



INFINITI®

2017 Q50 HYBRID

Dismantling Guide



Foreword

This manual describes dismantling operations and **important safety** related warnings and cautions for this vehicle.

This vehicle is equipped with a high-voltage battery pack. **Failure to follow recommended practices during dismantling will cause death or serious personal injury.**

Please read this manual in advance of any dismantling activities in order to understand the features of this vehicle and to help you deal with dismantling operations involving this vehicle. Follow the procedures in order to help assure a safe and successful dismantling operation.

This manual is periodically updated. If you are not viewing this manual on the Infiniti web site, we urge you to go to www.infiniti-usa.com or www.infiniti-techinfo.com to make sure you have the most recent version of this manual.

INFINITI EMERGENCY CONTACT INFORMATION

- Infiniti Consumer Affairs: 1-800-662-6200 (US) or 1-800-361-4792 (Canada)
- Hours of operation are 8am - 5pm (Monday-Friday) Eastern, Central and Pacific time zones

IMPORTANT INFORMATION ABOUT THIS MANUAL

You may see various symbols in this manual. They have the following meanings:



⚠ DANGER

This symbol is used to inform you of an operation which will result in death or serious personal injury if instructions are not followed.

Example: Touching high-voltage components without using the appropriate protective equipment will result in electrocution. PPE must always be worn when touching or working on high-voltage components.

⚠ WARNING

This symbol is used to inform you of an operation which may cause death or serious personal injury if instructions are not followed.

⚠ CAUTION

This symbol is used to inform you of an operation which may cause personal injury or component damage if instructions are not followed.

Please note that there may be differences between this manual and the vehicle specification due to specification changes.

Table of Contents

FOREWORD	DG-2
INFINITI EMERGENCY CONTACT INFORMATION	DG-2
IMPORTANT INFORMATION ABOUT THIS MANUAL	DG-2
1. ABOUT THE INFINITI Q50 HYBRID	DG-5
1-1 Q50 HYBRID IDENTIFICATION	DG-6
1-1.1 EXTERIOR AND ENGINE COMPARTMENT	DG-6
1-1.2 INTERIOR	DG-7
1-2 VEHICLE IDENTIFICATION NUMBER (VIN) LAYOUT	DG-8
1-3 WARNING AND INDICATOR LAMP INFORMATION	DG-9
2. BASIC HIGH-VOLTAGE INFORMATION	DG-10
2-1 BATTERY INFORMATION	DG-10
2-1.1 12-VOLT BATTERY	DG-10
2-1.2 HIGH-VOLTAGE BATTERY	DG-10
2-2 HIGH-VOLTAGE-RELATED AND 12-VOLT-RELATED COMPONENT LOCATIONS AND DESCRIPTIONS	DG-11
2-3 HIGH-VOLTAGE BATTERY PACK SPECIFICATIONS	DG-12
2-4 HIGH-VOLTAGE SAFETY MEASURES	DG-13
2-4.1 WARNING LABELS	DG-13
2-5 HIGH-VOLTAGE SAFETY SYSTEM	DG-14
2-6 HIGH-VOLTAGE CIRCUIT SHUT-OFF SYSTEM	DG-15
2-7 PREVENTING ELECTRICAL SHOCK	DG-15
3. PREPARATION FOR DISMANTLING	DG-16
3-1 PREPARATION ITEMS	DG-17
3-2 PERSONAL PROTECTIVE EQUIPMENT (PPE) AND INSULATED TOOLS	DG-18
3-2.1 PERSONAL PROTECTIVE EQUIPMENT (PPE) PROTECTIVE WEAR CONTROL	DG-18
3-2.2 DAILY INSPECTION	DG-18
3-2.3 INSULATED TOOLS	DG-18
3-3 DISCHARGE PROCEDURES	DG-18
3-4 HOW TO HANDLE A DAMAGED VEHICLE	DG-20
3-4.1 HIGH-VOLTAGE SYSTEM SHUT-DOWN PROCEDURE	DG-20
3-4.2 CUTTING THE VEHICLE BODY	DG-31
3-4.3 WATER SUBMERSION	DG-34
3-4.4 VEHICLE FIRE	DG-34
3-4.5 HIGH-VOLTAGE BATTERY DAMAGE AND FLUID LEAKS	DG-35

4. JUMP STARTING	DG-36
4-1 JUMP STARTING PROCEDURES	DG-37
4-2 SHIFT SELECTOR LEVER LOCK RELEASE	DG-38
5. STORING THE VEHICLE	DG-39
6. DISMANTLING INFORMATION	DG-41
6-1 PRECAUTIONS FOR HANDLING HIGH-VOLTAGE BATTERY	DG-41
6-2 HIGH-VOLTAGE BATTERY PACK REMOVAL	DG-43
6-2.1 EXPLODED VIEW	DG-43
6-2.2 REMOVAL PROCEDURE	DG-46
6-3 HIGH-VOLTAGE BATTERY RECYCLING	DG-54

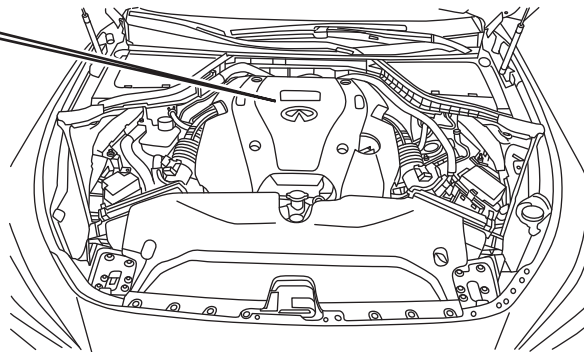
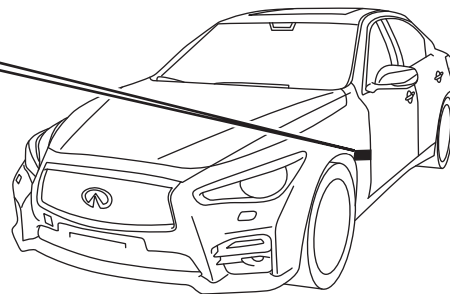
1. About the INFINITI Q50 HYBRID

This hybrid electric vehicle (HEV) uses two types of batteries. One is a 12-volt battery that is the same as the battery in vehicles powered by internal combustion engines. The 12-volt battery is located behind the rear seat back with battery cable access through the trunk area. The other is the high-voltage battery for the traction motor which propels the vehicle. The high-voltage battery is located behind the rear seat back with service plug access through the trunk area.

When the high-voltage battery level is low, engine output is used to generate power from the traction motor and charge the high-voltage battery. Additionally, the vehicle system can recharge the high-voltage battery by converting driving force into electricity while the vehicle is decelerating or being driven downhill. This is called regenerative charging.

1-1 Q50 HYBRID IDENTIFICATION

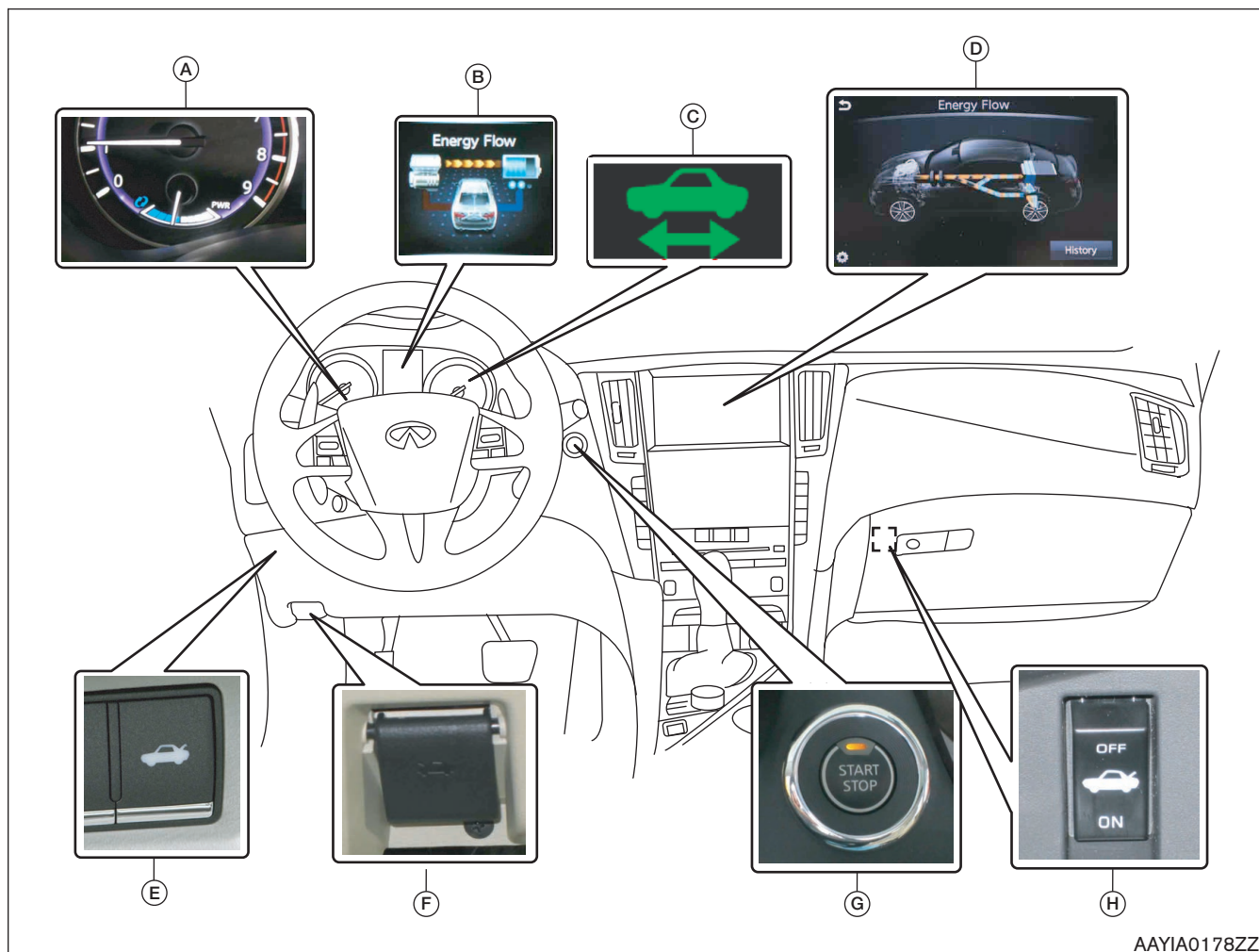
1-1.1 Exterior and Engine Compartment



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1-1.2 Interior

Interior components referenced in this manual are as follows:



A. Assist charge gauge

D. Energy flow display *1

G. START/STOP switch and ON indicator lamp (orange)

B. Energy flow display *1

E. Trunk lid release switch

H. Trunk release power cancel switch

C. READY indicator (green)

F. Hood release handle

*1: This screen may not be displayed due to customer settings.

1-2 Vehicle Identification Number (VIN) Layout

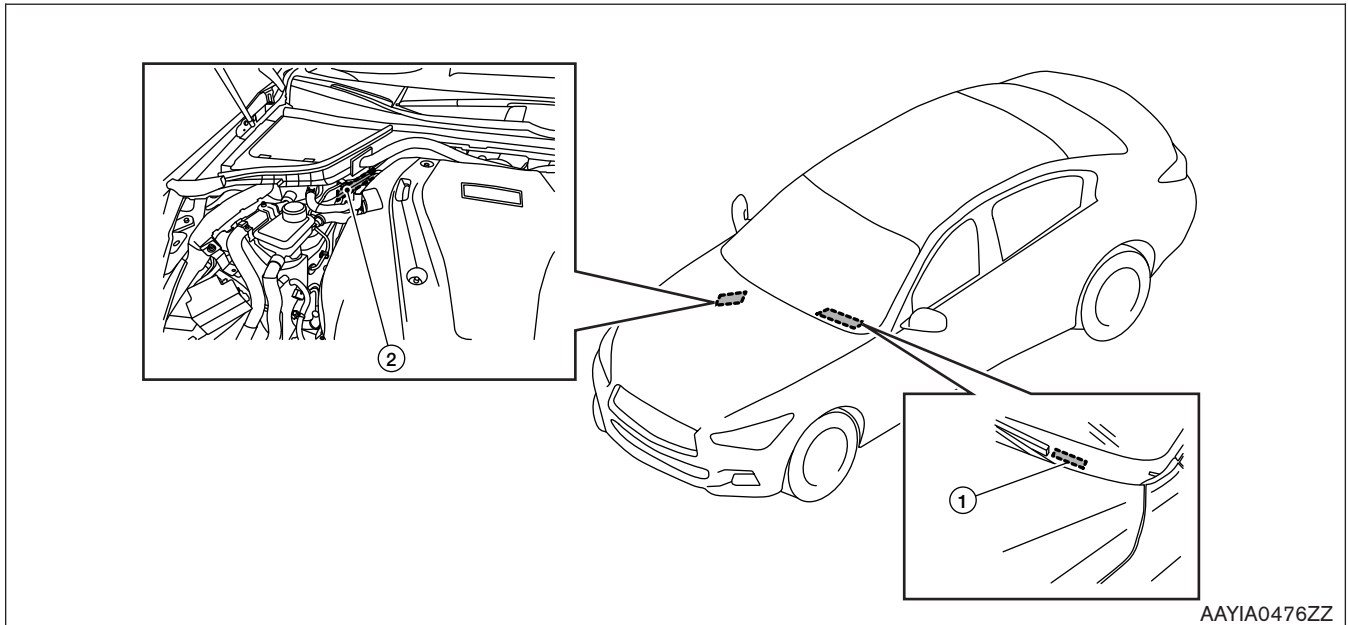
In exterior appearance the Q50 HYBRID is nearly identical to the conventional Infiniti Q50 series vehicles.

The vehicle identification number can be located as follows:

Example VIN : JN1 **A**V7AP4HM690008

The Q50 HYBRID is identified by the 4th alphanumeric character: **A**

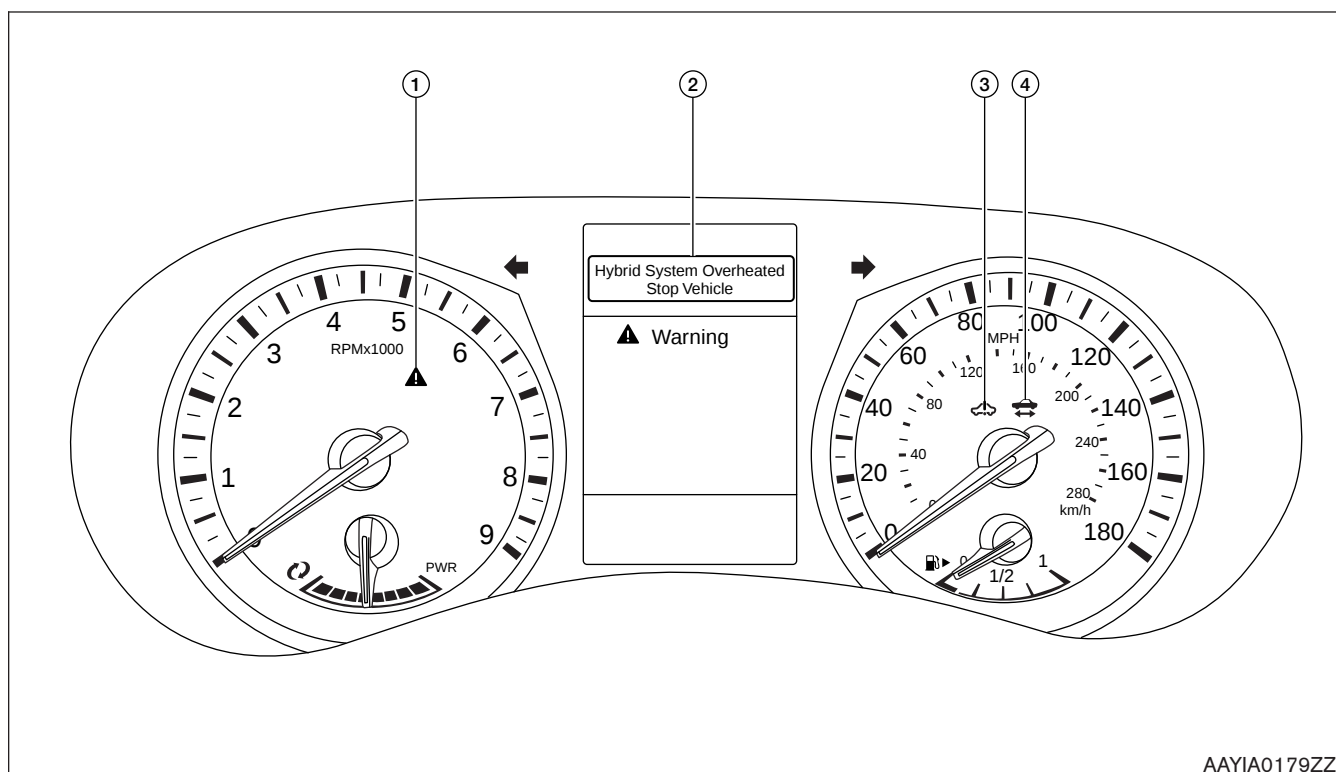
A = Q50 HYBRID



1. VIN plate (visible through windshield)

2. Chassis number

1-3 Warning and Indicator Lamp Information



1. Master Warning Lamp (Orange or Red)

2. Hybrid System Overheated Stop Vehicle Warning (Vehicle Information Display)

3. Hybrid System Warning Lamp (Orange)

4. READY Indicator (Green)

Lamp Name	Icon	Description
READY Indicator (Green)		This lamp is on when the high-voltage system is powered up and the vehicle is ready to drive.
Master Warning Lamp (Orange or Red)	 	This lamp is on when another warning lamp or message is displayed in the instrument cluster.
Hybrid System Warning Lamp (Orange)		This lamp is on or blinking when: ▪ Malfunction has occurred in the hybrid control system and/or ▪ High-voltage leak to vehicle chassis and/or ▪ Emergency shut-off system has been activated. The shut-off system activates in the following conditions: – Front and side collisions in which the air bags are deployed. – Certain rear collisions. – Certain high-voltage system malfunctions.

