

# Your Ultimate Source for OEM Repair Manuals

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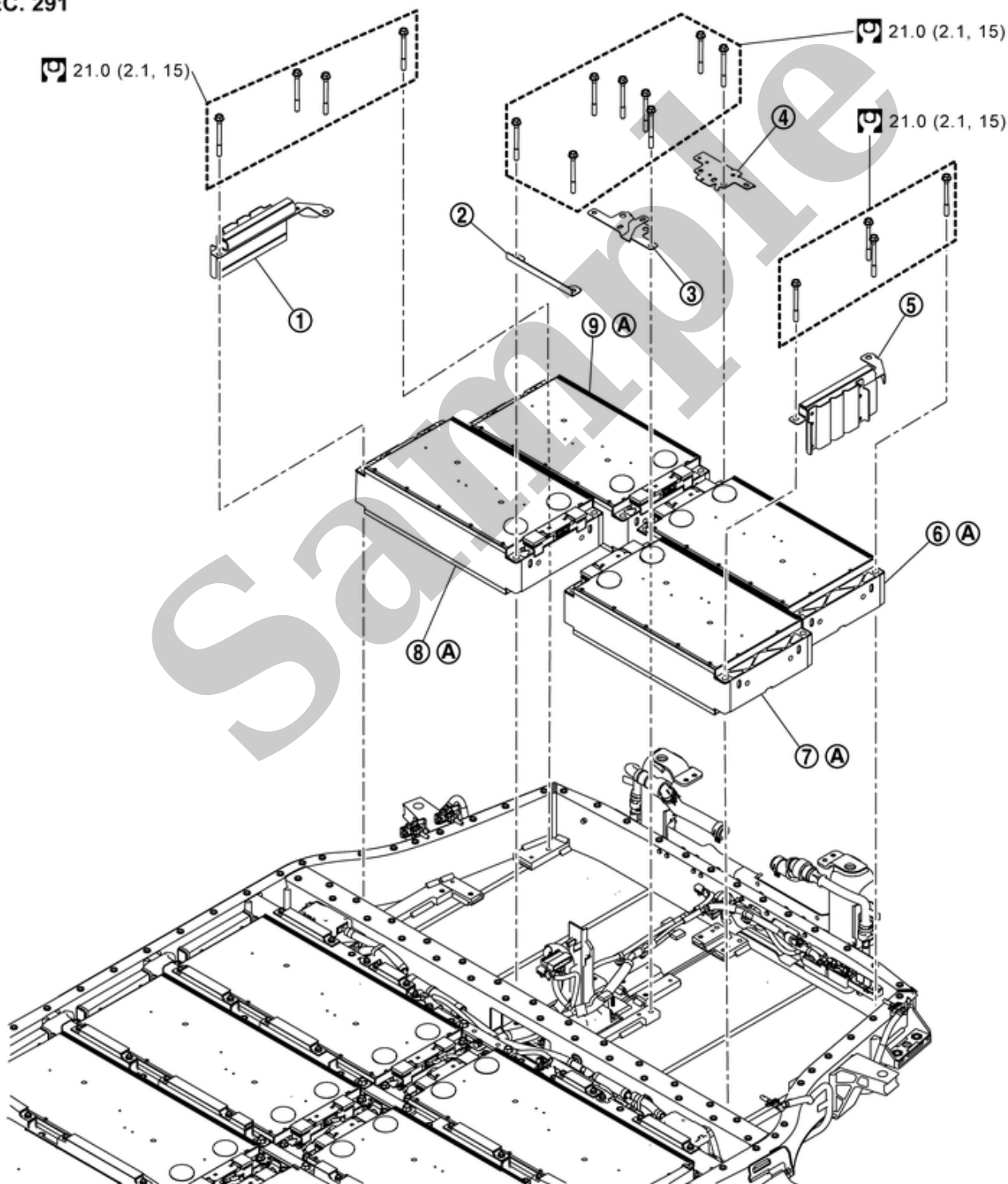
## 2009 NISSAN Navara / Frontier King Cab OEM Service and Repair Workshop Manual

