

First Responder's Guide



Foreword

This manual describes first response operations and warnings and cautions for this vehicle.

This vehicle is equipped with a high voltage Lithium-ion (Li-on) 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 incidents involving this vehicle. Follow the procedures in order to help assure a successful first response operation.

INFINITI EMERGENCY CONTACT INFORMATION

- 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:

A 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.

AWARNING

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

ACAUTION

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. In such a case, follow this manual.

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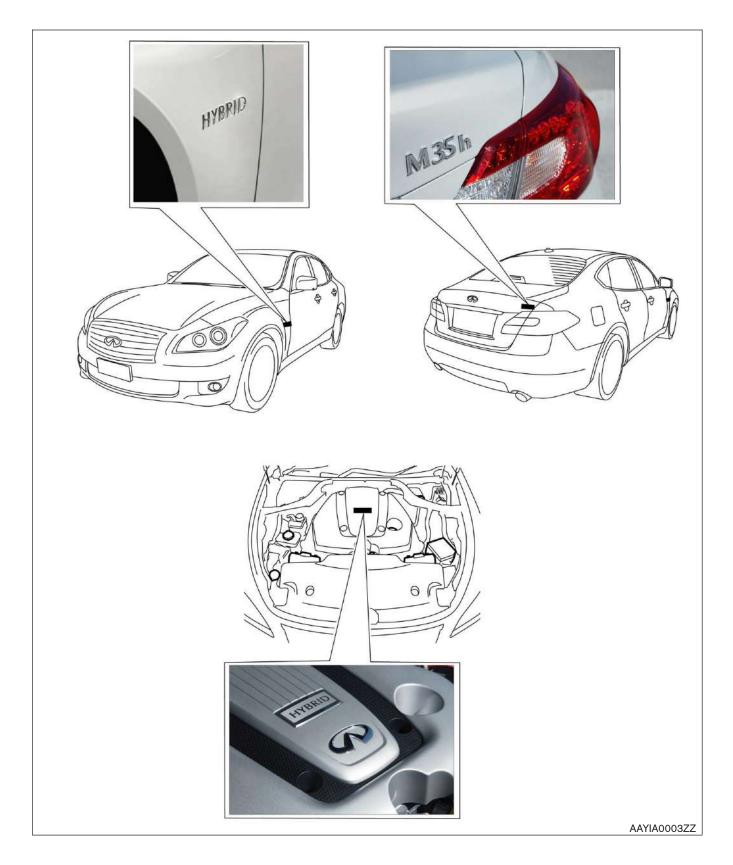
1. About the INFINITI M35h HYBRID

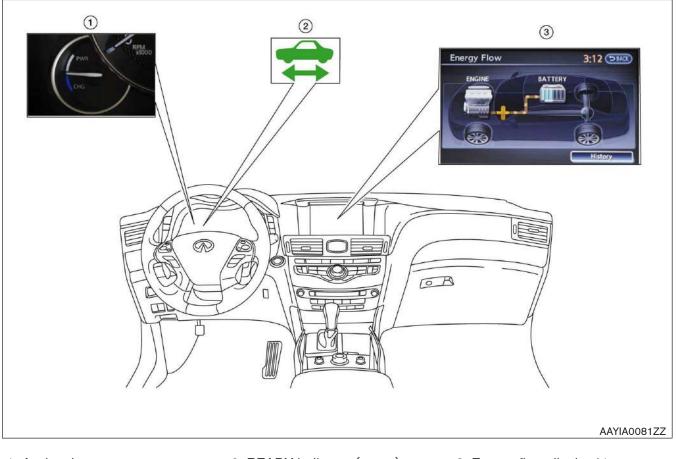
This hybrid electric vehicle (HEV) uses two types of batteries. One is a 12V battery that is the same as the battery in vehicles powered by internal combustion engines. The 12V battery is located behind the rear seat back with battery cable access through the trunk area. The other is the Lithium-ion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

The high voltage Li-ion battery is recharged with an on-board DC/DC converter and generator powered by the engine. Additionally, the vehicle system can recharge the Li-ion battery by converting driving force into electricity while the vehicle is decelerating or being driven downhill. This is called regenerative charging.

1-1 M35h HYBRID IDENTIFICATION

1-1.1 Exterior and Engine Compartment





1. Assist charge gauge2. READY indicator (green)3. Energy flow display *1*1: This screen may not be displayed due to customer settings.

1-2 Vehicle Identification Number (VIN) Layout

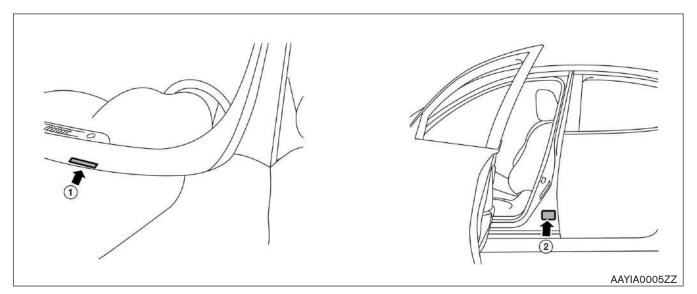
In exterior appearance the M35h HYBRID is nearly identical to the conventional INFINITI M series vehicles.

The vehicle identification number can be located as follows:

Example VIN : JN1EY1APXCM005523

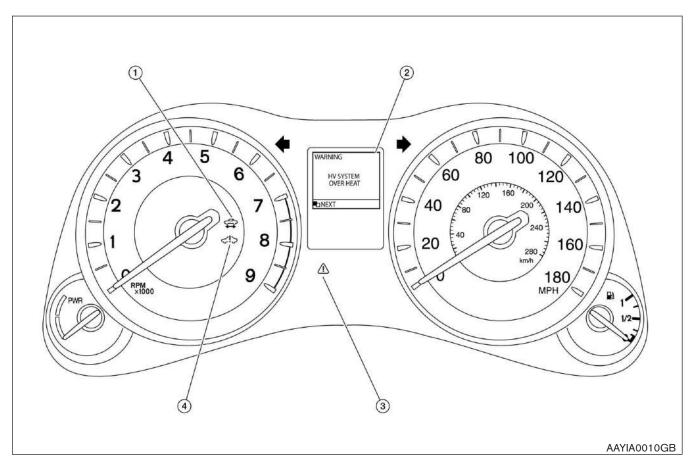
The M35h HYBRID is identified by the 4th alphanumeric character: E

E = M35h HYBRID



- 1. VIN plate (visible through windshield)
- 2. Vehicle certification plate (lower center pillar)

1-3 Warning and Indicator Lamp Information



- 1. READY Indicator (Green)
- 3. Master Warning Lamp (Orange or Red)

2. HV System Overheat Warning (Dot Matrix Liquid Crystal Display)

4. Hybrid System Warning Lamp (Orange)

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.

