



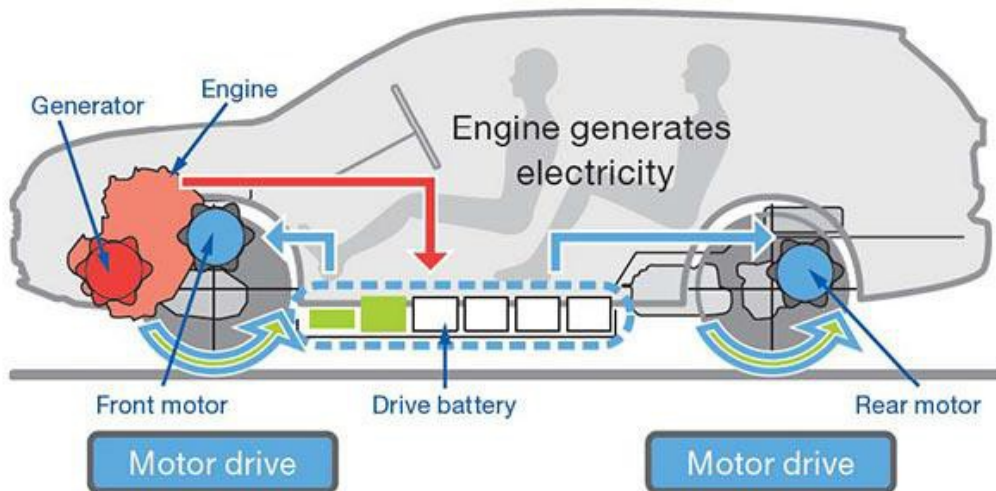
OUTLANDER PHEV

Drive Battery Removal Procedure and Dismantling Guide



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1. INTRODUCTION

The Outlander PHEV (Plug-in Hybrid Electric Vehicle) is a vehicle equipped with a high voltage main drive lithium-ion battery. The battery provides high voltage electricity to power the two electric drive motors. The vehicle also has a gasoline powered engine/generator which recharges the battery and assists the drive motors under certain conditions. Caution must be used when dismantling the vehicle. This guide provides instructions that must be followed when the high voltage main drive battery is to be removed from the Outlander PHEV. Always handle the Outlander PHEV high voltage components by using appropriate Personal Protective Equipment (PPE) and the methods described in this guide. Failure to follow the instructions in this guide, including the warnings and cautions, may result in serious injury or death by electrical shock due to the high voltage battery installed on the Outlander PHEV. Before dismantling, please read this guide carefully and understand the identified procedures. It may differ according to the sales classification; refer to the sales catalog.

Throughout this guide the words **DANGER**, **WARNING** and **CAUTION** appear.

These serve as reminders to be especially careful. Failure to follow instructions may result in personal injury or damage to the vehicle.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

⚠ CAUTION

Indicates hazards or unsafe practices that could cause personal injury or damage to your vehicle.

Mitsubishi Motors reserves the right to make changes in design and specification and/or to make additions to or improvements in this product without obligation to install them on products previously manufactured.

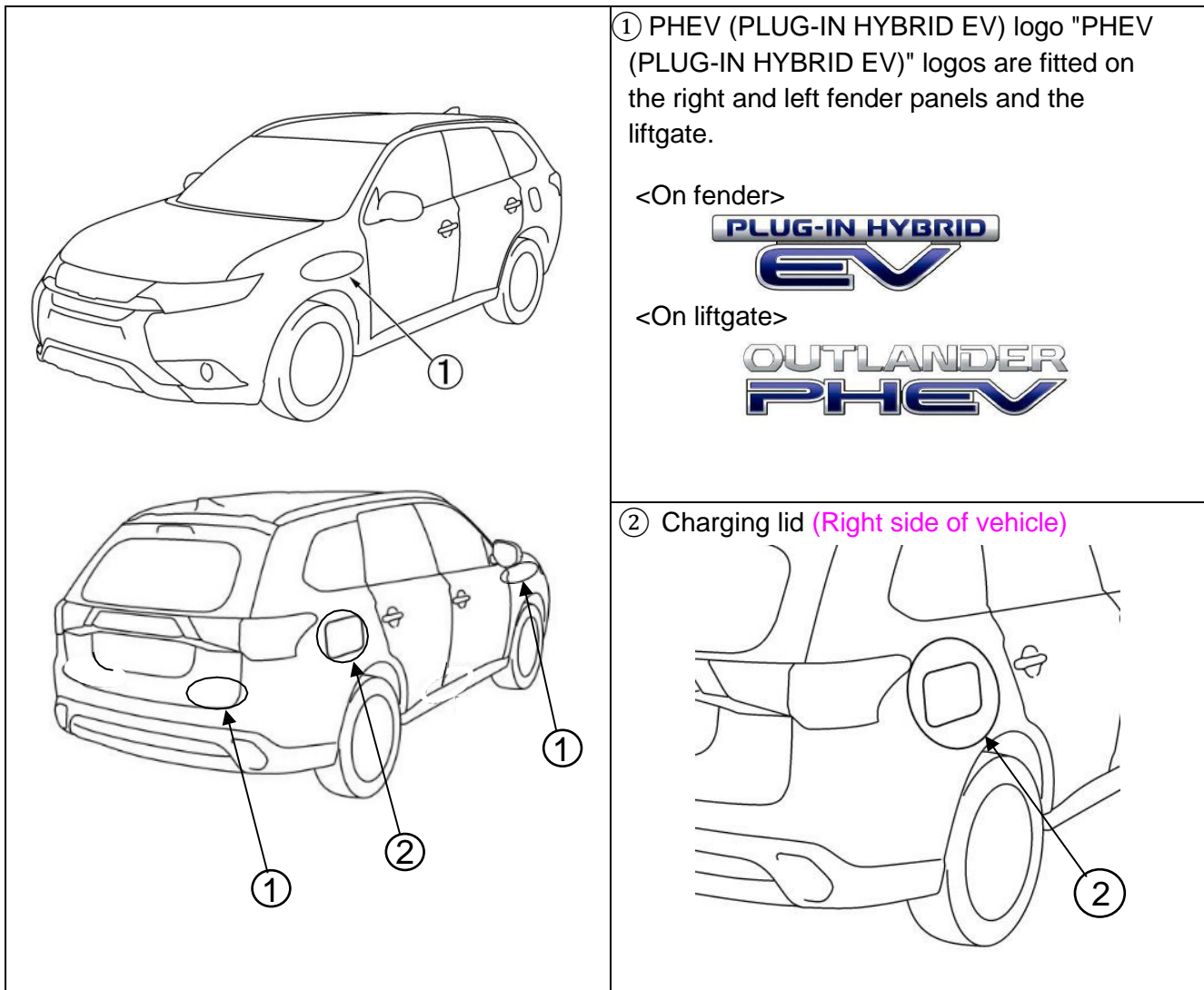
*NOTE: The contents of this guide may not match exactly with every vehicle due to changes in vehicle specification.

2. HOW TO IDENTIFY OUTLANDER PHEV

1) Unique features of the Outlander PHEV compared to the gasoline engine Outlander.

- PHEV logo marks
- Charging lid and portal
- Lithium-ion main drive battery (maximum voltage is 336V)
- 60 kW twin electric drive motors
- Twin Super all-wheel control motors
- Motors in front and rear axles
- Lack of any engine noises when in EV mode.
- Electric transmission gear selector and parking pawl (12V system).
- 12V Battery is located in the left rear cargo area of the vehicle.
- The A/C compressor and interior heater is powered by the 336V Lithium-ion battery
- Chassis number

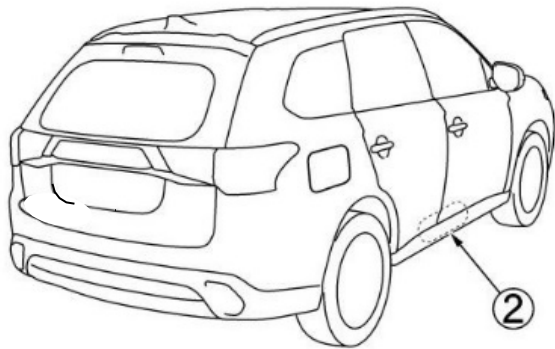
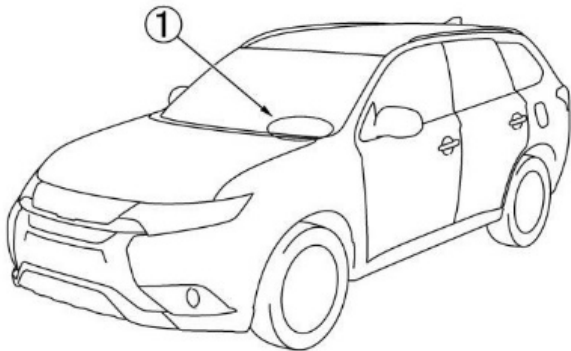
2) Exterior features that identify an Outlander PHEV from a gasoline engine Outlander.



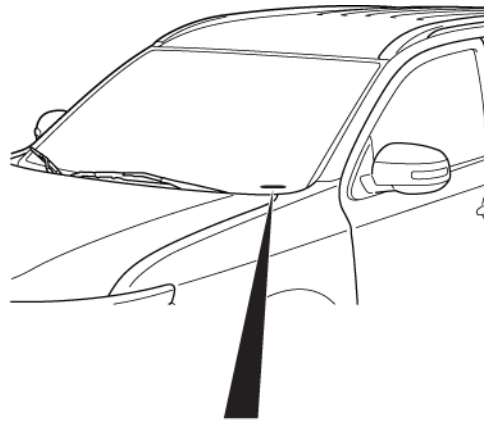
3) Chassis Number and Model Code

The Model code is stamped on the "Vehicle identification number plate" and "Vehicle information code plate".

The chassis number is stamped on the passenger side cowl top panel inside the engine compartment.

