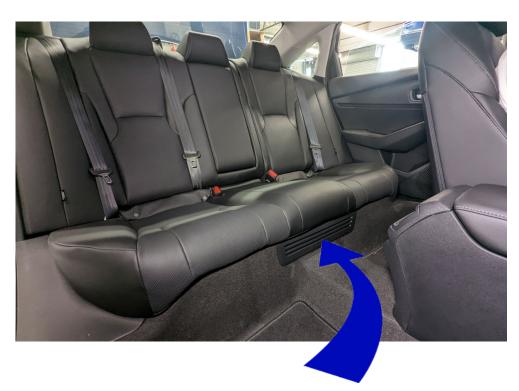
Fire Extinguishing Methods

In case of a vehicle high-voltage battery fire, the fire should be extinguished using the following procedure if possible.

If touching high-voltage cables and/or other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.

- Extinguish the fire using a large volume of water such as from a fire hydrant, well water, or pond water. If water is not available, an ABC powder fire extinguisher may be used as an alternative.
- 2. If it is safe to do so, open the passenger's side rear door and direct water from the right side into the high-voltage battery vent under the rear seat cushion.
- 3. Continue extinguishing until a complete suppression of fire and smoke is observed from the battery area.
- 4. Once signs of active fire have completely subsided (e.g. no visible smoking), a thermal camera should be used to evaluate and monitor the temperature of the battery unit.

NOTE: The battery temperature should continue to be monitored. If the battery temperature begins to increase, a possibility for reignition exists, and additional water or a fire extinguisher should be used to mitigate reignition.



WARNING:

- Do NOT attempt to open the battery cover at this time.
- Never use seawater or any water containing salt.
- Always assume the high voltage battery contains stranded energy and a possibility for reignition exists.

See Section 8 (Towing/Transportation/Storage) for additional procedures including discharging the high voltage battery.







Submerged Vehicle

If a Honda Accord Hybrid is submerged or partly submerged in water, first pull the vehicle out of the water, then shut down the high-voltage system. See Section 3 (Disable Direct Hazards / Safety Regulations for the high-voltage shutdown procedures.

If touching high-voltage cables and/or other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.



Aside from severe damage to the vehicle, there is no risk of an 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.

See Section 8 (Towing/Transportation/Storage) for additional procedures including discharging the high voltage battery.

Shifting the Vehicle into Neutral

NOTE:

- The following features will only operate if the vehicle's 12-volt battery power is available.
- If the 12-volt power IS NOT available, use available wheel chocks or dollies.
- See Section 2 (Immobilization/Stabilization/Lifting) for additional procedures including parking the vehicle.
- 1. Press the POWER button twice to turn the vehicle ON.
- 2. Press and hold the brake pedal.
- 3. Shift to N on the gear selector to shift the transmission to Neutral.
- 4. If necessary, press and hold the brake pedal, then press the Electronic Parking Brake button to release the parking brake.
- 5. Release the brake pedal and push the POWER button to turn the vehicle to ACCESSORY.

NOTE:

- Manually shifting to park cancels ACCESSORY mode. The P indicator comes on, and the power mode changes to OFF.
- Always shift the transmission to park when neutral hold is no longer necessary.



Emergency Towing

The preferred method for emergency towing is to use a flat-bed tow truck. If wheel lift equipment must be used, be sure to suspend the front wheels and release the parking brake. **DO NOT** use cable-type tow equipment.

NOTE: If there is a 12-volt power failure, the vehicle cannot be shifted into neutral. Use available wheel dollies.

Flat-Bed	Front Wheel Type	Cable-type
 Secure the vehicle on the flat-bed tow truck. Apply the parking brake. 	 Lift the front wheels. Release the parking brake. 	Never tow this vehicle with cable-type equipment.

Be aware that when rolling a Honda 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.

Carry a fire extinguisher during transportation for enhanced safety, and have the flat-bed tow truck with the damaged vehicle followed by another support vehicle for monitoring. After transportation, discharge the battery if necessary. See the Battery Discharging information on this section.

AWARNING

If the orange high-voltage cables or high-voltage covers have been damaged exposing wiring, terminals, and/or other components, the exposed parts should never be touched. Doing so could result in serious injury or death due to severe burns or electric shock.

If it is not clear whether the exposed wires and terminals are high-voltage components or not, do not touch them.