Lamp Name	lcon	Description
Hybrid System Warning Lamp *1 (Orange)		 This lamp is on or blinking when: Malfunction has occurred in the high voltage 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.

*1: When this lamp is ON, the READY Indicator will turn OFF.

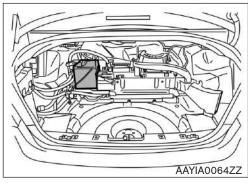
2. Basic High Voltage System and 12V System Information

2-1 Battery Information

The M35h HYBRID utilizes two batteries in order to supply both high and low voltage.

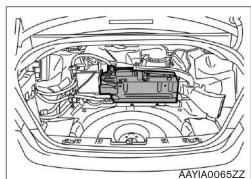
2-1.1 Low Voltage Battery

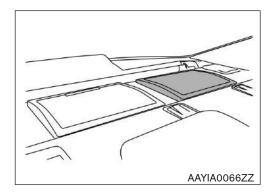
- The M35h HYBRID contains a conventional lead-acid 12V battery.
- The 12V battery is located in the trunk, left of Li-ion battery, concealed by trim cover.
- The 12V battery is charged by the Li-ion battery through the DC/DC converter.



2-1.2 Li-ion Battery

- The M35h HYBRID contains a Li-ion 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 approximately 346 volts DC (400V max.).
- The high voltage battery exhausts gases directly outside the vehicle through a vent hose.
- An air vent is located on the rear parcel shelf for battery cooling.

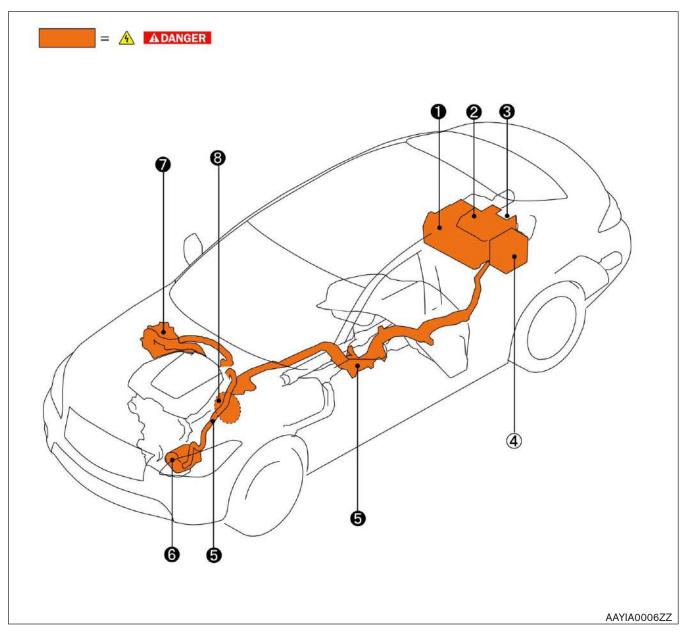




The high voltage battery supplies power to the following:

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

2-2 High Voltage-Related and 12V-Related Component Locations and Descriptions



NOTE:

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

No.	Component	Location	Description
0	Lithium-ion (Li-ion) Battery	Trunk area (behind rear seat back)	The Li-ion battery stores and outputs DC power (Maximum voltage 400V) needed to propel the vehicle.
2	DC/DC Converter	Trunk area (mounted to top of Li-ion bat- tery)	The DC/DC converter reduces the voltage of the Li-ion battery to provide power to the 12V battery in order to operate the vehicle's electric components (headlights, audio system, etc.).
3	Service Plug	Trunk area (below parcel shelf; behind access door in trim panel)	
4	12V Battery	Trunk area (below parcel shelf; behind trim panel left of Li-ion battery)	A lead-acid battery that supplies power to the low voltage devices.
6	High Voltage Har- nesses	Trunk area (on Li-ion battery), under floor pan, engine com- partment	Orange-colored power cables carry high DC voltage between each of the high voltage components.
6	6 Electric Air Condi- tioner Compressor ment (front driver side)		Air conditioner compressor
7	Traction Motor Inverter	Engine compart- ment (rear passen- ger side)	Converts the DC power stored in the Li-ion 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.
8	Traction Motor	Built-into the trans- mission	Converts three-phase alternating current (AC) power to drive power (torque) which propels the vehicle.

2-3 Li-ion Battery Pack Specifications

Li-ion Battery Specifications		
Li-ion battery voltage	346V (400V max.)	
Number of Li-ion battery modules in the pack	12	
Li-ion battery module voltage	28.8V each	
Li-ion battery dimensions	33.35 x 17.83 x 15.43 in. (847 x 453 x 392 mm)	
Li-ion battery weight	121.28 lbs (55 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 identifica- tion. 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 label shown below. All high voltage harnesses are coated in orange.

2-4.1 Warning Label

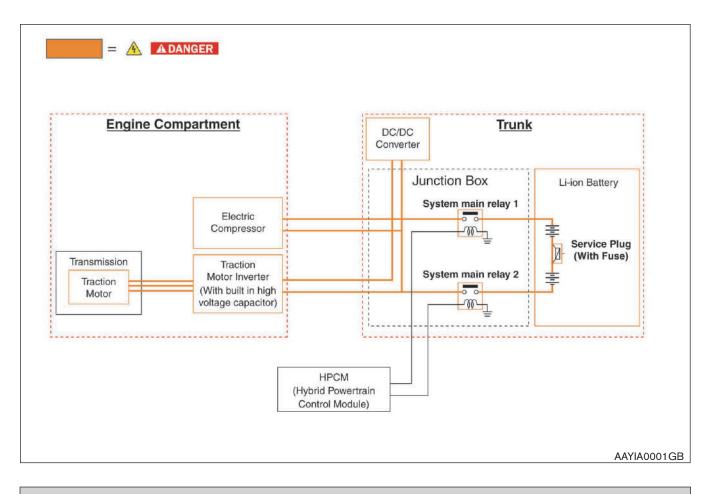


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2-5 High Voltage Safety System

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 up to ten (10) minutes for the high voltage capacitor to fully discharge.