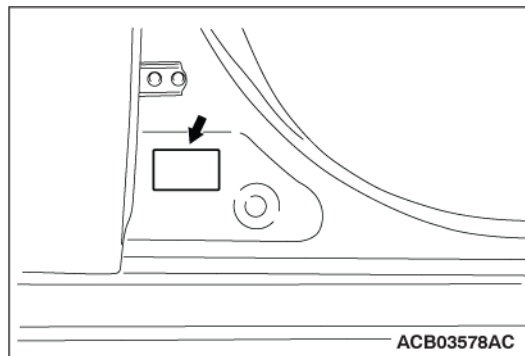


- ① VIN plate (at left front of the instrument panel). When the fifth position (car line) is "2" on the plate, it means "Outlander PHEV".



● JA4J24A5-JZ000001 ●

- ② Vehicle information code plate, on the passenger's door sill. When the code in "MODEL" line contains "GG2W", it means "Outlander PHEV".



MITSUBISHI MOTORS CORPORATION						
MODEL	1				(1)	
ENGINE	2					
TRANS	4		EXT		3	
COLOR, INT	5		6		7	
OPT						
PART NO : 7430B433						

3. SAFETY PRECAUTIONS

WARNING

- Always follow instructions described in this guide. Failure to follow these instructions can result in serious injury or death.
- Before dismantling, shut off the high voltage circuits or discharge the Main drive lithium-ion battery in accordance with instructions on the following pages.
- Wear appropriate personal protective equipment where instructed in this guide.
- Do not assume high voltage components have been shut off simply because the vehicle is quiet.
- Never directly touch any exposed high voltage wiring cables, protective covers detached from high voltage components, or high voltage components that might be damaged.
- If fluid leakage is observed under the body, the fluid may be electrolyte leaking from the Main drive lithium-ion battery. This electrolyte is flammable and poisonous acidic gas will evaporate from the electrolyte. Wear a mask for organic gas, solvent-resistant gloves (or heavy-duty rubber gloves), and eye protection. Use an absorption mat or sand to absorb spilled electrolyte. (The electrolyte is clear and colorless and with a slightly sweet odor. It has similar viscosity to water.)
- If the electrolyte comes into contact with your skin, flush with water immediately.
- If the electrolyte gets into your eyes, do not rub your eyes. Immediately flush your eyes with a large quantity of water and seek medical treatment as soon as possible.
- If the vehicle must be left unattended during the dismantling process, display a sign indicating “HIGH VOLTAGE WORK IN PROGRESS!! DANGER! DO NOT TOUCH!” Refer to the signboard example at the end of this guide.
 - Advise all dismantlers that an electric vehicle is involved.
 - If a charge connector is connected to the vehicle, remove it.

Information on the 12V Auxiliary Battery (located in rear cargo area, page 11)

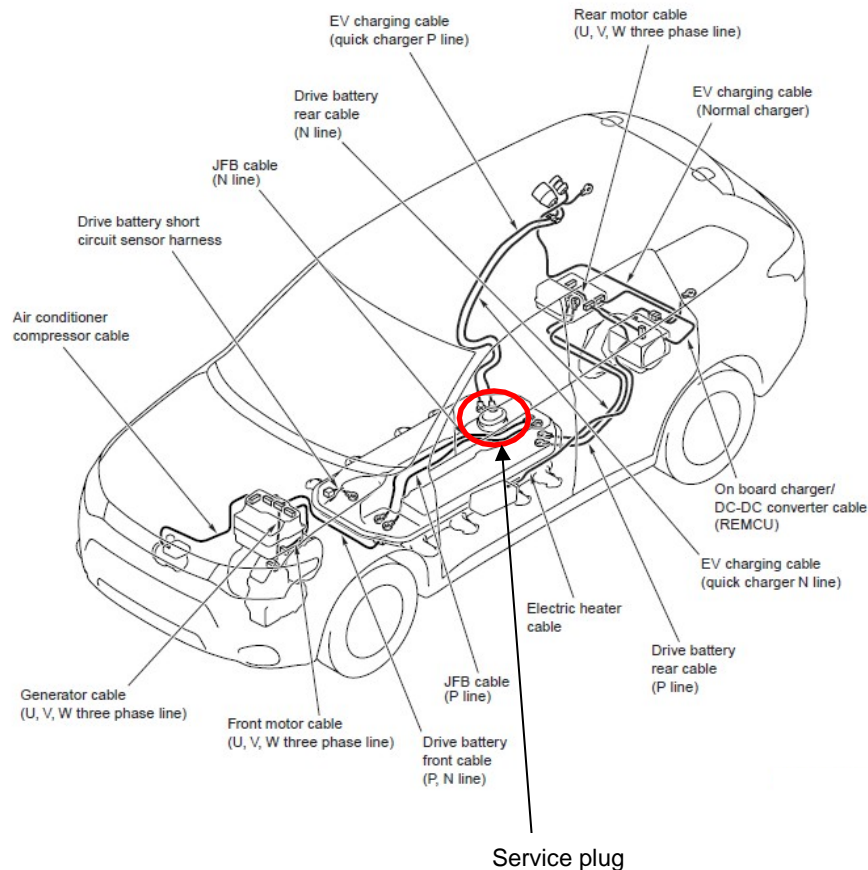
The 12V auxiliary battery of the Outlander PHEV is located in the left rear of the vehicle. It provides power to multiple ECUs (Electronic control units) in the vehicle and operates all the 12V vehicle accessories. The multiple ECUs that are powered by the 12V battery include the ECUs that operate the High Voltage electric drive components. If the 12V battery state of charge is depleted or has been disconnected, the vehicle will not operate even if the 336V drive battery is fully charged. The unlocking mechanism of the rear tail gate is powered by the 12V battery. This function will be disabled if the 12V battery is dead or disconnected. Refer to the owner's manual for instructions on how to jump start the vehicle from the engine compartment.

Proper Handling of the Main Drive Lithium-ion High Voltage Battery (located under vehicle)

If the Main drive lithium-ion battery is damaged during the extraction process due to the use of heavy machinery or a procedure not described in this guide, collection/recycling of that battery may be denied due to increased safety concerns in transporting the damaged Main drive lithium-ion battery. Mitsubishi Motors North America Inc. is not responsible for any accident or damage caused by modification of the Main drive lithium-ion battery or mounting/installation of the Main drive lithium-ion battery on any vehicle other than the Outlander PHEV. To prevent accidents, your cooperation in the safe collection/recycling of Main drive lithium-ion batteries is appreciated. For collection/recycling information, please contact: <http://elvsolutions.org/>

4. HIGH VOLTAGE COMPONENTS LAYOUT

High voltage (maximum 336V) components and wiring cables are located as shown in the figure below.



High-voltage components

The high-voltage components are described below. Also, wiring harness and connectors of high-voltage circuit are (orange in color.)

- Main battery
- Front motor control unit [FPDU (Front Power Drive Unit)] (incorporating GCU [Generator Control Unit])
- Rear motor control unit [RMCU (Rear Motor Control Unit)]
- Motor (electric motor unit) <front and rear>
- Generator
- On-board charger/DC-DC converter
- Electric heater <Vehicles with electric heater>
- Main battery cable
- EV charger cable (regular charging)
- EV charger cable <Vehicles compatible with fast charging>
- Service plug (Located under the floor behind the center console)
- Wiring harness and connector
- Main drive lithium-ion battery (maximum 336V)

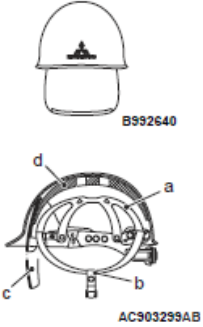

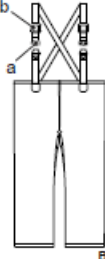

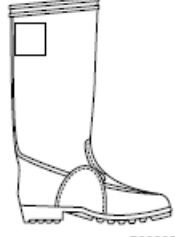
Tester and special tools (or equivalent)

- High-voltage multimeter (minimum Category IV)
- EV battery lifting cart (special tool: MB992659) or equivalent (maximum capacity 1100 lbs.)
- EV battery sling (special tool: MB992345) or equivalent (maximum capacity 1200 lbs.)

5. PERSONAL PROTECTIVE EQUIPMENT (REFERENCE ONLY)

CAUTION

Use personal protective equipment that complies with applicable state and local requirements. This equipment should include the following:

Protective equipment	Name	Use
 <p>B992640 AC903299AB</p>	<p>Electric insulation helmet (with shield)</p> <p>a. Helmet suspension b. Chin strap c. Visor d. Liner</p>	<ul style="list-style-type: none"> • When you are in contact with exposed live wiring of a damaged vehicle • To prevent the risk of electric shock
 <p>B992645</p>	<p>Electric insulation jacket</p>	<ul style="list-style-type: none"> • When you are in contact with exposed live wiring of a damaged vehicle • To prevent the risk of electric shock
 <p>B992646</p>	<p>Electric insulation trousers</p> <p>a. Electric insulation trousers buckle b. Electric insulation trousers adjuster</p>	<ul style="list-style-type: none"> • When you are in contact with exposed live wiring of a damaged vehicle • To prevent the risk of electric shock
 <p>B992647</p>	<p>a. Electric insulation glove (LL) b. Electric insulation glove (L) c. Electric insulation glove (M) d. Electric insulation glove (S)</p>	<ul style="list-style-type: none"> • Service plug • Working on live wiring • When you are in contact with exposed live wiring of a damaged vehicle • To prevent the risk of electric shock
 <p>B992651</p>	<p>a. Electric insulation boots (24.0) b. Electric insulation boots (24.5) c. Electric insulation boots (25.0) d. Electric insulation boots (25.5) e. Electric insulation boots (26.0) f. Electric insulation boots (26.5) g. Electric insulation boots (27.0) h. Electric insulation boots (28.0)</p>	<ul style="list-style-type: none"> • When you are in contact with exposed live wiring of a damaged vehicle • To prevent the risk of electric shock

6. PRECAUTIONS ON REMOVING OUTLANDER PHEV MAIN DRIVE LITHIUM-ION BATTERY FROM VEHICLE

1. This vehicle has a high-voltage (maximum 336V) circuit. If the vehicle is handled incorrectly, electric leakage or shock may occur resulting in serious injury or death. Service technicians/engineers who perform inspection and service related to the high-voltage circuit of the electric vehicles are obligated to observe (national legal requirements) proper safety procedure outlined in this guide and use personal protective equipment.
2. Two types of batteries are used on the Outlander PHEV, a normal 12V lead battery (auxiliary battery) and a special 336V (maximum) high-voltage lithium-ion battery (Main drive battery). When scrapping the Outlander PHEV, removal of these two batteries is required. Dispose of the lead battery in the same manner as that of a conventional vehicle lead battery.
3. Do not use heavy machinery to remove an Outlander PHEV lithium-ion main drive battery on a vehicle that is to be scrapped as the battery may still be in a charged state. If the lithium-ion main drive battery is damaged, using methods to cut it out or use of heavy machinery may cause sparks, fire or fluid leakage resulting in an accident.