If touching high-voltage cables and/or other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.

Acoustic Vehicle Alerting System



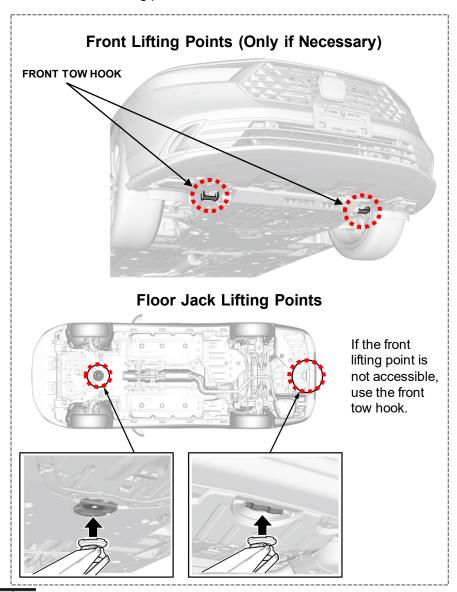


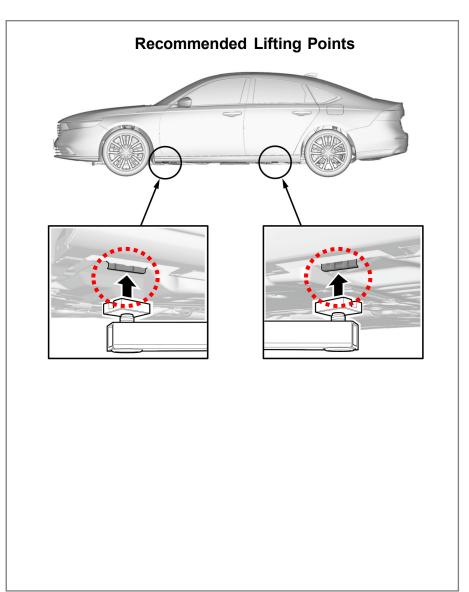
The Honda Accord Hybrid is equipped with an acoustic vehicle alerting system that alerts pedestrians with an audible sound that it is approaching when the speed is about **14 mph** or less. When pushing the Honda Accord Hybrid with the ignition turned to ON, you will hear this sound as the vehicle is being moved.



Lifting the Vehicle

Use the indicated lifting points to raise the vehicle.