A DANGER

- The high voltage system and high voltage capacitor may remain powered for up to 10 minutes after the vehicle is shut off.
- The high voltage battery retains high voltage at all times.
- 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 a frontal collision that is 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 Li-ion battery by the following methods:

Service plug	Positioned in the center area of the Li-ion battery, this plug shuts off the put of high voltage when manually removed.	
System main relays	Controlled by the ignition switch, these relays are powered by the 12V system and shut off high voltage from the Li-ion battery.	
Emergency shut-off sys- In the case of a collision (air bag deployment, etc.) or certain system		
tem tions this system shuts off the high voltage from the Li-ion battery		

2-7 Preventing Electrical Shock

- If it is necessary to touch any of the high voltage harnesses or components, always wear appropriate PPE (refer to 3-1 Preparation Items). Shut off the high voltage system by referring to 3-3.1 High Voltage System Shut-Down Procedure.
- 2. To avoid the risk of electrocution, do not touch the inside of the Li-ion battery with bare hands after shutting off the high voltage system. The Li-ion battery maintains charge even though the high voltage system is shut down.
- 3. Cover damaged high voltage components with insulated tape.

2-8 Emergency Medical Equipment

The high voltage system should not interfere with emergency medical equipment which must be used in or near the vehicle at an accident scene.

3. Emergency Response Steps

A DANGER

- A Failure to properly shut down the high voltage electrical system before the Emergency Response Procedures are performed will result in serious injury or death from electrical shock. To prevent serious injury or death, DO NOT touch high voltage harnesses or components without always wearing appropriate PPE.
- A If it is necessary to touch any of the high voltage harnesses or components you must always wear appropriate PPE to avoid electrical shock. Shut down the high voltage system by following the steps outlined in 3-3.1 High Voltage System Shut-Down Procedure. Wait at least ten (10) minutes for complete discharge of the high voltage capacitor after the high voltage system has been shut down.

AWARNING

- NEVER assume the M35h HYBRID is shut OFF simply because it is quiet.
- 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		
Wrenches	Size:10mm	To remove the 12V battery terminal bolt.
Solvent resistant protec- tion gloves	_	To utilize in the event of a Li-ion battery electrolytic solution leak.
Solvent resistant protection shoes	_	
Absorbent pad	The same pad used for internal com- bustion engine fluids can be used.	To absorb any Li-ion 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 PPE (Personal Protective Equipment) Protective Wear Control

Perform an inspection of the 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 responder 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

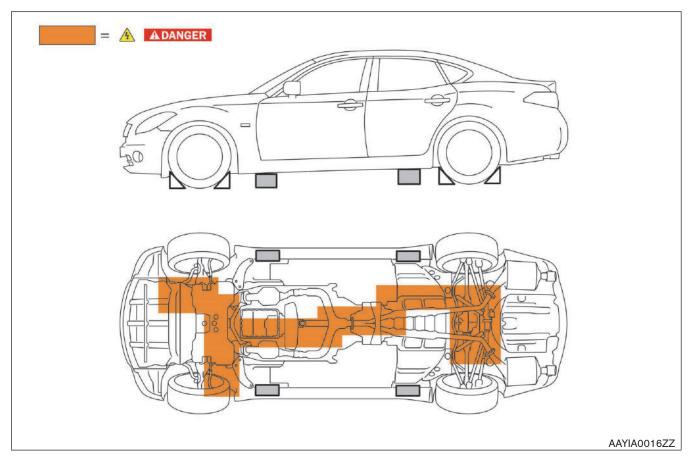
When performing work at locations where high voltage is applied (such as terminals), use insulated tools meeting 1,000V/300A specifications.

3-2 Vehicle Immobilization and Stabilization

Apply the parking brake and stabilize the vehicle with a wheel chock(s) or deflate the tires. Put support material such as wooden blocks or utilize the Lift Airbag Equipment for rescue.

AWARNING

• To avoid electrical shock, do not put the Lift Airbag Equipment for rescue and wheel chock(s) under the high voltage components and harnesses.



3-3 How to Handle a Damaged Vehicle at an Accident Scene

NOTE:

If any air bags have deployed in the following 3 situations, the high-voltage (HV) system has been automatically shut off at the time of deployment.

The INFINITI M35h HYBRID high-voltage system incorporates capacitors which are energized whenever the high-voltage system is on. If the high-voltage system is shut down (either through one of the built-in automatic mechanisms or manually through one of the procedures explained in this FRG), the capacitors will begin to gradually discharge. After 5 minutes, the voltage level will have dropped below 60V, and complete discharge requires approximately 10 minutes after high-voltage system shut down. It is within this period of time that responders must be most cautious.

When arriving to an incident involving an INFINITI M35h HYBRID, the vehicle should be approached with caution and inspected for the level of damage. In addition to overall vehicle condition (location and severity of body damage, air bag deployment, etc.), the high-voltage system should be assessed specifically. The locations of the high-voltage component parts are illustrated in this FRG. Refer to 2-2 High Voltage-Related and 12V-Related Component Locations and Descriptions. Appropriate personal protective equipment (PPE) must always be worn when approaching a vehicle of unknown condition, as described in this FRG.

Situation 1) High voltage system intact, occupants can be accessed without extrication tools

The HV system can be shut down by following the procedure in this guide, while wearing appropriate PPE. After HV system shut down, occupant assistance can begin immediately, and no wait period is necessary.

Situation 2) High voltage system intact, occupants cannot be accessed without extrication tools

The HV system can be shut down by following the procedure in this guide, while wearing appropriate PPE. After HV system shut down, absolute care must be taken not to cut through or damage any HV system wiring, battery or components within ten (10) minutes of HV system shut down, but occupant assistance operations using extrication equipment can begin immediately. The locations of the HV components are illustrated in this guide.

Situation 3) High-voltage (HV) system damaged

If there is any evidence that the HV system has been compromised (such as arcing/sparking, orange wiring harnesses cut or damaged, HV component casings damaged, etc.), the responder may still be at risk of high voltage exposure. The vehicle must be approached with extreme caution prior to initiating any system shut down procedures or rendering assistance to occupants. Appropriate PPE must always be worn as described in this guide, and the ten (10) minute wait time must be observed after HV system shut down in order to ensure the system is de-energized.

In rare situations where vehicle damage is very severe, HV system shut down procedures as described in this guide may not work. In these instances extreme caution and appropriate risk management must be followed to prevent shock or electrocution to the responder or occupant.