Note: If the Outlander PHEV lithium-ion main drive battery is damaged in any way during the removal process by heavy machinery (equipment) or other methods not outlined in this guide, collection/recycling of the battery may be refused due to safety concerns in transporting a damaged battery.

Mitsubishi Motors Corporation is not responsible for any accident or damage caused by use (including modification) of the Outlander PHEV drive battery, if it is mounted on or used on any other vehicle other than the Outlander PHEV.

Never resell or transfer a wrecked or rebuilt Outlander PHEV. A wrecker, salvage yard, body shop, insurance company, dismantler, private party etc., who conducts the resale or transfer of a wrecked or rebuilt Outlander PHEV may be liable if an accident occurs.

7. REMOVAL AND DISPOSAL OF THE OUTLANDER PHEV MAIN DRIVE LITHIUM-ION BATTERY FROM A SCRAP VEHICLE

Recommendations when and after the Outlander PHEV drive battery is removed from a scrap vehicle.

- (1) Before proceeding with the main drive lithium-ion battery removal operation, be sure to remove the service plug. (For details, refer to the relevant sections on "How to remove Outlander PHEV main drive battery" in this manual.) Before removal operation, be sure to remove the service plug first. Do not overhaul the high-voltage portion or remove, disassemble, and/or cut the high-voltage wiring (orange) and its connection with the service plug connected as serious injury or death may occur.
- (2) Never resell, transfer, modify, etc. a main drive lithium-ion battery. Your cooperation in safe collecting of Outlander PHEV drive battery that has been removed from a scrap vehicle will be appreciated. Collection/recycling information can be found at:
<http://global.ev-life.com/recycle/>.
 - a) Batteries not collected properly pose a safety risk that can result in serious injury or death.
 - b) If the Outlander PHEV main drive battery is used or modified for use on any vehicle other than the Outlander PHEV, an accident such as electric shock, heat, smoke, fire, or explosion may occur, resulting in serious injury or death.

OUTLANDER PHEV MAIN DRIVE LITHIUM-ION BATTERY REMOVAL PROCEDURE

1. Mitsubishi Motors Corporation is not responsible for any accident or damage caused by misuse (including modification) of the Outlander PHEV main drive battery.
2. The Outlander PHEV main drive battery is a Lithium-ion battery, handle with care so as not to damage the battery while removing it. If the drive battery is severely damaged, even after the high voltage circuit has been shut off, there is still a risk of electrical shock and/or fire.
3. Inspection/Test of protective equipment, blotter storage. Check and store the protective equipment in accordance with national legal requirements.

PROTECTIVE EQUIPMENT (REFERENCE ONLY)



Use protective equipment which complies with national legal requirements.

8. INSPECTION PROCEDURE FOR MAIN DRIVE LITHIUM-ION BATTERY

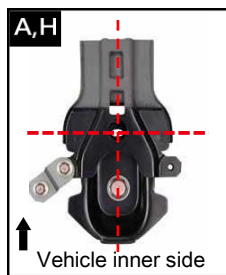
1. If any abnormality, damage or defect is found after inspection, replace the main drive battery.

1) Check if there are diagnostic trouble codes stored.

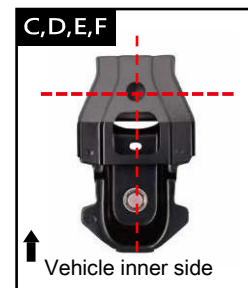
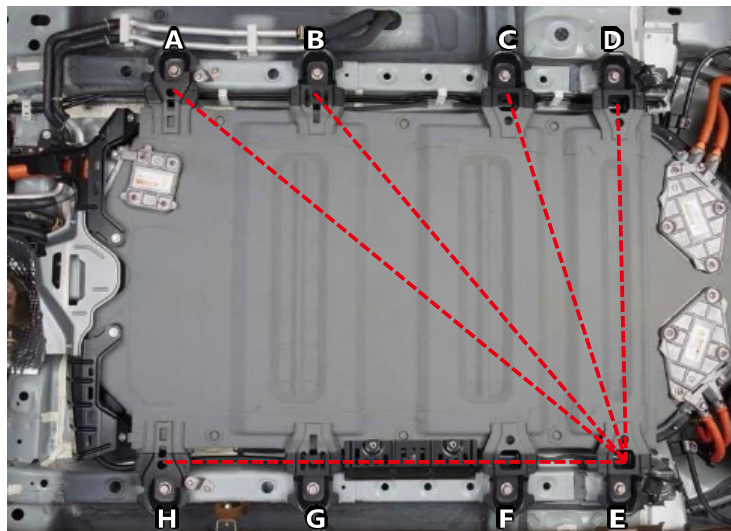
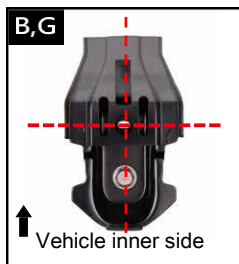
2) Check if the battery tray and frame is cracked or damaged.

3) MEASURE THE DISTANCES ON THE SHEETMETAL TRAY (DRIVE BATTERY).

Perform the measurement using the tracking gauge, convex, or other tool. The indicated numbers are provided for reference.



Front of Vehicle



No.	Measurement Point		Measured distance
	Measurement reference point	Measurement end point	Dimension (mm)
1	E	A	1208.8
2	E	B	979.8
3	E	C	720.2
4	E	D	678.0
5	E	F	243.0
6	E	G	655.6
7	E	H	964.9

9. MAIN DRIVE LITHIUM-ION BATTERY REMOVAL PROCEDURE

⚠ DANGER

- Wear electric insulation “personal protective equipment” such as gloves etc., when removing the service plug or when working on high voltage components.
- Do not disassemble any component of the main drive lithium-ion battery other than those described in this manual.

Before starting procedures

Discharge Refrigerant from Battery Cooling Unit (HVAC)

Procedure 1

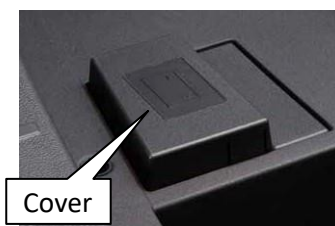
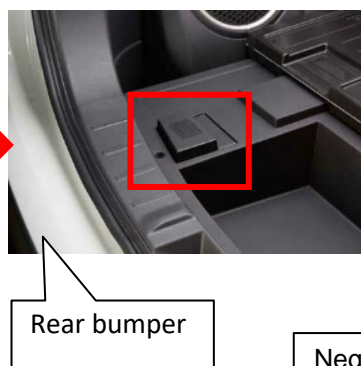
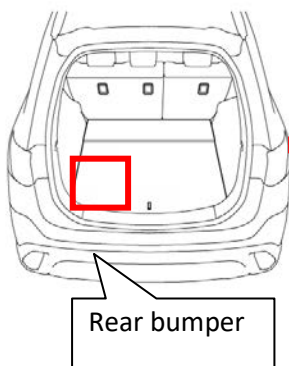
Removing Service Lid Cover

*Please use the check sheet on page 34.

- ① Turn off the power supply mode of the electric motor

⚠ WARNING

Wait two minutes after turning off power switch before proceeding.



Negative terminal for 12V battery

- ② Disconnect the negative terminal of the auxiliary battery.

⚠ CAUTION

Rear hatch lock will be disabled once the 12V negative battery terminal is disconnected.



③ Remove the battery maintenance lid.



Pull up service lid cover



Back Side of Lid

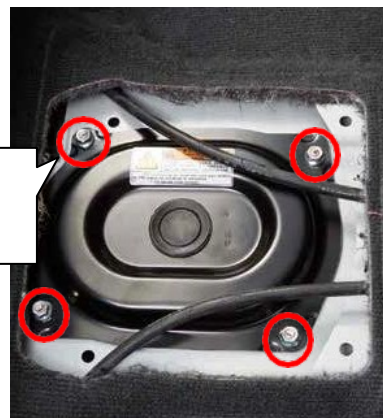


Procedure 2

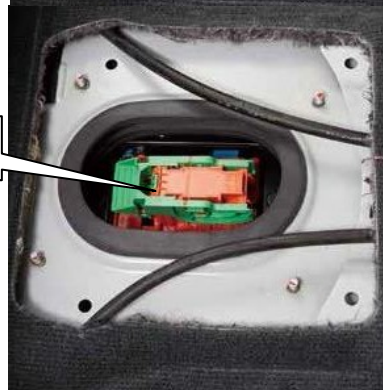
Remove the Service Lid

*Please use the check sheet on page 34.

Remove the service lid 4 mounting nuts (10 mm bolt head) and then remove the service lid



Service Plug



Procedure 3

Remove Service Plug

*Please use the check sheet on page 34.

WARNING

The voltage of the smooth condenser in the MCU must be discharged thoroughly. Wait 5 minutes after disconnecting negative terminal of 12V battery before removing the service plug.