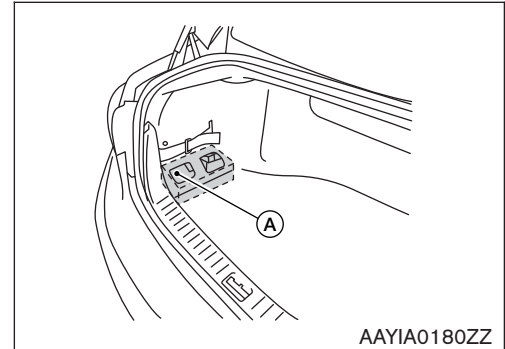
2. Basic High-voltage Information

2-1 Battery Information

The Q50 HYBRID utilizes two batteries in order to supply both high and low voltage.

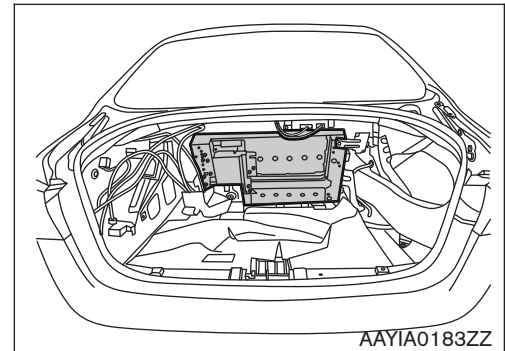
2-1.1 12-Volt Battery

- The Q50 HYBRID contains a conventional lead-acid 12-volt battery.
- The 12-volt battery is located in the trunk, on the left side, concealed by a trim cover (A).
- The 12-volt battery is charged by the high-voltage battery through the DC/DC converter.



2-1.2 High-voltage Battery

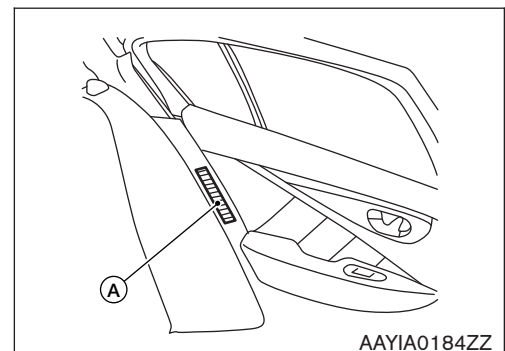
- The Q50 HYBRID contains a high-voltage battery.
- The high-voltage battery is mounted in the trunk area behind the rear seat, enclosed in a metal case and concealed by trim cover.
- The high-voltage battery stores energy at approximately 346 - 400 volts DC.
- A vent hose is provided to exhaust gasses outside the vehicle if necessary.



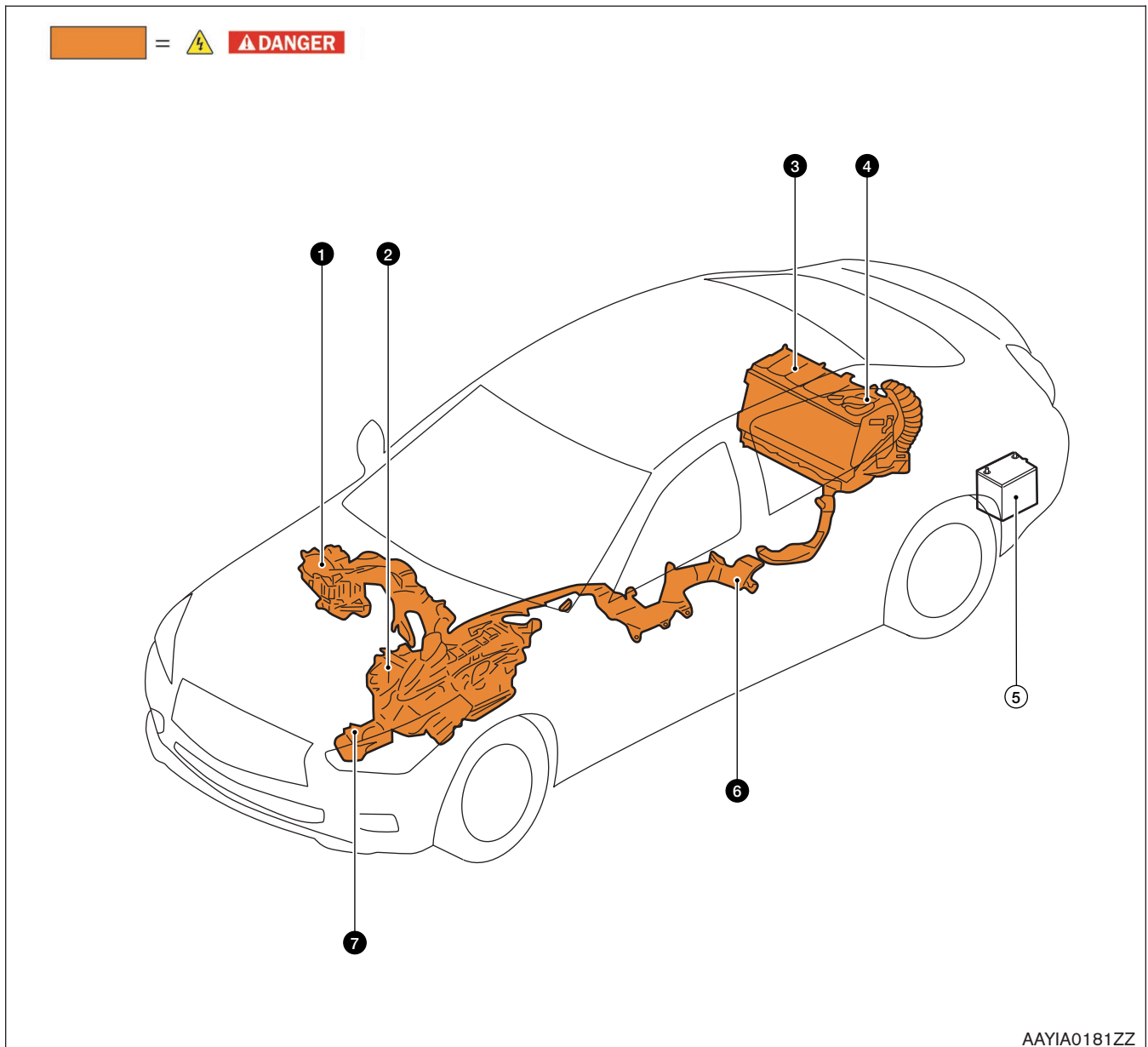
- An air vent (A) is located on the rear left hand lower C-pillar trim for battery cooling.

The high-voltage battery supplies power to the following:

- High-voltage harnesses
- DC/DC converter
- Traction motor inverter
- Traction motor
- Electric air conditioner compressor



2-2 High-voltage-Related and 12-Volt-Related Component Locations and Descriptions



NOTE:

Components with white number in black background are high-voltage components.

No.	Component	Location	Description
❶	Traction Motor Inverter	Engine compartment (right rear side)	Converts the DC power stored in the high-voltage battery to three-phase AC power and controls motor torque (revolution) by regulating the motor current. The inverter has a built in high-voltage capacitor.
❷	Traction Motor	Built-into the transmission	Converts three-phase alternating current (AC) power to drive power (torque) which propels the vehicle.
❸	High-voltage Battery	Trunk area (behind rear seat back)	The high-voltage battery stores and outputs DC power (Maximum voltage 400V) needed to propel the vehicle.
	DC/DC Converter	Trunk area (mounted to top of high-voltage battery)	The DC/DC converter reduces the voltage of the high-voltage battery to provide power to the 12-volt battery in order to operate the vehicle's electric components (headlights, audio system, etc.).
❹	Service Plug	Trunk area (below parcel shelf; behind access door in trim panel)	This is used to disable the high-voltage system.
❺	12-volt Battery	Trunk area (left side behind trim panel)	A lead-acid battery that supplies power to the low voltage devices.
❻	High-voltage Harnesses	Trunk area (on high-voltage battery), under floor pan, engine compartment	Orange-colored power cables carry high DC voltage between each of the high-voltage components.
❼	Electric Air Conditioner Compressor	Engine compartment (front driver side)	Air conditioner compressor

2-3 High-voltage Battery Pack Specifications

High-voltage Battery Specifications	
High-voltage battery voltage	346V (400V max.)
Number of high-voltage battery modules in the pack	12 modules (96 cells)
High-voltage battery module voltage	28.8V each
High-voltage battery dimensions	29.63 x 17.81 x 14.85 in. (752.5 x 452.4 x 377.1 mm)
High-voltage battery weight	108.05 lbs (49 kg)

2-4 High-voltage Safety Measures

Circuit insulation	The high-voltage positive (+) and negative (-) circuits are insulated from the metal chassis.
Reducing the risk of electrocution	The high-voltage components and harnesses have insulated cases or orange-colored coverings which provide insulation and easy identification. The high-voltage battery case is electrically connected to the vehicle ground. This connection helps protect the vehicle occupants and vehicle dismantlers from high-voltage electrical shock.
Identification	The high-voltage components are labeled "WARNING" similar to the label shown below. All high-voltage harnesses are coated in orange.

2-4.1 Warning Labels

 **WARNING/AVERTISSEMENT**

To avoid serious injury, keep clear engine parts at all times. Engine may start at any time if the start switch and the the READY lamps on the instrument panel are "ON". Make sure both lamps are "OFF" before working in the engine compartment. See Owners Manual.

Pour éviter des blessures graves, assurez-vous que les témoins START SWITCH et READY dans le tableau de bord sont éteints (OFF) avant d'entreprendre tout travail à l'intérieur du compartiment moteur. Le moteur peut démarrer à tout moment si le contacteur d'allumage est à la position ON et que les témoins READY du tableau de bord sont allumés. Assurez-vous que les deux témoins sont éteints avant de travailler dans le compartiment moteur. Reportez-vous au manuel du conducteur.

 **B**

   **WARNING/AVERTISSEMENT/ACHTUNG**

Make sure READY lamp is "OFF" before working in the engine compartment.

Assurez-vous que les témoin READY est "OFF" avant de travailler dans le compartiment du moteur.

Bitte gehen Sie sicher, dass die READY-Kontrolleuchte "AUS" ist, bevor Sie jegliche Arbeit im Motorraum beginnen.

 **D**

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  **WARNING/AVERTISSEMENT**

HIGH VOLTAGE INSIDE
DO NOT ATTEMPT TO DISASSEMBLE OR REPAIR.
ELECTRIC SHOCK MAY OCCUR.

- Avoid contacting the batteries and fluid with eyes, skin or clothes. In the event of a spill, flush with water and seek medical help immediately.
- Keep children away from this unit
- To avoid explosions or fire which can result in serious injury or death:
 - Do NOT immerse in water or allow condensation to occur within the unit
 - Do NOT touch with wet hands
 - Do NOT expose to fire or open flame
 - Do NOT strike or puncture the battery or its housing

For Qualified High Voltage Technicians:

- Read the Service Manual before repairing or replacing the battery
- Do not allow metal objects to contact or fall inside the battery. Burns, shock, sparks, explosion or fire may occur due to a sudden increase in internal pressure.

HV BATTERY RECYCLING INFORMATION:
• TRANSPORT THIS BATTERY IN ACCORDANCE WITH ALL APPLICABLE LAWS.
• FOR REPLACEMENT AND DISPOSAL INFORMATION, BE SURE TO CONTACT YOUR NISSAN DEALER OR
NISSAN NORTH AMERICA P.O.BOX 685001 FRANKLIN,
TN 37068-5001 (800) 647-7261.

HAUTE TENSION À L'INTÉRIEUR
NE TENTEZ PAS DE DÉSASSEMBLER OU DE RÉPARER; RISQUE DE CHOC ÉLECTRIQUE.

- Évitez tout contact des batteries et du fluide avec les yeux, la peau ou les vêtements. En cas de renversement, rincez avec de l'eau et consultez un médecin immédiatement.
- Tenez les enfants éloignés de cet équipement.
- Pour éviter une explosion ou un incendie pouvant entraîner des blessures graves, voire mortelles :
 - Ne PAS immerger dans l'eau ou permettre la formation de condensation à l'intérieur
 - Ne PAS toucher avec les mains mouillées
 - Ne PAS exposer à une source d'inflammation ou des flammes nues
 - Ne PAS frapper ou percer la batterie ou son boîtier

Pour les techniciens qualifiés pour les circuits haute tension :

- Lisez le manuel d'entretien avant de réparer ou de remplacer la batterie.
- Ne permettez à aucun objet métallique d'entrer en contact avec la batterie ou de tomber à l'intérieur. Une augmentation soudaine de la pression interne peut entraîner des brûlures, des chocs ou des étincelles, ou causer une explosion ou un incendie.

RENSEIGNEMENTS RELATIFS AU RECYCLAGE DES BATTERIES HAUTE TENSION:
• TRANSPORTER CETTE BATTERIE CONFORMEMENT À TOUTES LES LOIS APPLICABLES.
• POUR DE PLUS AMPLES RENSEIGNEMENTS SUR LE REMPLACEMENT ET LA MISE AU REBUT, S'ASSURER DE COMMUNIQUER AVEC VOTRE CONCESSIONNAIRE NISSAN OU AVEC NISSAN CANADA INC, 5290 ORBITOR DRIVE MISSISSAUGA ON L4W 4Z5 1(800) 387-0122

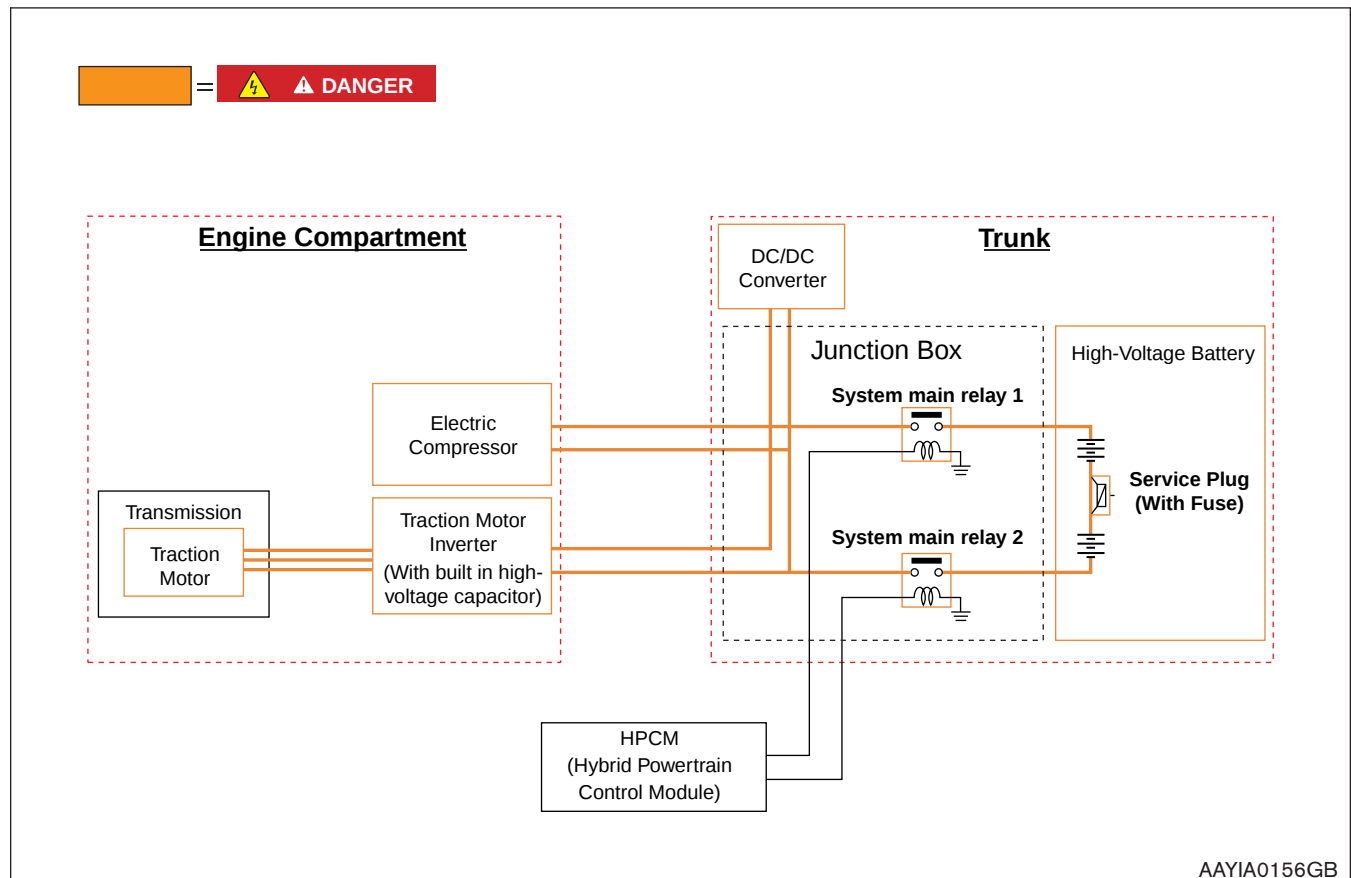


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2-5 High-voltage Safety System

The high-voltage safety system is intended to help keep vehicle occupants and emergency responders safe from high-voltage electricity.

