INFINITI®

2016 Q50 HYBRID

Roadside Assistance Guide

Foreword

This manual describes roadside assistance 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 emergency responses will cause death or serious personal injury.**
Please read this manual in advance in order to understand the features of this vehicle and to help you deal with roadside assistance operations involving this vehicle. Follow the procedures in order to help assure a safe and successful roadside assistance 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.infinitiusa.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

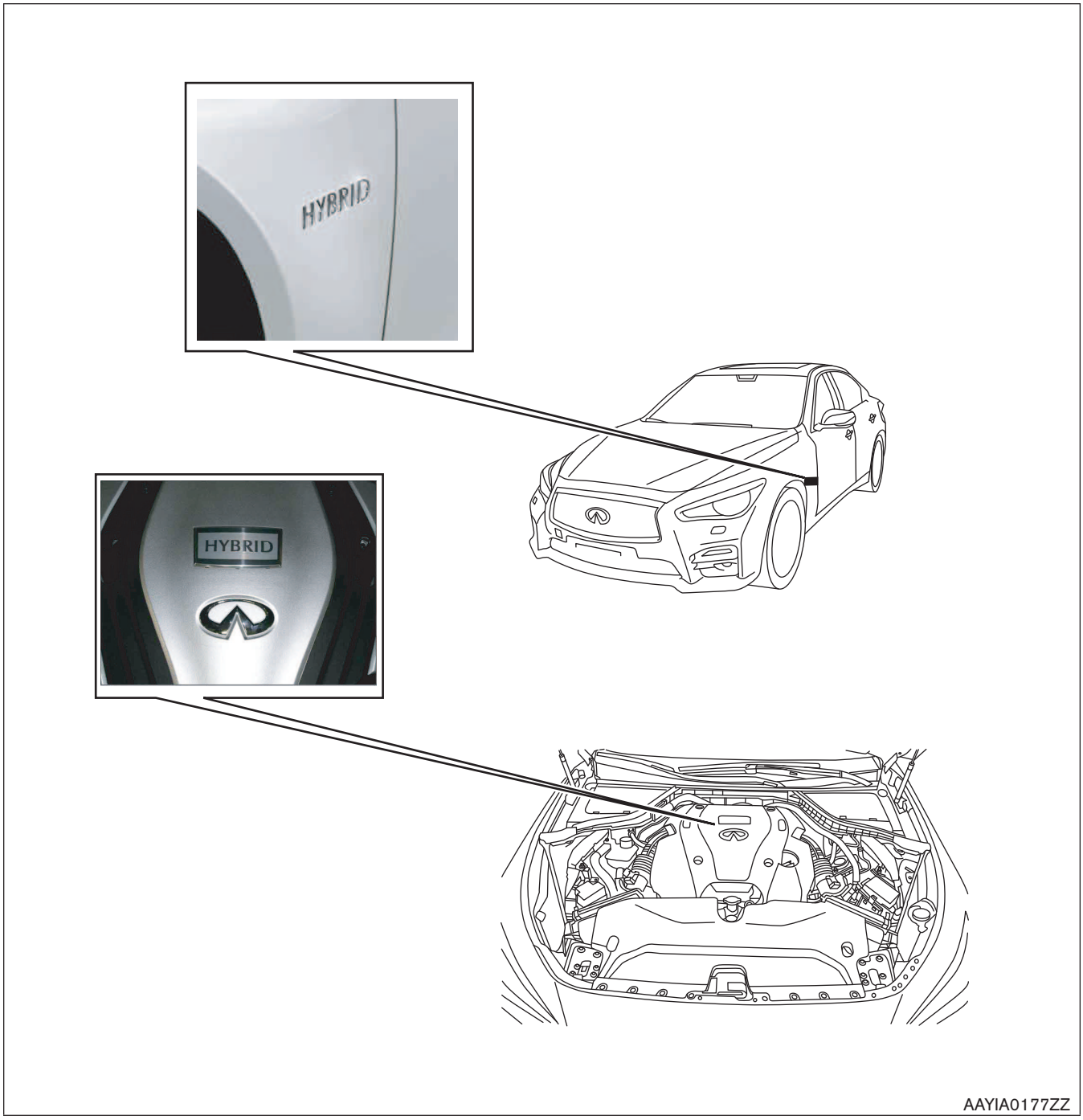
1. About the INFINITI Q50 HYBRID

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.

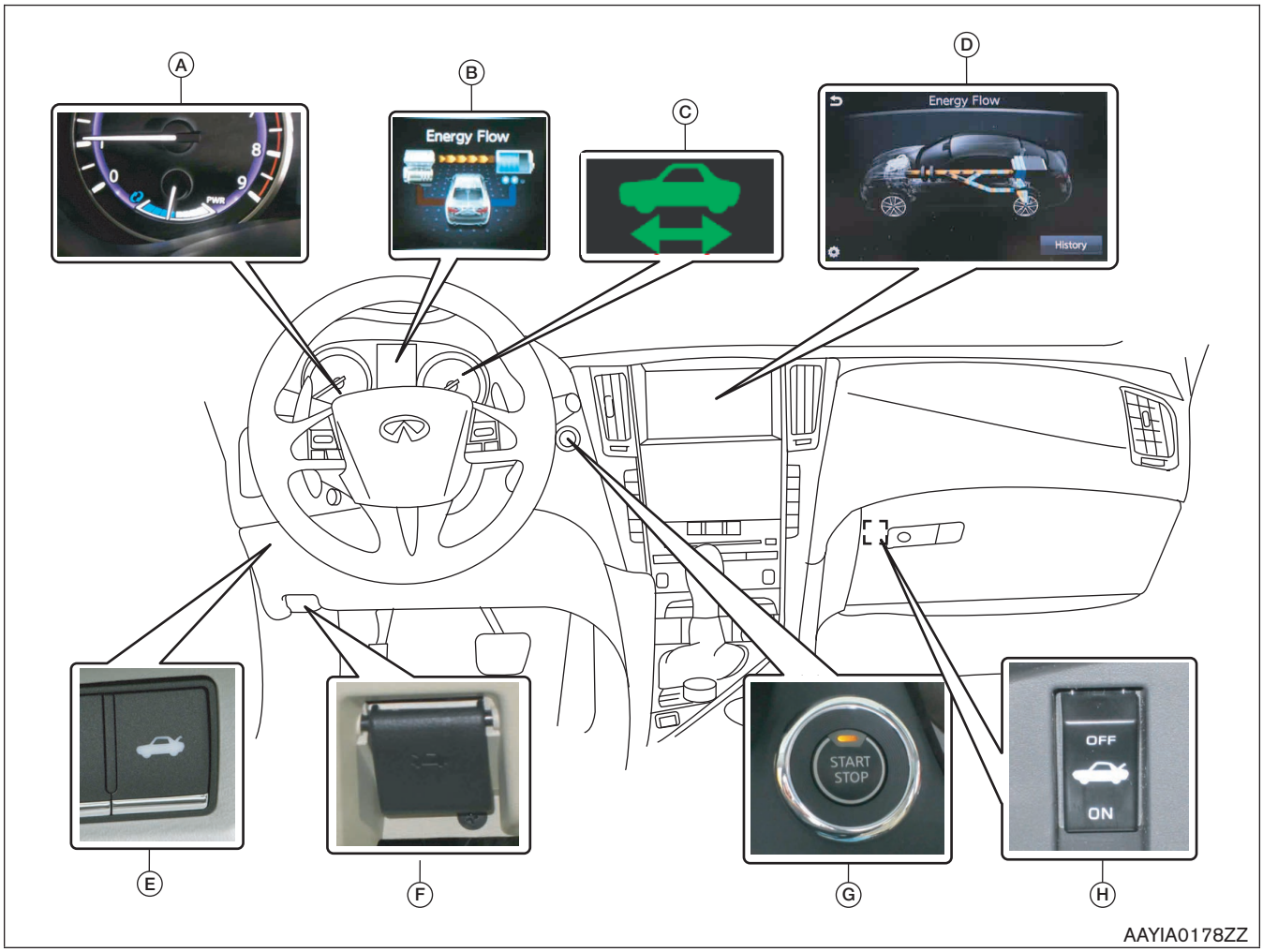
1-1 Q50 HYBRID IDENTIFICATION

1-1.1 Exterior and Engine Compartment



1-1.2 Interior

Interior components referenced in this manual are as follows:



A. Assist charge gauge
B. Energy flow display *1
C. READY indicator (green)
D. Energy flow display *1
E. Trunk lid release switch
F. Hood release handle
G. START/STOP switch and ON indicator lamp (orange)
H. Trunk release power cancel switch

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

1-2 Vehicle Identification Number (VIN) Layout

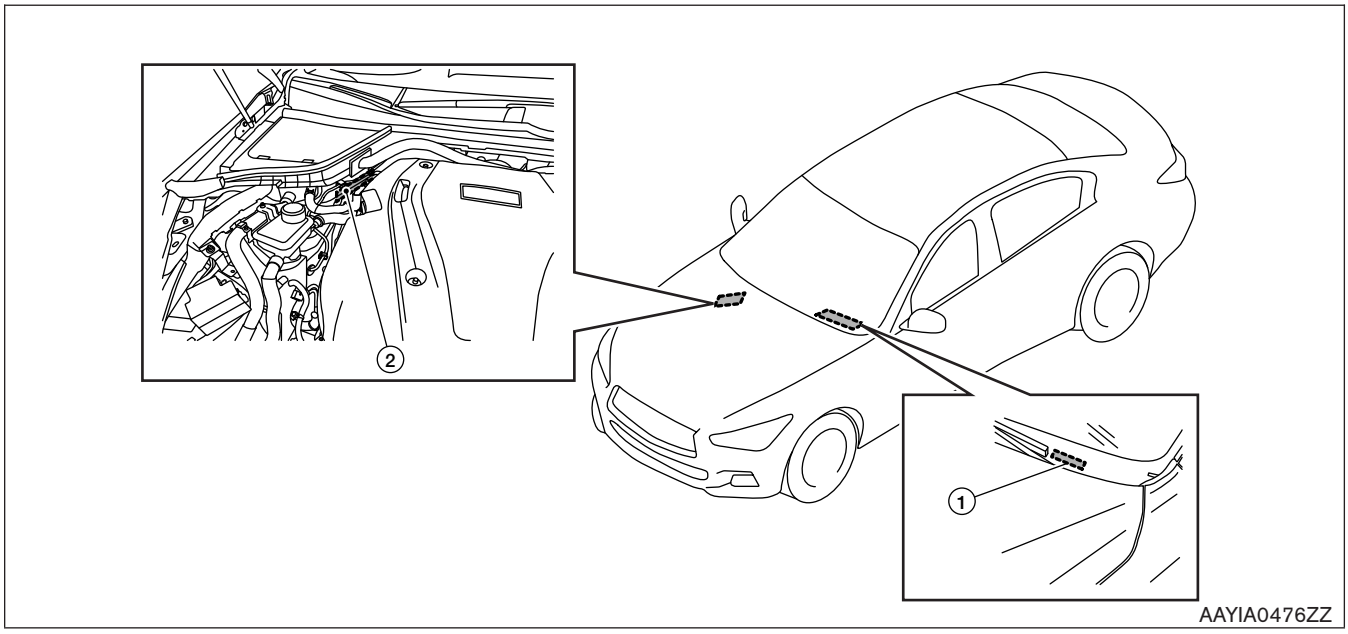
In exterior appearance the Q50 HYBRID is nearly identical to the conventional Infiniti Q50 series vehicles.

The vehicle identification number can be located as follows:

Example VIN : JN1 **A**V7AP4GM690008

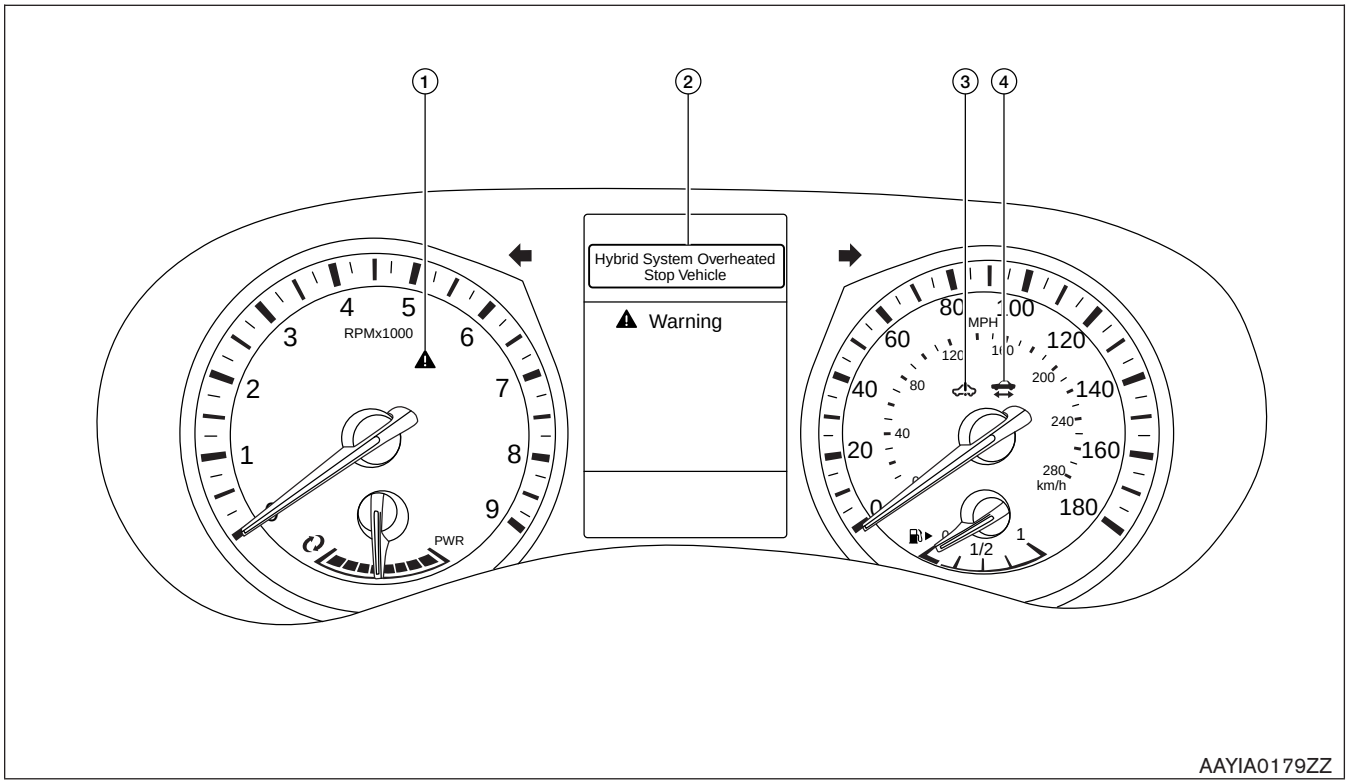
The Q50 HYBRID is identified by the 4th alphanumeric character: **A**

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.

