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BODY SHOP ADMINISTRATION MANUAL FOR CERTIFIED EV DEALER

**Global Aftersales Planning Dept.
Nissan Motor Co., Ltd.**

F o r e w o r d




This manual describes the body and paint repair processes that dealers should follow as they are related to the Nissan Leaf Electric Vehicle.

This vehicle is equipped with a high-voltage Li-ion Battery pack. Improper repair procedures may result in serious consequences such as electrocution.

Please read this manual before beginning any body or paint repair procedures on the LEAF Electric Vehicle. Follow the instructions to ensure a safe repair.

IMPORTANT INFORMATION FOR SAFETY DESCRIPTION

You will see various symbols in this manual. They are used in the following ways:

 DANGER	This is used to indicate the presence of a hazard that will cause death. To avoid or reduce the risk, the procedures must be followed precisely.
 WARNING	This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.
 CAUTION	This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.

Please note that there may be differences between the information provided in this manual and the actual vehicle you are working on due to specification changes.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or design at any time without notice.

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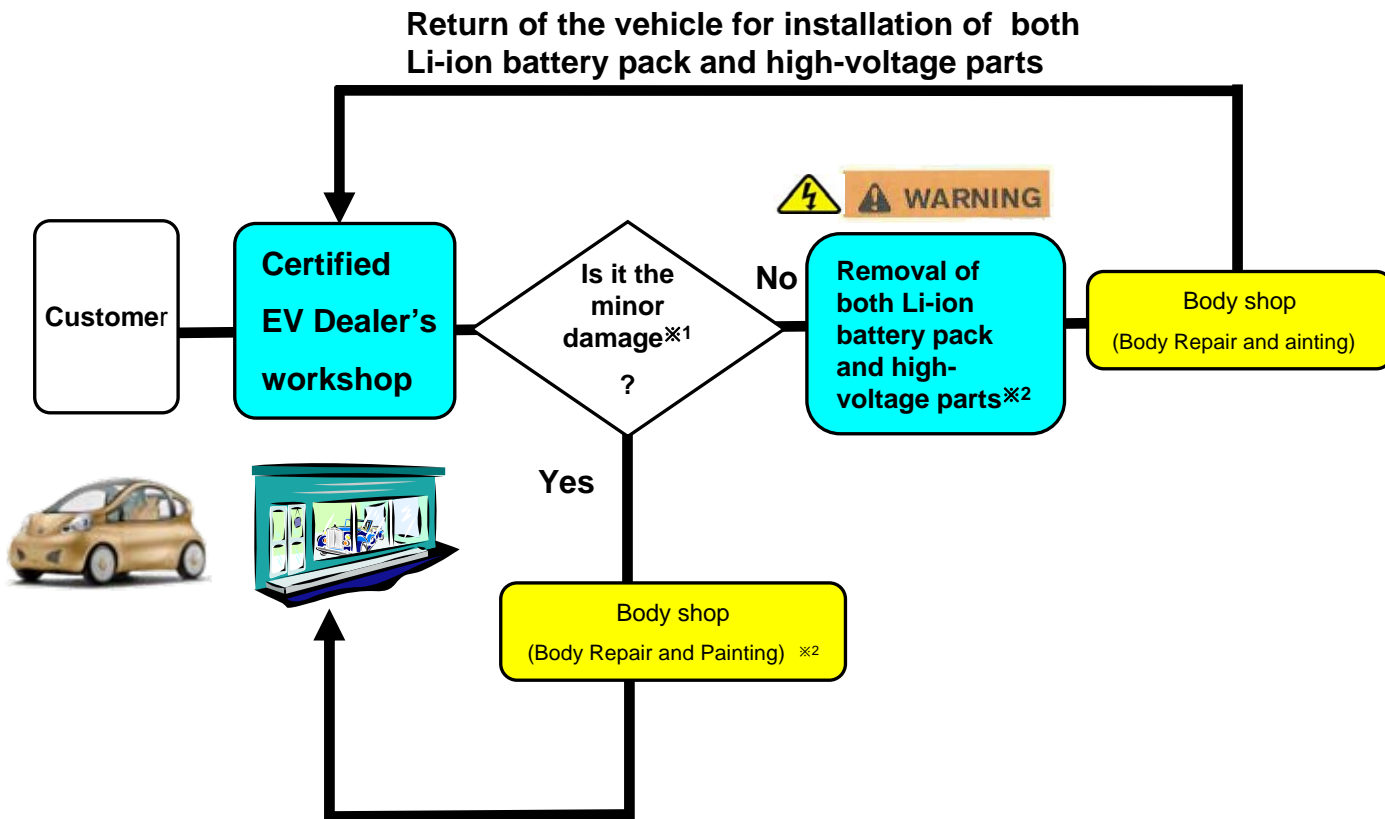
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1 . Summary of Body Repair Work Flow

The EV vehicle, should only be delivered to a body shop after removing Li-ion battery pack, high-voltage parts and any related parts that may be an obstacle to the body repair and painting process.



 : EV Dealer's workshop

 : Body shop

※1. The minor damage

- There is only a scratch or unevenness on an outer panel(fender,door,etc) or bumper

※2. The temperature of paint booth (Refer to 6.Precautions for Body Repair and Painting for details.)

- If the paint booth temperature is more than 140°F(60°C), have the Li-ion Battery removed from the vehicle by the certified EV dealer and then deliver the vehicle to body shop.

