

# INFORMATION FOR FIRST AND SECOND RESPONDERS EMERGENCY RESPONSE GUIDE FOR VEHICLE



HONDA e:Ny1 ELECTRIC 2023 -





# Introduction

This document describes the items to be considered when carrying out rescue operations on the e:Ny1 electric vehicle. Please read this manual carefully and observe the precautions for safe operation.

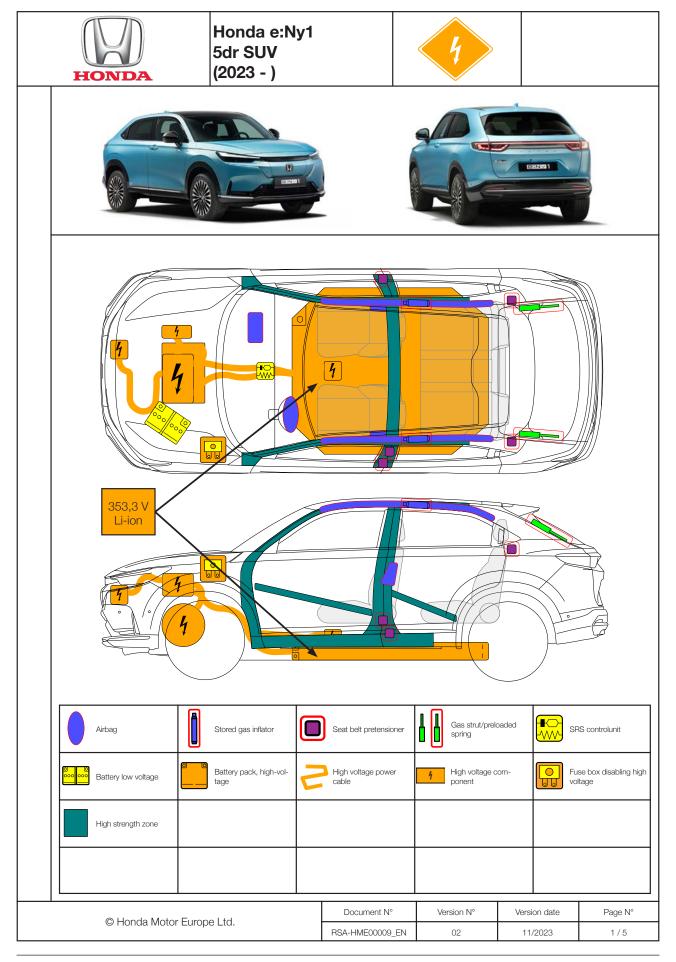
The e:Ny1 is powered by an electric motor supplied by the high-voltage battery. The high-voltage battery is charged by the charging cable.

© Honda Motor Europe Ltd.

# **Contents**

0.	Rescue sheet	4
1.	Identification / recognition	5
2.	Immobilization / stabilization / lifting	7
3.	Disable direct hazards / Safety regulations	9
4.	Access to the occupants	13
5.	Stored energy / Liquids / Gases / Solids	18
6.	In case of fire	21
7.	In case of submersion	23
8.	Towing / transportation / storage	24
9.	Important additional information	27
10	. Explanation of pictograms used	30

# 0. Rescue sheet



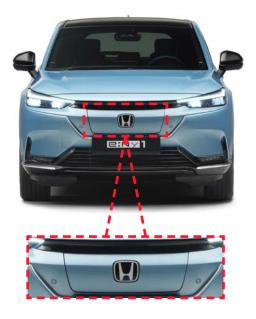
# 1. Identification / recognition

# How to identify a e:Ny1

The appearance and features of the e:Ny1 are described below. If the vehicle involved in the accident is the relevant model, please observe the precautions described in this manual for rescue work.

#### **External view**

e:Ny1: "e:Ny1" emblem on the rear, and charge port.





#### Type identification

The model and frame number can be found on the floor on the right side of the passenger seat, on a sticker on the B-pillar of the passenger side, and behind the front windscreen on the driver side. The characters 4 thru 6 of the VIN will show the model number RS1.



Stamping position floor



Sticker B-pillar passenger side



VIN behind front windscreen

#### About electric vehicles

The high-voltage system of the e:Ny1 uses a total voltage of more than 353,3 V. Rescue operations therefore require attention to and response to high voltages.