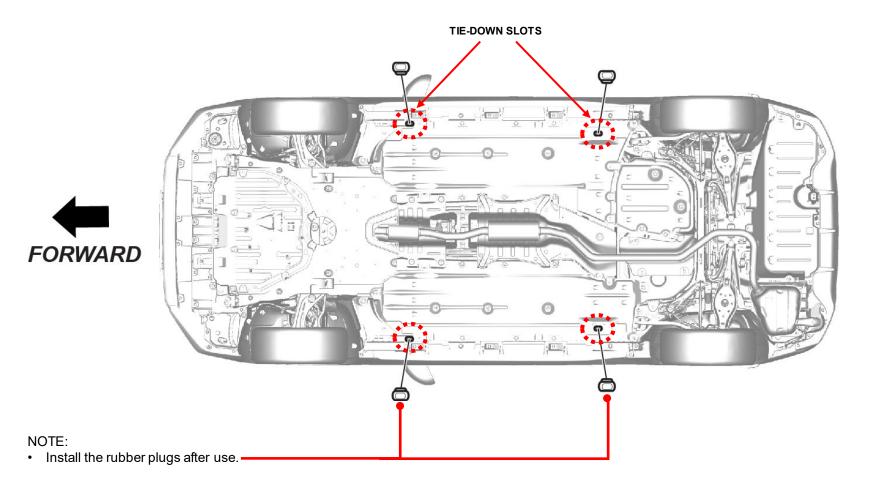


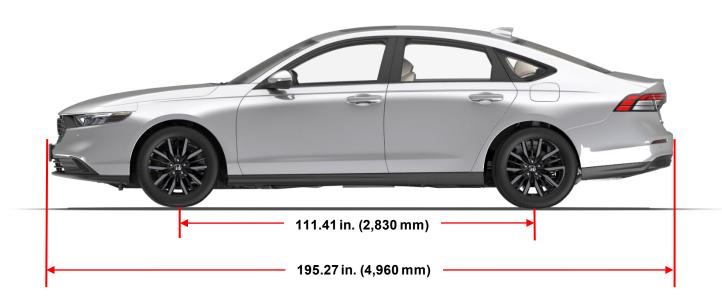


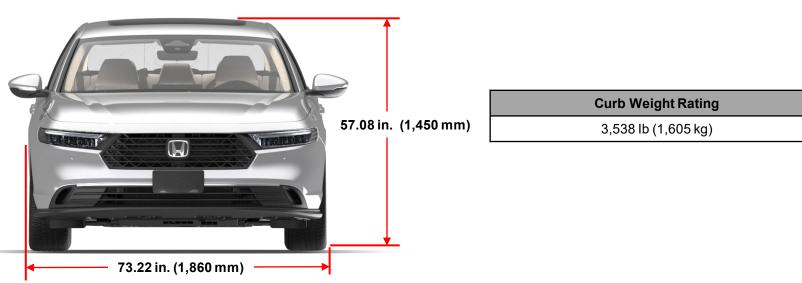
Securing the Vehicle

The recommended tie-down locations for securing the vehicle are indicated below.

• Four tie-down slots (covered by rubber plugs) - Two behind the front wheels and two in front of the rear wheels







Storing the Vehicle

The damaged vehicle can be stored in either Open Perimeter Isolation or Barrier Isolation.

Open Perimeter Isolation

Store the vehicle in an outdoor area separated from all combustibles and structures by a minimum distance of 50 feet (15.2 m) from all sides.



Barrier Isolation

- Store the vehicle in an outdoor area separated from all combustibles and structures with a barrier constructed of earth, steel, concrete or solid masonry designed to contain a fire or prevent the fire from extending to adjacent vehicles.
- The barriers should be of sufficient height to direct any flame or heat away from adjacent vehicles.
- If the barrier is only on three of the four sides of the vehicle, the open side must maintain the separation distance referenced above.
- It is not recommended to fully enclose the vehicle in a structure due to the risk of post-incident fire extending to the structure and the possibility of trapped explosive or harmful gases. Therefore, a roof is not recommended for barrier isolation.

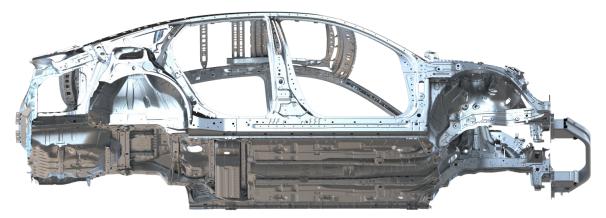
High-Voltage Battery Access

See Section 8 (Battery Discharging) for procedures to remove the rear seat and turning off the high-voltage service plug.

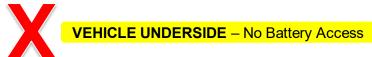
NOTE: In the event of an emergency, remove the seat cushion with extrication equipments as necessary.









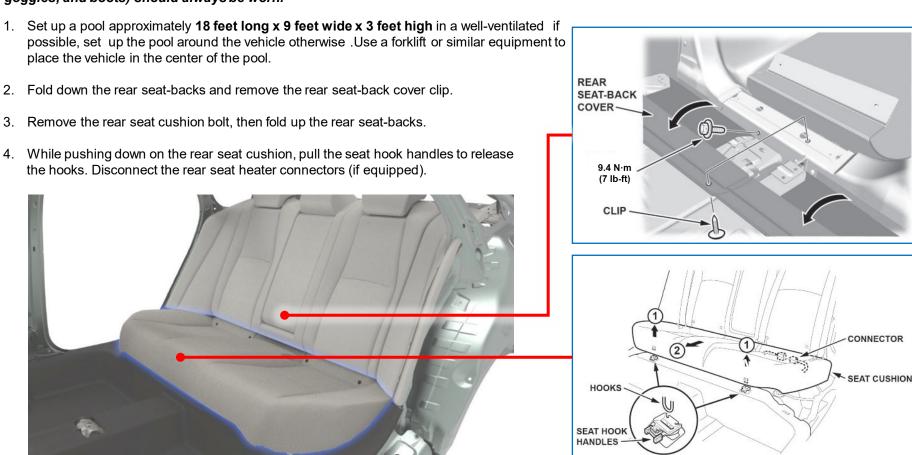


Emergency Battery Discharging/Re-ignition prevention.