- A high-voltage fuse provides short circuit protection inside the high-voltage battery.
- The high-voltage safety system is insulated from the metal chassis.
- Positive and negative high-voltage power cables are connected to the high-voltage battery and are controlled by normally open system main relays (SMR1 and SMR2). When the vehicle is shut off, the relays stop electrical flow from leaving the high-voltage battery. However, it can take approximately ten (10) minutes for the high-voltage capacitor to fully discharge.



⚠ WARNING

- **The high-voltage system and high-voltage capacitor may remain powered for up to approximately 10 minutes after the vehicle is shut off. Personal Protective Equipment (PPE) must always be worn when touching or working on high-voltage components to avoid risk of electrical shock and severe personal injury or death.**
 - **The high-voltage battery retains high-voltage at all times. PPE must always be worn when touching or working on high-voltage components to avoid risk of electrical shock and severe personal injury or death.**
-
- A ground fault monitor continuously monitors for high-voltage leakage to the metal chassis while the vehicle is running. If a malfunction is detected, the HPCM (hybrid powertrain control module) will illuminate the hybrid system warning lamp  in the instrument cluster.
 - The high-voltage battery relays (SMR1 and SMR2) will automatically open to stop the electrical flow in front, side or certain rear collisions that are sufficient enough to activate the supplemental restraint system (SRS).

2-6 High-voltage Circuit Shut-Off System

This vehicle is equipped with a system to shut off the current from the high-voltage battery by the following methods:

Service plug	Positioned in the center area of the high-voltage battery, this plug shuts off the output of high-voltage when manually removed.
System main relays (located in the high-voltage battery)	Controlled by the ignition switch, these relays are powered by the 12-volt system and shut off high-voltage from the high-voltage battery.
Emergency shut-off system	In the case of a collision (front and side collisions in which the air bags are deployed, certain rear collisions) or certain system malfunctions this system is designed to shut off the high-voltage from the high-voltage battery.

-7 Preventing Electrical Shock

1. If it is necessary to touch any of the high-voltage harnesses or components, always wear appropriate Personal Protective Equipment (PPE) [refer to [3-1 Preparation Items \(DG-17\)](#)]. Shut off the high-voltage system by referring to [3-4.1 High-voltage System Shut-Down Procedure \(DG-20\)](#).
2. To avoid the risk of electrocution, NEVER touch the inside of the high-voltage battery with bare hands after shutting off the high-voltage system. The high-voltage battery maintains charge even though the high-voltage system is shut down. PPE must always be worn when touching or working on high-voltage components.
3. Cover damaged high-voltage components with insulated tape.

3. Preparation for Dismantling



⚠ DANGER

-  Failure to properly shut down the high-voltage electrical system before the Dismantling Procedures are performed will result in serious injury or death from electrical shock. To prevent serious injury or death, **NEVER** touch high-voltage harnesses or components without always wearing appropriate Personal Protective Equipment (PPE). PPE must always be worn when touching or working on high-voltage components.
-  If it is necessary to touch any of the high-voltage harnesses or components you must always wear appropriate PPE to avoid electrical shock. PPE must always be worn when touching or working on high-voltage components. Shut down the high-voltage system by following the steps outlined in [3-4.1 High-voltage System Shut-Down Procedure \(DG-20\)](#). Wait approximately ten (10) minutes for complete discharge of the high-voltage capacitor after the high-voltage system has been shut down.

⚠ WARNING

- **NEVER** assume the Q50 HYBRID is shut OFF simply because it is quiet.
- If it becomes necessary for the dismantler to leave the vehicle, place a “DANGER” sign [for example, refer to [5. Storing the Vehicle \(DG-39\)](#)] on the vehicle to alert other people that the vehicle contains a high-voltage battery.
- If the READY  indicator is ON the high-voltage system is active.
- If possible, be sure to check the READY  indicator on the instrument cluster and verify that the READY  indicator is OFF and the high-voltage system is stopped.

3-1 Preparation Items

Preparation Items	Specification	Purpose
PPE (personal protective equipment): Insulated gloves 	Up to 1,000V	For protection from high-voltage electrical shock.
Insulated shoes 	—	
Safety shield 	—	To protect eyes when around high-voltage components and wiring.
Safety Glasses 		
Leather gloves 	Must be able to fasten tight around the wrist. (Worn over insulated gloves)	To protect insulated gloves.
Wrenches 	Size:10mm	To remove the 12-volt battery terminal bolt.
Solvent resistant protection gloves Solvent resistant protection shoes	—	To utilize in the event of a high-voltage battery electrolytic solution leak.
Absorbent pad	The same pad used for internal combustion engine fluids can be used.	To absorb any high-voltage battery electrolytic solution leakage.
Standard fire fighting equipment	Standard fire fighting equipment. Depending on type of fire (vehicle or battery) use standard fire fighting equipment (water or extinguisher).	To extinguish a fire.
Insulated tape	Insulating	To cover any damaged harnesses to protect from and prevent electrical shock. Tape should cover all bare or damaged wire.

3-2 Personal Protective Equipment (PPE) and Insulated Tools

3-2.1 Personal Protective Equipment (PPE) Protective Wear Control

Perform an inspection of the Personal Protective Equipment (PPE) items before beginning work. Do not use any damaged PPE items.

3-2.2 Daily Inspection

This inspection is performed before and after use. The worker who will be using the items should perform the inspection and check for deterioration and damage.

- Insulated rubber gloves should be inspected for scratches, holes and tears. (Visual check and air leakage test)
- Insulated safety boots should be inspected for holes, damage, nails, metal pieces, wear or other problems on the soles. (Visual check)
- Insulated rubber sheet should be inspected for tears. (Visual check)

3-2.3 Insulated Tools

When performing work at locations where high-voltage is applied (such as terminals), use insulated tools meeting 1,000V/300A specifications.

3-3 Discharge Procedures



⚠ DANGER

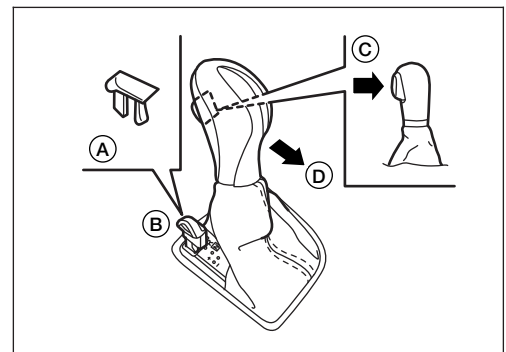
Do not perform this procedure if the battery is damaged. If you are unsure of battery damage, use extreme caution and wear appropriate Personal Protective Equipment (PPE).

High-voltage battery discharging must take place before dismantling. Sufficient discharging can be achieved by following these steps.

1. Place the shift selector into the Park (P) position
2. Apply the parking brake.
3. Set wheel chocks to ensure the vehicle is completely immobilized.
4. Fasten the driver seat belt and close the driver door.
5. Apply foot brake and press the ignition switch to turn the system ON. Confirm READY  indicator in instrument cluster turns ON.
 - a. If the engine starts, leave the engine on until the idling stops.
 - b. If the engine does NOT start, move on to next step.
6. Remove the shift lock cover (A) using a suitable tool.
7. Push down the shift lock (B) using mechanical key as shown in the illustration.
8. Push the shift selector button (C) and move the shift selector to the Neutral (N) position (D) while holding down the shift lock.

NOTE:

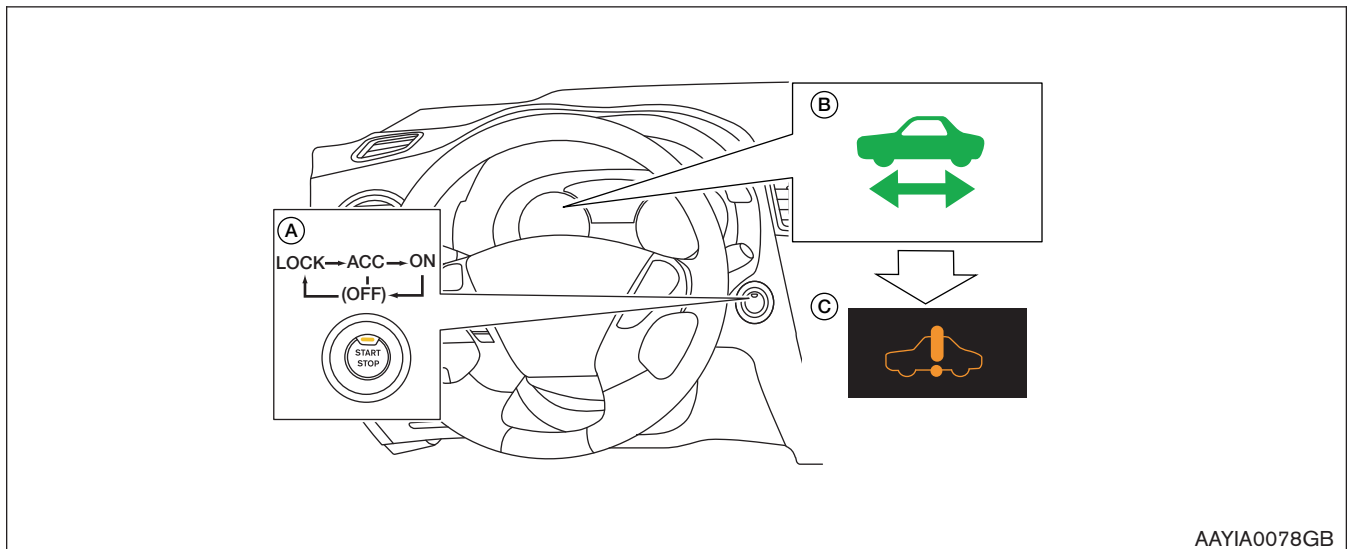
DO NOT press accelerator or foot brake after moving the shift selector to the Neutral (N) position. Otherwise high-voltage battery will start to be charged.



NOTE:

The engine must not be running at this time. If the engine has restarted, repeat the previous steps.

9. Release the parking brake.
10. Unbuckle the seat belt and open the driver door. The READY  indicator should remain ON and the engine should not be running.
11. Turn ON electric devices such as headlamps, A/C (set to the coldest temperature) and rear window defogger to discharge the high-voltage battery. Discharge is complete when the READY  indicator (B) (green) turns OFF, and the hybrid system warning indicator (C) (orange) turns ON.



12. Move shift selector into the Park (P) position and press the ignition switch (A) to turn the system OFF.

Please contact following number if the vehicle could not be discharged.

- 1-800-662-6200 (US) or 1-800-361-4792 (Canada)
- Hours of operation are 8am - 5pm (Monday-Friday) Eastern, Central and Pacific time zones.

3-4 How to Handle a Damaged Vehicle

3-4.1 High-voltage System Shut-Down Procedure

Any of the following procedures can shut down the high-voltage system. The dismantling operation can only begin after shutting down the high-voltage system. If the vehicle is heavily damaged, for example the high-voltage battery is deformed, broken or cracked, appropriate PPE must always be used and the high-voltage battery and high-voltage components must not be touched.



⚠ DANGER

-  **Failure to properly shut down the high-voltage system before the dismantling procedures are performed will result in serious injury or death from electrical shock. To prevent serious injury or death, NEVER touch high-voltage harnesses or components without always wearing appropriate Personal Protective Equipment (PPE). Appropriate PPE must always be worn when touching or working on high-voltage components.**
-  **When contact with high-voltage components or high-voltage harnesses is unavoidable, or when there is risk of such contact, you must always wear appropriate PPE. PPE must always be worn when touching or working on high-voltage components.**

⚠ WARNING

-  **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.**
- **Be sure to verify that the READY  indicator is off (if possible), and the high-voltage system is stopped.**
- **After the high-voltage system is shut down, please wait approximately ten (10) minutes for complete discharge of the high-voltage capacitor. While waiting, do not operate any vehicle functions.**
- **After shutting down the high-voltage system and removing the 12-volt battery negative (-) terminal, wait at least three (3) minutes to discharge the air bag capacitor. Even though the 12-volt battery negative (-) is disconnected, the Supplemental Restraint System (SRS) air bag maintains voltage at least three (3) minutes. During this time, there is a possibility of sudden SRS air bag inflation due to harness short circuit or damage and it may cause serious injuries.**
- **The 12V system will remain active even after the 12-volt battery negative (-) terminal is removed while the high-voltage system is active. This is because the charging system will not shut down and power will be supplied to the 12V system and high-voltage system continuously.**

Before disconnecting the 12-volt battery terminal, if necessary, lower the windows, adjust the steering column, adjust the seats, unlock the doors, open the trunk, etc. as required. Once the 12-volt battery is disconnected, power controls will not operate.

Powering Down the High-voltage System

The high-voltage system can be shut down with any 1 of the following procedures:

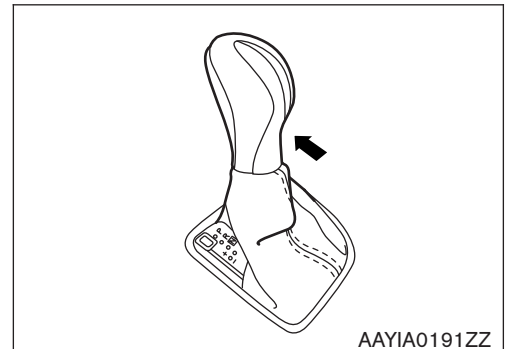
- Turn OFF the power switch and disconnect the 12-volt battery. Refer to [Primary Procedure \(DG-21\)](#).
- Remove the fuse for the high-voltage control system and disconnect the 12-volt battery. Refer to [Alternate Procedure 1 \(Disconnect Underhood Fuse Panel\) \(DG-24\)](#).
- Remove the service plug and disconnect the 12-volt battery. Refer to [Alternate Procedure 2 \(Remove Service Plug\) \(DG-27\)](#).

Primary Procedure

NOTE:

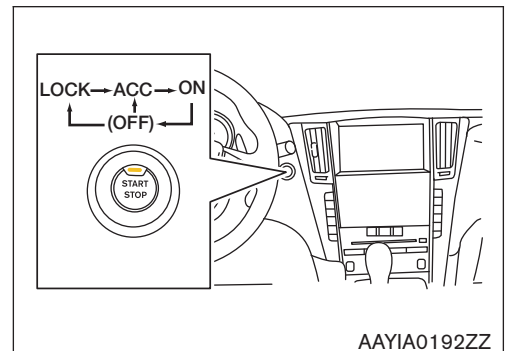
Before disconnecting the 12-volt battery terminal, if necessary, lower the windows, adjust the steering column, adjust the seats, unlock the doors, etc. Once 12-volt battery is disconnected, power controls will not operate.

1. If possible, check the READY  indicator status in the instrument cluster. If it is on, the high-voltage system is active.
2. Place the shift selector in the Park (P) position.

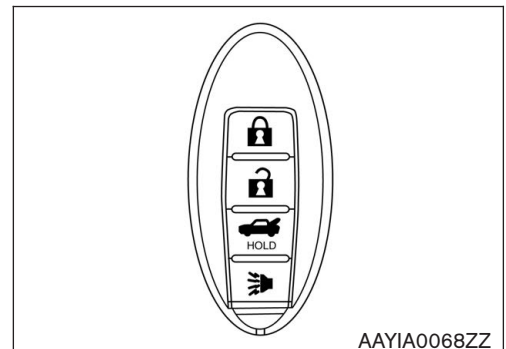


3. Push the ignition switch once to turn OFF the high-voltage system. Verify that the READY indicator is off and then continue to the next steps to open the trunk for 12-volt battery negative cable access.

If the READY indicator does not turn off, refer to [Alternate Procedure 1 \(Disconnect Underhood Fuse Panel\) \(DG-24\)](#)



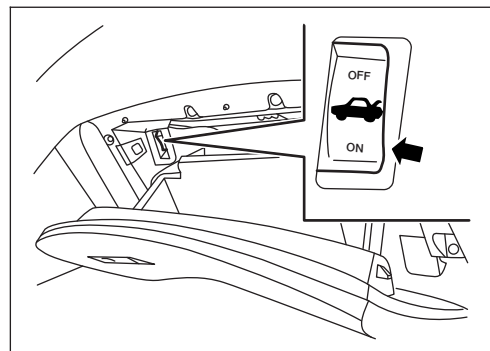
4. If possible, keep the Infiniti Intelligent Key at least 5 meters (16 feet) away from the vehicle (except to open the trunk as noted below).