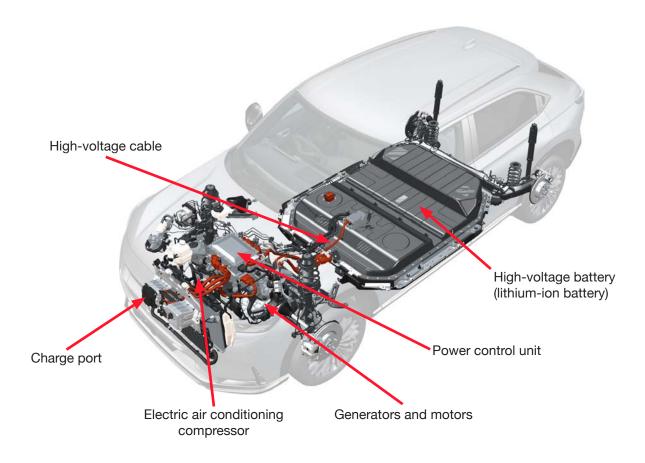
- If the orange high-voltage cable or high-voltage cover is damaged and exposed wiring or terminals are found, never touch these exposed parts. Also, if you are unsure whether the exposed wires or terminals are high voltage parts or not, do not touch them. Unintentional touching may result in serious injury or death due to severe burns or electric shock.
- If you have no choice but to touch or may touch the exposed parts of the high-voltage cables
  or high-voltage components, always wear insulating protective equipment (insulated gloves,
  protective glasses and insulated shoes).

The following items should be prepared in advance for e:Ny1 rescue activities.

- (1) Insulated protective equipment (insulated gloves, safety glasses, insulated shoes)
- (2) ABC fire extinguisher

Protective equipment for solvents [gas mask (for organic gases), rubber gloves (for chemical resistance)].

- High-voltage sites
- The high-voltage sections of the e:Ny1 are shown below
- The area enclosed by the dotted line in the illustration shows the high-voltage area
- High-voltage cables can be identified by their orange colour



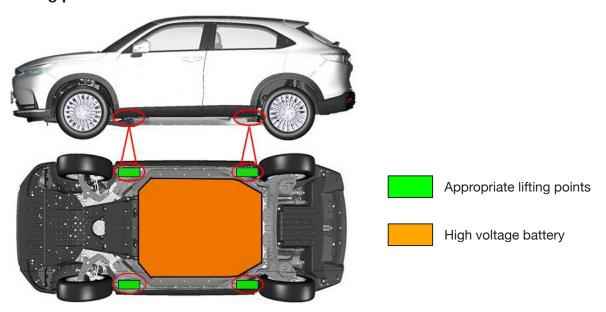
# 2. Immobilization / stabilization / lifting

# Immobilize vehicle:

- 1. Block wheels, apply brake and push the P (park) button to select the P (park) position
- 2. Set parking brake by pulling the parking brake switch (P)



# **Lifting points:**



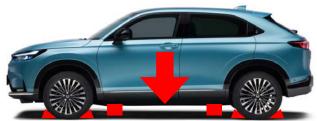


Support and lift Airbag equipment should be installed away from high-voltage parts under the floor. This may cause damage to high-voltage parts.

#### When securing and stabilising the vehicle

Apply the parking brake as you would for a normal vehicle to stop the wheels. To further stabilize the vehicle, place a piece of wood or other support under the vehicle to deflate the tires or use a rescue lift airbag device. Use a rescue lift airbag device or similar to stabilize the vehicle.



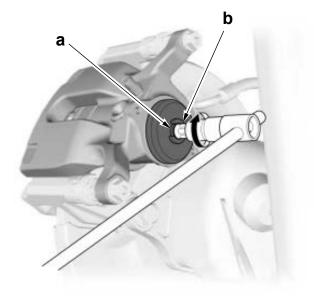




- When lifting or jacking up the vehicle, do not allow objects to hit the high-voltage cables on the underside of the floor.
- Do not allow objects to hit the high voltage cables under the floor when lifting or jacking up
  the vehicle. If the high voltage cables are damaged or cut, the wiring will be exposed and
  unintentional touching may result in serious injury or death due to severe burns or electric
  shock from the high voltage.

#### **Electric Parking Brake Forced Cancellation**

Forced cancellation is performed when the system is abnormal and the parking brake cannot be released.



#### Procedure:

Turn the spindle (a) clockwise until parking brake is released.

#### Tool "b" details:

T type TORX socket (Commercially Available)

# 3. Disable direct hazards / Safety regulations

#### **Vehicle Collision**

In a collision severe enough to deploy one or more of the airbags, the Honda e:Ny1 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.