If the high-voltage battery is severely damaged or burned, or the vehicle has been submerged, and water has entered and accumulated on the floor of passenger compartment, the battery can be discharged using the following method: Failure to discharge stored or stranded energy remaining in the battery may result in a fire or re-ignition due to damage or short circuit.

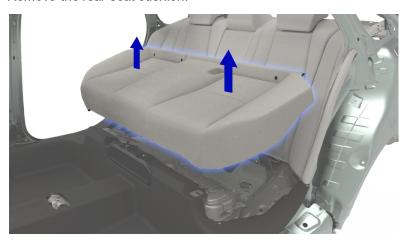
See Section 3 (Disable Direct Hazards / Safety Regulations) for procedures to disconnect the 12-volt battery.

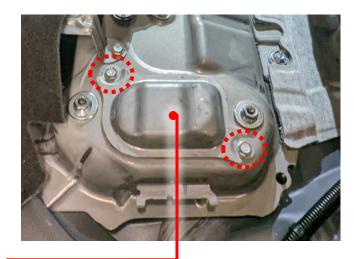
If touching high-voltage cables and/or other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.



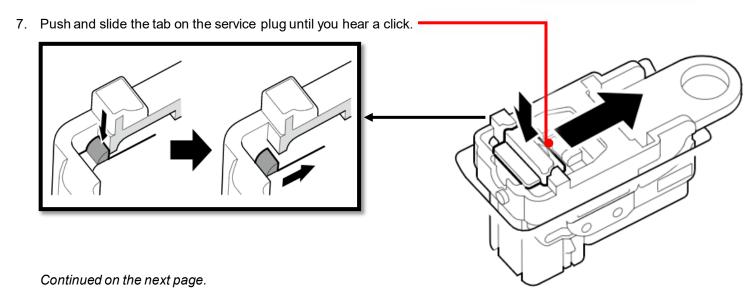
Battery Discharging (continued)

5. Remove the rear seat cushion.





6. Remove the service plug cover 10 mm bolts, then remove the service plug cover.

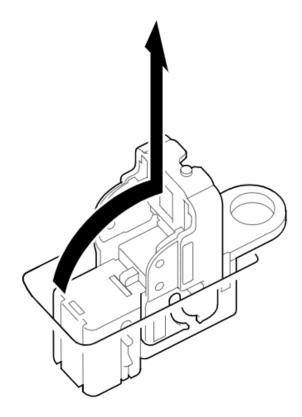






Battery Discharging (continued)

8. Raise the lever and remove the service plug.



- 9. Set up a pool approximately 18 feet long x 9 feet wide x 3 feet high in a well-ventilated outdoor area.
- 10. Use a forklift or similar equipment to place the vehicle in the center of the pool.

Continued on the next page.





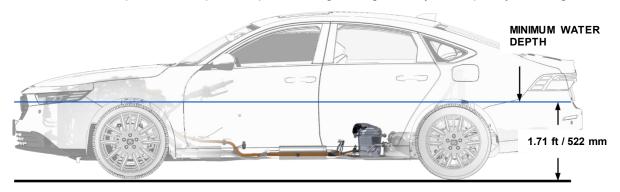
Battery Discharging (continued)

11. Fill the pool with water from a fire hydrant, well water, or pond water until the high voltage battery is completely submerged. If there is a risk of water leakage from the pool, place a thick plastic sheet under the pool.

Never use seawater or any water containing salt.



12. Continue filling the pool to a minimum depth of 1.71 ft (522 mm) until the high voltage battery is completely submerged.



13. Maintain this water level for at least 3.5 days. If the water level drops below the minimum specified level, add fresh water.

Since the water used for discharging the battery is converted to an aqueous solution containing metals such as Phosphorus (P) and Lithium (Li), dispose of it properly as an industrial waste according to local regulations.





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. 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.

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



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.



Disposal

The lithium-ion battery, the high-voltage battery fluid, and the water used to discharge the battery must be properly disposed of as industrial waste according to local regulations.

Seat Belts and Airbags

The Honda Accord Hybrid is equipped with lap/shoulder belts in all seating positions. The front seat belts are equipped with pyrotechnically activated tensioners that help tighten the seat belt in a sufficient crash.