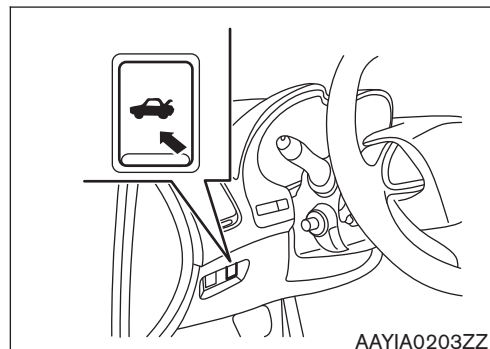
5. Open the trunk using any of the following:

NOTE:

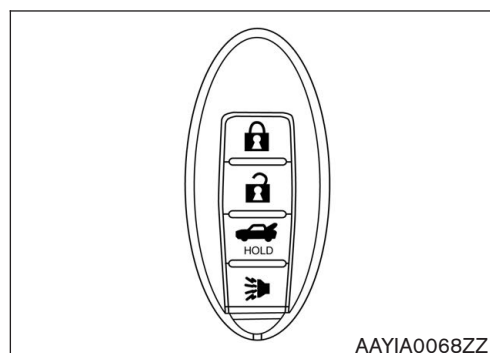
The trunk release power cancel switch must be in the ON position in order for the trunk to be opened using any of the methods below.



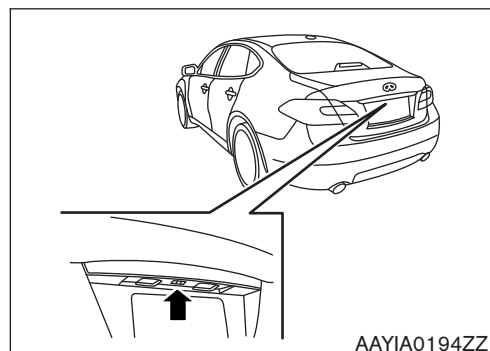
- a. push-button switch on the lower LH side of the instrument panel (ensure that the trunk release power cancel switch is in the ON position).



- b. trunk button on the Infiniti Intelligent Key [press for longer than one (1) second].



- c. trunk open request switch (located above license plate)*.



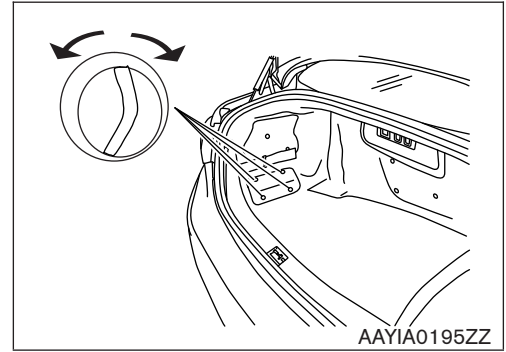
Method	Shift Selector Position	Ignition Switch Status
a	P or N	Any
b	P	OFF
c*	Any	Any

* You must have the Infiniti Intelligent Key within approximately 1 meter (3 feet) range of trunk request switch to use the trunk open request switch function.

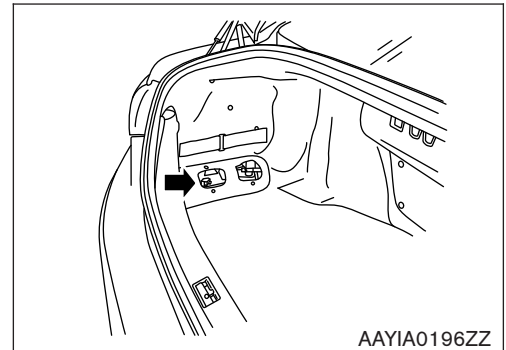
NOTE:

If the electrical release does not work, the trunk will have to be forced open.

6. Open the 12-volt battery service access cover.



7. Disconnect negative (-) battery cable and cover it with insulated tape.



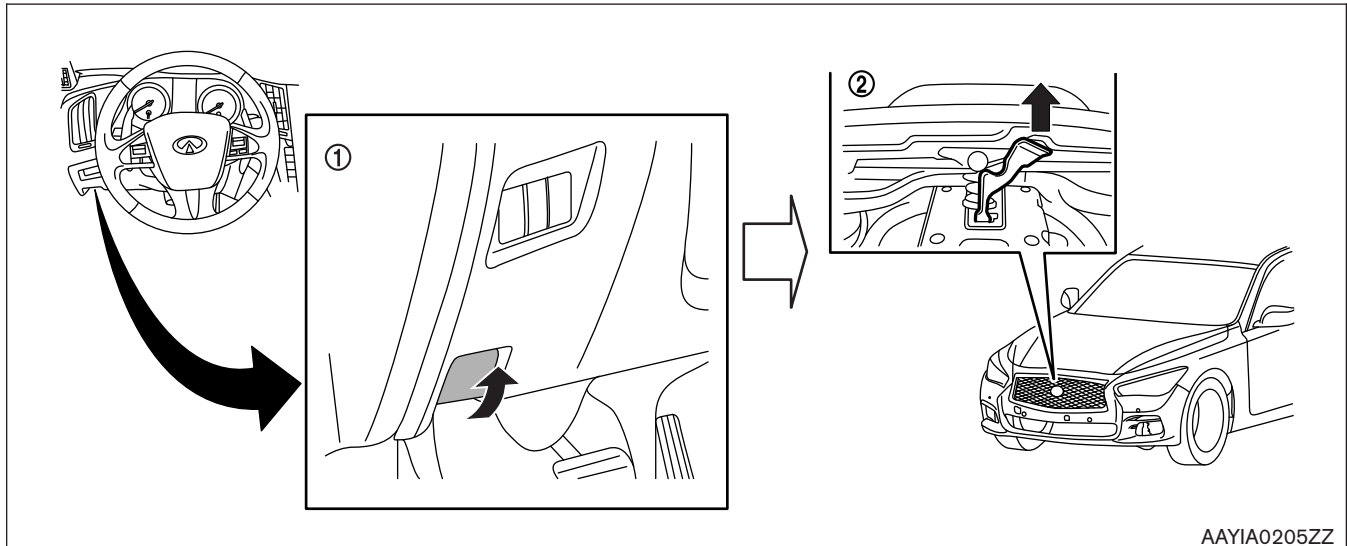
8. **Wait approximately ten (10) minutes for complete discharge** of the high-voltage capacitor after the battery cable has been disconnected.
9. Perform the dismantling operation. Refer to [6. Dismantling Information \(DG-41\)](#).

Alternate Procedure 1 (Disconnect Underhood Fuse Panel)

NOTE:

Before disconnecting the underhood fuse panel and the negative (-) battery cable, if necessary, lower the windows, adjust the steering column, adjust the seats, unlock the doors, etc. Once the underhood fuse panel and negative (-) battery cable are disconnected, power controls will not operate.

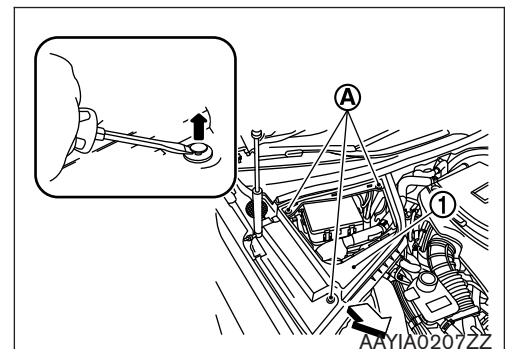
1. Pull release handle (1) and pull up release lever (2) to open the hood.



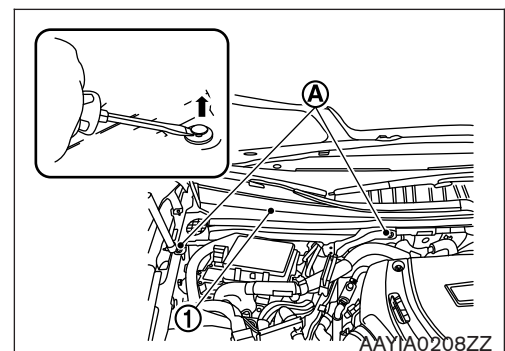
2. Remove clips (A) and RH hood ledge cover (1).

NOTE:

← : Arrow in illustration depicts vehicle front direction.



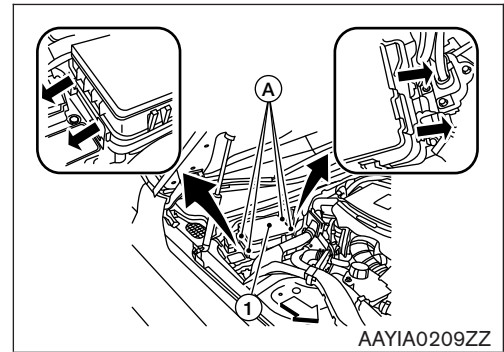
3. Remove clips (A) and RH cowl cover (1).



4. Disengage pawls (A) of underhood fuse panel cover and remove underhood fuse panel cover (1).

NOTE:

↰ : Arrow in illustration depicts vehicle front direction.

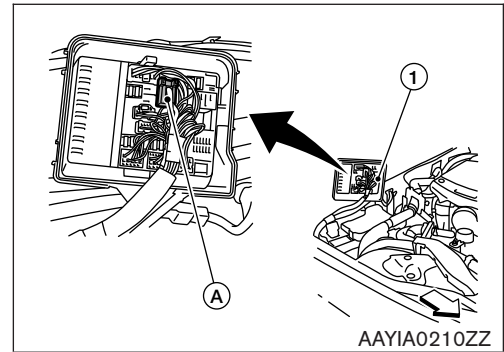


5. Pull underhood fuse panel (1) out by hand and disconnect terminal (black) connector (A).

NOTE:

↰ : Arrow in illustration depicts vehicle front direction.

6. If you cannot identify the connector, disconnect all connectors on the underhood fuse panel.



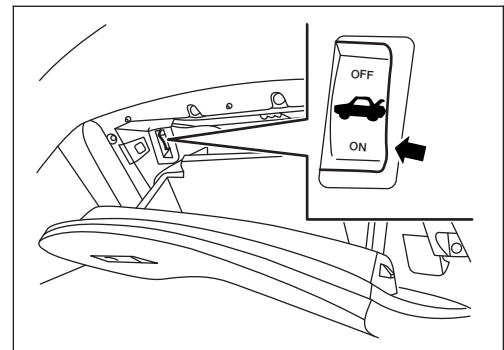
⚠ WARNING

To avoid unintended reinstallation and risk of electrical shock and severe personal injury or death, the dismantler should cover the fuse box and connectors with insulated tape or remove the fuse panel and carry on his/her person.

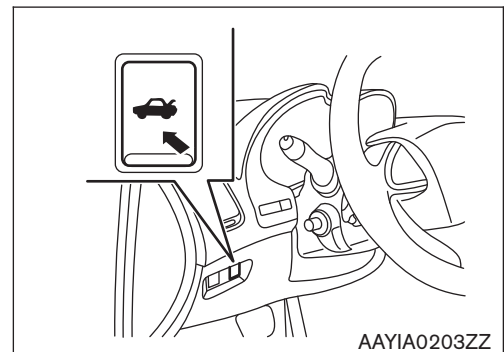
7. Open the trunk using any of the following:

NOTE:

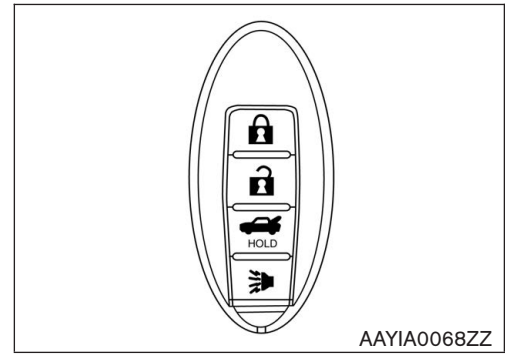
The trunk release power cancel switch must be in the ON position in order for the trunk to be opened using any of the methods below.



- a. push-button switch on the lower LH side of the instrument panel (ensure that the trunk release power cancel switch is in the ON position).



- b. trunk button on the Infiniti Intelligent Key [press for longer than one (1) second].

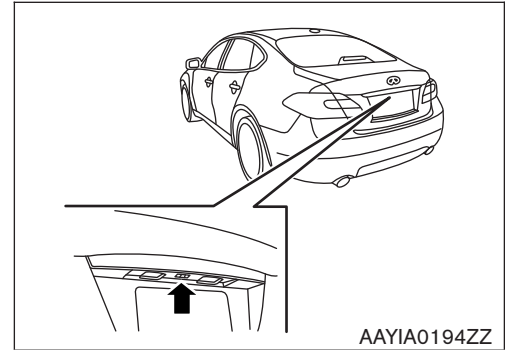


- c. trunk open request switch (located above license plate)*.

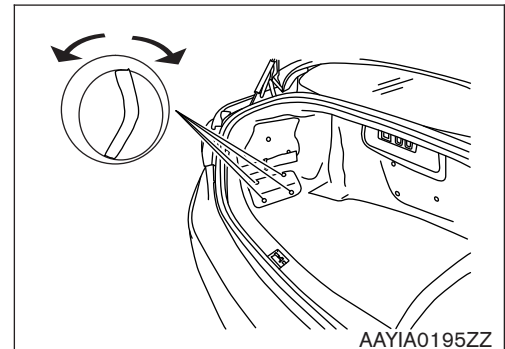
* You must have the Infiniti Intelligent Key within approximately 1 meter (3 feet) range of trunk request switch to use the trunk open request switch function.

NOTE:

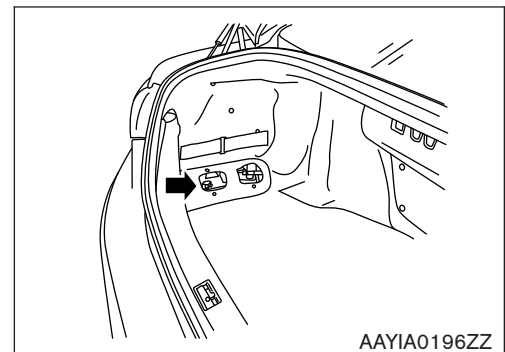
If the electrical release does not work, the trunk will have to be forced open.



8. Open the 12-volt battery service access cover.



9. Disconnect negative (-) battery cable and cover it with insulated tape.



10. **Wait approximately ten (10) minutes for complete discharge** of the high-voltage capacitor after the fuse panel and battery cable have been disconnected.
11. Perform the dismantling operation. Refer to [6. Dismantling Information \(DG-41\)](#).

Alternate Procedure 2 (Remove Service Plug)



⚠ DANGER

-  **Do not remove the service plug without always wearing appropriate Personal Protective Equipment (PPE) to help protect the dismantler from serious injury or death by electrical shock.**
-  **Immediately cover the service plug socket with insulated tape. The high-voltage battery retains high-voltage power even when the service plug is removed. To avoid electric shock, NEVER touch the terminals inside the socket.**

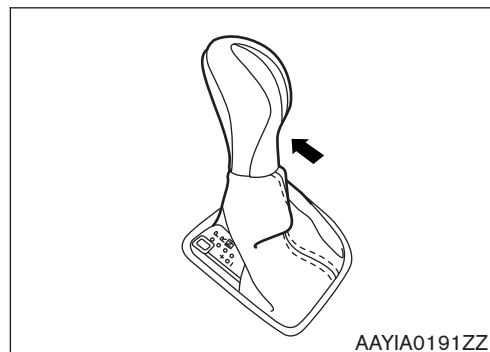
⚠ WARNING

-  **To avoid unintended reinstallation and risk of electrical shock and severe personal injury or death, the dismantler should carry the service plug on his/her person while work is in progress.**

NOTE:

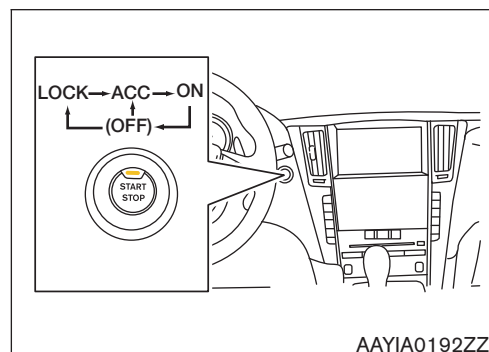
Before disconnecting the 12-volt battery terminal, if necessary, lower the windows, adjust the steering column, adjust the seats, unlock the doors, etc. Once 12-volt battery is disconnected, power controls will not operate.

1. If possible, check the READY  indicator status in the instrument cluster. If it is on, the high-voltage system is active.
2. Place the shift selector in the Park (P) position.

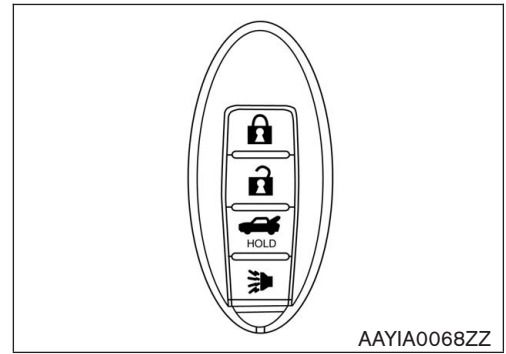


3. Push the ignition switch once to turn OFF the high-voltage system. Then verify whether the READY indicator is off.

If the READY indicator does not turn off, continue to step 4.



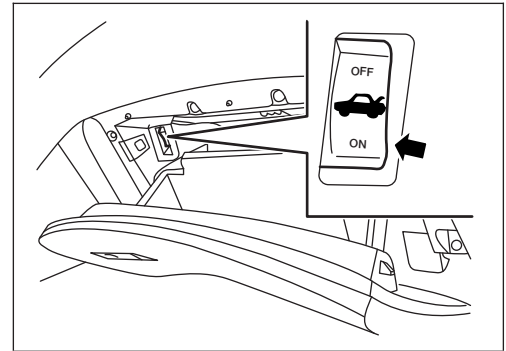
4. If possible, keep the Infiniti Intelligent Key at least 5 meters (16 feet) away from the vehicle (except to open the trunk as noted below).