※3 . High-voltage parts except for Li-ion battery pack

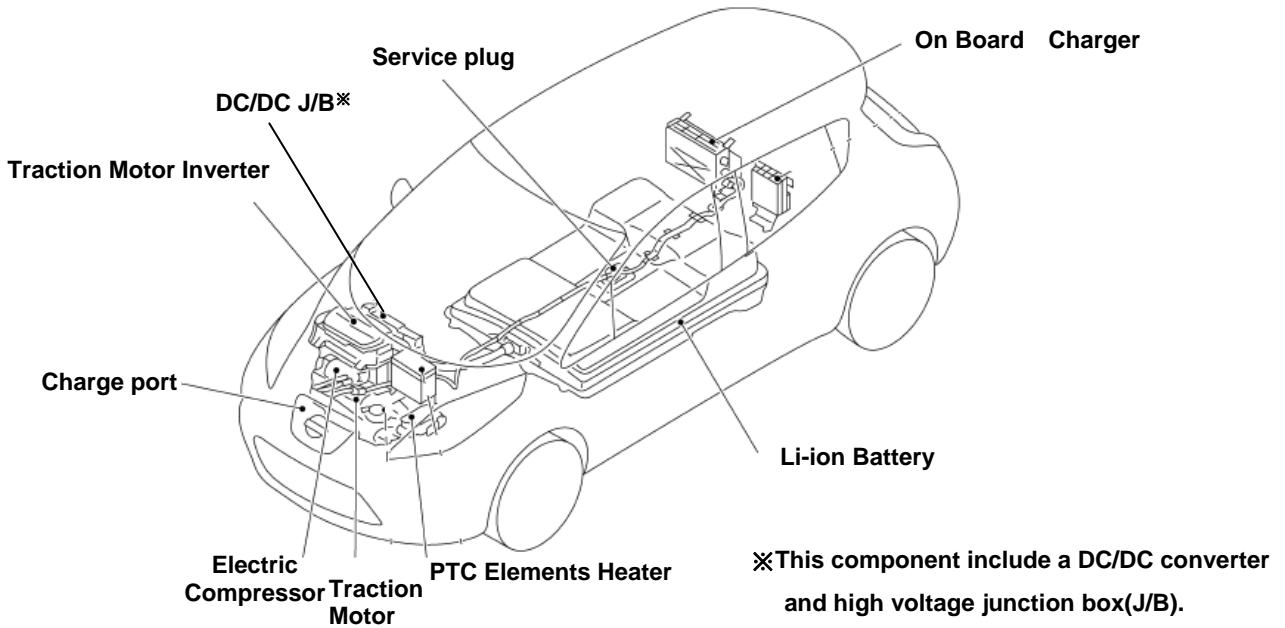
- Traction Motor Inverter · D C/D C J/B · Traction Motor · Electric Compressor
- P T C Elements Heater · On Board Charger· Service plug · Charge port
- Front Side Li-ion Battery High Voltage Harness Connector

2 . High-Voltage Parts Requiring Removal

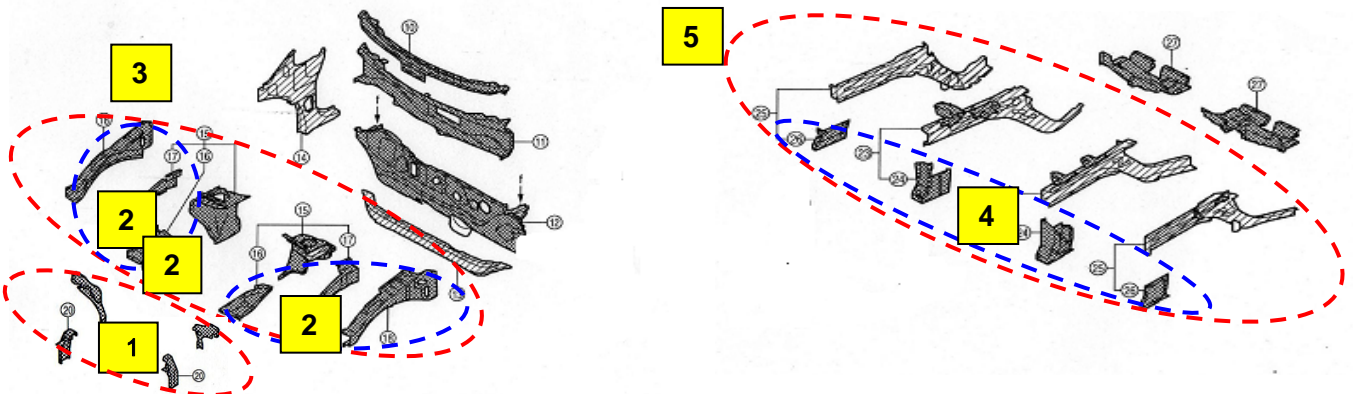
- High-voltage parts requiring removal when replacing welded panel components-1 (Front body)

Refer to the following table. For further details, refer to BRM section of Electronic Service Manual (ESM).

■ Layout of high-voltage parts



NO	Major welding operation items	High-voltage parts requiring removal
1	Radiator Core Support	Li-ion Battery,Service plug,Charge port, Front Side Li-ion Battery High Voltage Harness Connector
2	Hood ledge partial replacement	Li-ion Battery,Service plug, Charge port, Front Side Li-ion Battery High Voltage Harness Connector,PTC Elements Heater, Traction Motor, Electric Compressor, Traction Motor Inverter, DC/DC J/B
3	Hood ledge complete replacement	
4	Front side member partial replacement	Li-ion Battery,Service plug,Charge port, Front Side Li-ion Battery High Voltage Harness Connector
5	Front side member complete replacement	Li-ion Battery,Service plug, Charge port, Front Side Li-ion Battery High Voltage Harness Connector,PTC Elements Heater, Traction Motor, Electric Compressor, Traction Motor Inverter, DC/DC J/B