DANGER

Wear protective electric insulation gloves when removing the service plug.



- ① Lift the service plug lever and then, pull the service plug.



Lever lock

- ② Remove the service plug.



DANGER

Remove the service plug completely as current is being supplied by the main drive lithium-ion battery during this procedure. Failure to remove the plug completely or use of personal protective equipment could lead to serious injury or death. After removing the service plug, keep it in a secure place away from other dismantlers or technicians to prevent accidental handling/improper reinstallation.

⚠ DANGER

After removing the service plug, insulate the open safety plug receptacle of the main drive battery opening to prevent serious injury or death from electrical shock.



Electric insulation tape

Procedure 4

Remove Rubber Boot from Body

Remove the rubber boot from the body after service plug was removed.



Rubber boot

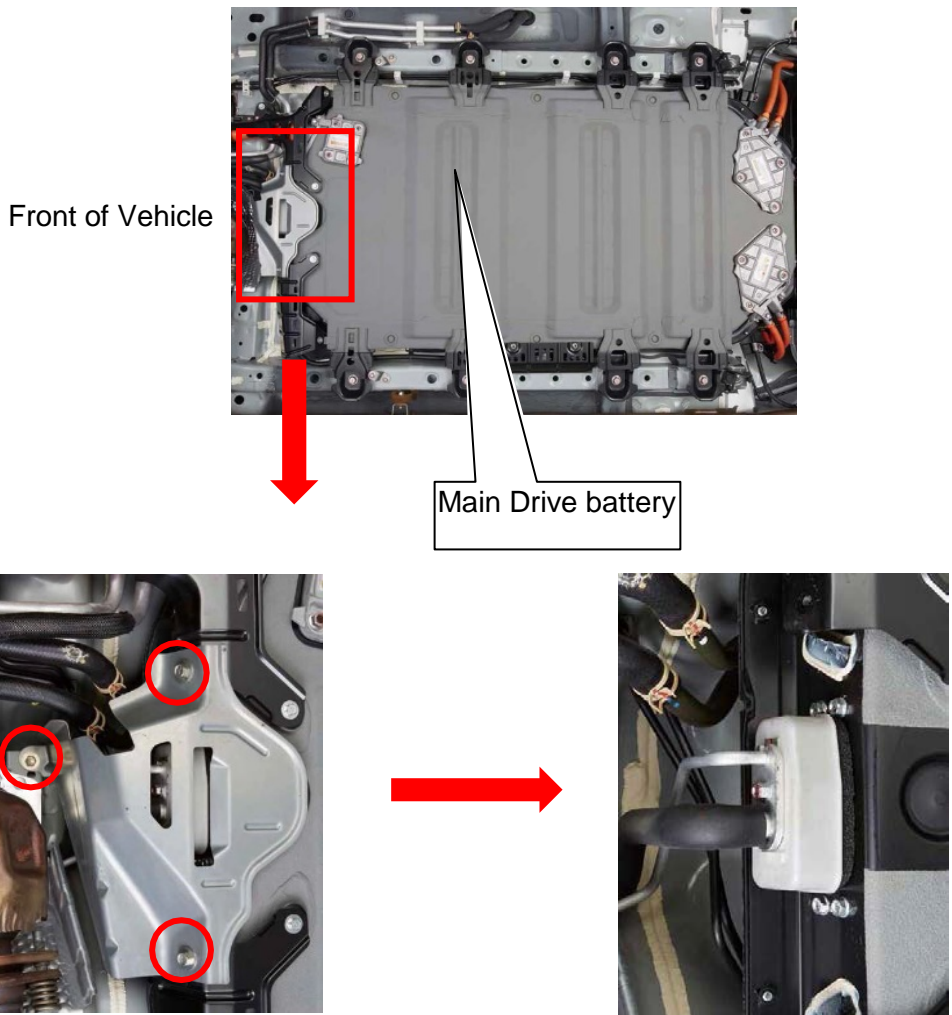
⚠ DANGER

Do not disassemble any component of the main drive lithium-ion battery other than those described in this manual and do not perform any other work that would possibly damage battery assembly.

Damage to battery may cause smoke, heat, fire and explosion which can lead to personal injury or death.

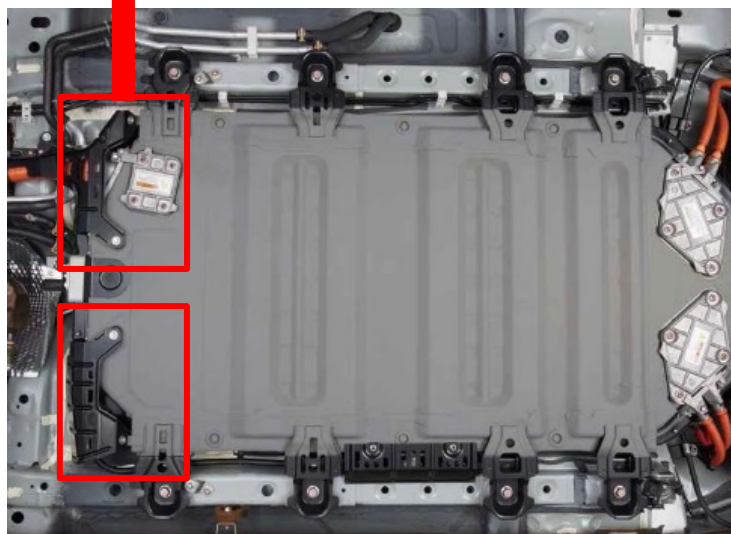
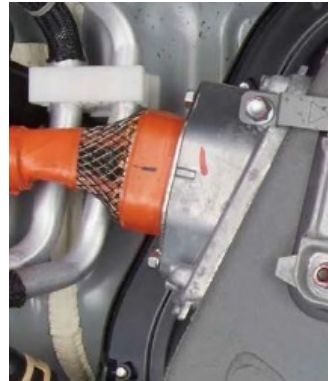
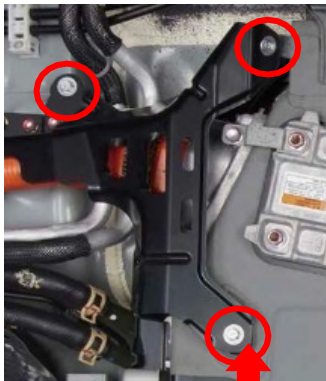
Procedure 5
Remove Front Center Protector

***Note:** Photo below is example of vehicle with fast charger.
Vehicles equipped with fast charger have 3 service lids.
Vehicles **NOT** equipped with fast charger have 2 service lids.



Procedure 6

Remove Front Left Side Battery Protector



Front of Vehicle

Procedure 7

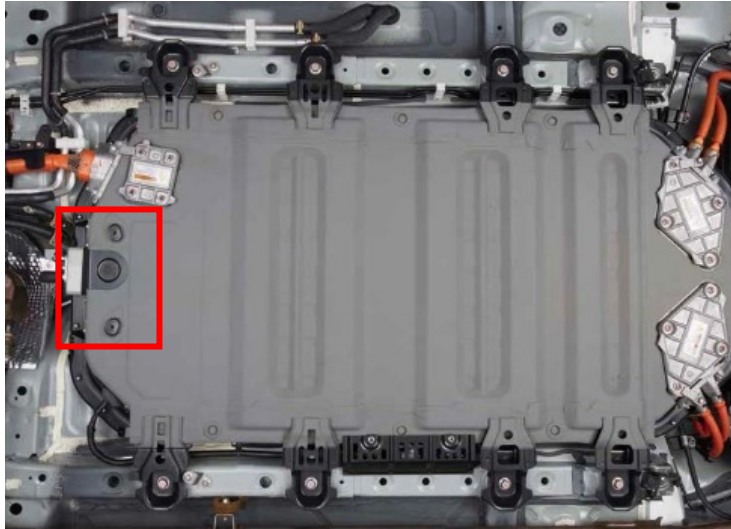
Remove Front Right-Side Battery Protector



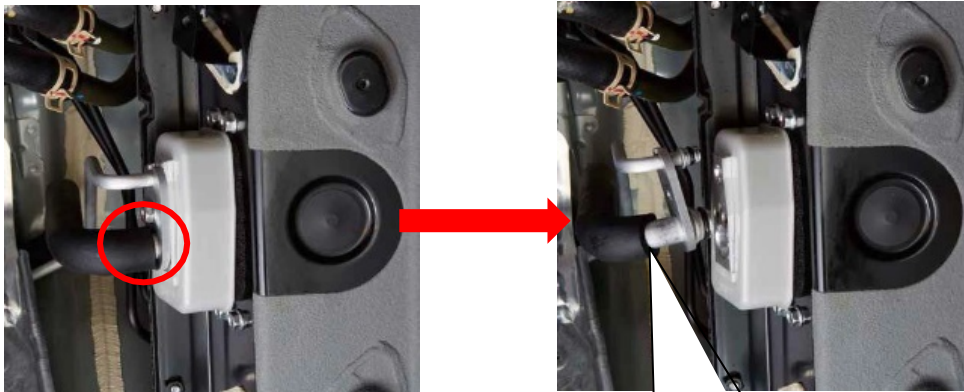
Procedure 8

Remove A/C Pipe (recover A/C refrigerant prior to removal, refrigerant type is R1234YF)

Front of Vehicle



Remove mounting bolt and then pull off pipe from battery.