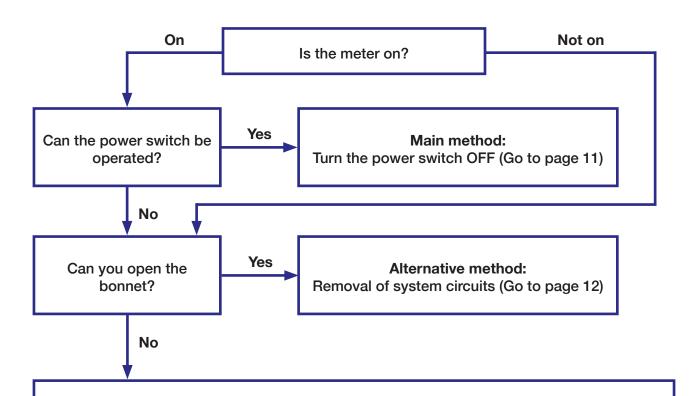
- If the orange high-voltage cable or high-voltage cover has been damaged and exposed wiring
  or terminals, do not touch those exposed parts. Also, if you are unsure whether the exposed
  wires or terminals are high-voltage parts or not, do not touch them. Unintentional touching
  may result in serious injury or death due to severe burns or electric shock!
- Always wear insulating protective equipment [insulated gloves, safety glasses and insulated shoes] when unavoidably touching or potentially touching exposed parts of high-voltage cables or high-voltage components..
- Do not disconnect high-voltage sections. Exposure of high voltage parts by disconnection, even after high voltage disconnection, may result in serious injury or death due to severe burns or electric shock!
- Do not disconnect any airbags that have not deployed or seat belt pretensioners that have not deactivated. Airbags and seat belt pretensioners are equipped with high-pressure gas generators, which may cause serious injury or death if disconnected.
- Do not disconnect any airbags that have not deployed or seat belt pretensioners that have not deactivated. Airbags and seat belt pretensioners are equipped with high-pressure gas generators, which may cause serious injury or death if disconnected.
- Always allow at least 3 minutes to elapse before disconnecting the airbag system, as the system continues to function for 3 minutes after the power switch is switched OFF or the 12 V battery is disconnected. However, this is not a problem if all airbags have already deployed.
- Use hydraulic cutters or other equipment that does not produce flying sparks to avoid the risk of serious injury due to ignition caused by sparks.

#### Methods of shutting down high voltage systems

Depending on the damage to the vehicle, high voltage should be interrupted. High voltage can be interrupted by any of the methods described below. After the high voltage has been interrupted, normal rescue activities can be carried out.

Follow the flow chart below to select the easiest method.

# Check for damage to the vehicle



Reliable high-voltage disconnection is not possible. If a high-voltage part is damaged, exposing wiring, terminals, etc., never touch it and be very careful that the exposed parts do not come into contact with the vehicle or the human body during rescue operations.



- If the orange high-voltage cable or high-voltage cover is damaged and exposed wiring or terminals are found, never touch these exposed parts. Also, if you are unsure whether the exposed wires or terminals are high voltage parts or not, do not touch them. Unintentional touching may result in serious injury or death due to severe burns or electric shock.
- If you have no choice but to touch or may touch the exposed parts of the high-voltage cables or high-voltage components, always wear insulating protective equipment [insulated gloves, protective glasses and insulated shoes].

# Main method: Turn the power switch OFF.

If the vehicle is damaged but the power switch can still be operated:

#### Turn the power switch to OFF.

- 1. Press the parking switch.
- 2. Press and hold the power switch for approx. 2 seconds or more to turn it OFF.







Press and hold for more than 2 seconds.



Operating the power switch while the display in the meter is off may cause the system to start.

# Check that all displays in the meter are off.

Ensure that all displays in the meter are off. To prevent unintended restarting, keep the keyless remote control at least 5 metres away from the vehicle





Even after the power switch has been switched off, it takes approximately 5 minutes for the electrical charge stored in the capacitor etc. to discharge. After the high voltage has been switched off, take care to avoid short circuits, etc.

#### Start rescue operations

# Alternative method: Removal of system circuits.

Power If the switch cannot be operated but the bonnet can be opened, open the bonnet.

#### Open the bonnet.

Pull the bonnet release knob at the foot of the driver's seat towards you, pull up the lever at the centre of the front of the raised bonnet to release the locking mechanism and raise the bonnet.

If the above procedure cannot be carried out, use a crowbar or similar tool to pry open the bonnet. If possible, secure the opened bonnet with the stays provided!