3-3.1 High Voltage System Shut-Down Procedure

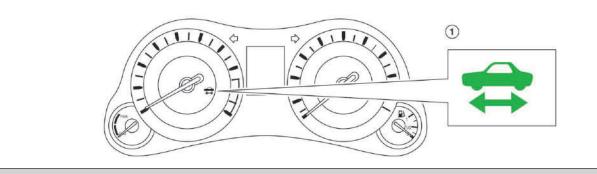
Any of the following procedures can shut down the high voltage system. The first response operation should only begin after shutting down the high voltage system. If the vehicle is heavily damaged, for example the Li-ion battery is deformed, broken or cracked, appropriate PPE must always be used and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

A DANGER

- A Failure to properly shut down the high voltage system before the Emergency Response Procedures are performed will result in serious injury or death from electrical shock. To prevent serious injury or death, DO NOT touch high voltage harnesses or components without always wearing appropriate PPE.
- A 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.

AWARNING

- A 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 check the READY indicator (1) in the instrument cluster, and verify that the READY indicator is off and the high voltage system is stopped.



• After the high voltage system is shut down, please wait for ten (10) minutes for complete discharge of the high voltage capacitor. While waiting, do not operate any vehicle functions.

NOTE:

The high voltage full discharge takes ten (10) minutes, but after five (5) minutes the voltage has dropped below 60V.

- Remove the 12V battery negative (-) terminal and wait for three (3) minutes to discharge the air bag capacitor. Even though the 12V battery negative (-) is disconnected, the Supplemental Restraint System (SRS) air bag maintains voltage for three (3) minutes. 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 12V battery negative (-) terminal is removed while the high voltage system is active. This is because the DC/DC converter will not shut down and power will be supplied to the 12V system and high voltage system continuously.

Before disconnecting the 12V 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 12V 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:

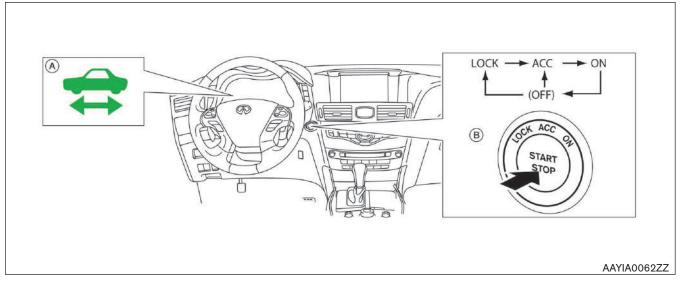
- Turn OFF the power switch and disconnect the 12V battery. Refer to Primary Procedure.
- Remove the fuse for the high voltage control system and disconnect the 12V battery. Refer to Alternate Procedure 1.
- Remove the service plug and disconnect the 12V battery. Refer to Alternate Procedure 2.

Primary Procedure

NOTE:

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

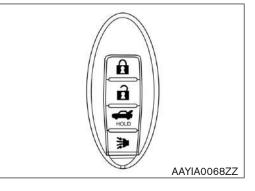
1. Check the READY indicator (A) status in the instrument cluster. If it is on, the high voltage system is active.



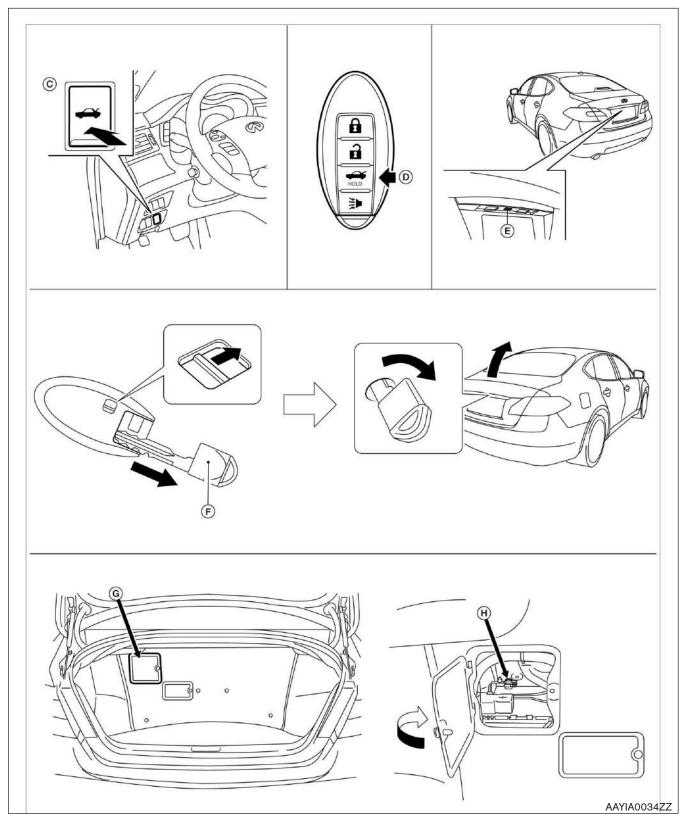
- 2. Place the shift selector in the Park (P) position.
- 3. Push the ignition switch (B) once to turn OFF the high voltage system. Then verify whether the READY indicator (A) is off.

If the READY indicator (A) does not turn off, continue to the next steps to open the trunk for 12V battery negative cable access.

- If possible, keep the INFINITI Intelligent Key[™] at least 5 meters (16 feet) away from the vehicle (except as noted below).
- 5. Open the trunk using any of the following:
 - a. push-button switch (C) on the lower LH side of the instrument panel.
 - b. trunk button (D) on the INFINITI Intelligent Key™
 [press for longer than one (1) second].
 - c. trunk open request switch (E) (located above license plate)*.
 - d. with the mechanical key (F) housed inside the INFINITI Intelligent Key™.



* 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.