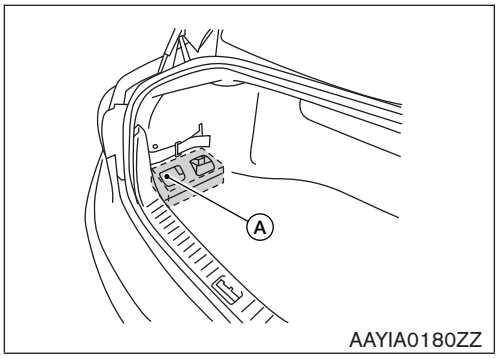
2. Basic High-voltage Information

2-1 Battery Information

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

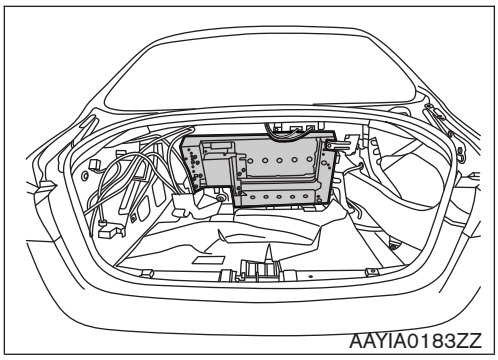
2-1.1 12-Volt Battery

- 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.

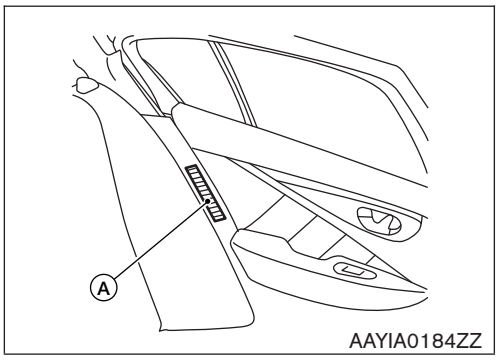


2-1.2 High-voltage Battery

- 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.



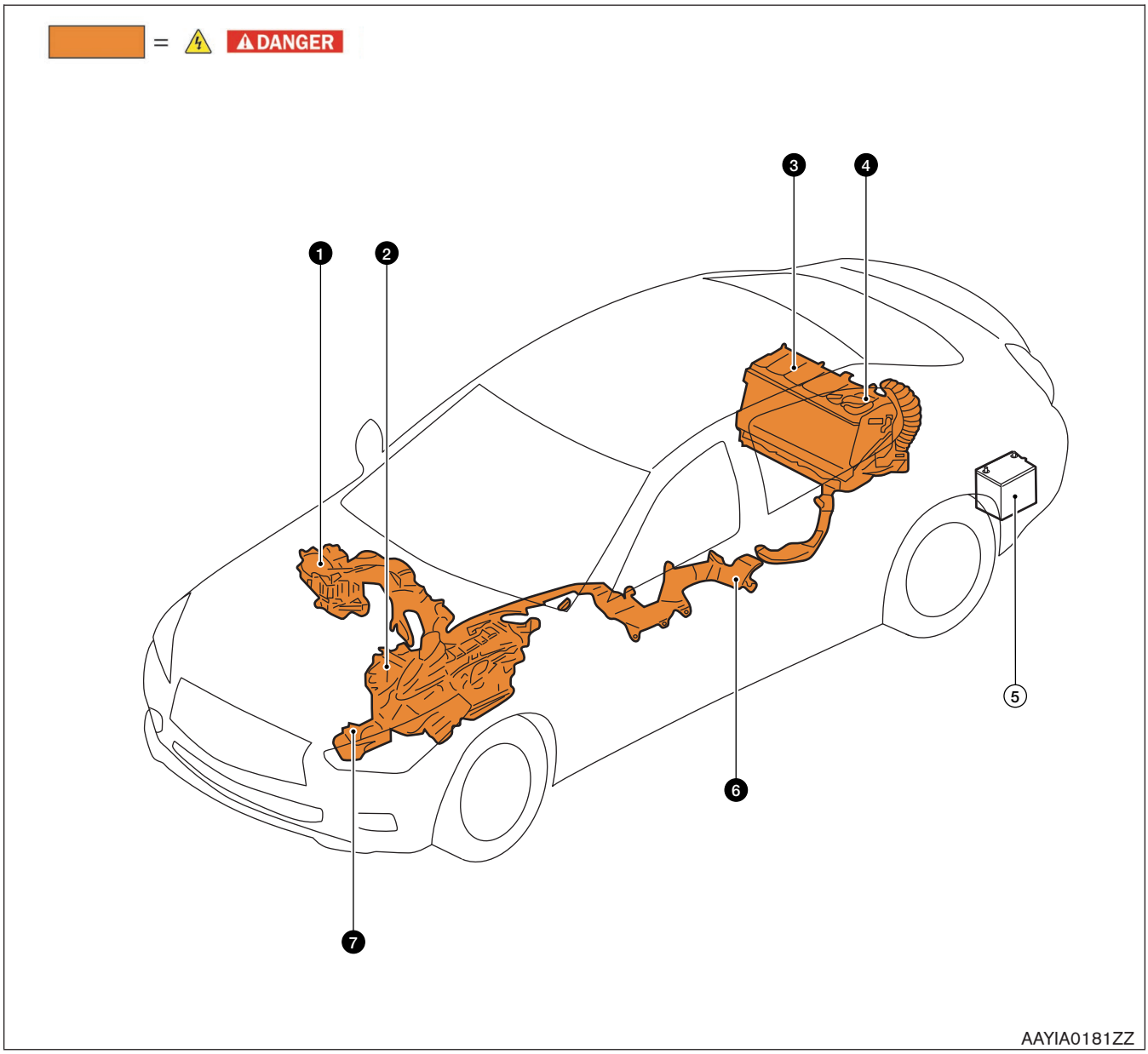
- An air vent (A) is located on the rear left hand lower C-pillar trim for battery cooling.



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.
⑤	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

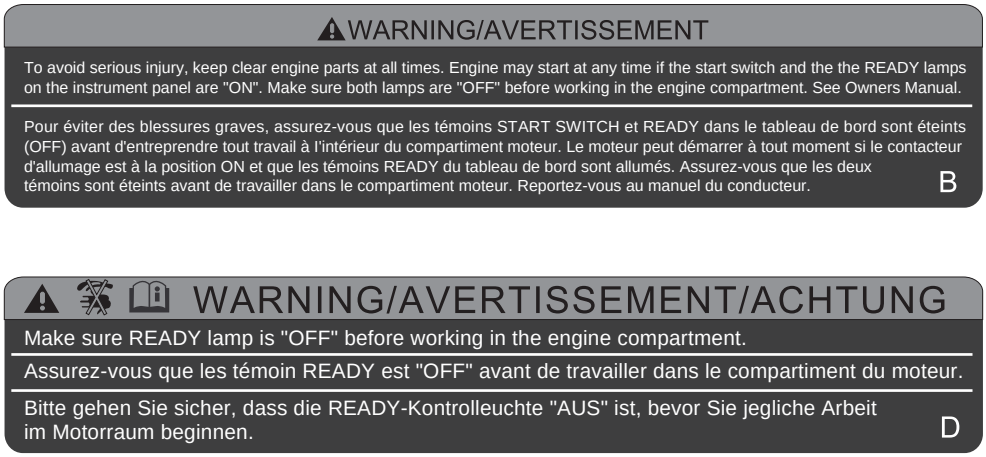
2-3 High-voltage Battery Pack Specifications

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 emergency responders 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



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3. Roadside Assistance Response Steps

⚠WARNING

- **NEVER assume the Q50 HYBRID is shut OFF simply because it is quiet.**
- **If the vehicle is damaged and you are not sure about the condition of the electric vehicle system, contact first responders immediately. If the vehicle is damaged, the high-voltage system should be shut down by first responders while following the procedures in the First Responders Guide and while wearing appropriate Personal Protective Equipment (PPE).**
- **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.**
- **Some of the under hood parts get hot and may cause serious burns. Use caution when working on or around these parts.**

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.