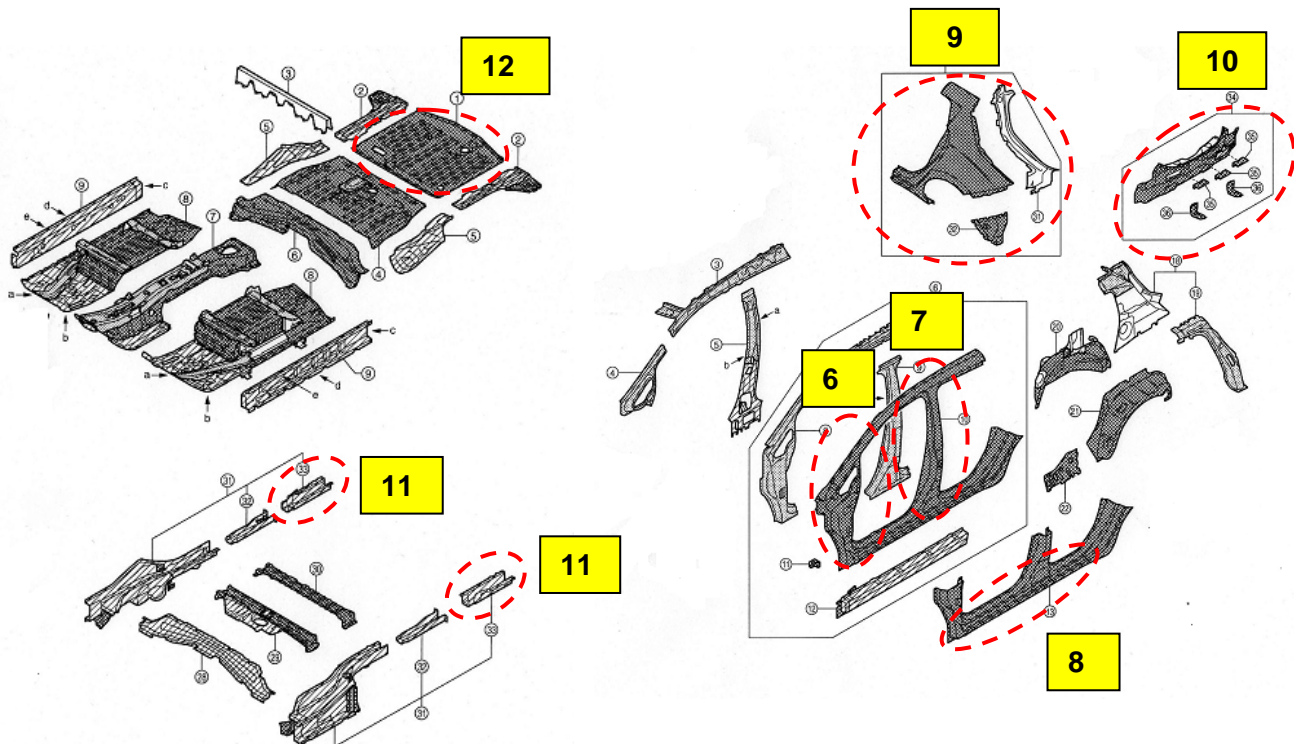


2 . High-Voltage Parts Requiring Removal

- High-voltage parts requiring removal when replacing welded panel components-2 (Side body, Under body)

Refer to the following table. For further details, refer to BRM section of Electronic Service Manual (ESM).

NO	Major welding operation items	High-voltage parts requiring removal
6	Outer Front Pillar partial replacement	Li-ion Battery, Service plug, Front Side Li-ion Battery High Voltage Harness Connector
7	Outer Center pillar partial replacement	
8	Outer Sill partial replacement	
9	Rear Fender partial replacement	
10	Rear panel replacement	
11	Rear Side Member Extension replacement	
12	Rear Floor Rear replacement	Li-ion Battery,Service plug,On Board Charger,Front Side Li-ion Battery High Voltage Harness Connector



3 . Business Consignment to Outsourced Body Shops

Certified EV dealers that do not own an in-house Body & Paint shop, it will be necessary to negotiate and sign a business consignment agreement with an outsourced body shop.

In the case of a certified EV dealer that does not perform body & paint work in-house, business consignment to an outsourced body shop is necessary. Customers must be informed that some repair work will be performed by someone other than the dealership. Please keep the following points in mind when servicing customers so as to prevent any confusion.

☆ Points to keep in mind when consigning business to an outsourced body shop

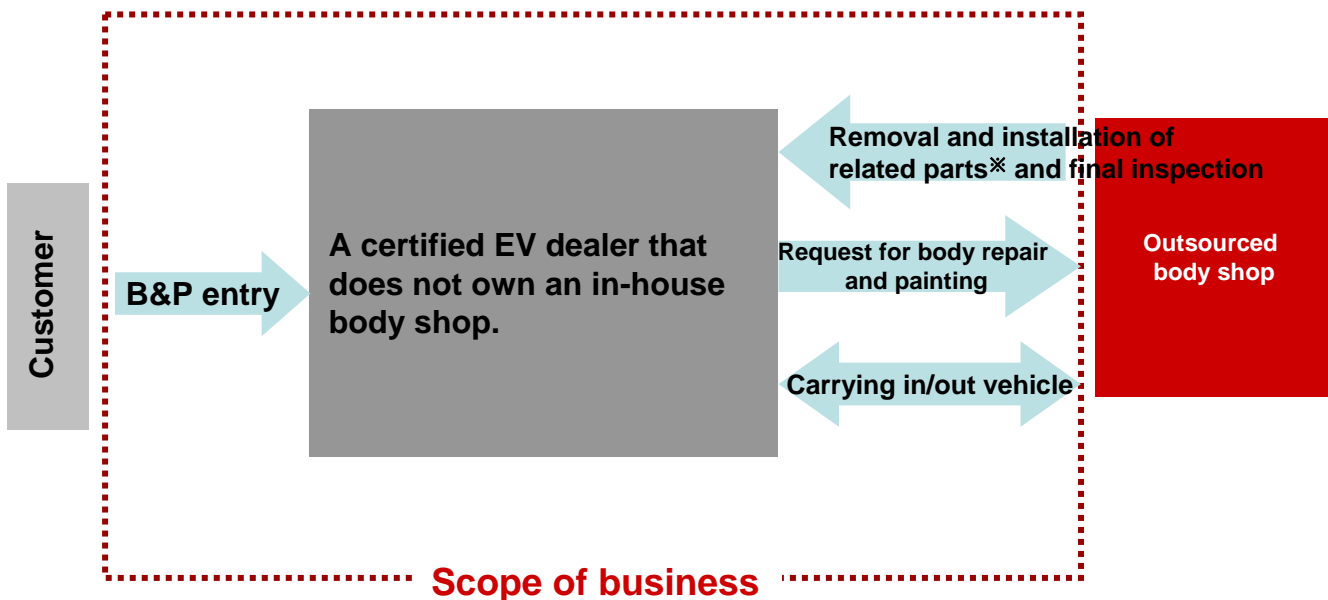
1	Reception	Even if the repair is consigned, customer reception and processing should be handled at the certified EV dealer. In some cases , customers may drive the vehicle to the outsourced body shop if it is more convenient for the customer.
2	Transport between the certified EV dealer and an outsourced body shop	Because related components (including high-voltage parts) ※are removed by a certified EV dealer, a transportation fee is added to the customer's account. (Refer to 3-4 and 3-10 for details.)
3	Completion inspection	After being repaired at an outsourced body shop, vehicles will be returned to the certified EV dealer where the high-voltage parts are to be reinstalled and a final quality inspection using CONSULT-IIIplus.