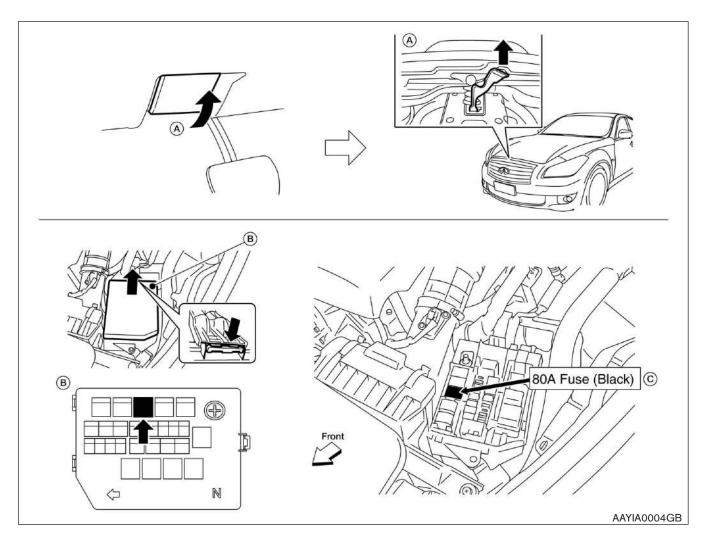


- 6. Open the 12V battery service access cover (G).
- 7. Disconnect negative (-) battery cable (H) and cover it with insulated tape.
- 8. Wait ten (10) minutes for complete discharge of the high voltage capacitor after the battery cable has been disconnected.
- 9. Perform the first response action.

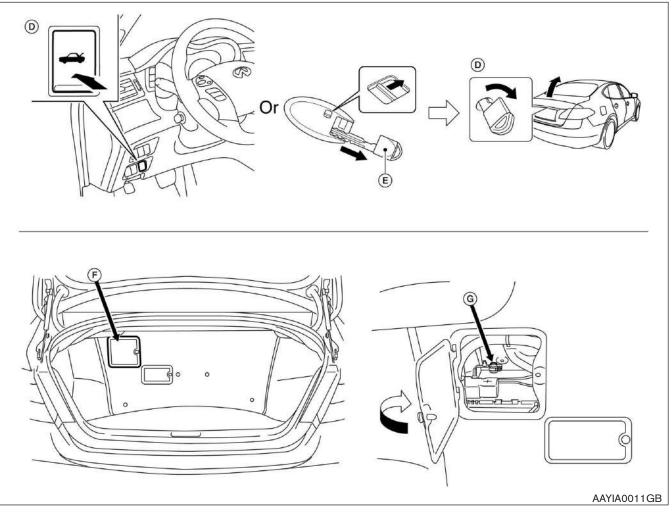
Alternate Procedure 1

NOTE:

Before removing any fuses, if necessary, lower the windows, adjust the steering column, adjust the seats, unlock the doors, etc. Once fuses are removed, power controls will not operate.



- 1. Pull release handle (A) to open the hood.
- 2. Remove fuse box cover (B).
- 3. Remove 80A fuse (C) (black).
- 4. If you cannot identify the fuse (C), remove all fuses in the fuse box.



- Open the trunk. The trunk can be opened with the push-button switch (D) on the lower LH side of the instrument panel or with the mechanical key (E) housed inside the INFINITI Intelligent Key[™].
- 6. Open the 12V battery service access cover (F).
- 7. Disconnect negative (-) battery cable (G) and cover it with insulated tape.
- 8. Wait ten (10) minutes for complete discharge of the high voltage capacitor after the fuse is pulled and battery cable has been disconnected.
- 9. Perform the first response action.

A DANGER

- Do not remove the service plug without always wearing appropriate PPE to help protect the responder from serious injury or death by electrical shock.
- Immediately cover the service plug socket with insulated tape. To avoid electric shock, DO NOT touch the terminals inside the socket.

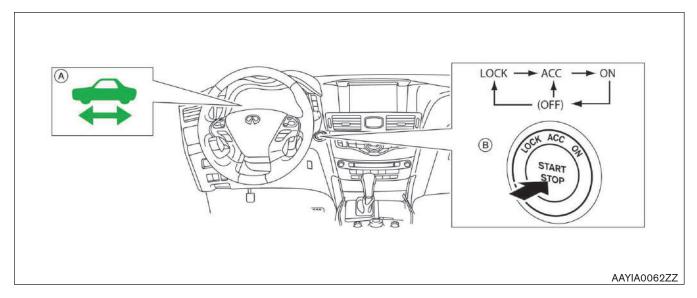
AWARNING

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

NOTE:

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

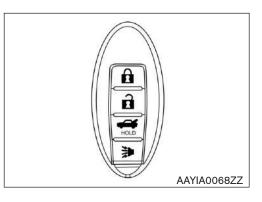
1. Check the READY indicator (A) status in the instrument cluster. If it is on, the high voltage system is active.



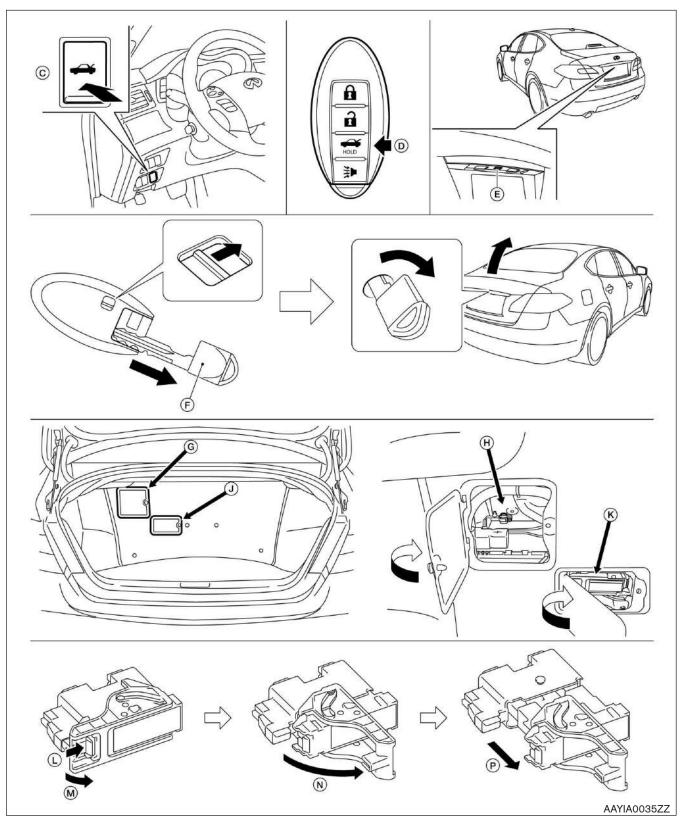
- 2. Place the shift selector in the Park (P) position.
- 3. Push the ignition switch (B) once to turn OFF the high voltage system. Then verify whether the READY indicator (A) is off.

If the READY indicator (A) does not turn off, continue to the next steps to open the trunk for 12V battery negative cable access.