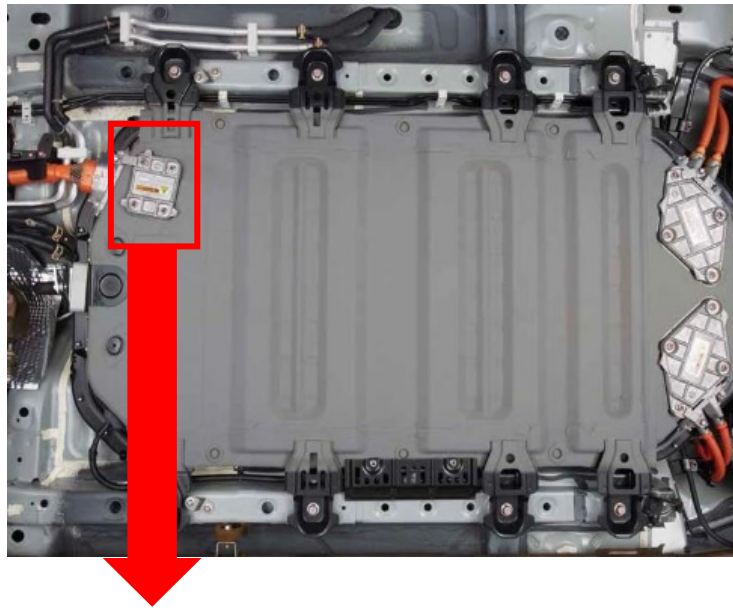


Pull off pipe from battery

Procedure 9

Remove Battery Grounding Bracket

Front of Vehicle



Procedure 10

Remove Front Service Lid

⚠ DANGER

Always wear Personal Protective Equipment (PPE: electric insulator glove) and use insulated tools when removing the front service lid.



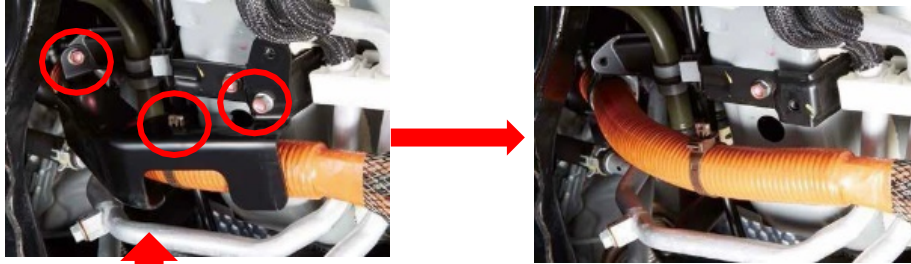
* **Note:** Removed O-ring will be used in Procedure 25.

Back side of lid

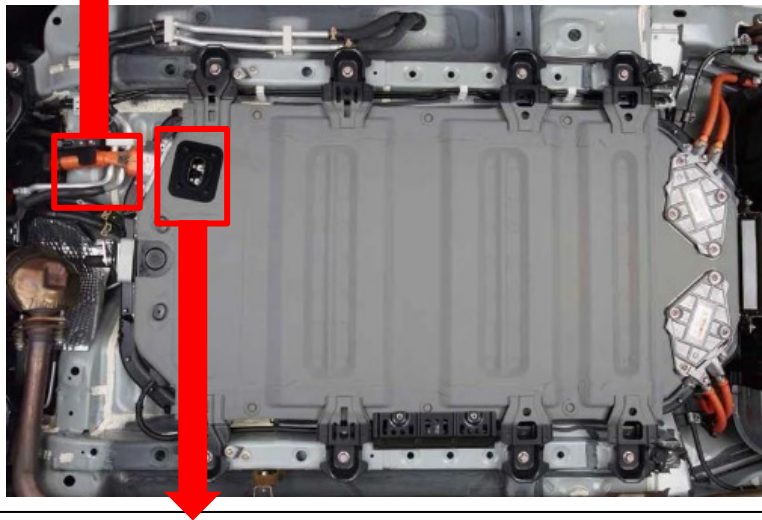


Procedure 11

Remove Cable Protector



Front of Vehicle



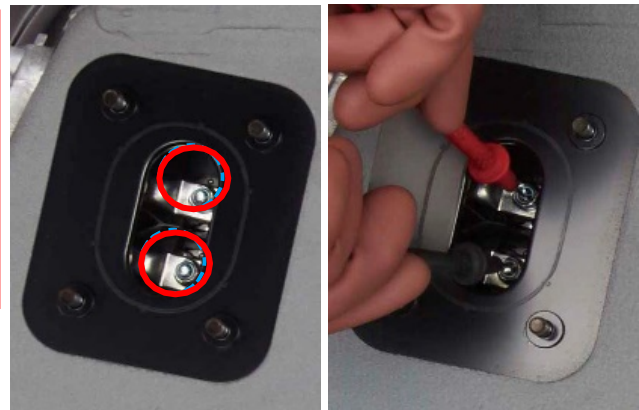
Measuring High Voltage (DC)

Check voltage using high voltage circuit tester.

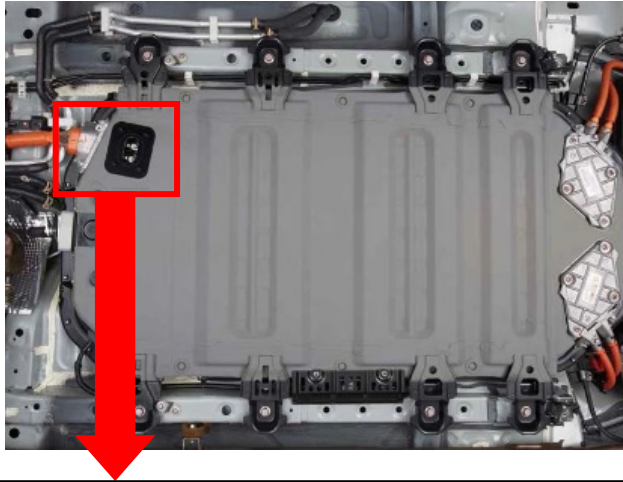
- Normal voltage: $\pm 1V$
- If value is not within $\pm 1V$ stop and contact the nearest Mitsubishi dealer for service. (Voltage may increase to Max 336V)

⚠ DANGER

Always wear Personal Protective Equipment (PPE: electric insulator gloves) and use insulated tools when measuring voltage.



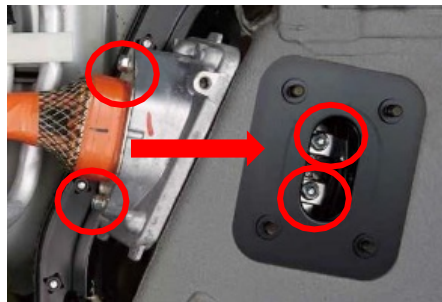
Front of Vehicle



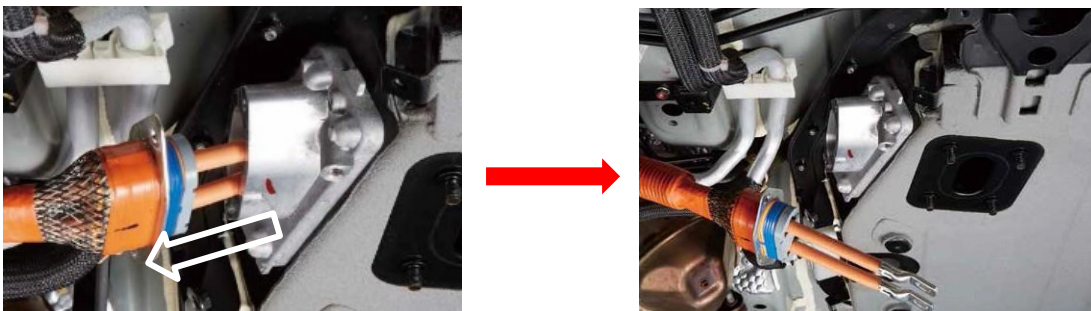
Procedure 12

Remove Inner and Outer Cable from Main Drive Battery

- ① Remove 2 inner cable mounting bolts.
- ② Remove 2 outer cable mounting bolts.



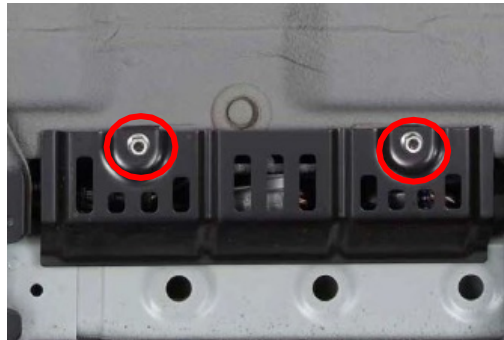
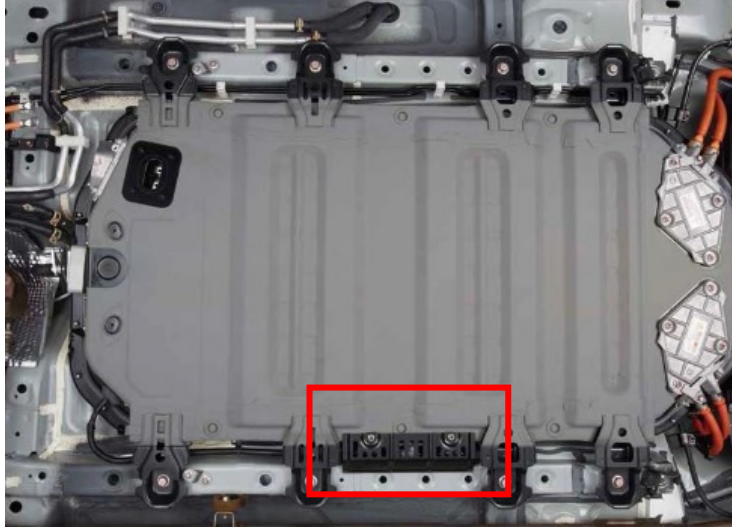
- ③ Remove battery front cable (positive and negative) from drive battery assembly.