※: Related parts are parts located in surrounding area of vehicle damage and include high-voltage parts that may cause an obstacle for body repair and painting.

3 . Business Consignment to Outsourced Body Shops

- When the business consignment contract is finalized, the certified EV dealer shall make an offer to the outsourced body shop.
- The contents of the business consignment contract should be prepared referencing the following items.

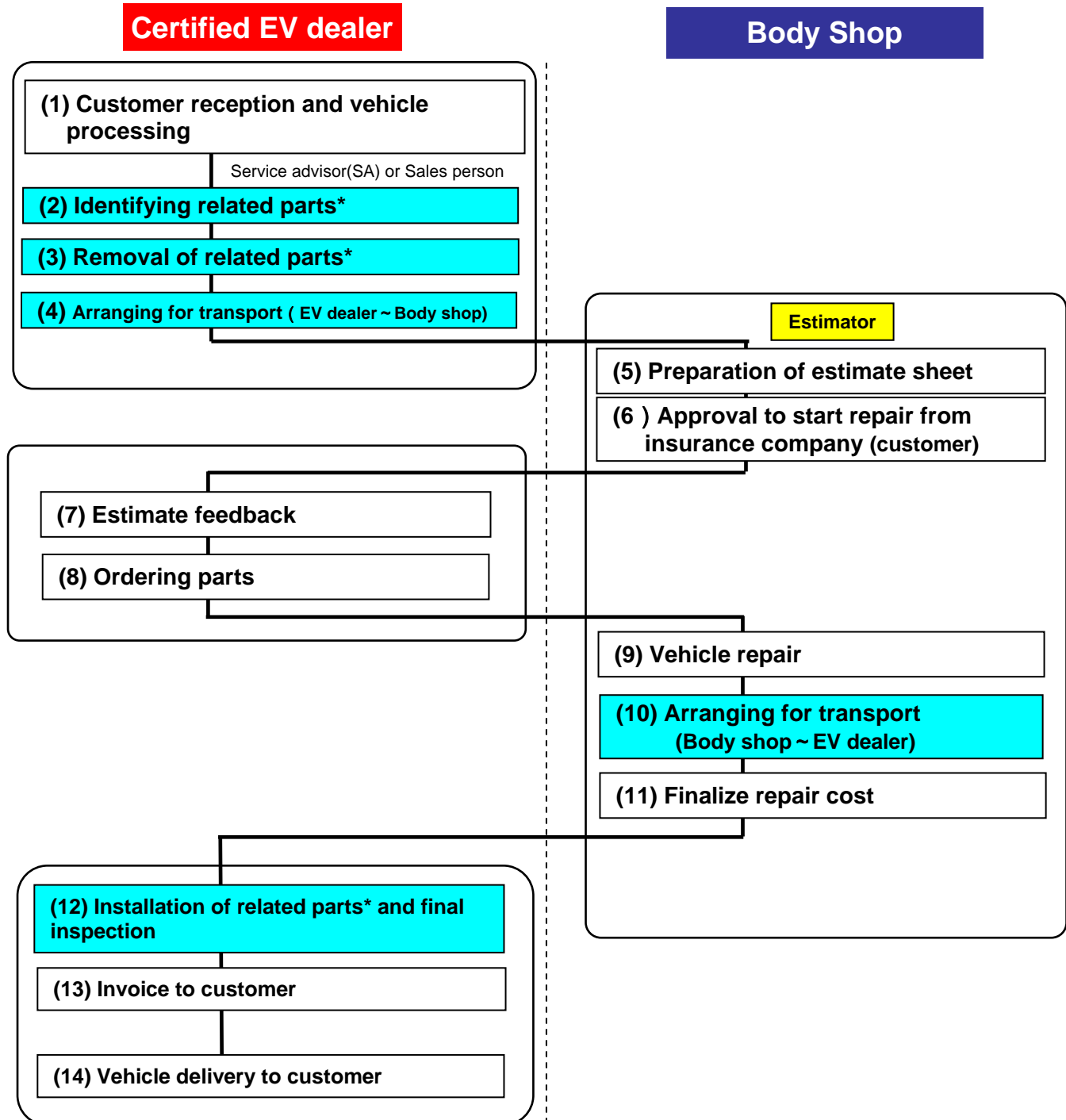
- Consigning party and consigned party
- Consignment fee
- Term of contract
- Delivery and receipt of vehicles
- Dealing with accident during the term of consignment
- Re-repair
- Confidentiality, etc



※: Related parts are parts located in surrounding area of vehicle damage and include high-voltage parts that may cause an obstacle for body repair and painting.

4 . Work Flow from a Certified EV Dealer to Body Shop

- The following are the assignments and workflow from receipt of a vehicle that has been in an accident to vehicle delivery to the customer after repair completion.
- Detailed work processes are described from the next page forward.



*: Related parts are parts located in surrounding area of vehicle damage and include high-voltage parts that may cause an obstacle for body repair and painting.

4 - 1 Customer Reception and Vehicle Processing

◆ Certified EV dealer

Certified EV dealer

Body shop

- When a customer requests repairs to be done to a car that has been in an accident, the Service Advisor (SA) or a sales person will process the request.
- If the vehicle is insured, check if the insurance company has been informed.
- When the vehicle arrives, perform a walk-around check in the presence of the customer.
- Certified EV dealer will consign the repair to the body shop.

Note: Some customers may want to repair just small scratches on the bumper, etc. In such a case, where to consign the repair work may be determined by the Certified EV dealer in consultation with the customer.

- Inform the customer that repairs by the body shop entail a transportation fee.

< Regarding the transport fee >



To ensure the safety of body shop personnel, EV Li-ion Battery and High-Voltage parts located near the damaged portion of the vehicle shall be removed and installed by a certified EV dealer. Certified EV dealers have the facilities, equipment and exclusively trained technicians to safely service your vehicle. Failure to have a certified EV technician remove or install EV Li-ion Battery and High-Voltage parts could result in serious personal injury or death.

Transportation fees are necessary to move the vehicle between the certified EV dealer and body shop. These fees are invoiced to the insurance company or the customer.

4 - 2 Identifying Related Parts

■ Identifying related parts

Certified EV dealer

Body shop

- Identify parts (including high-voltage parts) that may cause an obstacle for body repair and painting by referring to the BRM section of Electronic Service Manual (ESM) .
- Check related parts* for damage, and determine whether or not the related part is reusable.