- If possible, keep the INFINITI Intelligent Key[™] at least 5 meters (16 feet) away from the vehicle (except as noted below).
- 5. Open the trunk using any of the following:
 - a. push-button switch (C) on the lower LH side of the instrument panel.
 - b. trunk button (D) on the INFINITI Intelligent Key[™] [press for longer than one (1) second].
 - c. trunk open request switch (E) (located above license plate)*.
 - d. with the mechanical key (F) housed inside the INFINITI Intelligent Key™.



* 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.



- 6. Open the 12V battery service access cover (G).
- 7. Disconnect negative (-) battery cable (H) and cover it with insulated tape.
- 8. Open service plug access cover (J).
- 9. Remove the service plug (K) by pressing the locking tab (L) and rotating the handle (M) fully outward (N). Using the handle, pull the service plug (P) completely out of its socket.

- 10. Wait ten (10) minutes for complete discharge of the high voltage capacitor after the service plug has been removed.
- 11. Perform the first response action.

3-3.2 Water Submersion

A DANGER

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

AWARNING

- A 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 PPE and remove/drain water before removing the service plug when working on a vehicle after a fire or submersion to avoid electrical shock.
- A If the vehicle is in the water, to avoid electrical shock do not touch the high voltage components, harnesses or service plug.

3-3.3 Vehicle Fire

AWARNING

- Always utilize full PPE and self-contained breathing apparatus during fire fighting operations. Smoke from a M35h 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.

ACAUTION

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.

Fire attack should follow standard fire fighting practices.

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 and contains a high voltage system and warn all others.

During overhaul operations (late stage fire suppression process to examine for remaining sources of heat), make sure the battery is fully cooled to avoid fire re-ignition. The battery could reignite if it is placed near fire. To avoid possible electrical shock and serious personal injury, do not breach the Li-ion battery case.

A DANGER

- A Do not cut into high voltage related areas to avoid severe personal injury or death.
- A Do not cut into the Li-ion battery to avoid severe personal injury or death.
- A When removing parts, DO NOT touch the high voltage parts or the insides of the exposed orange-colored high voltage cables to avoid severe personal injury or death.

AWARNING

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

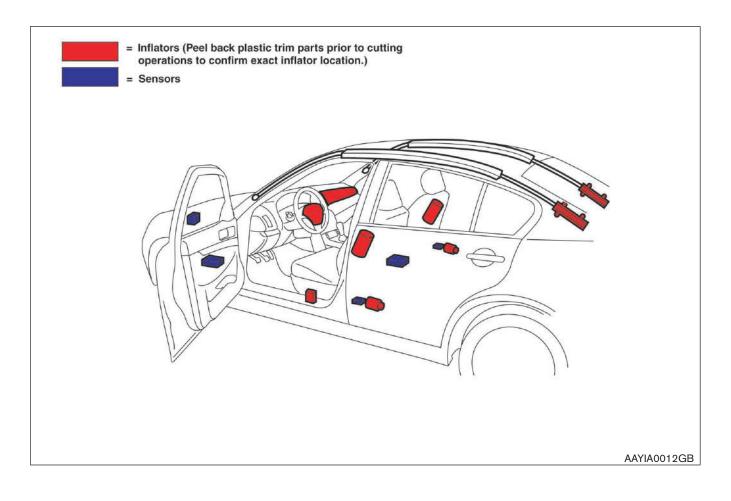
If ten (10) minutes have passed since the rescuer shut down the high voltage system (refer to 3-3.1 High Voltage System Shut-Down Procedure), then the rescuer can cut the vehicle <u>except</u> for the Li-ion battery.

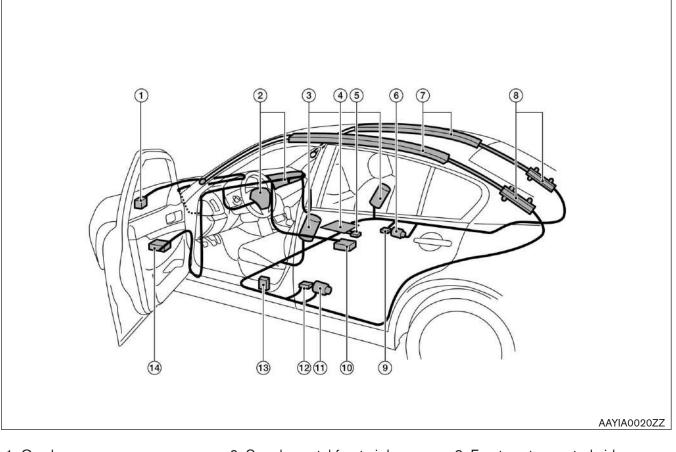
If the rescuer cannot wait the full ten (10) minutes or shut down the high voltage system, absolute care must be taken to avoid cutting HV parts and appropriate PPE must always be worn. DO NOT cut the Li-ion battery due to possible electrocution risk and electrolyte solution leakage.

SRS Air Bag System Components Location

Avoid cutting air bag system parts. 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 12V battery negative (-) cable has been disconnected and the high voltage system has been shut down.





1. Crash zone sensor

4. Occupant classification sensor (pattern sensor)

7. Roof-mounted curtain sideimpact supplemental air bags

10. Air bag control unit (ACU)
 13. Lap outer pretensioner (if so

equipped)

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

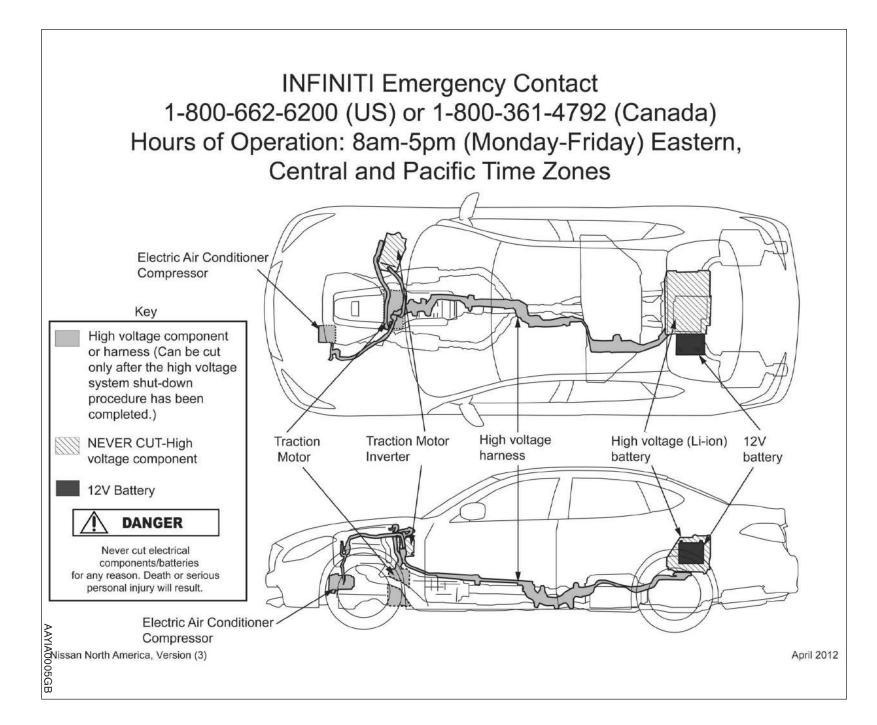
5. Occupant classification system control unit