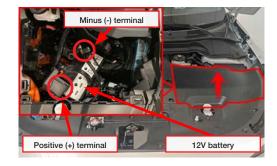




#### Disconnect the 12V battery.

Disconnect both the negative (-) and positive (+) terminals from the 12 V battery.

The high voltage system cannot be disconnected simply by disconnecting both the negative (-) and positive (+) terminals from the 12 V battery.



#### Disconnect the front terminal inside the relay box.

Remove the relay box cover and pull the fuse as shown on the right to interrupt the circuit of the high voltage system.





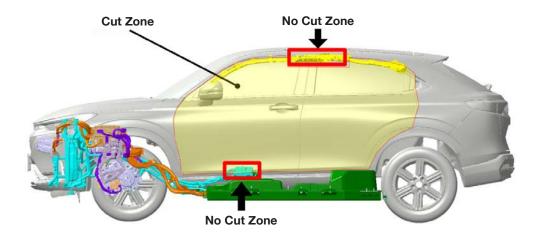
Even after the power switch has been switched off, it takes approximately 5 minutes for the electrical charge stored in the capacitor etc. to discharge. After the high voltage has been switched off, take care to avoid short circuits, etc.

#### Start rescue operations

# 4. Access to the occupants

# **Cut zone (cuttable area)**

If it is necessary to cut the vehicle body or use hydraulic cutters, etc. to rescue the occupants, do so within the cut zones shown in the diagram below.

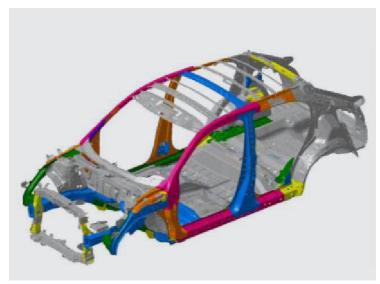




Do not cut the area near the high-pressure gas generator part of the side curtain airbag on the side of the vehicle (non-cut zone shown below). Do not disconnect the side curtain airbag near the high-pressure gas generator part on the side of the vehicle (non-cut zone shown below). Disconnection may result in serious injury or death. However, if the side curtain airbags are already deployed, disconnection is not a problem.

# Multiple types of steel

The body of the Honda e:Ny1 is made of multiple types of steel and are indicated by the colored areas.



RED: 1500 Mpa (Hot-stamped)
ORANGE: 980 Mpa
GREEN: 780 Mpa
BLUE: 590 Mpa
GRAY: < 590 Mpa



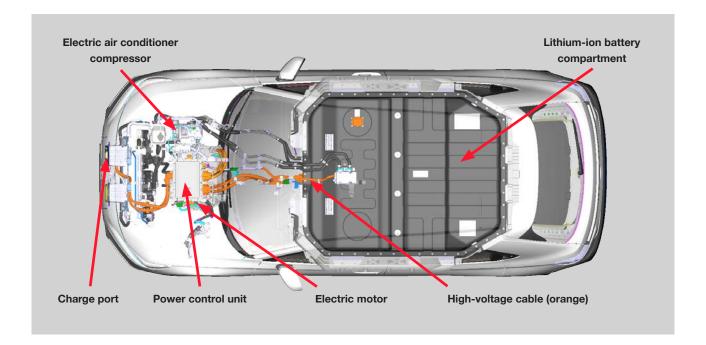
**Panoramic Roof** 

# **Location of high-voltage components**

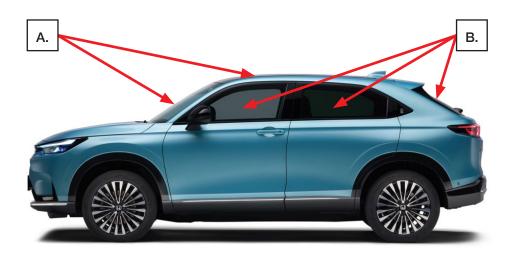
If it is necessary to cut the vehicle body or use hydraulic cutters, etc., to rescue occupants, avoid areas near high-voltage cables and lithium-ion batteries on the underside of the vehicle body.



Do not disconnect high-voltage parts. In particular, lithium-ion batteries may cause serious injury or death due to severe burns or electric shock if high voltage parts are exposed by disconnection, even after the high voltage has been interrupted.



# Glass types



- A. Laminated glass
- B. Tempered glass

#### **Treatment overview**

As well as the same precautions as for normal gasoline engine vehicles, precautions and measures for high voltages must be taken as a precaution specific to electric vehicles.