* Judgment standard: No damage, no concaves, no dents, and no cracks.

4 - 3 Removal of related parts

■ Removal of related parts

Certified EV dealer

Body shop

- Remove related parts including high-voltage parts and retain parts at the service department of the certified EV dealer.
- For removal procedures of related parts, refer to the following manual.
Welding panel parts: BRM section of ESM
Exterior parts, interior parts, high-voltage parts, glass parts: ESM
- The following precautions are for the safe storage of removed high-voltage parts.



WARNING

To prevent electric shock, immediately apply insulation protection using insulation tape on removed high-voltage connector, terminals and any damaged portion or parts. Failure to apply insulation protection to high-voltage connectors, terminals or damage parts could result in serious personal injury or death.

Refer to ESM for details.

4 - 4 Arranging for Transport

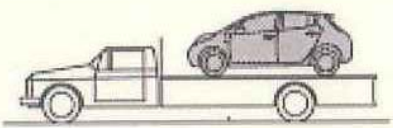
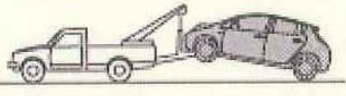
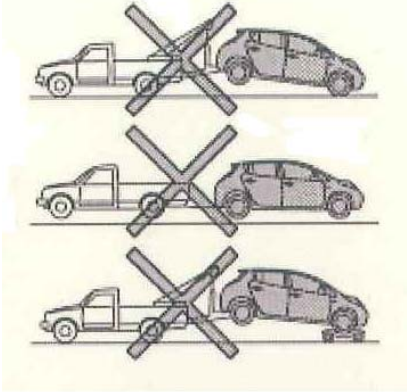
- Arranging for Transport
(Certified EV dealer ~ Body shop)

Certified EV dealer

Body shop

< Precautions for transporting a vehicle >

- To prevent further vehicle damage caused by electricity generation by the vehicles motor, always transport the vehicle with front wheels (drive wheels) or all 4 wheels raised as illustrated.

Towing	Transport method	Precautions and conditions
OK	Lift up 4 wheels 	<ul style="list-style-type: none"> • Completely secure the vehicle.
OK	Lift up front wheels 	<ul style="list-style-type: none"> • Always release the parking brake. See “ Parking brake manual release” described in the Owners Manual.
Not OK		<ul style="list-style-type: none"> • Never tow with the front wheels on the ground or four wheels on the ground (forward or backward). Otherwise, induced electricity is generated by drive motor.

4 - 4 Arranging for Transport

- Arranging for Transport
(Certified EV dealer ~ Body shop)

Certified EV dealer

Body shop

< Precautions for towing >

- (1) Location of towing hook



Location of towing hook attachment point

(The hook is stored in the left side of the luggage room)

(2) For any of the following conditions, turn the power switch to the OFF position, wear insulated gloves, disconnect service plug, and transport the vehicle using a vehicle transport vehicle.

- High-voltage parts or wiring harnesses are damaged
- Drive system, brakes, suspension or tires are damaged
- Coolant leakage is detected
- READY lamp does not turn ON when power switch is in the ON position

4 -5 Preparation of Estimate Sheet

■ Preparation of Estimate Sheet

Certified EV dealer

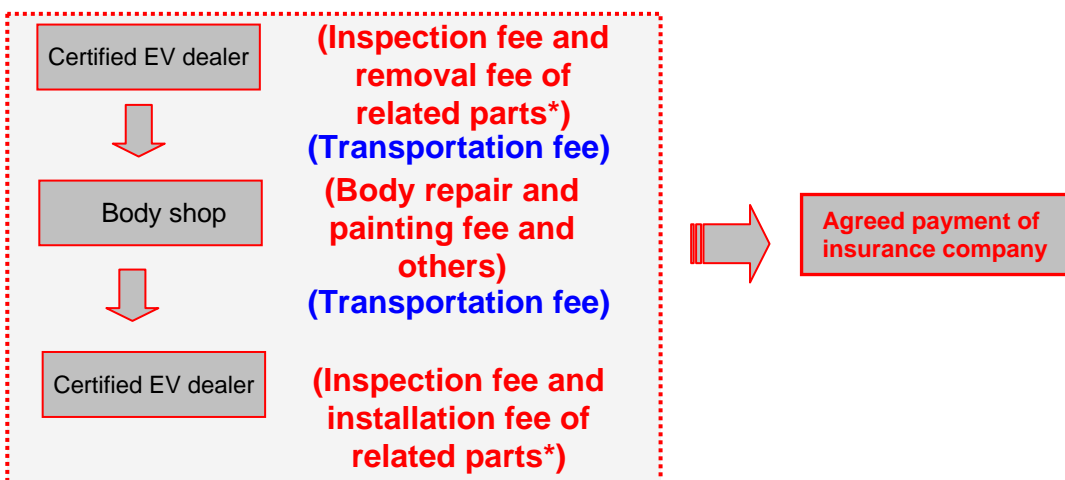
Body shop

- Body shop estimator shall give an estimate for the total cost of repair.
- Include any special requests from the customer to the estimate worksheet.
- Include services provided by a certified EV dealer such as removal of related parts, identification of reusable and non-reusable parts and include them in the estimate worksheet.

< Estimation sheet details >

Category	Description	Certified E V dealer	Body shop
Repair fee of the vehicle	Parts fee	○	
	Parts removal installation labor	○	○
	Body repair and paint refinishing labor		○
Transportation fee	Certified E V dealer ~ Body shop	○	
	Body shop ~ Certified EV dealer		○
Inspection fee	Inspection using CONSULT-III plus	○	

Cost to be agreed on with the insurance company



*: Related parts are parts located in surrounding area of vehicle damage and include high-voltage parts that may cause an obstacle for body repair and painting.

4 -6 Approval to start repairs from Insurance Company (Customer)

■ Approval to start repairs

Certified EV dealer

Body shop

- After preparing an estimate worksheet, the body shop should send it to the customer's insurance company (by e-mail with a digital picture attached or fax, etc.)
- In the presence of a representative of the insurance company, obtain an approval to start the repair.