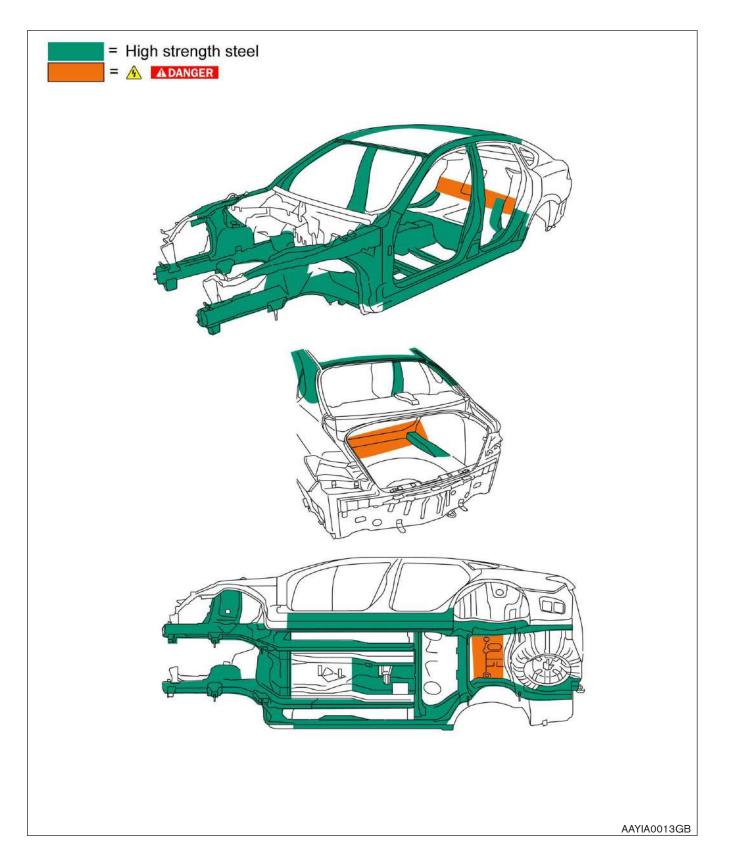
8. Roof-mounted curtain sideimpact supplemental air bag inflators

11. LH seat belt with pretensioner

14. Front door satellite sensor LH (RH similar)

- 3. Front seat-mounted sideimpact supplemental air bags
- 6. RH seat belt with pretensioner
- 9. RH satellite sensor
- 12. LH Satellite sensor





3-3.5 Li-ion Battery Damage and Fluid Leaks

If electrolyte solution leakage, or damage such as any problem with the Li-ion battery casing are observed, first responders should attempt to neutralize the battery by applying a large volume of water to the battery pack while wearing appropriate PPE. The neutralization process helps stabilize the thermal condition of the battery pack but does not discharge the battery.

Li-ion Battery Electrolyte Solution Characteristics:

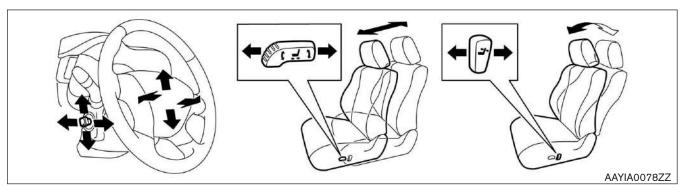
- Clear in color
- Sweet odor
- Similar viscosity to water
- Skin irritant
- Eye irritant If contact with eyes, rinse with plenty of water and see a doctor immediately.
- If electrolyte leak occurs, wear appropriate solvent resistant PPE and use a dry cloth to clean up the spilled electrolyte. Be sure to adequately ventilate the area.
- 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.
- Since the Li-ion 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.

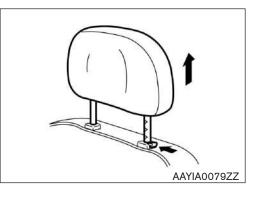
3-3.6 Accessing the Occupants

- 1. Remove windows
 - a. Perform window removal the same as a normal vehicle.
- 2. Remove doors
 - a. The doors are removable with hand tools or basic rescue tools such as electrical/hydraulic rescue tools. It may be easier to remove the doors by cutting door hinges.
- 3. Adjust steering wheel and front seat position (if necessary) as shown below:



4. Remove front seat head restraint (if necessary).

The front seat head restraint can be removed by pressing the lock knob and pulling it up.



5. Unfasten the seat belt.

Seat belt can be unfastened by pressing the release button. If seat belt cannot be unfastened, cut it with a belt cutter.

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4. Emergency Quick Reference Guide

The following is for emergency quick reference only. It does not replace the detailed safety information and procedures in this manual.

2013 INFINITIM35h Emergency Responder's Quick Reference Guide

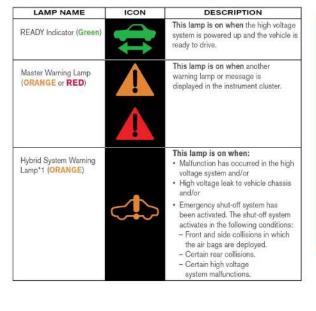
The following is for emergency quick reference only. It does not replace the detailed safety information and procedures in the First Responder's Guide (FRG).