Preparation Items	Specification	Purpose
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.

3-1.1 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.

3-1.2 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)

3-1.3 Insulated Tools

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

3-2 Indications the High-voltage System is ON

If the READY indicator is ON, the high-voltage system is active.

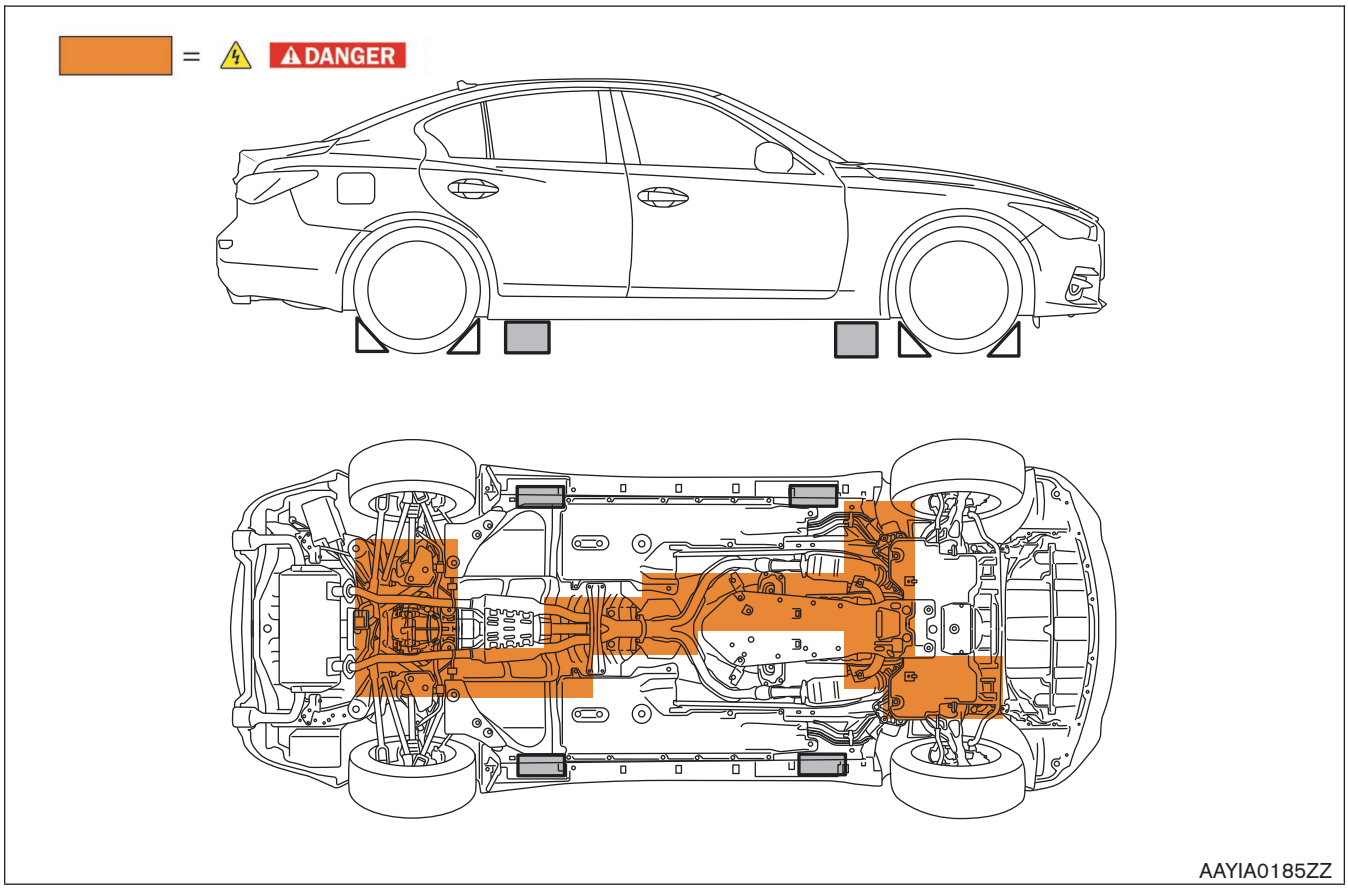
Before disconnecting the 12-volt battery terminal, if necessary, lower the windows, unlock the doors, and open the rear hatch as required. Once 12-volt battery is disconnected, power controls will not operate.

3-3 Vehicle Immobilization and Stabilization

If possible, immobilize the vehicle by turning the 12-volt system OFF and stabilize it with a wheel chock(s). Stabilize the vehicle with wooden blocks or by removing air from the tires.

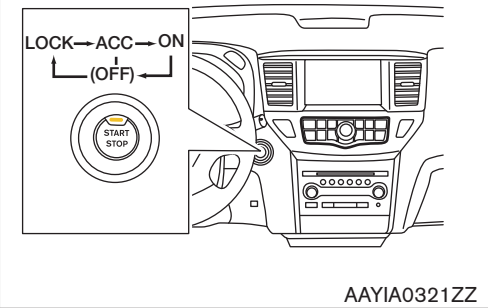
⚠WARNING

- **To avoid electrical shock, do not put wooden blocks or wheel chock(s) under the high-voltage components and harnesses as shown following.**



3-4 Turning OFF the Ignition Switch

1. Check the READY indicator status. If it is ON, the high-voltage system is active.
2. Press the ignition switch once to turn OFF the high-voltage system. Then verify whether the READY indicator is OFF.



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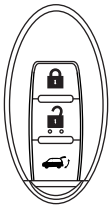
3. If possible, keep the Infiniti Intelligent Key at least 5 meters (16 feet) away from the vehicle to prevent accidentally turning ON the hybrid system while the roadside assistance is in progress.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3-5 Water Submersion

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.**
- **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.**

Only first responders wearing appropriate Personal Protective Equipment (PPE) should shut down the vehicle. After shut down, standard towing/recovery procedures can be used. Refer to 4-3 Towing (RAG–24) .

3-6 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.

3-7 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. Roadside Assistance

4-1 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.

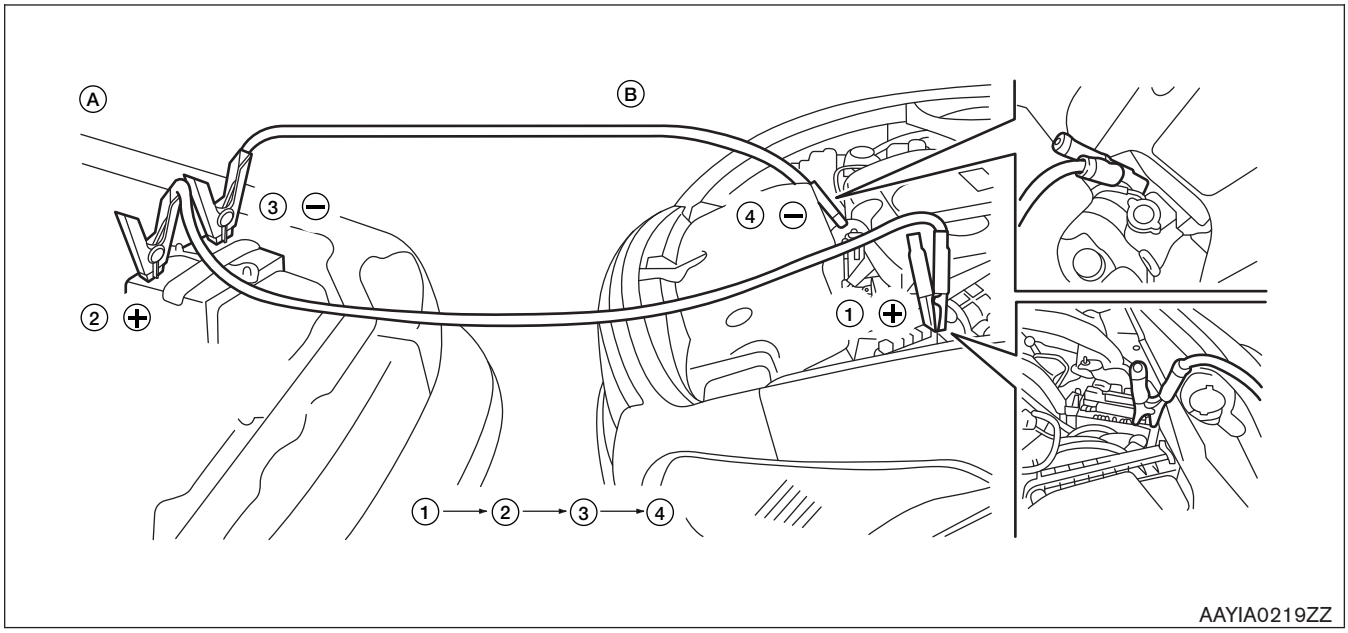
Discharged 12-volt battery may cause the following issues:

- 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.**

4-1.1 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.

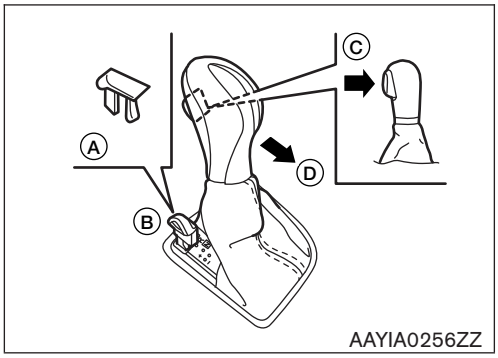
NOTE:

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

4-1.2 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.

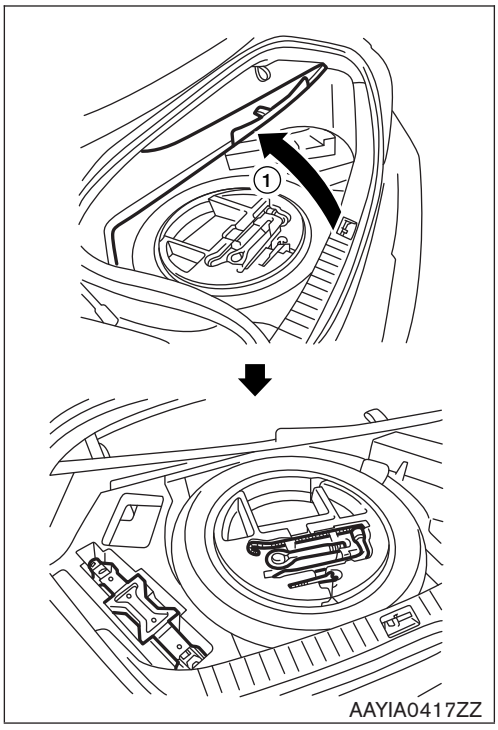


4-2 Tools Installed in the Vehicle

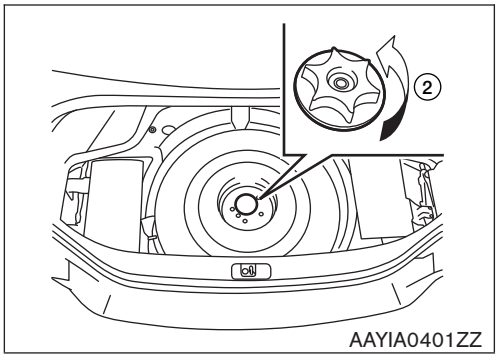
Tools (if so equipped):

The tools are located in the trunk area.

- Raise the trunk floor cover (1).



- Remove jacking tools located inside the trunk as illustrated.



Spare tire (if so equipped):

The spare tire is located under the trunk floor cover.

- Remove the clamp (2) holding the spare tire.

4-3 Towing

4-3.1 Vehicle Specifications

Length	Premium models		188.6 in. (4,790 mm) *1
			188.3 in. (4782 mm) *2
	Sport models		189.1 in. (4,802 mm)
Width			71.8 in. (1,823 mm)
Overall Height			56.8 in. (1,443 mm) *3
			57.2 in. (1,453 mm) *4
Wheel Base			112.2 in. (2,850 mm)
Minimum ground clearance			5.1 in. (130.2 mm) *3
			4.8 in. (122.0 mm) *4
Overall vehicle weight			3,902 - 4,365 lbs. (1,770 - 1,980 kg) (Weight varies by equipment and trim level.)
Front approach angle	Tire size	17 inch	16.0° *3
			16.6° *4
		19 inch	15.7° *3
			16.4° *4
Rear departure angle	Tire size	17 inch	16.2° *3
			16.8° *4
		19 inch	16.2° *3
			16.8° *4

*1 With front license plate

*2 Without front license plate

*3: 2WD models

*4: AWD models

4-3.2 Towing Guidelines

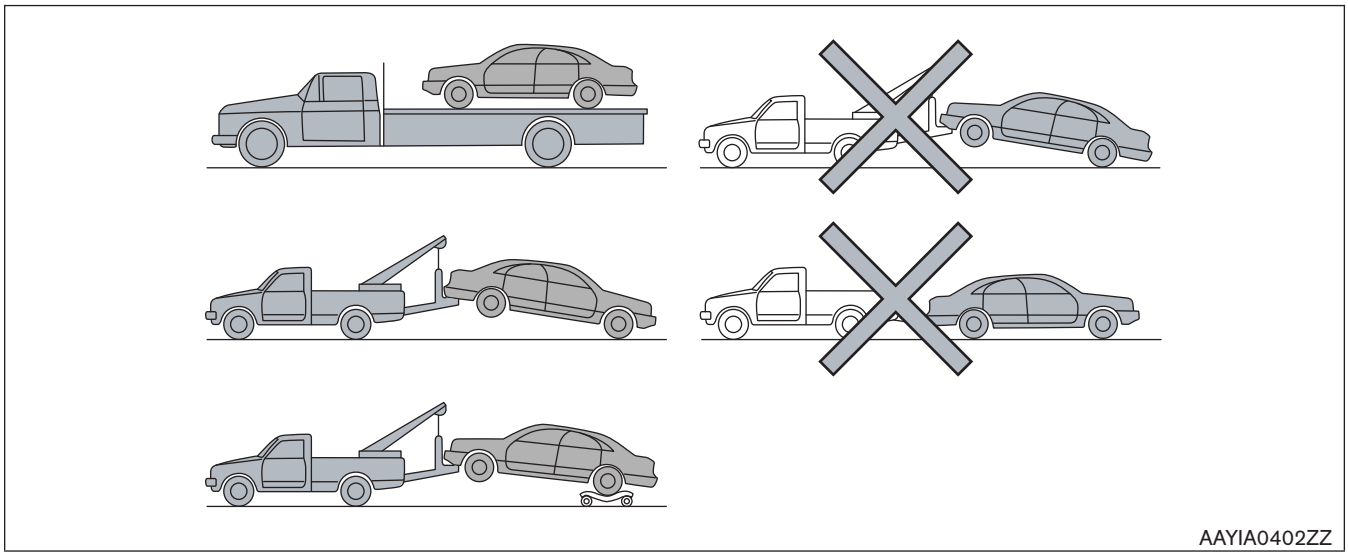
Infiniti strongly recommends that Q50 HYBRID be towed with the driving (rear) wheels off the ground or that a dolly be used as illustrated.