Please read the following items carefully and take appropriate measures according to the situation during actual operation.

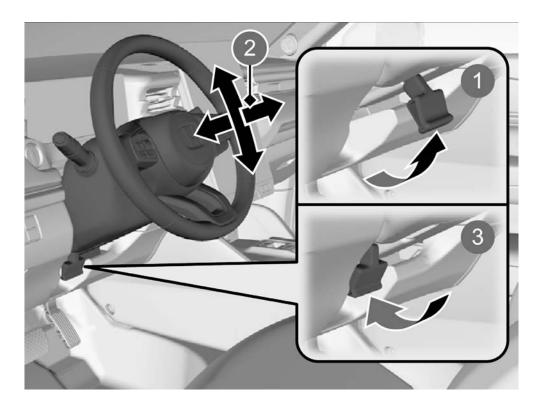
#### **Pre-treatment of auxiliaries**

Operate power windows, door locks, tailgate, etc. as required.

**Important:** If the 12 V battery connection is disconnected, the above electrical operations become impossible.

# When rescuing occupants from inside the vehicle

- Adjust the position of the steering wheel if you need to make room for occupant rescue in the front seat.
- Pull the lever up to adjust the handle position and push the lever down to fix the handle position.

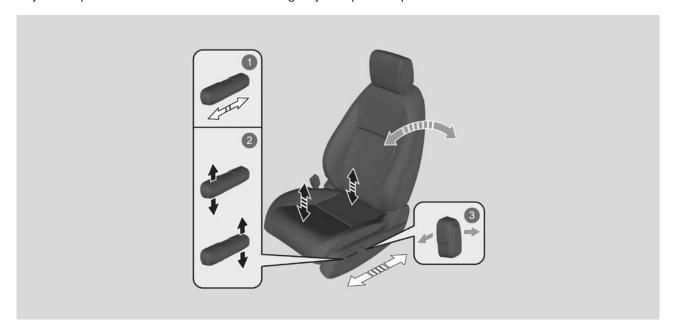


Adjustment

**Fixing** 

# Front power seat controls

Adjust the position of the front seats according to your space requirements



- **Adjusting the front/rear position**Adjust the front-back position by moving the switch back and forth.
- 2 Height adjustment (driver's seat)
  Adjust the height by moving the switch up or down.

# Backrest angle adjustment

Adjustment by moving the switch back and forth.

#### Front manual seat controls

Adjust the position of the front seat as required to secure space.



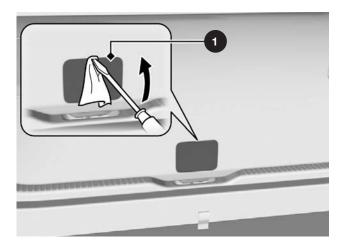
**1** Adjusting the front/rear position
Adjust the front/rear position while pulling up the lever.

2 Backrest angle adjustment
Adjust by pulling up on the lever.

# Opening the tailgate from inside

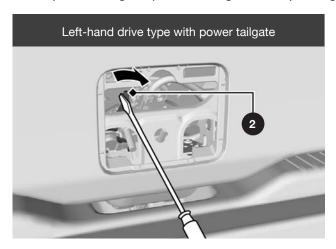
If you cannot open the tailgate, use the following procedure.

1. Use a flat-tip screwdriver and open the lid on the back of the tailgate.

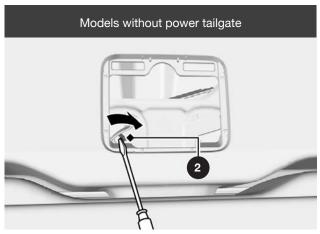


1 Lid

**2.** To open the tailgate, push the tailgate while pushing the lever to the right with the flat-tip screwdriver.







2 Lever

# 5. Stored energy / Liquids / Gases / Solids

# High voltage isolation

The e:Ny1 is high voltage isolated.

- Both positive (+)/negative (-) poles of the high voltage circuit are isolated from the vehicle body.
- High-voltage equipment and high-voltage wiring are provided with cases and covers to eliminate exposure of the high-voltage parts.
- High-voltage electrical components and lithium-ion batteries are enclosed in cases and stored under the vehicle.
- The high-voltage wiring in the engine compartment is also isolated by cable covers.
- The high-voltage wiring is identified in orange.
- · High-voltage areas are labelled with a caution label.

# **High-voltage disconnection**

The e:Ny1 is equipped with a system that can shut off high voltages.