4 -7 Feedback to Estimate

■ Body shop→Certified EV Dealer

Certified EV dealer

Body shop

- Send the estimate worksheet (description of damage, repair and repair cost) prepared by the body shop to the certified EV Dealer and explain the contents of the repair.
 - After gaining the approval of the insurance company and the customer, the person in charge of parts in the body shop should order parts from the certified EV dealer.
 - Explain to the certified EV dealer about repairs that are not covered by insurance (to be borne by the customer)
-

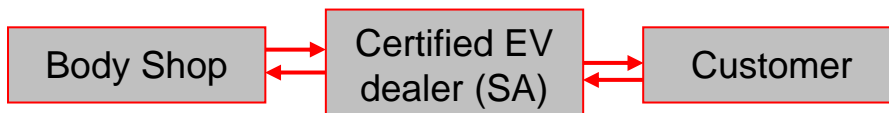
■ Certified EV Dealer (SA)→Customer

Certified EV dealer

Body shop

- The certified EV dealer should explain to the customer about the contents of the repair, parts used, repair costs, and the substitution fee.
- Provide an explanation to the customer regarding repairs not covered by insurance (to be borne by the customer), and gain approval for the work.

Flow of estimate feedback



4 - 8 Ordering Parts

■ Ordering Parts

Certified EV dealer

Body shop

- The certified EV dealer will issue an order for parts to National Sales Company (NSC) based on the request from the body shop (confirm the parts order against the estimate worksheet).
- If the promised delivery date is delayed due to back ordered parts, negotiate the schedule with the body shop and be sure to gain the customer's consent.

4 -9 The Repair of Cars Involved in an Accident

■ Repair of an Accident Car

Certified EV dealer

Body shop

- If additional work is required, inform the customer via the insurance company or certified EV dealer service advisor (SA) and gain the consent of both the customer and the insurance company to perform work.
- In cases where the repair schedule is delayed due to additional work, inform the certified EV dealer of the scheduled completion date and gain the customer's consent.

4-10 Arranging for transport

■ Arranging for Transport (Body shop ~ Certified EV dealer)

Certified EV dealer

Body shop

- Transport from the body shop to the certified EV dealer should be arranged by the body shop based on the consignment contract.
(For details, see 4-4 Arranging for Transport.)

4-11 Finalize repair cost

■ Finalize Repair Cost

Certified EV dealer

Body shop

After finalizing the repair charges for the vehicle, the body shop will charge the insurance company or certified EV dealer (in the case of self-pay repairs) for the following items based on the contents of the consignment contract.

- Part expenses
- Labor charge (technical fee)
- Inspection fee at certified EV dealer
- ▲ Transport fee from certified EV dealer to the body shop (check with certified EV dealer regarding the cost)
- ▲ Transport fee from the body shop to certified EV dealer

Note) items with ▲ are charged if a transportation fee was incurred.

4-12 Installation of Related Parts and Final Inspection

■ Installation of related parts

Certified EV dealer

Body shop

- Install related parts that are removed in section 4-3.
- Damaged parts are to be replaced in accordance with service part establishment.

■ Final inspection

Certified EV dealer

Body shop

- The certified EV dealer performs final inspection using CONSULT-III plus and confirms the repair of the vehicle is complete.

4-13 Invoice to customer

Certified EV dealer

Body shop

- Based on the invoice from the body shop, the certified EV dealer will create an invoice.