⚠CAUTION

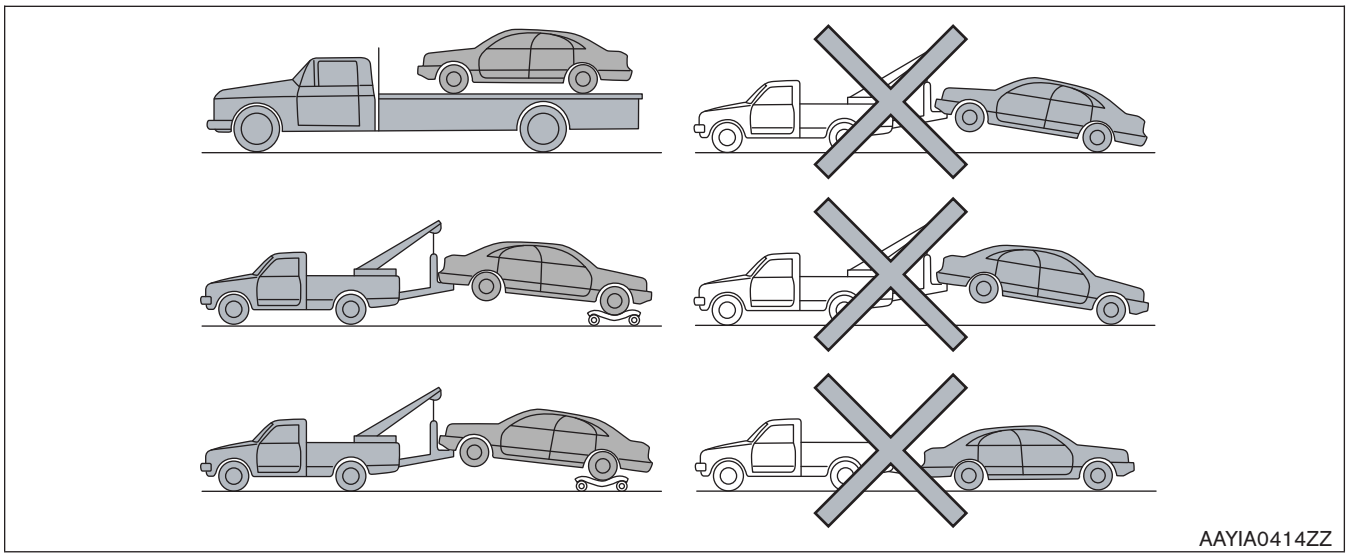
- **Never tow with the rear wheels on the ground or four (4) wheels on the ground (forward or backward), as this may cause serious and expensive damage to the motor.**
- **Never tow AWD models with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.**
- **Transport the vehicle only after turning the ignition switch OFF.**
- **Safety chains or cables must be attached only to the vehicle recovery hook or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.**
- **Do not use the vehicle tie down hook to free a vehicle stuck in sand, snow, mud, etc.**
- **Never tow a vehicle using the vehicle tie down hook or recovery hook.**
- **Always pull the cable straight out from the front of the vehicle. Never pull on the vehicle at an angle.**
- **Pulling devices should be routed so they do not touch any part of the suspension, steering, brake, high-voltage or cooling systems.**
- **Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.**

Perform vehicle towing by holding up drive (rear) wheels or on flatbed in order to prevent secondary damage from voltage generated by the motor. In addition, turn the ignition switch OFF when towing the vehicle. Refer to the following illustrations:

2WD models



AWD models



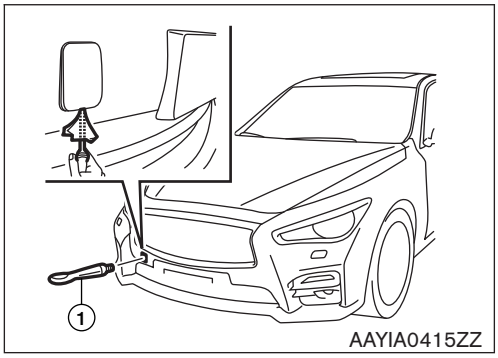
NOTE:

It is also permissible to transport the Q50 facing rearward on a flatbed. If the vehicle cannot be placed in Neutral, a P (Park) release procedure may be required. Refer to 4-1.2 Shift Selector Lever Lock Release (RAG–22).

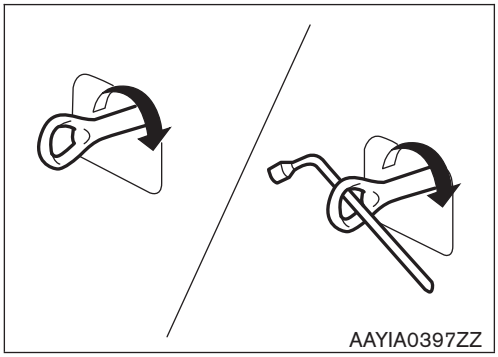
4-3.3 Use of Vehicle Equipped Hooks for Recovery Operations

Front:

1. Using a suitable tool wrapped with a protective cloth, remove the recovery hook cover from the bumper.



2. Securely install the recovery hook as illustrated. The recovery hook is located in the tool kit in the trunk area.



⚠WARNING

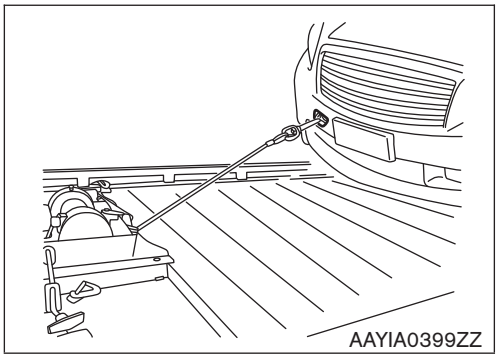
Failure to securely install the recovery hook may result in serious personal injury or death and/or vehicle damage.

3. Attach the winch cable securely to the recovery hook.

⚠WARNING

Failure to securely attach the winch cable to the recovery hook may result in serious personal injury or death and/or vehicle damage.

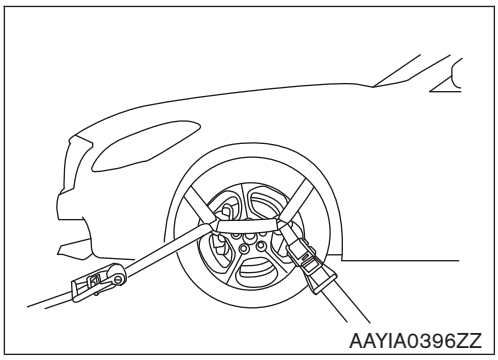
4. Make sure the winch cable remains fully connected to the recovery hook and does not interfere with surrounding area, take up the slack from the cable.
5. Release the parking brake.
6. Place the selector lever in the N (Neutral) position. Refer to 4-1.2 Shift Selector Lever Lock Release (RAG–22).
7. Carefully pull the vehicle onto the flatbed.
8. Be careful not to pull the vehicle too close to the winch. Doing so will cause excessive downward force being applied to the recovery hook. Too much downward force may result in vehicle damage. Lower the flatbed and finish rolling the vehicle forward if necessary.



9. Secure the vehicle to the flatbed by using wheel baskets at all 4 wheel positions.
10. Make sure that the vehicle recovery hook is properly secured in its original position after use and the recovery hook cover has been reinstalled properly.