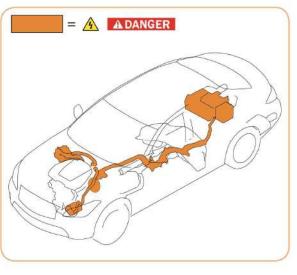
VEHICLE IDENTIFICATION



WARNING AND INDICATOR LAMPS

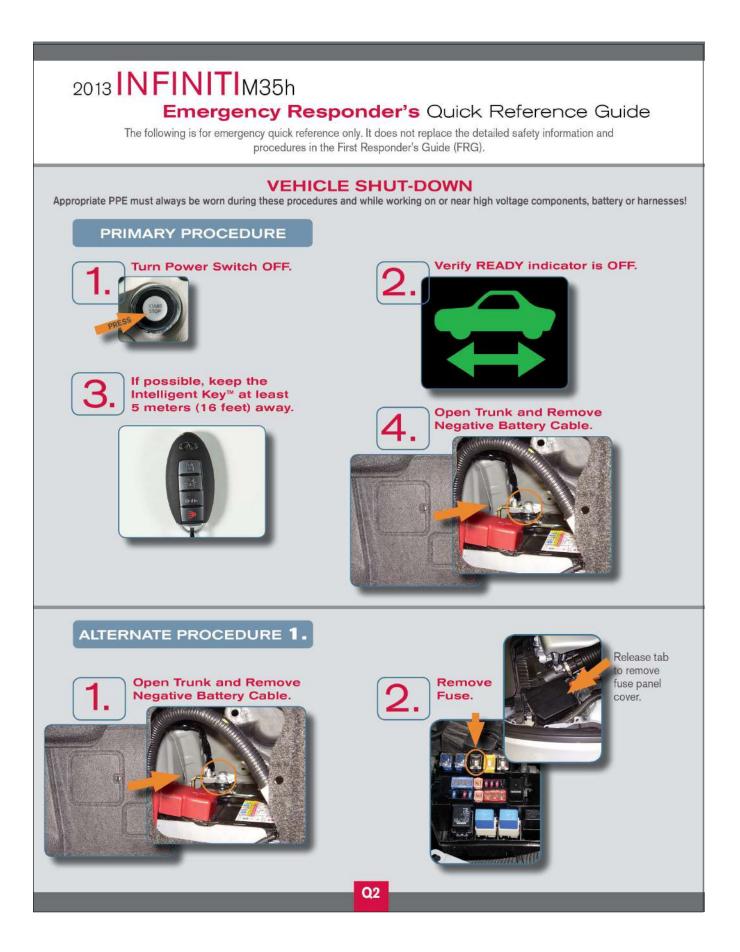
HIGH VOLTAGE (HV) PARTS LOCATIONS





*1: When this lamp is ON, the READY lamp will turn OFF.

Q1



2013 INFINITIM35h Emergency Responder's Quick Reference Guide

The following is for emergency quick reference only. It does not replace the detailed safety information and procedures in the First Responder's Guide (FRG).

ALTERNATE PROCEDURE 2.



2. Wait 10 full 10 must b must b

Remove Service Plug.

Located behind access cover.

Release lever locking tab

Rotate green lever outward.

O Pull to remove.

Wait 10 minutes for the HV system to fully discharge. If unable to wait full 10 minutes, absolute care must be taken and full PPE must be worn.

HIGH VOLTAGE SYSTEM SHUT DOWN AND VEHICLE DAMAGE LEVEL CONSIDERATIONS

Note: If any air bags have deployed in the following 3 situations, the high-voltage (HV) system has been automatically shut off at the time of deployment.

1) High-voltage (HV) system intact, occupants can be accessed without extrication tools. The HV system can be shut down by following the procedure in this QRG, while wearing appropriate PPE. After HV system shut down, occupant assistance operations can begin immediately, and no wait period is necessary.

(2) High-voltage (HV) system intact, occupants cannot be accessed without extrication tools The HV system can be shut down by following the procedure in this QRG, while wearing appropriate PPE. After HV system shut down, absolute care must be taken not to cut through or damage any HV system wiring, battery or components within 10 minutes of HV system shut down, but occupant assistance operations using extrication equipment can begin immediately. The locations of the HV component parts are illustrated in this QRG.

(3) High-voltage (HV) system damaged

If there is any evidence that the HV system has been compromised (such as arcing/sparking, orange wiring harnesses cut or damaged, HV component casings damaged, etc.), the responder may still be at risk of high voltage exposure. The vehicle must be approached with extreme caution prior to initiating any system shut down procedures or rendering assistance to occupants. Appropriate PPE must always be worn as described in the FRG, and the 10 minute wait time must be observed after HV system shut down in order to ensure the system is de-energized.

In rare situations where vehicle damage is very severe, HV system shut down procedures as described in the FRG or this QRG may not work. In these instances extreme caution and appropriate risk management must be followed to prevent shock or electrocution to the responder or occupant.

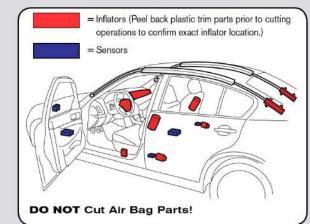


2013 INFINITIM35h Emergency Responder's Quick Reference Guide

The following is for emergency quick reference only. It does not replace the detailed safety information and procedures in the First Responder's Guide (FRG).

VEHICLE IDENTIFICATION

SRS AIR BAG SYSTEM PARTS LOCATIONS



VEHICLE FIRE

- · Use standard firefighting equipment.
- · Use large amounts of water.
- Be sure Li-ion battery is completely extinguished and cooled to avoid reignition.

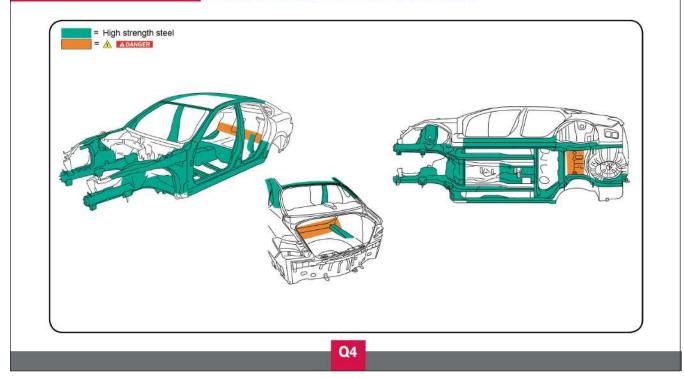
VEHICLE SUBMERSION

- · Wear appropriate PPE before entering water.
- Vehicle must be removed from water and drained before touching any HV parts.

LI-ION BATTERY ELECTROLYTE CHARACTERISTICS

- · Clear in color.
- Sweet odor.
- Similar viscosity to water. Highly flammable.
- Skin and eye irritant rinse with plenty of water and see a doctor immediately.
- · Wear appropriate PPE around electrolyte leakage.

HIGH STRENGTH STEEL LOCATIONS





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