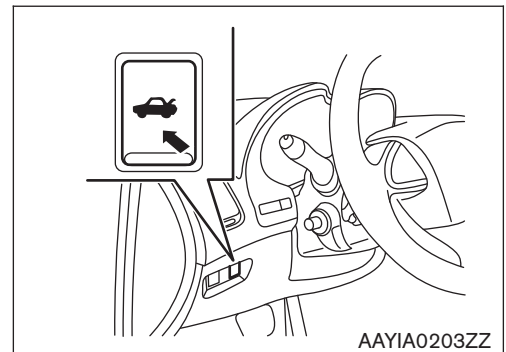
5. Open the trunk using any of the following:

NOTE:

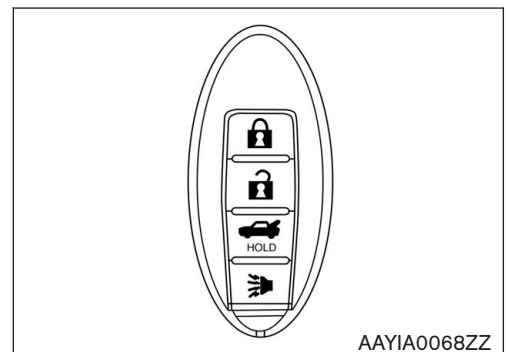
The trunk release power cancel switch must be in the ON position in order for the trunk to be opened using any of the methods below.



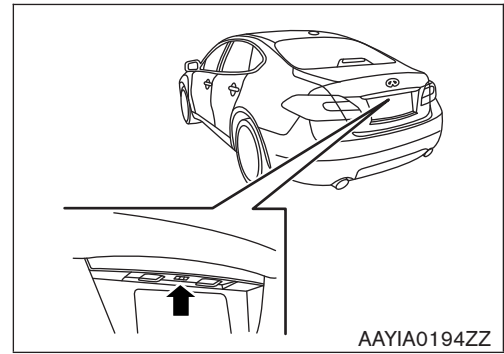
- a. push-button switch on the lower LH side of the instrument panel.



- b. trunk button on the Infiniti Intelligent Key [press for longer than one (1) second].



- c. trunk open request switch (located above license plate)*.



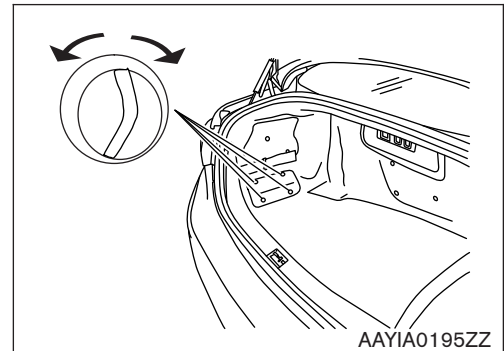
Method	Shift Selector Position	Ignition Switch Status
a	P or N	Any
b	P	OFF
c*	Any	Any

* You must have the Infiniti Intelligent Key within approximately 1 meter (3 feet) range of trunk request switch to use the trunk open request switch function.

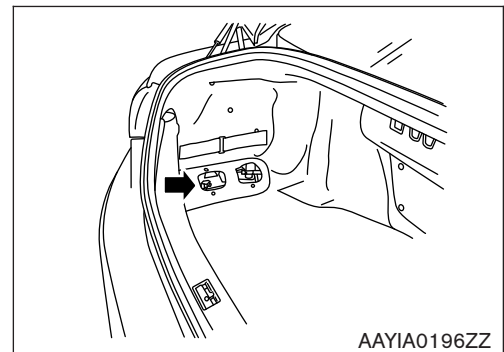
NOTE:

If the electrical release does not work, the trunk will have to be forced open.

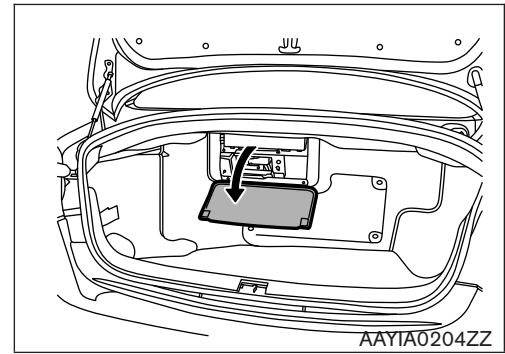
6. Open the 12-volt battery service access cover.



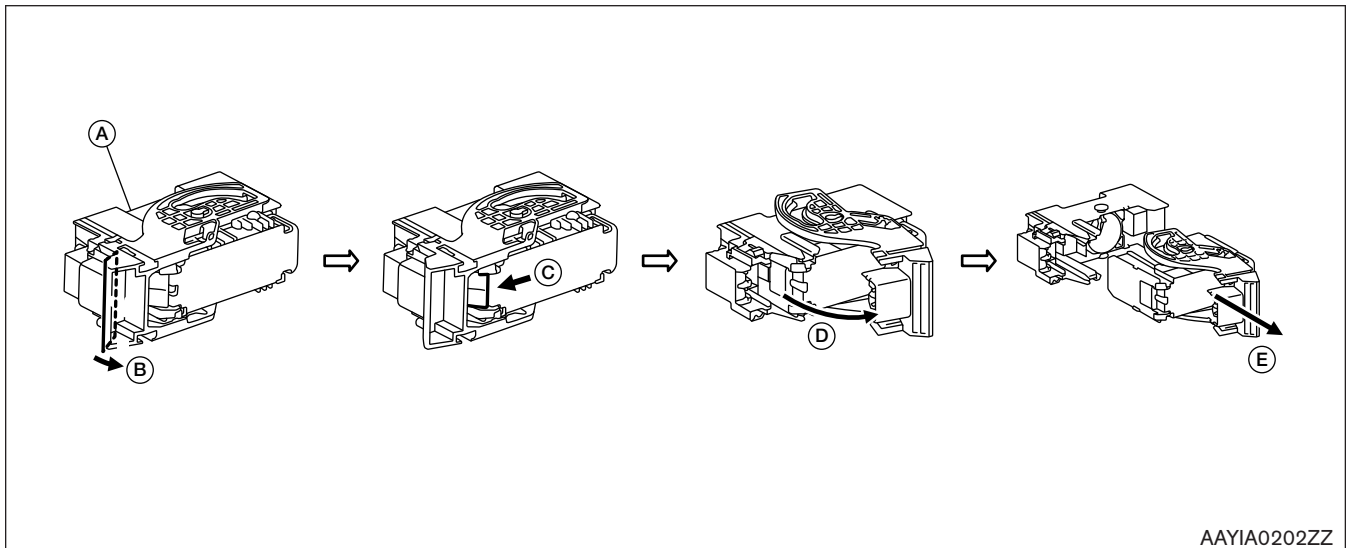
7. Disconnect negative (-) battery cable and cover it with insulated tape.



8. Open service plug access cover.



9. Remove the service plug (A) by pulling the locking lever (B), then pressing the locking tab (C) and rotating the handle (D) fully outward. Using the handle, pull the service plug (E) completely out of its socket.



10. Cover the service plug socket with insulated tape.
11. **Wait approximately ten (10) minutes for complete discharge** of the high-voltage capacitor after the service plug has been removed.
12. Perform the dismantling operation. Refer to [6. Dismantling Information \(DG-41\)](#).

3-4.2 Cutting the Vehicle Body



⚠ DANGER

-  **Do not cut into high-voltage related areas to avoid severe personal injury or death.**
-  **Do not cut into the high-voltage battery to avoid severe personal injury or death.**
-  **When removing parts, NEVER touch the high-voltage parts or the insides of the exposed orange-colored high-voltage cables to avoid severe personal injury or death. Appropriate Personal Protective Equipment (PPE) must always be worn when touching or working on high-voltage components.**

⚠ WARNING

To avoid unintended reinstallation and risk of electrical shock and severe personal injury or death, the dismantler should carry the fuses or service plug on his/her person while work is in progress.

⚠ WARNING

Do not cut air bag parts to avoid unintended deployment of the air bags and the risk of severe personal injury or death.

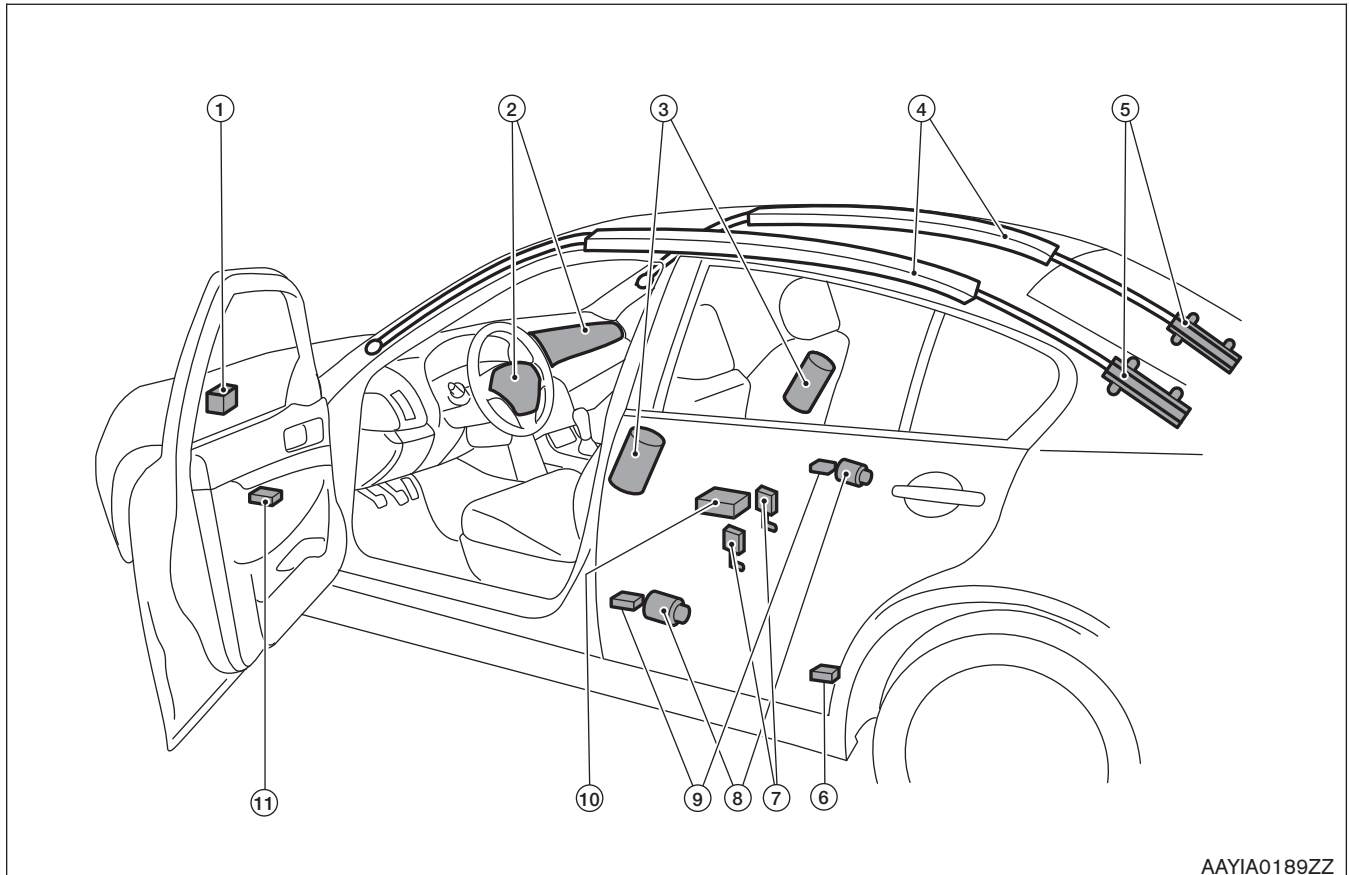
If **approximately (10) minutes** have passed since the rescuer shut down the high voltage system [refer to [3-4.1 High-voltage System Shut-Down Procedure \(DG-20\)](#)], then the dismantler can cut the vehicle except for the high voltage battery.

DO NOT cut the high voltage battery due to possible electrocution risk and electrolyte solution leakage.

SRS Air Bag System Components Location

The SRS air bag system must not be cut as there is a risk of short circuit and unintentional deployment of the SRS. However, the vehicle can be cut (except inflators) under the following conditions:

- The front, side and curtain air bags have deployed.
- At least three (3) minutes have passed after the 12-volt battery negative (-) cable has been disconnected and the high-voltage system has been shut down.



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1. Crash zone sensor (located underhood near hood latch)

2. Supplemental front air bag modules (Infiniti Advanced Air Bags)

3. Front seat-mounted side-impact supplemental air bags

4. Roof-mounted curtain side-impact supplemental air bags

5. Roof-mounted curtain side-impact supplemental air bag inflators

6. C-pillar satellite sensors (LH shown, RH similar)

7. Seat belt buckle pretensioners

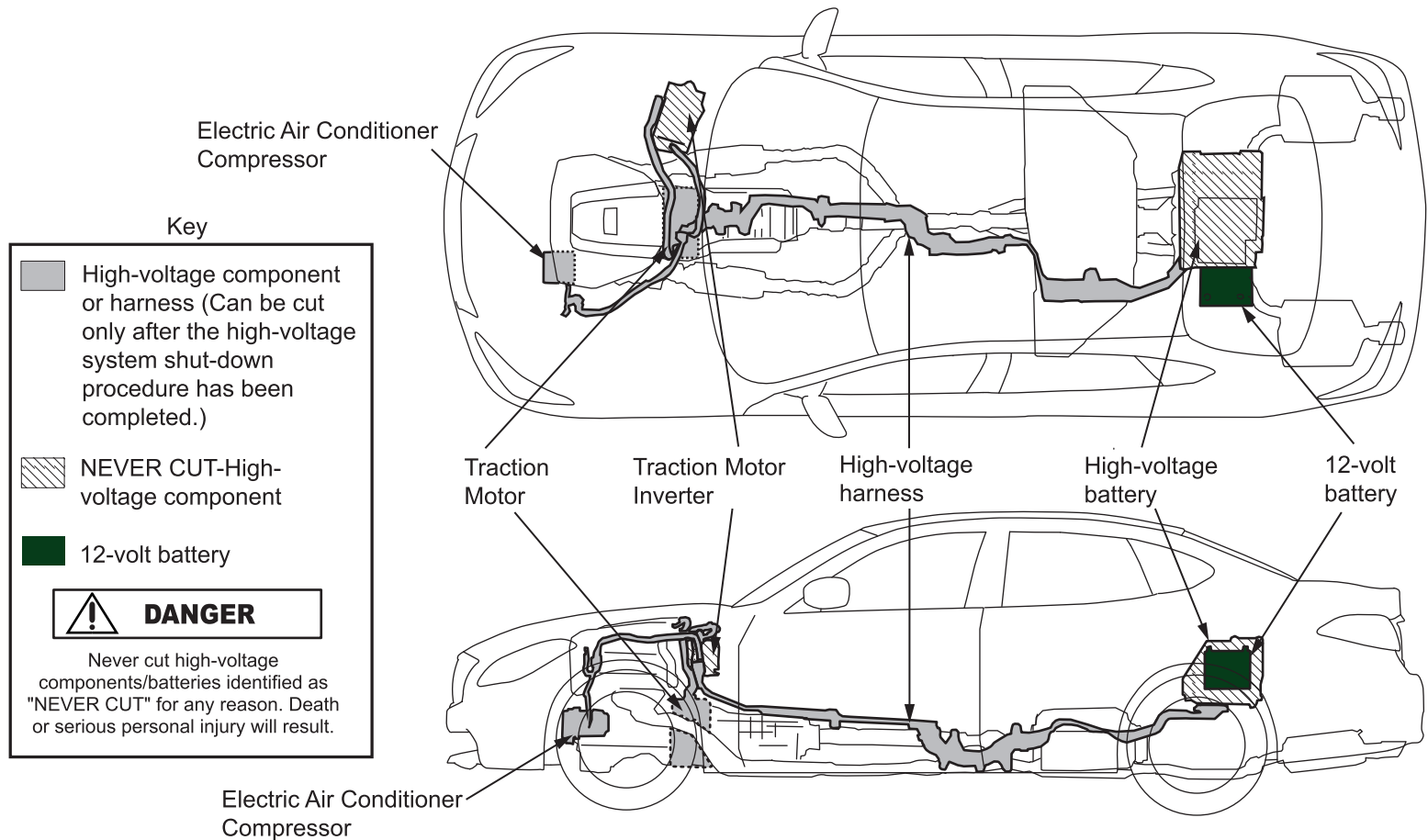
8. Seat belts with pretensioners

9. B-pillar satellite sensors

10. Air bag control unit (ACU)

11. Front door satellite sensors (LH shown, RH similar)

Infiniti Emergency Contact 1-800-662-6200 (US) or 1-800-361-4792 (Canada) Hours of Operation: 8am-5pm (Monday-Friday) Eastern, Central and Pacific Time Zones



Nissan North America, Inc. Version (2)

July 2014

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3-4.3 Water Submersion



⚠ DANGER



Damage level of submerged vehicle may not be apparent. Handling a submerged vehicle without appropriate Personal Protective Equipment (PPE) will result in serious injury or death from electrical shock.