NOTE:

To help prevent squeaks and rattles, check that the tools are reinstalled and properly secured in the stored place after use.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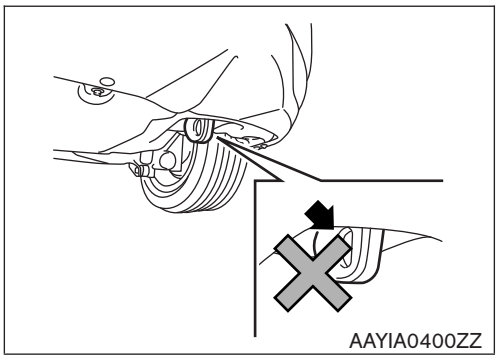
Rear Tie Down Hook:

The recovery hook is located in the tool kit in the trunk area.

Do not use the rear tie down hook for towing or vehicle recovery.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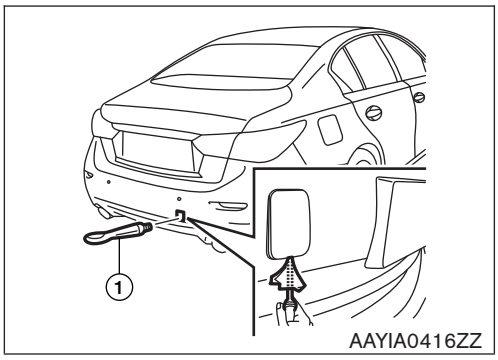
1. Using a suitable tool wrapped with a protective cloth, remove the recovery hook cover from the bumper.
2. Securely install the recovery hook (1) as illustrated.
3. Make sure that the vehicle recovery hook is properly secured in its original position after use and the recovery hook cover has been reinstalled properly.

NOTE:

To help prevent squeaks and rattles, check that the tools are reinstalled and properly secured in the stored place after use.



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4-4 Jacking Up the Vehicle and Changing a Tire

The Q50 is factory equipped with run-flat tires. It is not equipped with a jack or spare tire as standard equipment. However, the following jacking instructions apply when using the optional Infiniti jack.

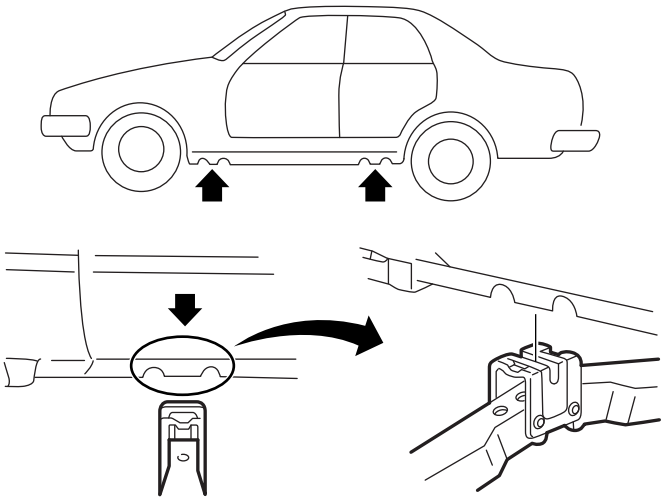
⚠WARNING

Always follow these instructions when jacking up the vehicle and changing a tire:

- **Never change a tire when the vehicle is on a slope, ice or slippery areas. Jack must be on level ground.**
- **Make sure the parking brake is securely applied and shift selector is in P (Park) position.**
- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack. It may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**
- **Never run the engine with a wheel(s) off the ground. It may cause the vehicle to move.**
- **Be sure to block the wheel diagonally opposite the wheel being removed as the vehicle may move and result in personal injury.**

Failure to follow these instructions can result in serious personal injury or death and/or vehicle damage.

1. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the



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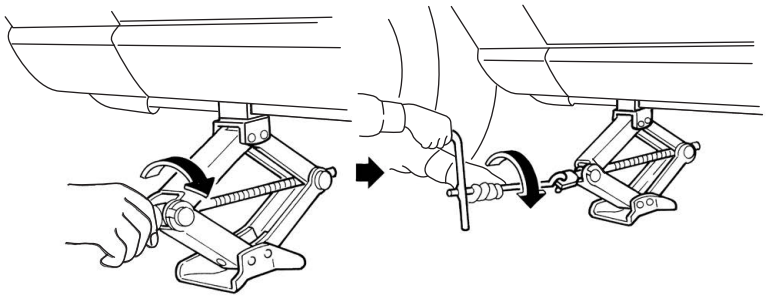
vehicle at the jack-up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown. **The jack should be used on level firm ground.**

2. Loosen each wheel nut one or two turns by turning it counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**

3. To lift the vehicle, securely hold the jack lever and rod with both hands as shown. Carefully raise the vehicle until the tire clears the ground. Remove the wheel nuts, and then remove the tire.



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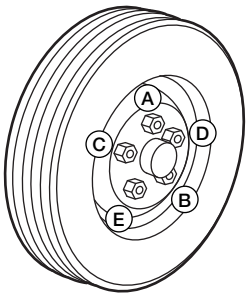
4. Install new or repaired tire and hand-tighten the wheel nuts with the wheel nut wrench in an alternating pattern.



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⚠WARNING

Always follow these instructions when changing a tire:

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**

Failure to follow these instructions can result in serious personal injury or death and/or vehicle damage.

5. Securely torque the wheel nuts in an alternating pattern to 80 ft-lb (108 Nm).
6. Lower the vehicle and remove the jack and securely store the flat tire, tools and jacking equipment in the vehicle.

⚠WARNING

Always follow these instructions when using the jacking equipment or after changing a tire:

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**

Failure to follow these instructions can result in serious personal injury or death and/or vehicle damage.

NOTE:

To help prevent squeaks and rattles, check that the tools are reinstalled and properly secured in the stored place after use.

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.

5-1 Danger Sign Example

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 5-2 Remove Service Plug (RAG–33)] and a sign put on the vehicle indicating it is a hybrid vehicle with high-voltage dangers. For example:

Person in charge:_____

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

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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5-2 Remove Service Plug

DANGER

- **Do not remove the service plug without always wearing appropriate Personal Protective Equipment (PPE) to help protect the responder 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.**

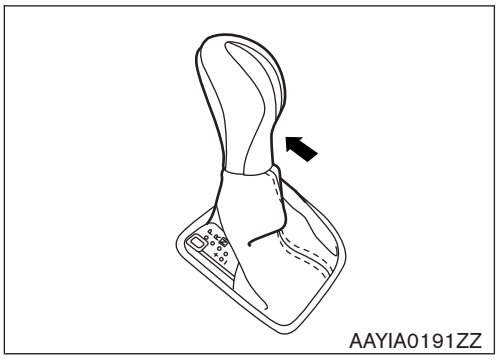
WARNING

To avoid unintended reinstallation and risk of electrical shock and severe personal injury or death, the service plug should be securely stored away from the vehicle while the vehicle is in storage.

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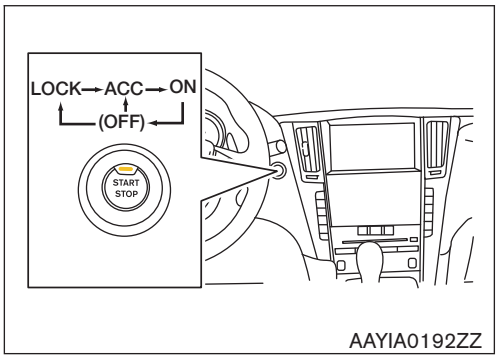
3. Push the ignition switch once to turn OFF the high-voltage system. Then verify whether the READY indicator is off.