4-14 Vehicle Delivery to Customer

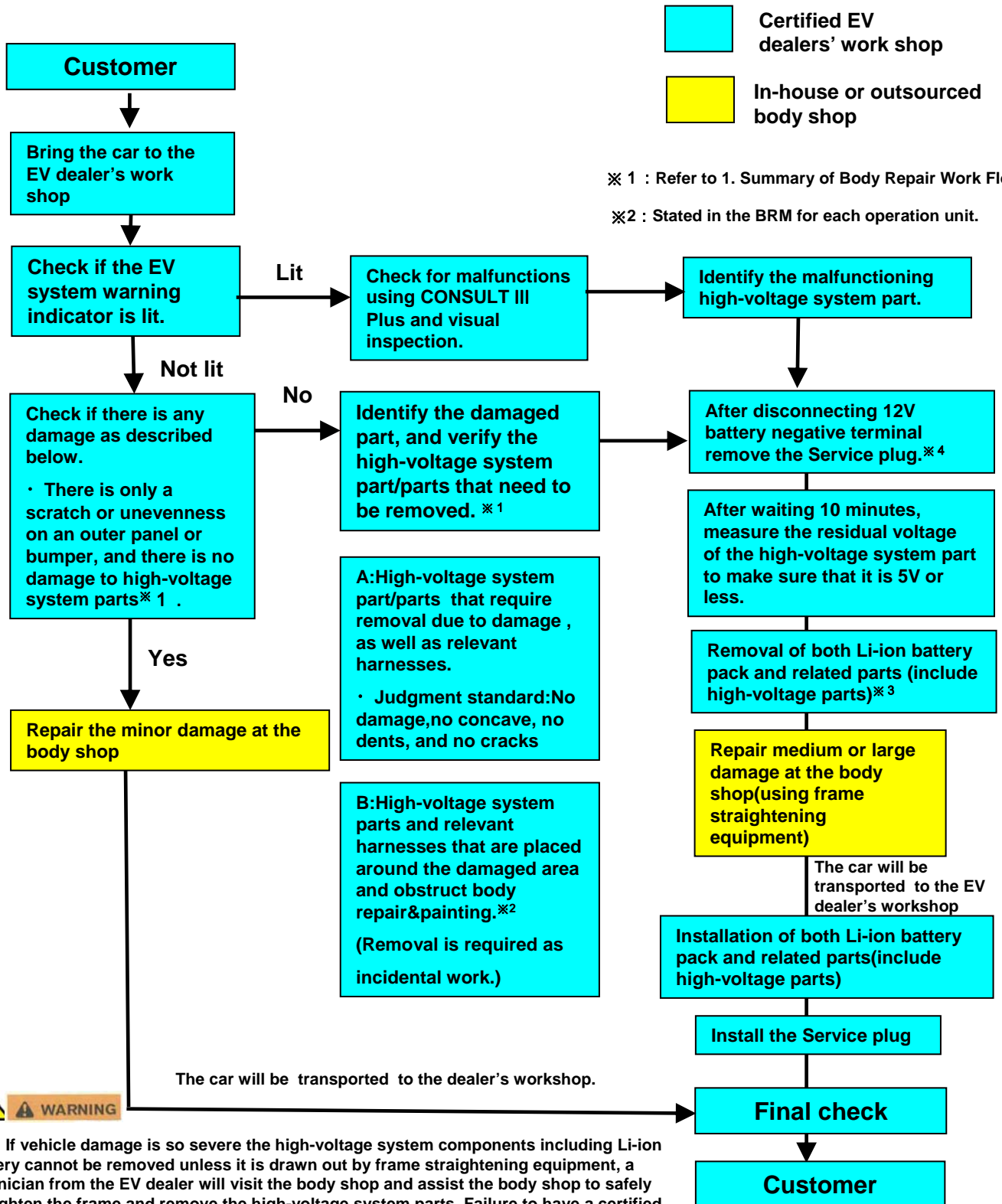
■ Vehicle Delivery Process

Certified EV dealer

Body shop

- Inform the customer of the delivery date of the vehicle.
- When the customer comes to the store, confirm the contents of the repair in the presence of the customer on the actual vehicle.
- Explain the repair contents, repair cost, maintenance contents, etc.
- If any fare-paying repair※ is involved, have the charge paid.
 - ※ Maintenance charge such as inspection of Charging system, Wheel alignment adjustment, and replacement of LLC, etc.
- The service advisor (SA) or sales person in charge will make a follow up telephone call about a week after the delivery.

5. Process Procedure Details for Body Repair and Painting



Certified EV dealers' work shop

In-house or outsourced body shop

※ 1 : Refer to 1. Summary of Body Repair Work Flow

※ 2 : Stated in the BRM for each operation unit.



※ 3 : If vehicle damage is so severe the high-voltage system components including Li-ion Battery cannot be removed unless it is drawn out by frame straightening equipment, a technician from the EV dealer will visit the body shop and assist the body shop to safely straighten the frame and remove the high-voltage system parts. Failure to have a certified EV technician remove or install EV High-Voltage parts could result in serious personal injury or death.

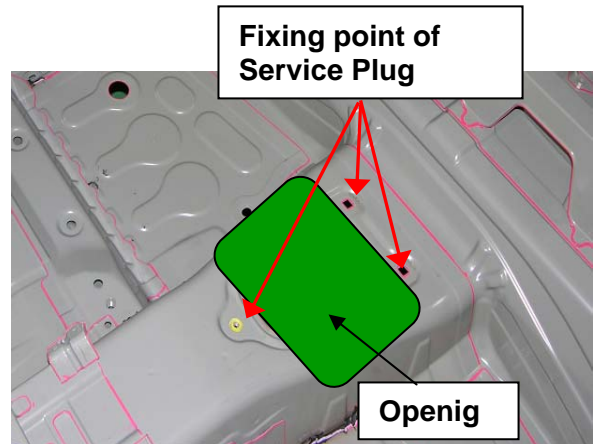
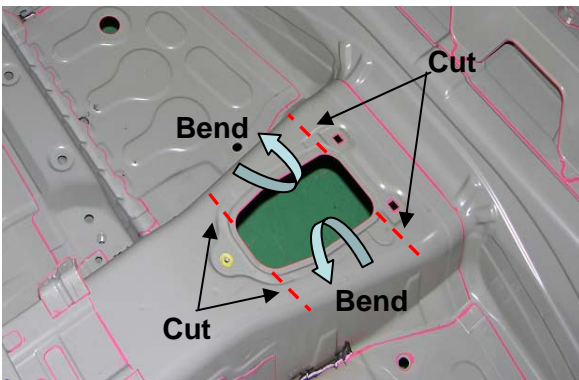
5 . Process Procedure Details for Body Repair and Painting

※ 4 In case of being unable to turn off the safety plug

- The floor panel located in service plug will be transformed in a large damage, and that will result in the replacement of the floor panel.

<Procedure>

- Cut the transformed floor panel such as a red dotted line.
- Bend the floor panel and secure the opening to turn off the safety plug.



6 . Precautions for Body Repair and Painting

To ensure the safety of body shop personnel, EV Li-ion battery pack and High-Voltage parts located near the damaged portion of the vehicle shall be removed and installed by a certified EV dealer. Certified EV dealers have the facilities, equipment and exclusively trained technicians to safely service your vehicle. **As a responsibility of the certified EV dealer, please ask body shop to observe the following items.**

- Removal and installation of high-voltage parts(including Li-ion battery pack) and related harness




Never allow the removal and installation of high-voltage parts(including Li-ion battery pack) or related harnesses to be performed by body shop technicians.

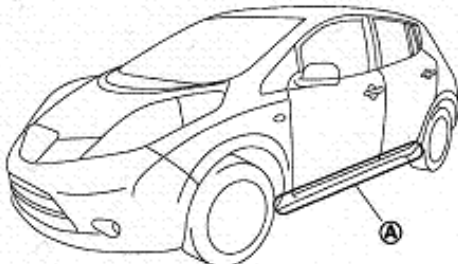
If removal and installation of high-voltage parts and harnesses is necessary to support the body repair, always have body shop contact certified EV dealer so that technicians of certified EV dealer can be dispatched to body shop to perform component removal and installation.

Failure to have a certified EV technician remove or install EV High-Voltage parts could result in serious personal injury or death.

- control of painting booth

When a paint booth is used at the body shop, to prevent Li-ion Battery deterioration, ensure the paint booth temperature is controlled to 140°F (60°C) or less when measured at the vehicle's outer sill (See A below). If the paint booth temperature is more than 140°F (60°C), have the Li-ion Battery removed from the vehicle by the certified EV dealer and then deliver the vehicle to body shop. Failure to remove the Li-ion Battery prior to subjecting it to temperatures above 140°F (60°C) could result in Li-ion

Product name	Stock No	Company name	Picture
Wide Range Mini IR Thermometer	42510A	Extech Instruments Corporation	



A:Outer sill temperature measurement part
(If a sill cover(resin) is included, remove the sill cover to measure the temperature.)

6 . Precautions for Body Repair and Painting

- **For spot welding and CO2 arc welding**

High-voltage parts are not connected to ground, and therefore, are not affected by spot welding or CO2 arc welding. Removal of high-voltage parts is therefore not necessary. Always wear appropriate personal protective equipment when working on or around the EV.