- In the event of a short circuit or overcurrent, e.g. due to a collision or submersion in water, the battery control unit will interrupt the high voltage. The high voltage can also be interrupted by a blown fuse.
- The disconnection of the high voltage circuit is linked to the power switch.
- The high voltage circuit is interrupted when the power switch is switched OFF.

#### **About lithium-ion batteries**

- The e:Ny1 is powered by a high-voltage lithium-ion battery (drive battery) in addition to the 12 V automotive battery.
- The lithium-ion battery has a total voltage of more than 353,3 V
- The electrolyte is also sealed in the battery and does not need to be replaced or replenished.
- If the lithium-ion battery is damaged, there is no risk of leaking a large amount of electrolyte. For
  information on what to do in the event of a leak, see the next section.





The battery assembly cover should never be breached or removed under any circumstances, including fire. Doing so might result in severe electrical burns, shocks, or electrocution.



Never touch the components inside the high-voltage components or the conductors of the high-voltage wiring if they are exposed due to vehicle damage. Unintentional touching of high-voltage components may result in serious injury or death due to severe burns or electric shock.

If you have no choice but to touch or may touch the exposed parts of the high-voltage cable or high-voltage components, always wear insulating protective equipment [insulated gloves, safety glasses and insulated shoes].

# What to do in the event of a lithium-ion battery leak

- The electrolyte in the e:Ny1 lithium-ion battery contains volatile organic solvents. It is also colourless and transparent and cannot be identified by sight.
- If leaks are observed near the lithium-ion battery and electrolyte is suspected, wear solvent-resistant protective equipment [gas mask (for organic gases)].
- Always wear a gas mask (for organic gases) and rubber gloves (for chemical resistance)] and wipe up
  the leaked liquid with a dry rag. Store used rags, etc. in sealable bags or containers and dispose of
  them properly as industrial waste.



The electrolyte in lithium-ion batteries is harmful to the human body and may cause blindness or injury if it gets into the eyes or gets on the skin. In the event of contact with electrolyte in the eyes or on the skin, immediately flush with plenty of water and seek professional medical advice.

#### **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 e:Ny1 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.

# **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.

# Fluids and gases used in this vehicle

Туре	Capacity	Dangers	
O O Li-ion	353,3 V		
000 000	12 V		
菜	R-1234yf 415-465 g		



When conventional coolant leaks (check reservoir) from the high voltage (HV) battery cooling system, HV-battery can become unstable with risk of thermal runaway. An increasing HV-battery temperature might be an indicator of thermal runaway.



# 6. In case of fire

# Fire precautions and procedures

In the event of a vehicle fire, extinguish the fire by spraying large quantities of water to cool the battery. If it is difficult to discharge large quantities of water, use an ABC fire extinguisher (for both oil and electrical fires). In case of fire, use an ABC fire extinguisher (for both oil and electrical fires). In the event of fire, the insulating coating of the electrical wiring burns, causing a short circuit, which in turn blows the fuse in the power system and interrupts the high voltage. A short circuit can also be caused by leakage of electricity due to a large amount of water spraying, which may blow the fuses of the power system and interrupt the high voltage.

The fuses of the power system and the main fuse of the lithium-ion battery can blow, thereby interrupting the high voltage.

Depending on the location of the fire, high voltage may not be interrupted in some circumstances, e.g. if the fuse does not blow or if there is no leakage of electricity due to water spray. After extinguishing the fire, disconnect the high voltage according to 'Methods of shutting down high voltage systems' on page 10.

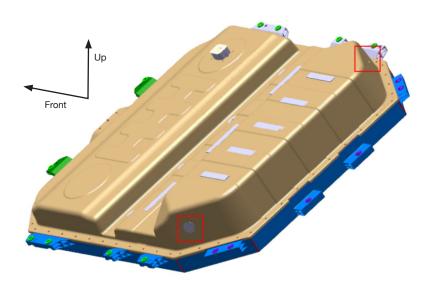
Note: None of the components used in the high-voltage system of the e:Ny1 are explosive.

# **Battery venting points**

A battery pack venting device is a safety mechanism designed to release excess pressure and potentially harmful gases from a battery pack in the event of a malfunction or overcharging. Battery packs, especially those containing lithium-ion or lithium-polymer batteries, can pose safety risks if they become overcharged, damaged, or overheated. In such cases, the internal pressure within the battery cells can increase, potentially leading to a rupture or explosion.