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



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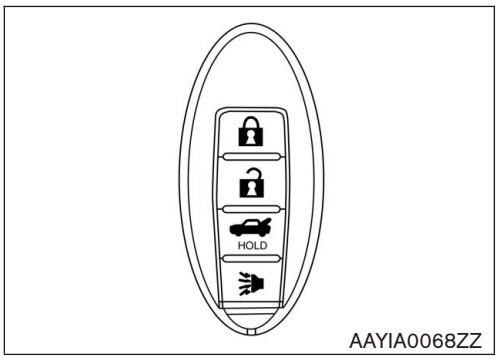
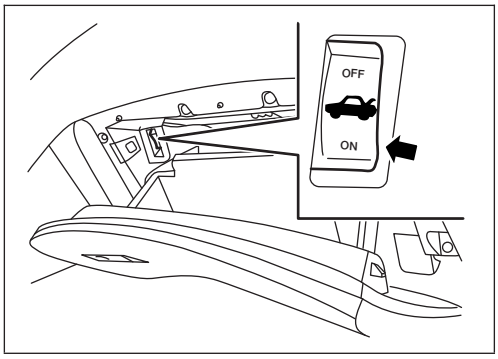
4. If possible, keep the Infiniti Intelligent Key at least 5 meters (16 feet) away from the vehicle (except to open the trunk as noted below).

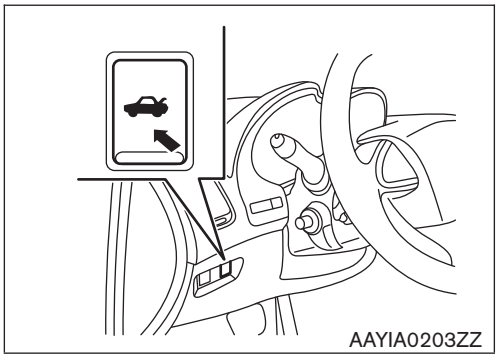


5. Open the trunk using any of the following:

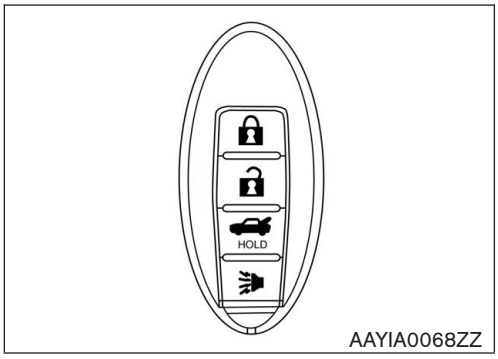
NOTE:
The trunk release power cancel switch must be in the ON position in order for the trunk to be opened using any of the methods below.



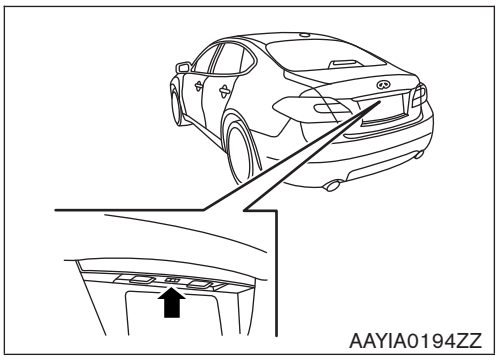
a. push-button switch on the lower LH side of the instrument panel.



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



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

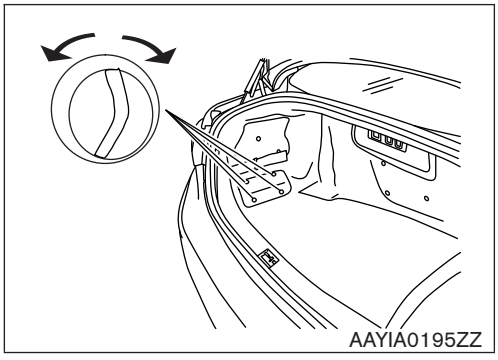


Method	Shift Selector Position	Ignition Switch Status
a	P or N	Any
b	P	OFF
c*	Any	Any

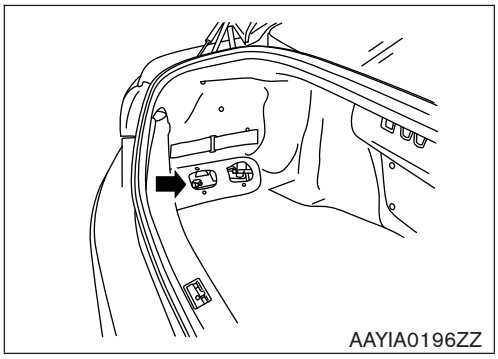
* You must have the Infiniti Intelligent Key within approximately 1 meter (3 feet) range of trunk request switch to use the trunk open request switch function.

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

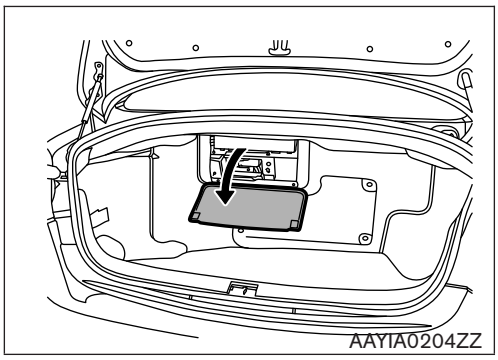
6. Open the 12-volt battery service access cover.



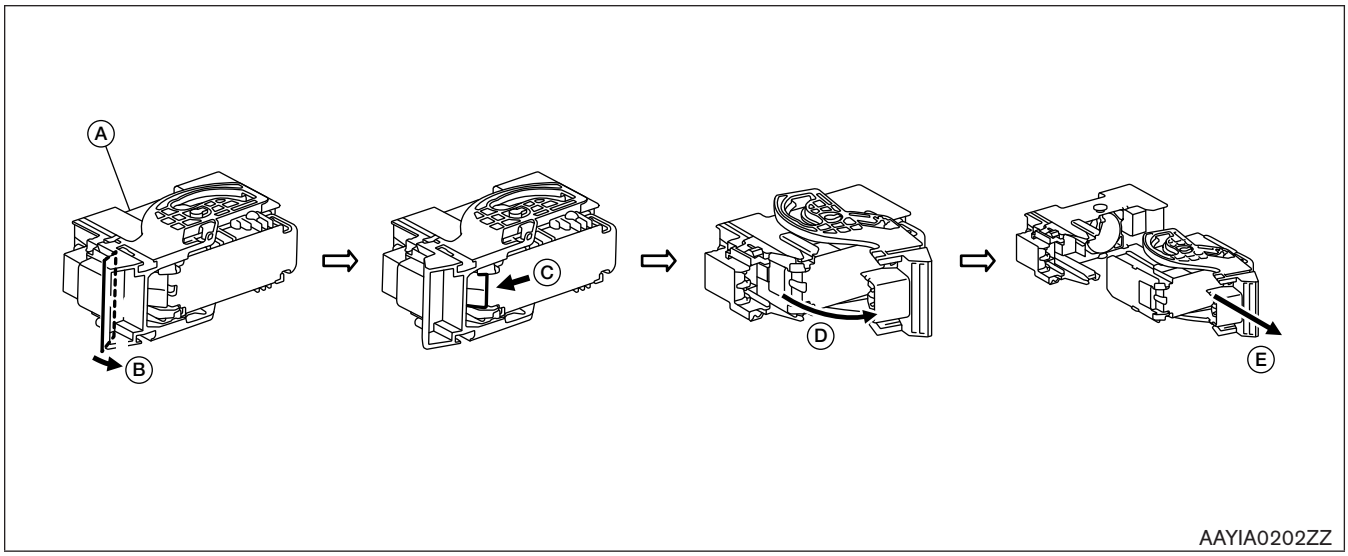
7. Disconnect negative (-) battery cable and cover it with insulated tape.



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. The vehicle is now ready for storage.

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