In addition, the Honda Accord Hybrid is equipped with the following airbags:

- Front Airbags Driver/Front Passenger
- Knee Airbags Driver/Front Passenger
- Side Airbags Rear Passenger's
- Side Curtain Airbags Driver's Side/Passenger's Side

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 described in this guide.

In a collision severe enough to deploy one or more of the airbags, the Honda 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.

However, responders should always assume that the high-voltage system is powered on and take the appropriate action described in this guide to power off the system.



Vehicle Collision

In the event of a crash, the supplemental restraint system (SRS) 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 electronic control unit (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 a Honda Accord Hybrid, we recommend that emergency personnel follow their organization's standard operating procedures for assessing and dealing with vehicle emergencies.

Honda recommends that responders follow the procedures in this guide to avoid potentially lethal shock from high voltage.





Dealer Inspection and Repair

Once Emergency and any re-ignition concerns are resolved, damaged Honda CR-V Hybrid should be taken to an authorized Honda dealer for thorough inspection and repairs. For questions or to locate an authorized Honda dealer, please contact your local Honda dealer or Honda Automobile Customer Service at 1 (888) 946-6329

High-Voltage Battery Recycling

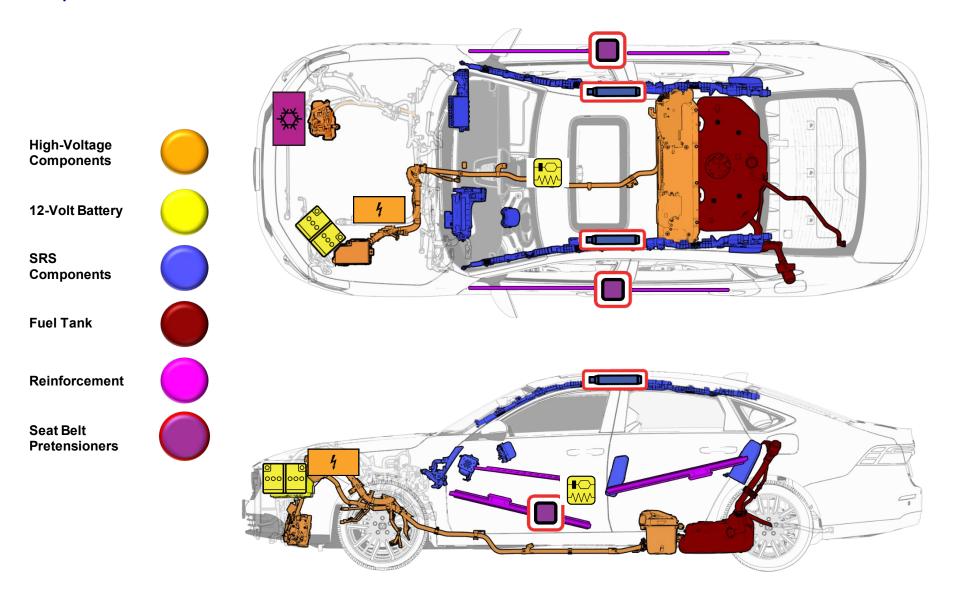
The high-voltage lithium-ion battery requires special handling and disposal. If disposal is necessary, please contact your local Honda dealer







Components



10. Explanation of Pictograms Used

Pictogram	Name	Pictogram	Name
	Hood release/opener control	0 0	High-voltage battery pack
	Tailgate/cargo area opener control	4	High-voltage component
%	Power switch	N	High-voltage power cable
	Keyless operation key distance		Fuel tank (gasoline)
	Fuse box disabling high-voltage		Air-conditioning component
X X X X X X	Cable to cut to disconnect high-voltage	\wedge	General warning
%	High-voltage service plug	4	Electricity or dangerous voltage
Ž.	Steering wheel height adjustment control	<u></u>	Use a thermal infrared camera
<u></u>	Seat height adjustment control		Use water to extinguish the fire
#	Forward or backward seat adjustment control	1	Use ABC powder to extinguish the fire
	Lifting point		Flammable
	Airbag	\Diamond	Gases under pressure
	Airbag inflator		Corrosive
	Seat belt pretensioner	\$	Hazardous to human health
000 000	12-volt battery	Ŷ.	Environmental hazard
	SRS control unit		

HONDA