To mitigate these risks, battery pack venting devices are incorporated into the design of the battery. These devices typically consist of a pressure relief valve or a burst disc that is designed to open when the internal pressure of the battery exceeds a safe threshold. When the device activates, it allows gases to vent from the battery, preventing excessive pressure buildup and reducing the risk of a more severe failure.

The venting process helps protect against thermal runaway, where the battery becomes so hot that it can catch fire or explode. While battery pack venting devices are a crucial safety feature, it's important to note that they are intended as a last-resort measure and should not be relied upon as the primary means of managing battery safety.





# **USE LARGE AMOUNTS OF PURE WATER**











# POTENTIAL RISK OF HV-BATTERY FIRE RE-IGNITION / DELAYED FIRE!





Responders should always protect themselves with Personal Protective Equipment (PPE), including a Self-Contained Breathing Apparatus (SCBA), and take appropriate measures to protect civilians downwind from the incident.

# 7. In case of submersion

# **Submerged Vehicle**

If a Honda e:Ny1 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 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.



- If water enters the driving battery, hydrogen gas may be generated.
- When seawater enters, a large amount of hydrogen gas is generated by rapid electrolysis due to salinity, which may cause a fire.
- If you lift the vehicle, please open the windows and doors as there may be hydrogen gas in the vehicle.

#### Precautions and procedures when submerged in water

When the vehicle is submerged, a short circuit due to leakage caused by water ingress will cause the power system fuses and the main fuse of the lithium-ion battery to blow, thereby interrupting the high voltage.

In some circumstances, such as shallow water depths or submergence in areas where leakage does not occur due to water ingress, the high voltage may not be interrupted, so if possible, disconnect the high voltage according to 'Methods of shutting down high voltage systems' on page 10.



# 8. Towing / transportation / storage

### Accidental vehicle transport guidelines



- If the orange high-voltage cable or high-voltage cover is damaged and exposed wiring or terminals are found, never touch these exposed parts. Also, if you are unsure whether the exposed wires or terminals are high voltage parts or not, do not touch them. Unintentional touching may result in serious injury or death due to severe burns or electric shock.
- Always wear insulating protective equipment [insulated gloves, safety glasses and insulated shoes] when unavoidably touching or potentially touching exposed parts of high-voltage cables or high-voltage components.

#### Vehicle data

Data Car model	Overall length (mm)	Overall width (mm)	Overall height (mm)	Wheel base (mm)	Vehicle weight (kg)
e:Ny1	4387	1790-1806	1584	2607	1730-1756*

<sup>\*</sup> Depends on the grade

#### **Towing guidelines**

Towing should be carried out in accordance with the following guidelines.

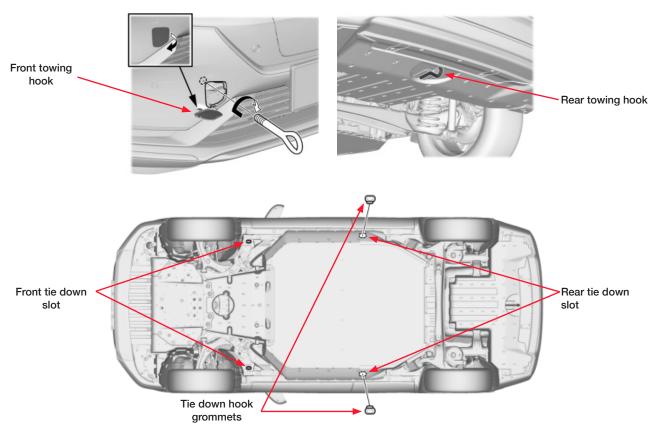
- Shall lift all four wheels or the front wheels.
- Tow ropes etc. must only be hung from the front/rear towing hooks (front/rear tie-down slots must only be used when securing the vehicle).
- Do not use bumpers to lift vehicles.
- Do not tow the vehicle in a way that causes damage to the vehicle.
- The speed must be less than 55 km/h and the towing distance must not exceed 80 km (except for towing by lifting four wheels).
- If the front and rear wheels are stuck, the four wheels shall be lifted and transported.
- If the N position is not reached, the four wheels shall be lifted and transported.
- Towing according to road traffic laws.

**Note:** On this model, it is possible to change the vehicle settings so that the parking brake is automatically activated when the power mode is set to OFF mode. If necessary, turn off the automatic parking brake activation function to prevent the parking brake from being applied when towing.

Towing should be carried out in accordance with the table below.