7. In the event of an accident



WARNING

- **Be sure to check the READY lamp on the combination meter, and verify that the READY indicator lamp is off and the high voltage system is stopped.**
- **There is a possibility of remaining high voltage in the air conditioning system by the Remote Air Conditioning System even when the READY lamp is turned OFF and the Air Conditioning Indicator is turned ON. Please ensure that the Air Conditioning Indicator lamp is turned OFF and the Air Conditioning System is inactive.**
- **After High Voltage System shut down, please wait for 10 minutes to complete discharging the high voltage condenser. While waiting, do not operate.**
- **The High Voltage System full discharge takes 10 minutes, but after 5 minutes the voltage has dropped below 60V.**
- **Remove the 12 Volt battery negative(-) terminal and wait for 3 minutes. Even though the 12 Volt battery negative(-) is disconnected, the Supplemental Restraint System(SRS) Airbag maintains voltage for 3 minutes. There is a possibility of sudden SRS Airbag inflation due to harness short circuit or damage and it may cause serious injuries.**

Refer to ESM for details.

7- 1 High Voltage Precautions



WARNING

- Failure to follow any of the following **WARNINGS** could result in serious personal injury or death.
- Because electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.
- Be sure to remove the service plug in order to shut off the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- Be sure to put the removed service plug in your pocket and carry it with you so that another person does not accidentally connect it while work is in progress.
- Be sure to wear the Appropriate protective equipment consisting of gloves, shoes and glasses/face shield before beginning work on the high voltage system.
- Clearly identify the persons responsible for high voltage work and ensure that other persons do not touch the vehicle. When not working, cover high voltage parts with an insulating cover sheet or similar item to prevent other persons from contacting them.

CAUTION

- There is the possibility of a malfunction occurring if the vehicle is changed to **READY** status while the service plug is removed. Therefore do not change the vehicle to **READY** status unless instructed to do so in the **Service Manual**.

7- 1 High Voltage Precautions

HIGH VOLTAGE HARNESS AND EQUIPMENT IDENTIFICATION

- The colors of the high voltage harnesses and connectors are all orange. Orange “ High Voltage “ labels are applied to the Li-ion battery and other high voltage devices. Do not carelessly touch these harnesses and parts.

HANDLING OF HIGH VOLTAGE HARNESS AND TERMINALS



- To prevent electric shock, immediately apply insulation protection using insulation tape on removed high-voltage connector, terminals and any damaged portion or parts. Failure to apply insulation protection to high-voltage connectors, terminals or damage parts could result in serious personal injury or death.

REGULATIONS ON WORKERS WITH MEDICAL ELECTRONICS



- The vehicle contains parts that contain powerful magnets. If a person who is wearing a pacemaker or other medical device is close to these parts, the medical device may be affected by the magnets. Such persons must not perform work on the vehicle.
- If you use any medical electric devices, such as an implantable cardiac pacemaker or an implantable cardiovascular defibrillator, check with the electric medical device manufacture concerning the effects that charging may have on implanted devices before starting the charge operation. If you have an implantable cardiac pacemaker or an implantable cardiovascular defibrillator, while the battery is charging.
 - Do not stay inside the vehicle.
 - Do not go inside the vehicle, for example to remove or place an item in the passenger compartment.
 - Do not open the trunk for example to remove or place item in the trunk. charging may affect the operation of electric medical devices and result in serious personal injury or death.

7- 1 High Voltage Precautions


PROHIBITED ITEMS TO CARRY DURING THE WORK

CAUTION

- Because this vehicle uses components that contain high voltage and powerful magnetism, do not carry any metal products which may cause short circuits, or any magnetic media(cash cards, prepaid cards, etc.) which may be damaged on your person when working.

POSTING A SIGN OF “ DANGER! HIGH VOLTAGE REPAIR IN PROGRESS. DO NOT TOUCH”

- To call the attention of other workers, indicate “ High voltage Repair in progress. Do not touch !” on vehicles where work is being performed on the high voltage systems.

Person in charge: _____	
DO NOT TOUCH!	DO NOT TOUCH!
IN PROGRESS.	IN PROGRESS.
HIGH VOLTAGE REPAIR	HIGH VOLTAGE REPAIR
DANGER:	DANGER:
	
HIGH VOLTAGE REPAIR	HIGH VOLTAGE REPAIR
IN PROGRESS.	IN PROGRESS.
DO NOT TOUCH!	DO NOT TOUCH!
Person in charge: _____	
Copy this page and put it after folding on the roof of the vehicle in service.	

7- 2 In the event of Li-ion Battery pack damage

(1) In the event of Li-ion Battery fluid (electrolyte solution) leakage

- Always wear the appropriate Personal Protective Equipment (PPE) to wipe up electrolyte solution leakage using a dry cloth. The used cloth must be disposed in accordance with any local, state or federal requirements.
- Li-ion Battery Electrolyte Solution Characteristics:
 - Clear in color
 - Neutral
 - Sweet odor
 - Similar viscosity to water
 - Skin irritant
 - Eye irritant- If contact with eyes, rinse with plenty of water and see a doctor immediately.
 - Highly flammable-Ensure the accident site is well ventilated.
 - Electrolyte liquid or fumes that have come into contact with water vapors in the air will create an oxidized substance. This substance may irritate skin and eyes. In these cases, rinse with plenty of water and see a doctor immediately.
 - Since the Li-ion battery is made up of many small sealed battery modules,
electrolyte solution will not leak in large quantity.

Note:

Other fluids in the vehicles are the same as those in a conventional internal combustion vehicle.

7- 2 In the event of Li-ion Battery pack damage

(2) Vehicle Fire

WARNING

- In the case of extinguishing a fire with water, large amounts of water from a fire hydrant(if possible) must be used. DO NOT extinguish fire with a small amount of water. Small amounts of water will make toxic gas produced by a chemical reaction between the Li-ion battery electrolyte and water.

CAUTION

- Use a fire extinguisher (Type ABC) effective for an electrical fire(fire caused by wiring harnesses, electrical components, etc.) and oil fire (fire caused by oil,etc.)
- In case of vehicle fire, contact fire department immediately and extinguish the fire if possible. If you must walk away from the vehicle, notify an appropriate responder or a rescue person of the fact that the vehicle is an electric car and contains a high voltage system and warn all others.