Procedure 13

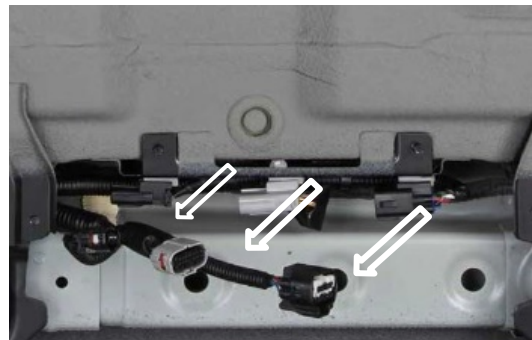
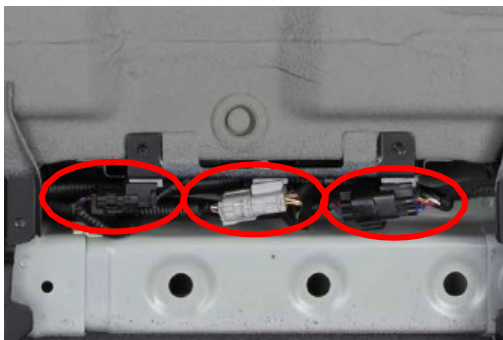
Remove Battery Side Protector

Front of Vehicle



Procedure 14

Remove 3 (12V) Connectors



Procedure 15

Remove Battery Grounding Bracket

Front of Vehicle

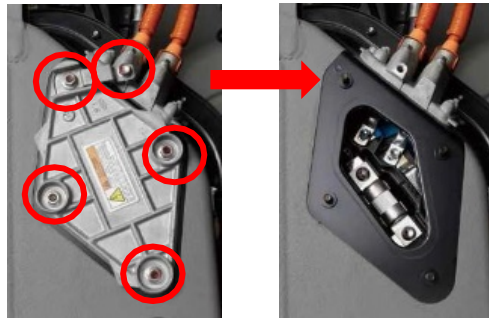


Procedure 16

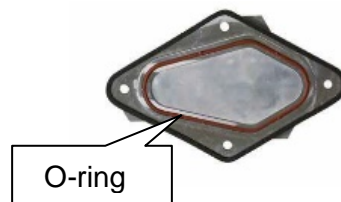
Remove Rear Service Lid

⚠ DANGER

Always wear Personal Protective Equipment (PPE: electric insulator gloves) and use insulated tools when measuring voltage.



* Note: Removed O-ring will be used in Procedure 25



Front of Vehicle



**Measuring High Voltage (DC)
Check voltage using high voltage circuit tester.**

- Normal voltage: **$\pm 1V$**
- In case value is not within **$\pm 1V$ stop and** contact the nearest Mitsubishi dealer for service. (Voltage may increase to Max 336V)

⚠ DANGER

Always wear Personal Protective Equipment (PPE: electric insulator gloves) and use insulated tools when measuring voltage.



Front of Vehicle



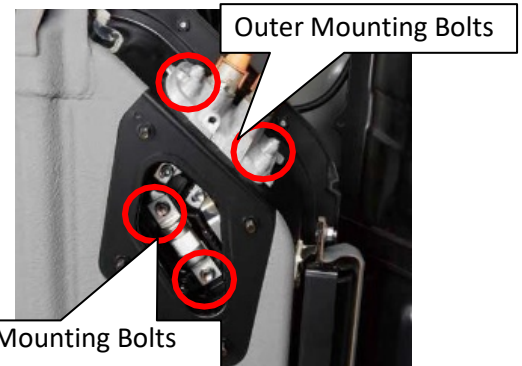
Procedure 17

Remove Main Drive Battery Rear Cable (Positive and Negative)

① Using insulated tools remove 2 inner cable mounting bolts.

② Using insulated tools remove 2 outer mounting bolts.

③ Remove drive battery rear cable.



Procedure 18

Remove Battery Grounding Bracket (vehicles with fast charger only)

Front of Vehicle

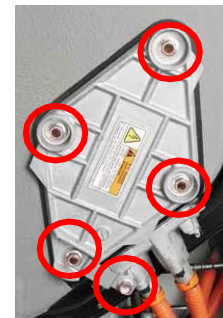


Procedure 19

Remove Rear Service Lid (vehicles with fast charger only)

⚠ DANGER

Always wear Personal Protective Equipment (PPE: electric insulator gloves) and use insulated tools when removing service lid.



* **Note:** Removed O-ring will be used in Procedure 25

Front of Vehicle

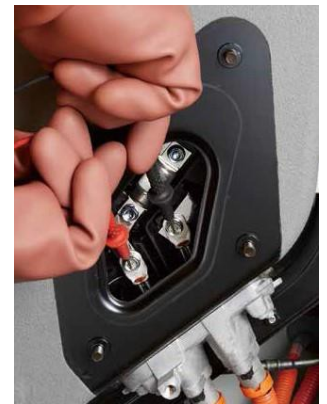


Measuring High Voltage (DC)
Check voltage using high voltage circuit tester.

- Normal voltage: **$\pm 1V$**
- In case value is not within **$\pm 1V$ stop and** contact the nearest Mitsubishi dealer for service. (Voltage may increase to Max 336V)

 **DANGER**

Always wear Personal Protective Equipment (PPE: electric insulator gloves) and use insulated tools when measuring voltage.



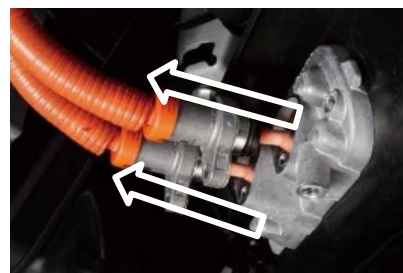
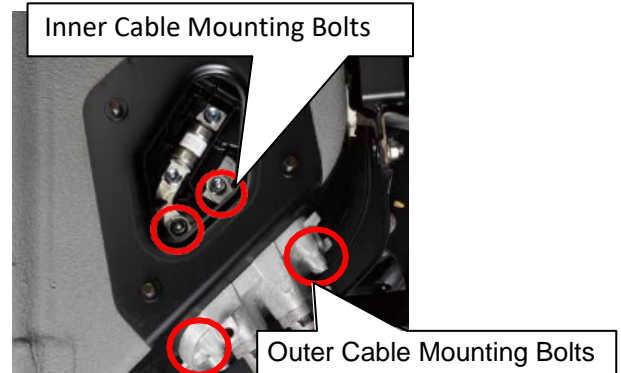
Front of Vehicle



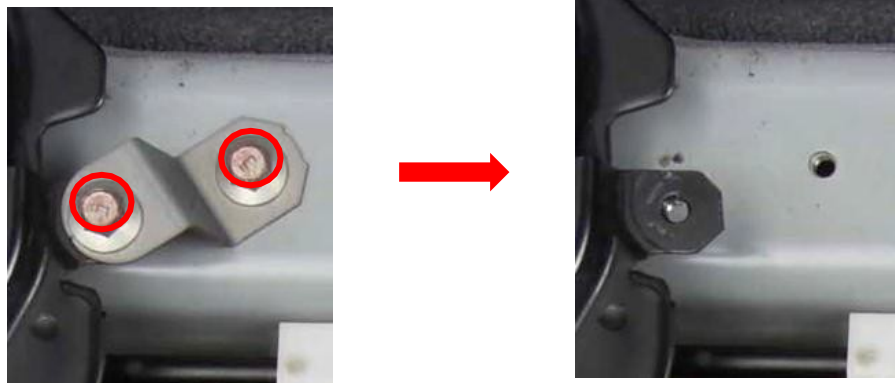
Procedure 20

Remove EV Charge Cable from Main Drive Battery (vehicles with fast charger only)

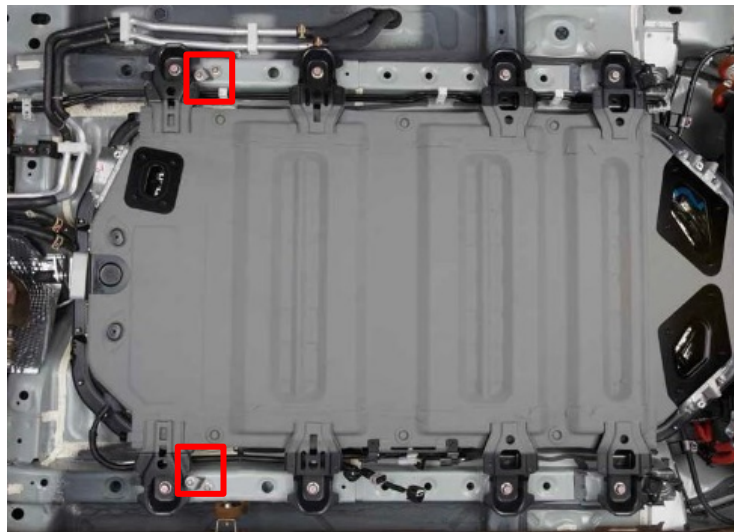
- ① Using insulated tools remove 2 inner cable mounting bolts.
- ② Using insulated remove 2 outer cable bolts.
- ③ Remove EV charge cable from main drive battery.