⚠ WARNING

-  **The ignition switch of the submerged vehicle must be turned OFF first, if possible. Then the vehicle must be completely out of the water and drained to avoid electrical shock.**
-  **Always wear appropriate Personal Protective Equipment (PPE) and remove/drain water before removing the service plug when working on a vehicle after a fire or submersion to avoid electrical shock.**
-  **If the vehicle is in the water, to avoid electrical shock NEVER touch the high-voltage components, harnesses or service plug. PPE must always be worn when touching or working on high-voltage components.**

3-4.4 Vehicle Fire

⚠ WARNING

- **Always utilize full Personal Protective Equipment (PPE) and self-contained breathing apparatus during fire fighting operations. Smoke from a Q50 HYBRID vehicle fire is similar to smoke from a conventional vehicle fire.**
- **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.**

⚠ CAUTION

In the event of a small fire, a Type ABC fire extinguisher may be used for an electrical fire caused by wiring harnesses, electrical components, etc. or oil fire.

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 a hybrid vehicle that contains a high-voltage system and warn all others.

3-4.5 High-voltage Battery Damage And Fluid Leaks

⚠ WARNING

The high-voltage battery contains electrolyte solution. To avoid exposure to electrolyte solution and serious personal injury, always wear appropriate solvent resistant Personal Protective Equipment (PPE) and read the following precautions:

- Electrolyte solution is a skin irritant.
- Electrolyte solution is an eye irritant – If contact with eyes, rinse with plenty of water and see a doctor immediately.
- If electrolyte leak occurs, wear appropriate solvent resistant PPE and use a dry cloth to clean up the spilled electrolyte. Be sure to adequately ventilate the area.
- Electrolyte solution is highly flammable.
- 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.
- Electrolyte fumes (when inhaled) can cause respiratory irritation and acute intoxication. Move to fresh air and wash mouth with water. See a doctor immediately.

In cases of battery case breach or electrolyte leakage, contact the fire department immediately. If you must walk away from the vehicle, notify an appropriate responder of the fact that the vehicle is a hybrid vehicle and contains a high-voltage system and warn all others.

High-voltage Battery Electrolyte Solution Characteristics:

- Clear in color
- Sweet odor
- Similar viscosity to water
- Since the high-voltage battery is made up of many small sealed battery modules, electrolyte solution leakage should be minimal.

NOTE:

Other fluids in the vehicle (such as engine oil, washer fluid, brake fluid, coolant, etc.) are the same as those in a conventional vehicle.

4. Jump Starting

To start the hybrid system with a booster battery, the instructions and precautions below must be followed.

⚠ WARNING

If done incorrectly, jump starting can lead to a 12-volt battery explosion, resulting in severe personal injury or death. It could also damage your vehicle.

Jump starting provides power to the 12-volt system to allow the electrical systems to operate. The electrical systems must be operating to allow the high-voltage battery to be charged. Jump starting does not charge the high-voltage battery.

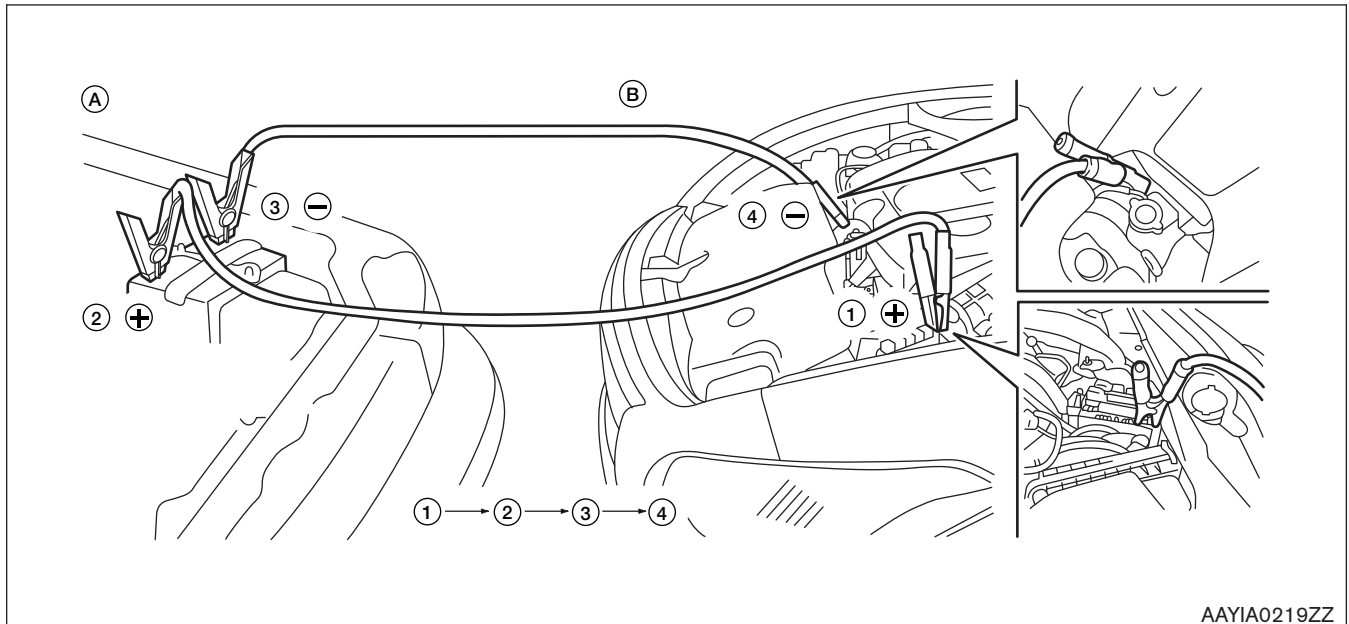
Discharged 12-volt battery may cause the following issues:

- The instrument cluster cannot be displayed while the ignition switch is turned ON. (The hybrid system cannot start.)
- Headlamps, horn, etc. are weak.

⚠ WARNING

-  **To avoid electrical shock, the high-voltage battery CANNOT be jump started.**
- **Explosive hydrogen gas is always present in the vicinity of the 12-volt battery. Keep all sparks and flames away from the 12-volt battery. Make sure the vent tube is mounted.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution that can cause severe burns. If the fluid comes into contact with anything, immediately flush the contacted area with water.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage the vehicle.**
- **Whenever working on or near a 12-volt battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the 12-volt battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Q50 HYBRID is equipped with an automatic cooling fan. It could come on at any time. Keep hands and other objects away from it.**
- **Always follow the jump starting instructions below. Failure to do so could result in damage to the charging system and cause personal injury.**

4-1 Jump Starting Procedures



NOTE:

Jumper cable connections under the hood of the Q50 HYBRID are not connected directly to a battery. They are connected to chassis ground and a fuse box terminal. Refer to the following instructions and the above illustration.

1. If the booster battery is in another vehicle (A), position the two vehicles (A and B) to bring the 12-volt battery and fuse box into close proximity to each other.

DO NOT allow the two vehicles to touch.

2. Apply the parking brake. Move the selector lever the P (Park) position. Switch off all unnecessary electrical systems (headlights, heater, air conditioner, etc.).
3. Remove fuse box cover on the Q50 HYBRID and connect jumper cables in the sequence as illustrated (1 → 2 → 3 → 4).

For models with a steering wheel lock mechanism:

If the 12-volt battery is disconnected or discharged, the steering wheel will lock and cannot be turned. Supply power using jumper cables before pushing the ignition switch and disengaging the steering lock.

⚠ CAUTION

- Always connect positive (+) to positive (+) and negative (-) to body ground (for example, as illustrated), not to the 12-volt battery.
- Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.
- If the hybrid system does not start right away, push the ignition switch to the OFF position and wait ten (10) seconds before trying again.

4. Start the engine of the booster vehicle (A) and let it run for a few minutes.
5. Start the hybrid system of the vehicle being jump started (B).
6. After starting the hybrid system, carefully disconnect the negative cable and then the positive cable (④→③→②→①).
7. Reinstall the fuse box cover.

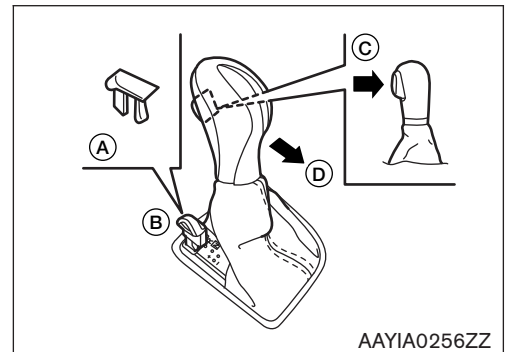
NOTE:

If it is not possible to turn the hybrid system ON by following this procedure, it is recommended you contact an INFINITI retailer immediately.

4-2 Shift Selector Lever Lock Release

If the 12-volt battery is low or discharged, the selector lever cannot be moved from the Park (P) position. If a booster battery is not available, the selector lever lock can be manually released. To manually release the selector lever lock, perform the following procedure:

1. Push the ignition switch to the LOCK or OFF position.
2. Apply the parking brake.
3. Remove the shift lock cover (A) using a suitable tool.
4. Push down the shift lock (B) as shown in the illustration.
5. Push the selector lever button (C) and move the selector lever to the Neutral (N) position (D) while holding down the shift lock.



5. Storing the Vehicle

⚠ WARNING

The service plug must be removed to shut down the high-voltage system for storage.

Do not store a vehicle inside a structure. Keep the vehicle away from other vehicles if the high-voltage battery is severely damaged. There is possibility of delayed fire from a severely damaged high-voltage battery.

If the Q50 HYBRID needs to be stored or left unattended, the high-voltage system must be shut down by removing the service plug [refer to [Alternate Procedure 2 \(Remove Service Plug\) \(DG-27\)](#)] and a sign put on the vehicle indicating it is a hybrid vehicle with high-voltage dangers. For example:

Person in charge: _____

**DO NOT TOUCH!
IN PROGRESS.
HIGH VOLTAGE REPAIR
DANGER:**

**DANGER:
HIGH VOLTAGE REPAIR
IN PROGRESS.
DO NOT TOUCH!**

Person in charge: _____

Copy this page and put it after folding on the roof of the vehicle in service.

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6. Dismantling Information

Removal or repair of the high-voltage battery requires special tools and specific training. Infiniti strongly recommends that only certified INFINITI retailer technicians perform these operations.

6-1 Precautions for Handling High-voltage Battery



⚠ DANGER

-  **Because Q50 HYBRID contains a high-voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high-voltage components or vehicle is handled incorrectly. Be sure to follow the correct work procedures when performing inspection and dismantling.**
-  **If it is necessary to touch any of the high-voltage harnesses or components you must always wear appropriate Personal Protective Equipment (PPE) and properly shut-down the high-voltage system by removing the service plug.**
-  **Be sure to always wear appropriate PPE before beginning work on the high-voltage system.**
-  **Be sure to remove the service plug in order to shut-down the high-voltage system before performing inspection or dismantling of high-voltage system harnesses and parts.**
-  **If the vehicle is heavily damaged, for example the high-voltage battery is deformed, broken, or cracked; appropriate PPE must always be used at all times to avoid electrical shock.**

⚠ WARNING

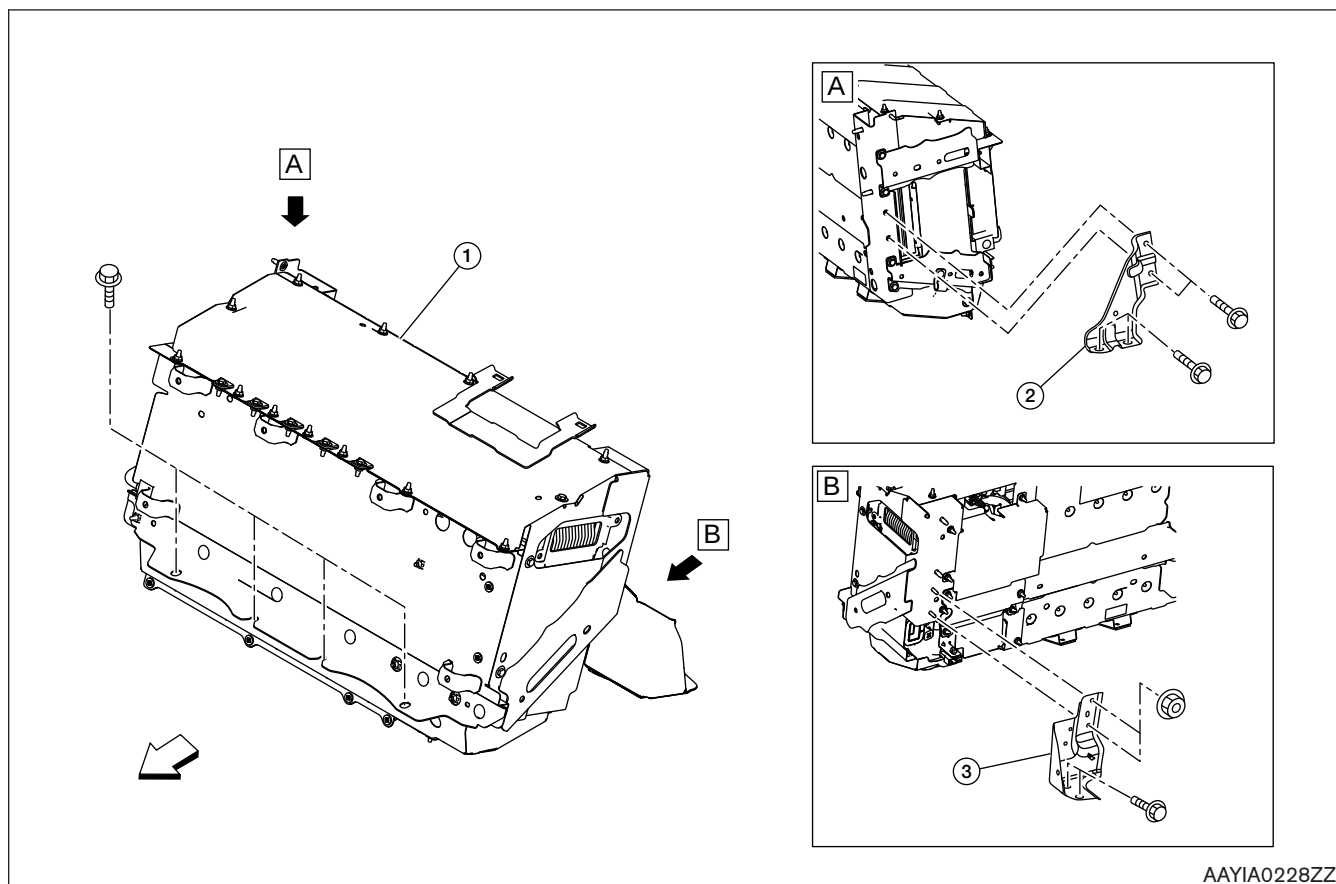
-  The colors of the high-voltage harnesses and connectors are all orange. Orange "high-voltage" labels are applied to the high-voltage battery and other high-voltage devices. Do not touch the high-voltage battery or other high-voltage devices without always wearing appropriate PPE.
-  Clearly identify 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 and sign or similar item to prevent other persons from contacting them.
-  Be sure to put the removed service plug in your pocket and carry it with you so another person does not accidentally reinstall it while work is in progress.
-  The high-voltage battery retains high-voltage at all times. Appropriate Personal Protective Equipment (PPE) must always be worn when touching or working on high-voltage components to avoid risk of electrical shock and severe personal injury or death.
-  Immediately insulate disconnected high-voltage connectors and terminals with insulated tape.
-  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.
-  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, credit cards, etc.) which may be damaged when working on the vehicle.
-  Keep removed high-voltage battery packs away from rain to avoid electric shock.
- Do not heat removed battery packs higher than 158° F (70° C).

⚠ CAUTION There is the possibility of a hybrid system malfunction occurring if the vehicle is changed to READY  status while the service plug is removed.