Towing method	Shift position	Conditions or notes
Cable-type Equipment	-	Never tow this vehicle with cable-type equipment.
Flat-bed Tow Truck Equipment	P-position	Secure the vehicle securely on a flat-bed truck.     Apply the parking brake.
Front Wheel Lift Equipment	N-position	Turn the vehicle to the ACCESSORY or ON mode, and then release the parking brake.

# Tow hook/tie-down Slot position



STORE VEHICLE IN AN OPEN-AIR PARKING AT A SAFE DISTANCE ≥ 5M FROM OTHER AROUND OBJECTS OR VEHICLES!

POTENTIAL RISK OF HV-BATTERY FIRE RE-IGNITION / DELAYED FIRE!



# 9. Important additional information

# **Seat Belts and Airbags**

The Honda e:Ny1 is equipped with lap/shoulder belts in all seating positions. The seat belts are equipped with pyrotechnically activated tensioners that help tighten the seat belt in a sufficient crash.

In addition, the Honda e:Ny1 is equipped with the following airbags:

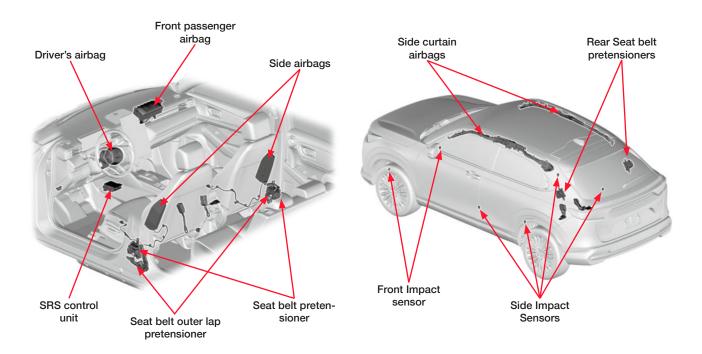
- Front Airbags Driver/Front Passenger
- Side Airbags Driver/Front Passenger
- Side Curtain Airbags Driver's Side/Passenger Side

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 e:Ny1 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.

#### Position of airbag-related components



# **Charging cable**

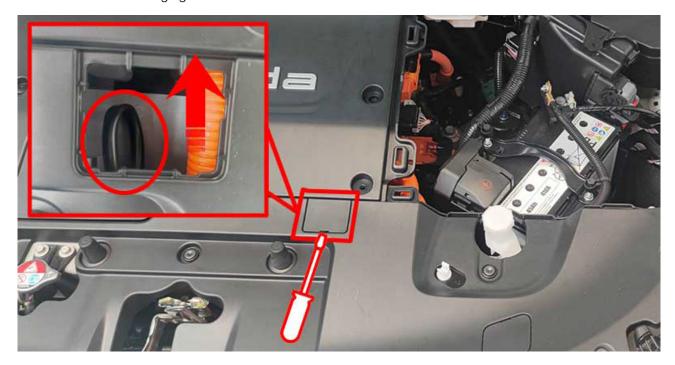
To release the charging cable with a functional 12 Volt circuit:

- Unlock the vehicle with the electronic key
- Push the release button on the charging socket
- · Disconnect the charging cable



To release the charging cable without a functional 12 Volt circuit:

- Open the hood
- Pull the release cable carefully
- · Disconnect the charging cable



#### 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 e:Ny1, 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.

#### Lithium-ion battery damage precautions and procedures

- · If the lithium-ion battery has been damaged, e.g. in a collision, observe the following warnings.
- In the unlikely event of a suspected leak, follow the section 'What to do in the event of a lithium-ion battery leak' on page 19.



- If the orange high-voltage cable or high-voltage cover is damaged and exposed wiring or terminals are found, never touch these exposed parts. Also, if you are unsure whether the exposed wires or terminals are high voltage parts or not, do not touch them. Unintentional touching may result in serious injury or death due to severe burns or electric shock.
- If you have no choice but to touch or may touch the exposed parts of the high-voltage cables or high-voltage components, always wear insulating protective equipment [insulated gloves, protective glasses and insulated shoes].

#### **Electric Shock**

Unprotected contact with any electrically charged high-voltage component can cause serious injury or death. Receiving an electric shock from a Honda e:Ny1, 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.

# 10. Explanation of pictograms used

A	Warning high voltage	4	Electric vehicle
<u>∧</u>	Caution		Flammable
*	Warning; low temperature		Hazardous to the human health
*	Air-conditioning component		Acute toxicity
	Use water to extinguish the fire		Explosive
ZIR ∭	Use thermal infrared camera		Corrosives
o o Li-ion	Battery pack, high-voltage	000000	Battery low voltage