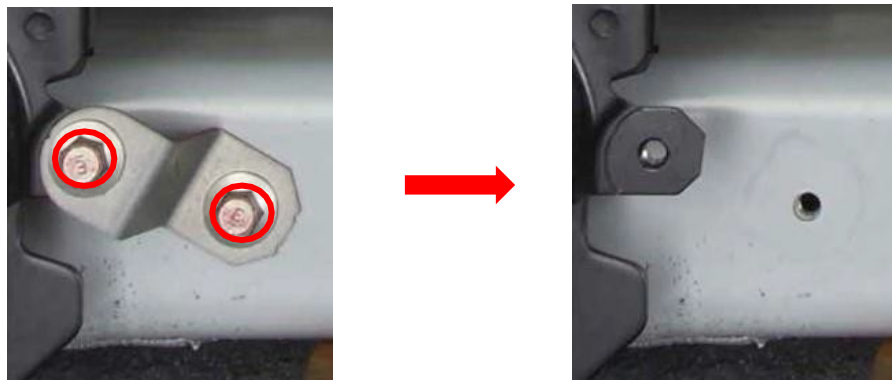
Procedure 21
Remove Grounding Bracket



Front of Vehicle

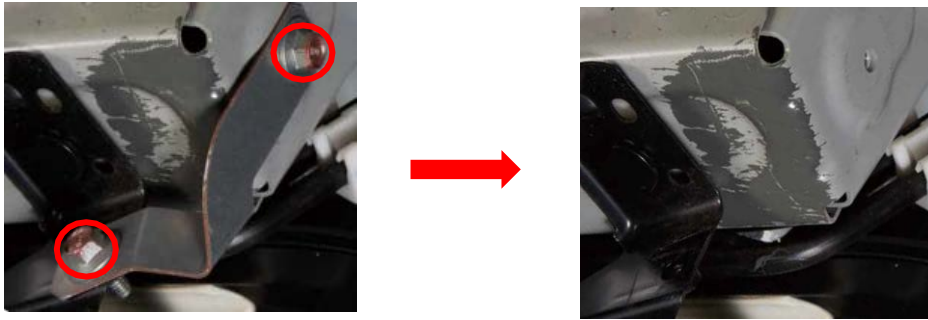


Procedure 22
Remove Grounding Bracket



Procedure 23

Remove left side battery grounding bracket

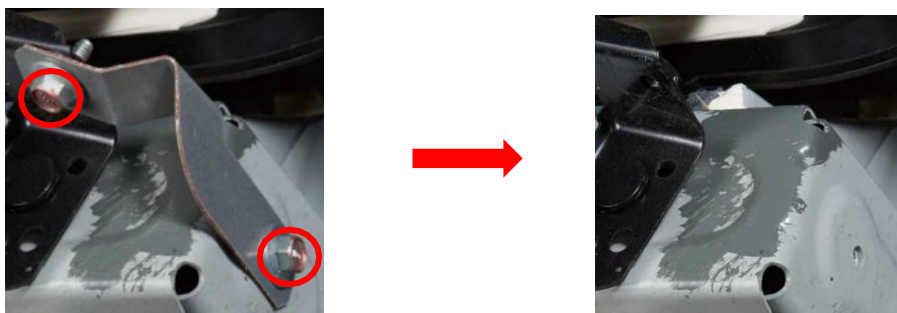


Front of Vehicle



Procedure 24

Remove right side battery grounding bracket



Procedure 25

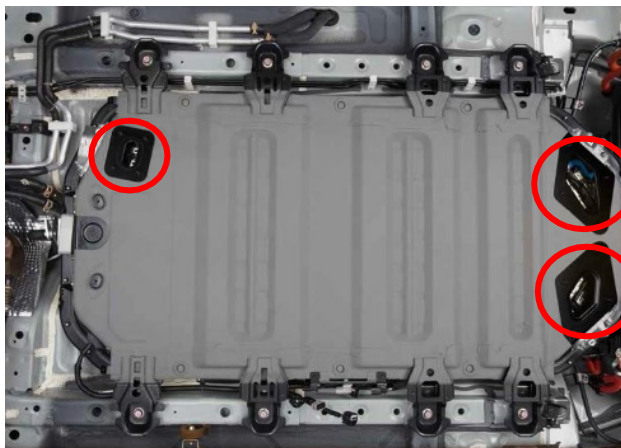
Remove battery assembly from vehicle

DANGER

Handle with care while working on the battery. If the drive battery is severely damaged, there is a risk of electrical shock and/or fire even after the high voltage circuit has been shut off.

- ① Install service lid and O-ring to battery to prevent any water penetration into battery.

Front of Vehicle



O-ring must be assembled onto service lid before installing service lid to drive battery.

Step 1: Assemble an O-ring and service lid.

Step 2: Attach the assembled service lid and O-ring to drive battery.



Service access lid

Front of Vehicle



② Use the following special tools (or equivalent) and 2 wood blocks.
(RH: 90 x 90 x 1500mm, LH: 90 x 90 x 1650mm)

(i) Special tool: EV battery cart (MB992336) Remove the cart handle and set the 2 wood blocks.

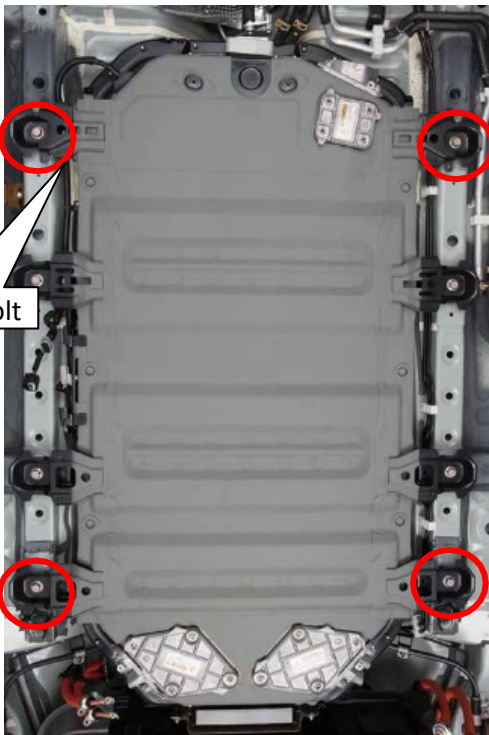
(ii) Special tool EV battery lifting car (MB992659) and 2 wood blocks.



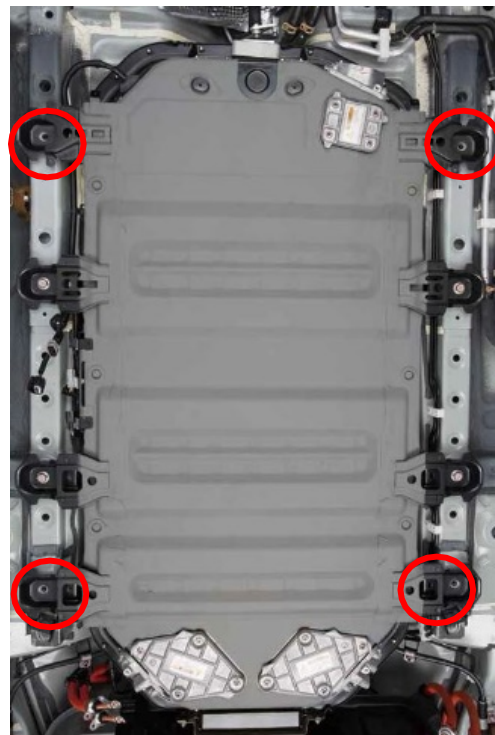
Check owner's manual for details about how to use battery cart

③ Remove 2 mounting bolts in both front and rear.

Front of Vehicle

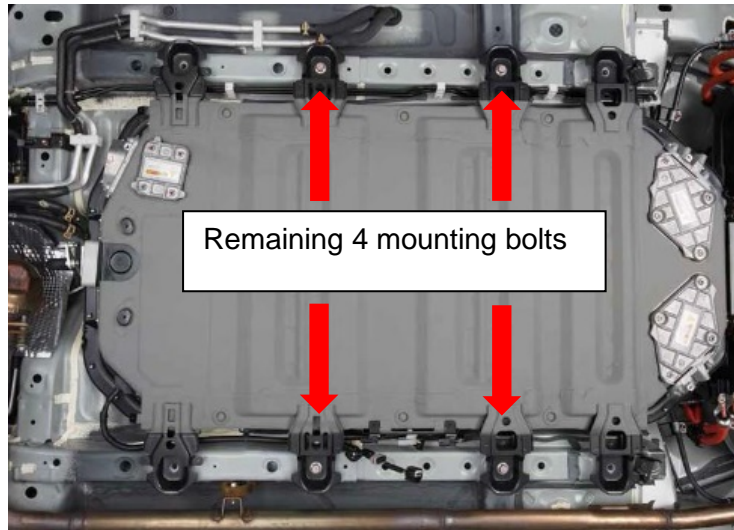


Front of Vehicle

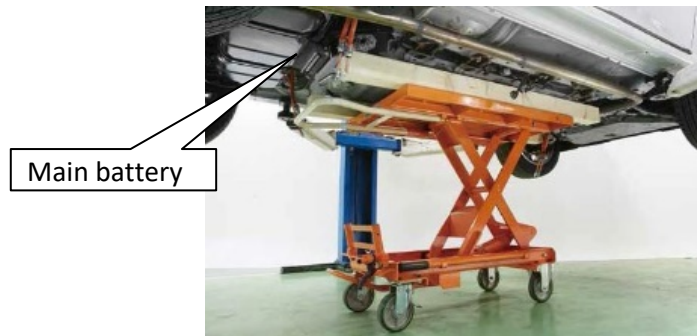


- ④ Loosen 4 remaining bolts

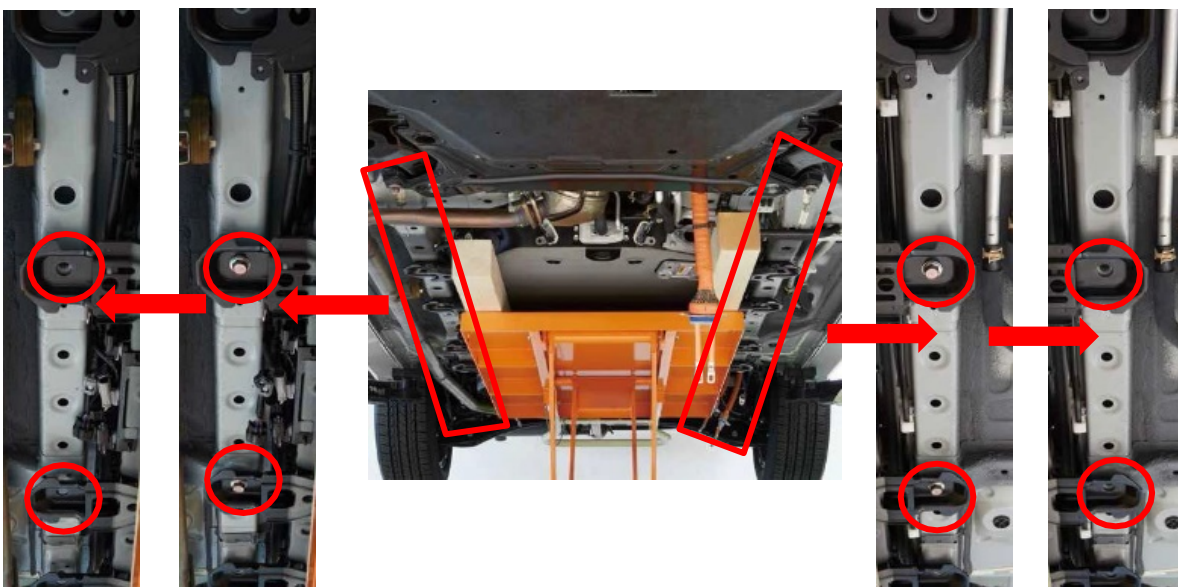
Front of Vehicle



- ⑤ Lower the vehicle with the lift until the bottom of the drive battery just makes contact with the wood blocks.