6-2 High-voltage Battery Pack Removal

6-2.1 Exploded View

high-voltage Battery Exploded View



← : Vehicle front

1. High-voltage battery assembly

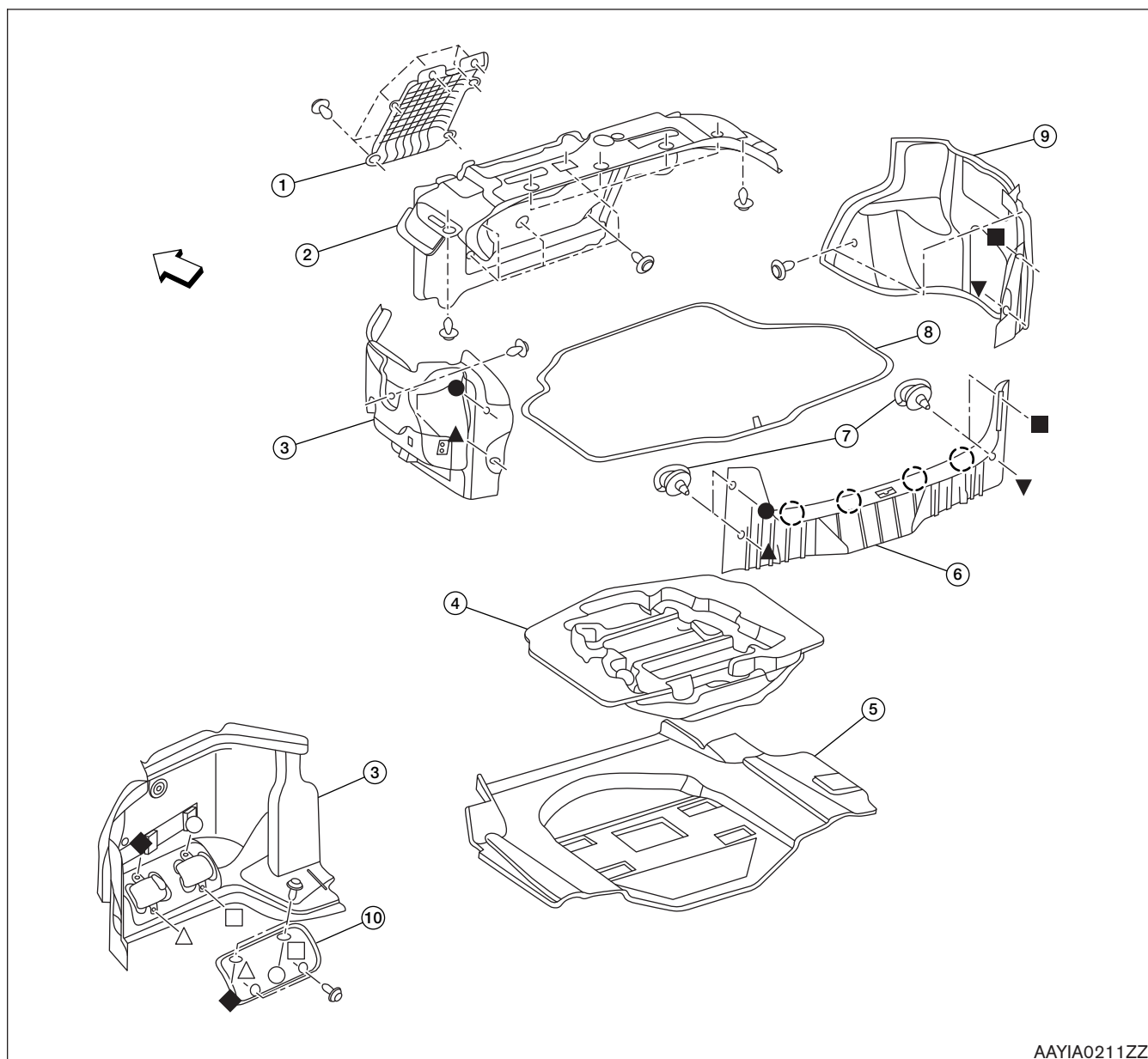
2. Bracket (RH)

3. Bracket (LH)

A. View A

B. View B

Trunk Room Trim Exploded View



AAYIA0211ZZ

○ : Clip

△ : Pawl

← : Vehicle front

●, ▲, ■, ▼, ◆ : Indicates that the part is connected at points with same symbol in actual vehicle

1. Rear seatback center finisher

2. Trunk front finisher

3. Trunk side finisher LH

4. Trunk center box

5. Thinsulate

6. Trunk rear plate

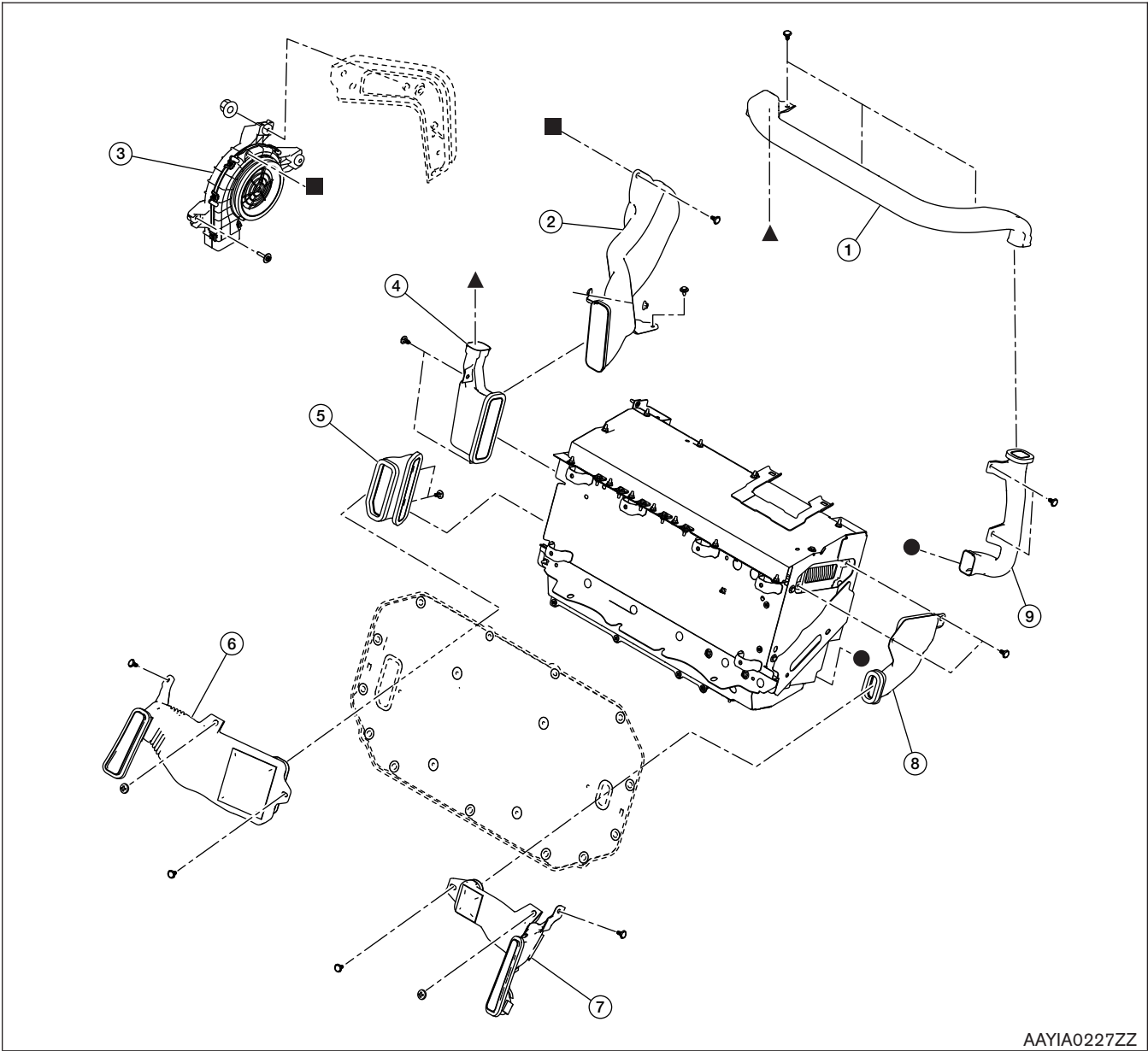
7. Trunk net hook

8. Trunk floor carpet

9. Trunk side finisher RH

10. Trunk side finisher lid

High-voltage Battery Cooling System Exploded View



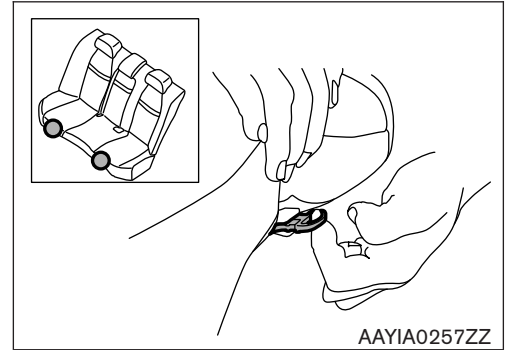
AAYIA0227ZZ

●, ▲, ■ : Indicates that the part is connected at points with same symbol in actual vehicle

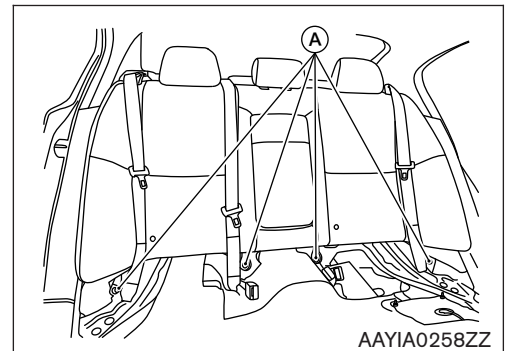
- | | | |
|--------------------------|--------------------------|-------------------------|
| 1. Battery outlet duct C | 2. Battery outlet duct B | 3. Battery cooling fan |
| 4. Battery outlet duct A | 5. Battery inlet duct B | 6. Battery inlet duct A |
| 7. Battery front duct | 8. DC/DC inlet duct | 9. DC/DC outlet duct |

6-2.2 Removal Procedure

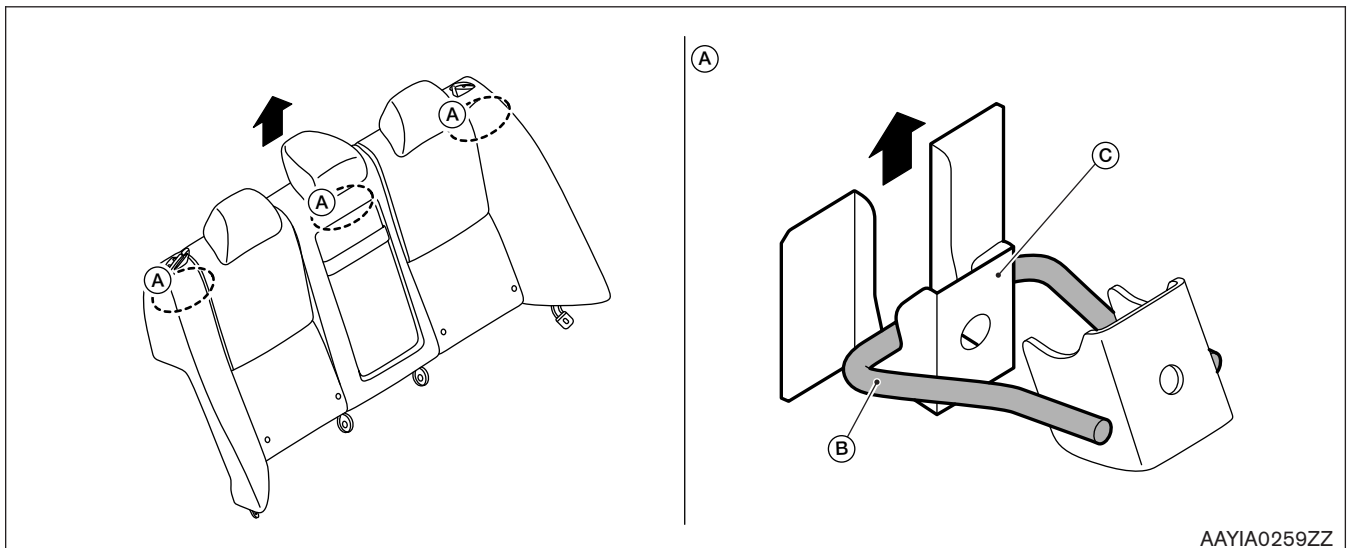
1. Discharge high-voltage battery. Refer to [3-3 Discharge Procedures \(DG-18\)](#)
2. Remove the service plug. Refer to [Alternate Procedure 2 \(Remove Service Plug\) \(DG-27\)](#).
3. Lift up seat cushion while pulling the seat cushion hook levers, and then disengage seat cushion hook.



4. Remove seat cushion from vehicle.
5. Remove seat belt from seat belt hook.
6. Remove seatback fixing nuts (A).

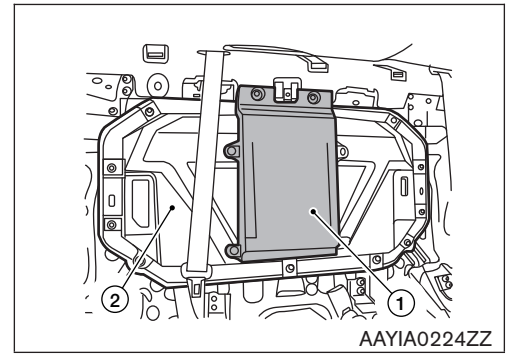


7. Lift up seatback, disengage seatback frame (B) from engaging portion (C), and then remove seatback.



8. Remove battery inlet duct A and battery front duct. Refer to the high-voltage Battery Cooling System Exploded View in [6-2.1 Exploded View \(DG-43\)](#).

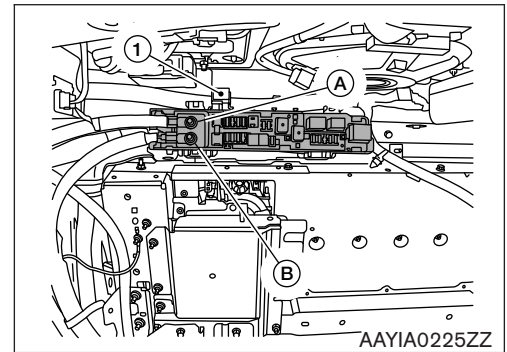
9. Remove the rear seat back finisher (1), and rear seat back plate (2).



10. Remove the trunk room finisher, trunk side finisher LH, and trunk side finisher RH. Refer to the Trunk Room Trim Exploded View in [6-2.1 Exploded View \(DG-43\)](#).

11. Remove fuse and fusible link box from high-voltage battery according to the following steps.

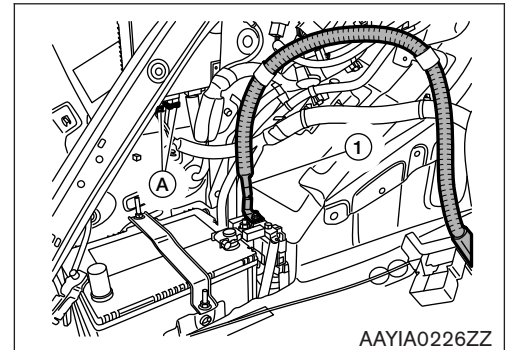
- Remove the fuse and fusible link box cover to remove harness mounting nuts (A) and (B).
- Remove the relay (1) from fuse and fusible link box.
- Remove the fuse and fusible link box from high-voltage battery, and move to side.



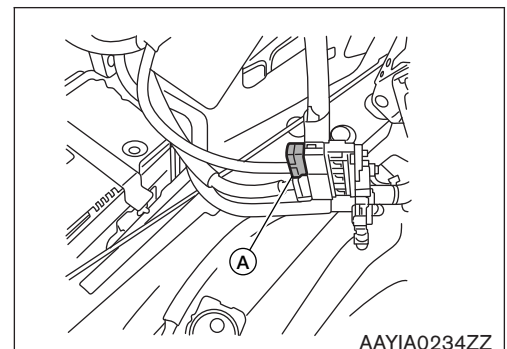
12. Remove the cover of 12-volt battery positive terminal.

13. Remove the DC/DC harness (1) from 12-volt battery.

14. Disconnect sub oil pump inverter harness connectors (A).



15. Disconnect positive terminal from 12-volt battery, and disconnect fusible link harness connector (12-volt battery side) (A).

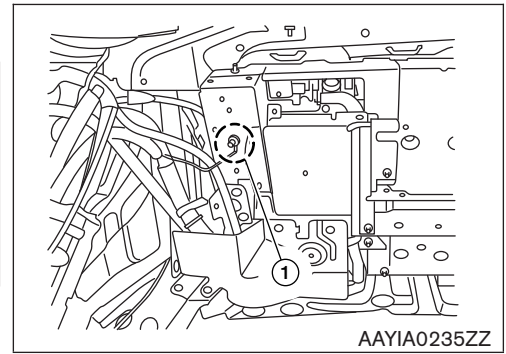


16. Remove the ground cable (1).



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

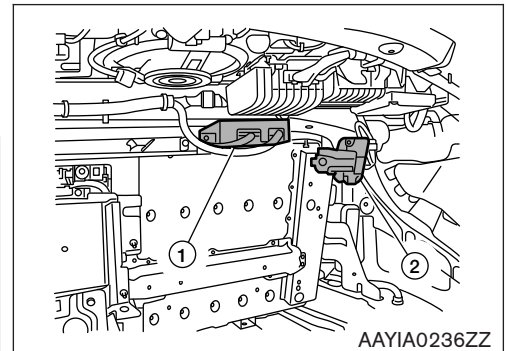


17. Remove the hybrid control unit (1) and Vehicle Sound for Pedestrians (VSP) control assembly (2) from high-voltage battery.



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

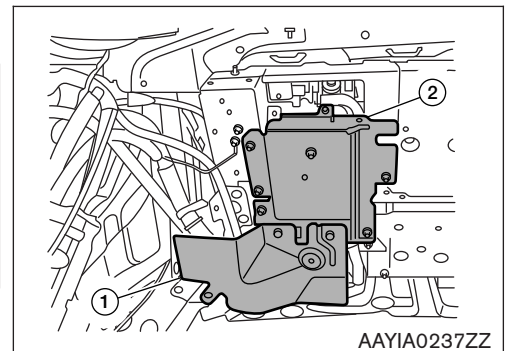


18. Remove the terminal covers (1) and (2).



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

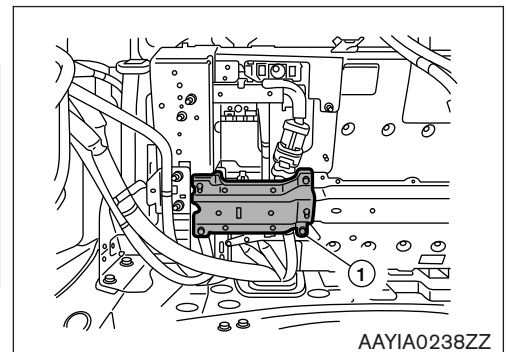


19. Remove the terminal cover (1).



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

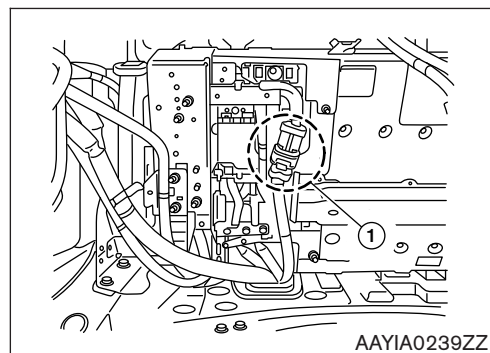


20. Disconnect A/C high-voltage harness (1).



DANGER

Immediately protect the terminals of the disconnected high-voltage harness connector socket using insulated tape so that they are not exposed.



DANGER

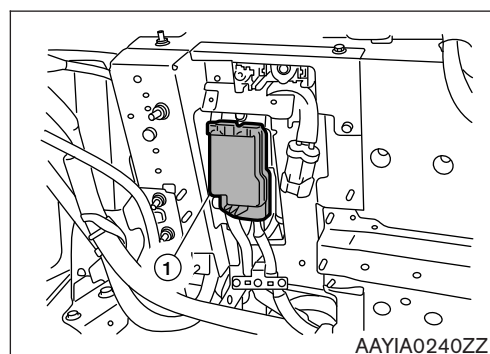
Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

21. Remove the high-voltage cover (1).



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

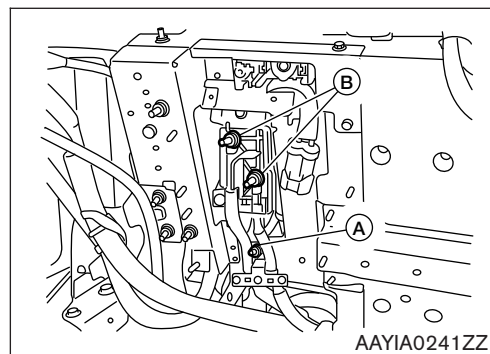


22. Remove the high-voltage harness bracket mounting nut (A) and high-voltage harness mounting nuts (B).



DANGER

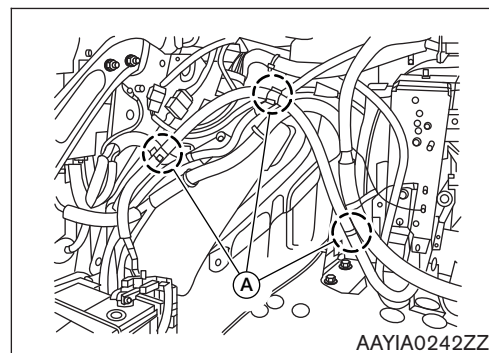
Immediately protect the terminals of the disconnected high-voltage harness connector socket using insulated tape so that they are not exposed.



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

23. Disconnect DC/DC harness clamps (A).

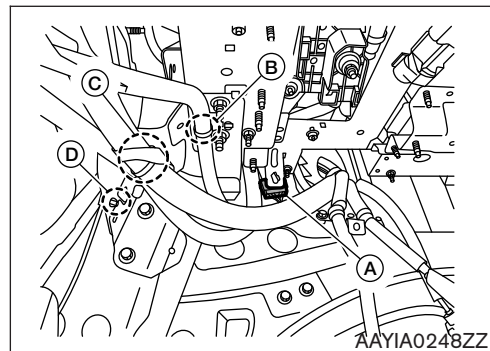


24. Disconnect battery controller harness connector (A) to remove clamps (B), (C), and (D) from bracket (LH).



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



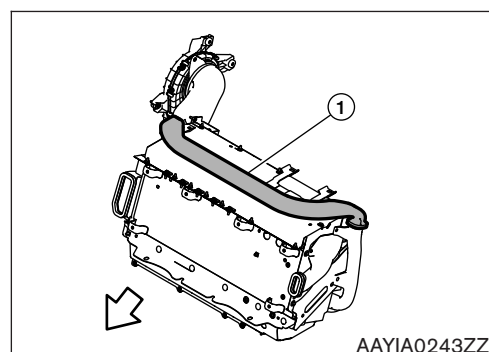
25. Remove battery outlet duct (1).

↶ : Vehicle front



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



26. Remove the bracket (LH) from high-voltage battery.

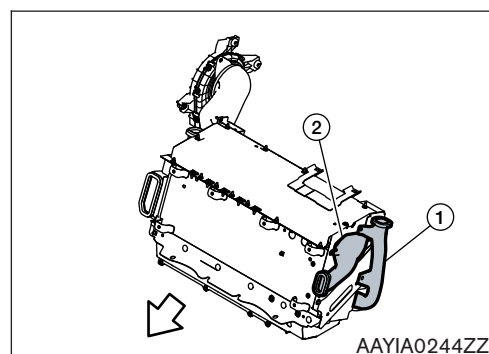
27. Remove the DC/DC outlet duct (1) and DC/DC inlet duct (2).

↶ : Vehicle front

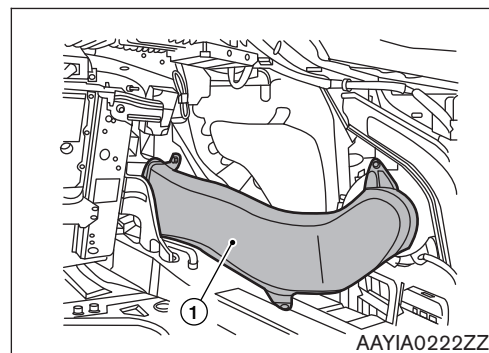


DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



28. Remove battery outlet duct (1).



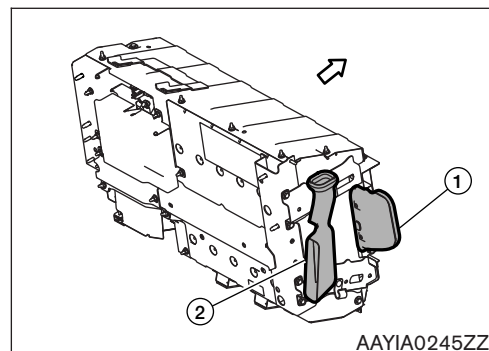
29. Remove the battery inlet duct B (1) and battery inlet duct A (2).

↶ : Vehicle front

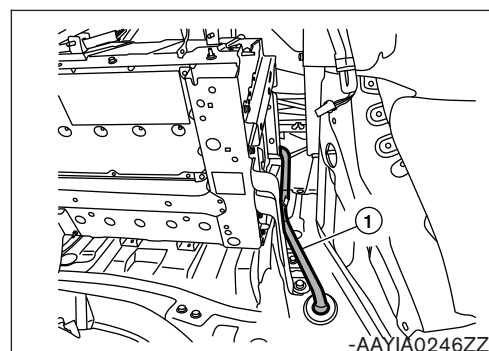


DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



30. Remove the gas discharge tube (1) from high-voltage battery.



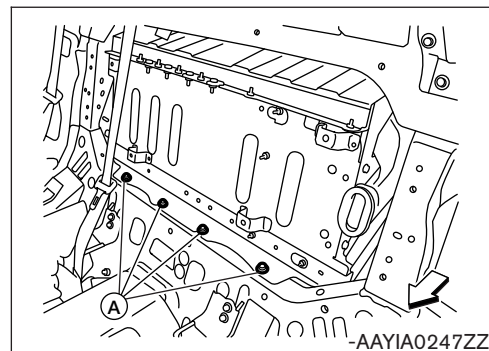
31. Remove the mounting bolts (A) of high-voltage battery.

↶ : Vehicle front



DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

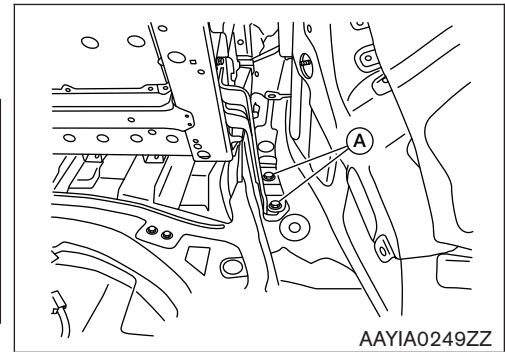


32. Remove the mounting bolts (A) of bracket (RH) on vehicle side.

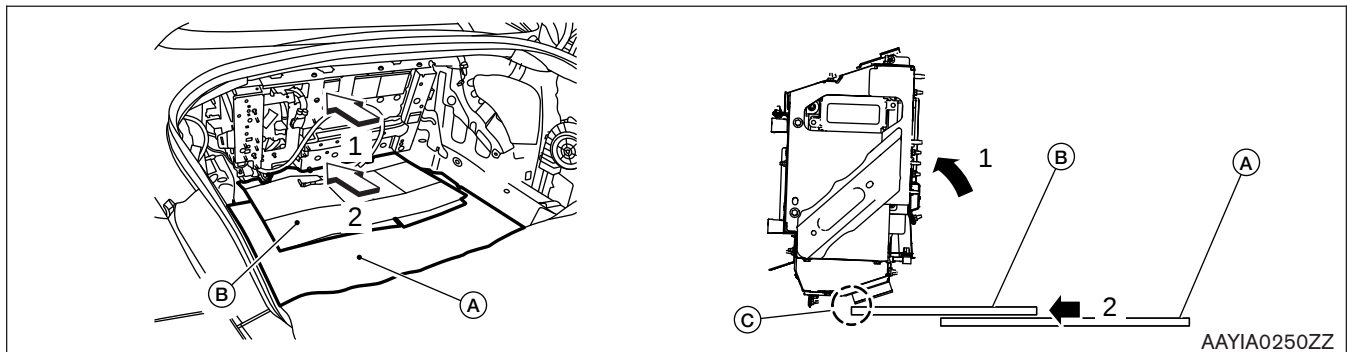


DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



33. Place a piece of plywood (A) in the trunk room as shown in the figure. Lift the battery pack in the direction (1) shown by arrow and slide (2) the cardboard (B) to location (C) to position it under the battery pack.



DANGER

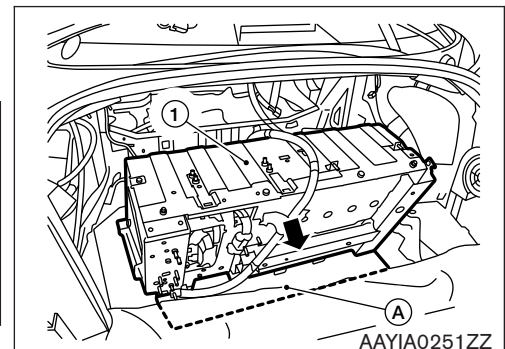
Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

34. Pull out battery pack (1) together with the cardboard (A) in the rear of vehicle.



DANGER

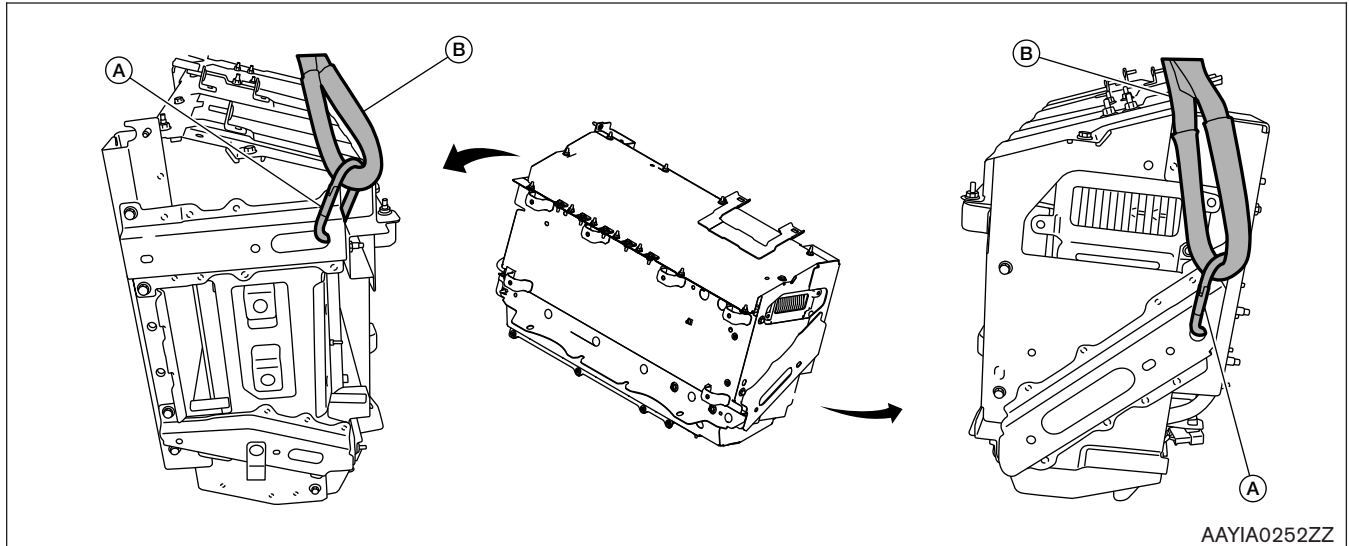
Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



CAUTION

Battery pack is in unstable condition. Never allow it to fall.

35. Follow the procedure below to remove the battery pack from inside the trunk room.
- Attach carabiners (A) of sufficient capacity to hold battery weight, in the positions as shown in the figure, then connect a belt slinger (B) to it.



⚠ DANGER

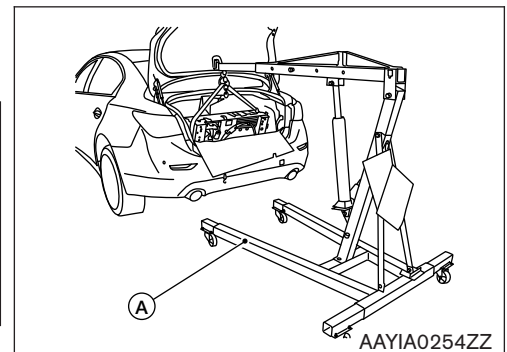
Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

- Slightly lift battery pack by using an engine crane (A).

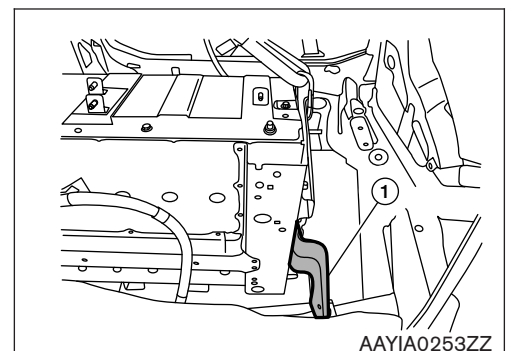


⚠ DANGER

Touching high-voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.



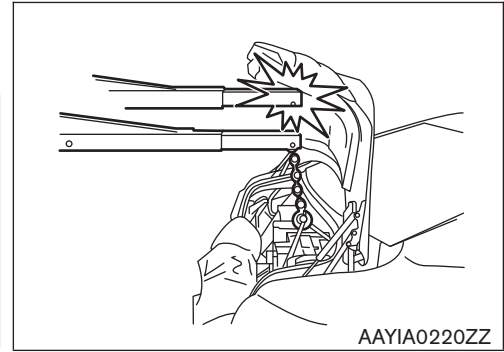
- Remove the bracket RH (1).



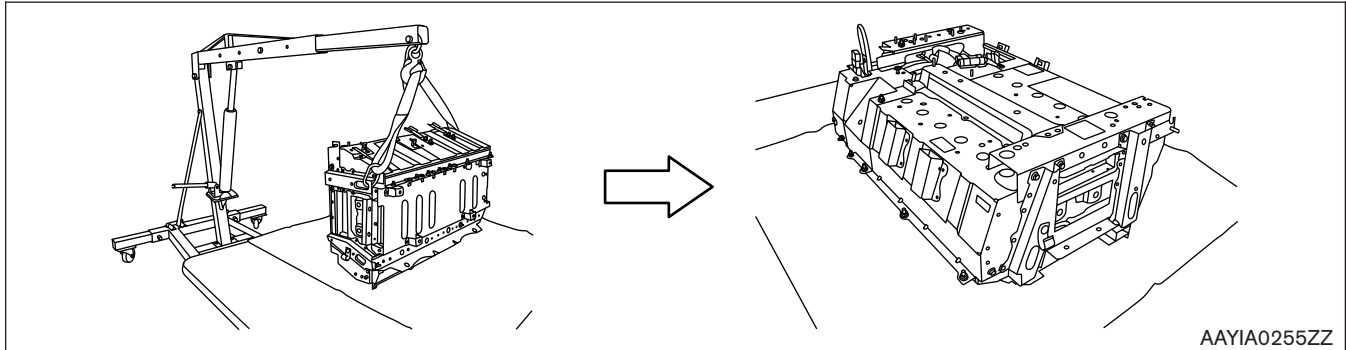
- d. Lift up the battery pack and remove it from the trunk room.

⚠ CAUTION

- Be careful that the engine crane does not contact the trunk lid.
- Apply protection so that no scratches or other damage occurs on the vehicle body or trunk lid.



36. Move battery pack to the workbench and place it with the upper battery cover up.



⚠ CAUTION

To avoid battery pack damage, gently lower battery pack when setting it on its side.

6-3 High-voltage Battery Recycling

The high-voltage battery is recyclable. For information regarding recycling of the high-voltage battery, contact the nearest INFINITI retailer or Infiniti Consumer Affairs at: United States: 1-800-662-6200 or in Canada: 1-800-361-4792.



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