- ⑥ Remove all 4 of the mounting bolts on the drive battery.



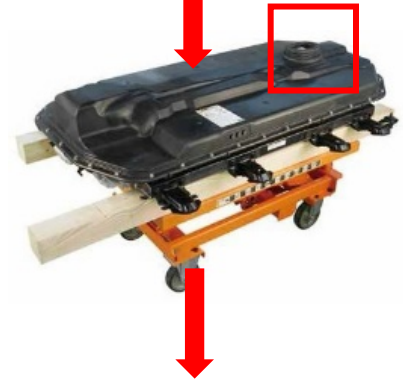
- ⑦ Raise the vehicle and remove the main drive battery.

Main battery



CAUTION

Be careful not to damage the wiring harness.



DANGER

- Store the drive battery in a dry safe place.
- Do not expose the drive battery to fire or heat of 140°F (60 °C) or more

- ⑧ Cover the service plug of the main drive battery with a plastic sheet or other material so that no water, foreign material, etc. may enter the inside of the drive battery.



- ⑨ When moving the drive battery with a crane or other device, use the EV battery sling tool kit (special tool: MB992343) to sling it up in accordance with the following procedure.

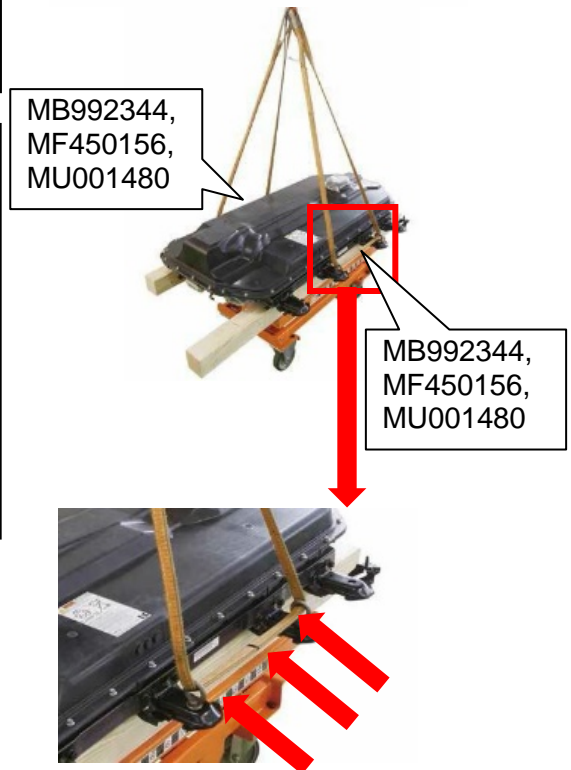
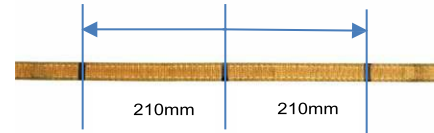
EV battery sling tool kit(MB992343)
Eye bolts (MB992344 x 4)
EV battery sling belts (MB992345 x 2)
Washers (MF450156 x 8)
Hexagon nuts (MU001480 x 4)

NOTE: For how to use the EV battery sling belt, refer to the provided "Operation Manual"








- (i) Mark center of the EV battery sling belt and positions 210 mm right and left from center.

Remarks: The marking is intended for alignment of battery sling belt and eye bolt.

- (ii) Install the eye bolts, washers and nuts onto positions (2 each at the right and left) on the drive battery.
- (iii) Pass the EV battery sling belt through the eye bolts and align the marks on the EV battery sling belt to the eye bolt positions.



* Service Plug Removal Check Sheet

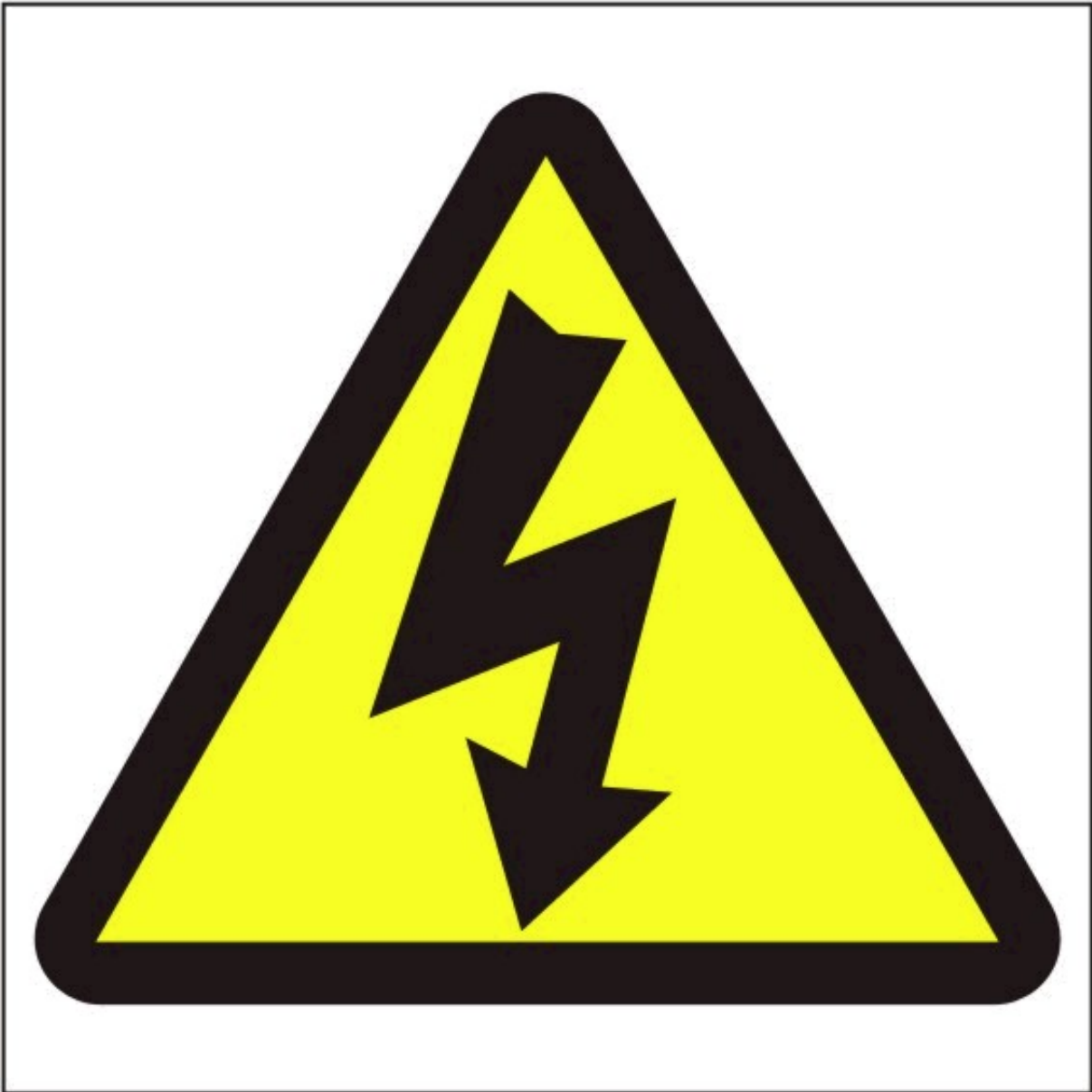
Check	#	Procedure	Notes
	1- ①	Power switch off.	 WARNING - Wait for 2 minutes. - There is a possibility that the power switch is broken.
Wait for 2 minutes!			
	1- ②	Remove the ground terminal of the 12V battery.	 WARNING 12v battery is located in the rear cargo area. The rear hatch release lever will become disabled after battery power is disconnected. Do not close the rear hatch until all work is completed.
	1- ③	Remove service lid cover.	
	2	Remove service lid nut and service lid.	 WARNING Wait for 5 minutes to allow voltage to lower. Voltage of condenser must be sufficiently lowered.
Wait for 5 minutes!			
	3- ①	Pull up service plug lever.	 DANGER Wear insulated gloves and use insulated tools when unplugging the service plug.  - Pull out service plug completely as the plug is energized while removing.
	3- ②	Remove service plug.	
	*	Be sure to carry out preliminary inspection when detaching each high voltage part. (ex. high voltage cable)	 DANGER Wear insulated gloves and use insulated tools when unplugging the service plug or working on any of the high voltage (orange) cables. 

*Removing the service plug is an extremely important procedure in all work, so copy this page and use it.

**DO NOT TOUCH!
DANGER!
IN PROGRESS!!
HIGH VOLTAGE WORK**

**HIGH VOLTAGE WORK
IN PROGRESS!!
DANGER!
DO NOT TOUCH!**

*When doing high-voltage work, please put up this signboard.
Fold along the dotted line and place it on top of the Outlander PHEV's roof.



It is recommended that a warning sign (example provided above) is fixed to or on the vehicle during any emergency work on the vehicle. A sign that complies with local regulation should be used.