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⑦	Bracket	⑧	Module No.10 (MD10)	⑨	Module No.9 (MD9)
⑩	Module No.8 (MD8)	⑪	Module No.7 (MD7)	⑫	Battery upper floor assembly
⑬	Seal	⑭	Heat shield sheet	⑮	Heat shield sheet
Ⓐ	: Comply with the assembly procedure when installing. <a href="#">Disassembly &amp; Assembly</a>				
⊗	: Always replace after every disassembly.				
🔩	: N·m (kg-m, in-lb)				
🔩	: N·m (kg-m, ft-lb)				



## Rear module stack 1ST floor

### SEC. 291



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①	Bracket	②	Bracket	③	Bracket
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④	Bracket	⑤	Bracket	⑥	Module No.6 (MD6)
⑦	Module No.5 (MD5)	⑧	Module No.12 (MD12)	⑨	Module No.11 (MD11)
Ⓐ	: Comply with the assembly procedure when installing. <a href="#">Disassembly &amp; Assembly</a>				
	: N·m (kg-m, in-lb)				
	: N·m (kg-m, ft-lb)				

Sample

**DANGER:**

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

**WARNING:**

- Be sure to remove the service plug in order to shut off the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- Be sure to put the removed service plug in pocket and carry it or store it in a tool box or other container so that another person does not accidentally connect it while work is in progress.
- Be sure to put on insulating protective gear before beginning work on the high voltage system.
- Clearly identify the persons responsible for high voltage work and ensure that other persons do not touch the vehicle. When not working, cover high voltage components with an anti-static cover sheet or similar item to prevent contact with other persons. Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).
- If the battery pack is to be disassembled, be sure to remove the Li-ion battery controller for preventing electric shock, fire, and damage to parts.

**CAUTION:**

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

## ENVIRONMENT FOR LI-ION BATTERY DISASSEMBLY WORK

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### 1 Must be an indoor environment.

- The environment must utilize a shutter or other means to shut out the outside environment and prevent rain, snow, dust, or other substances from entering.
- The environment must not cause the intrusion of sweat during work, or cause condensation to occur due to high temperature or humidity.

### 2 Metal powder, grease, and other foreign substances must not enter.

- The indoor environment must also prevent metal powder, grease, and other foreign substances from entering due to maintenance performed on other vehicles and other sources during disassembly work.
- If there is a risk of the above substances entering, take appropriate countermeasures, such as use of a vinyl curtain or an equivalent to shut out the outside environment.

### 3 The floor must be dry.

- The floor must not be wet as a result of factors such as vehicle entry during rain or snow.

### 4 Work space

- The work space must be approximately the size of one entire vehicle.
- Take appropriate countermeasures so that persons other than the operator do not enter the work space, such as by placing signs indicating that disassembly work is in progress.

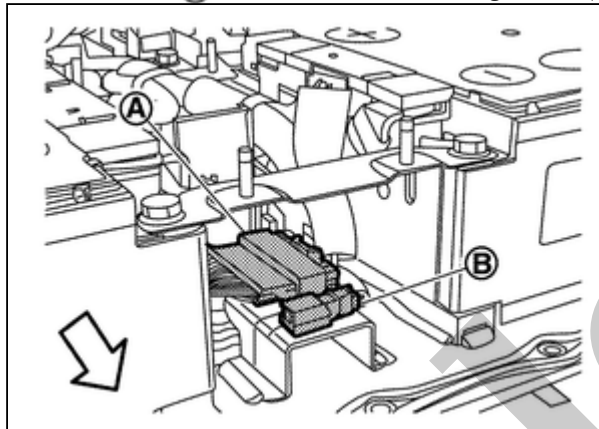
### 5 Standard fire fighting equipment

- Always place a standard fire fighting equipment in the disassembly work area.
- Depending on type of fire (vehicle or battery) use standard fire fighting equipment (water or extinguisher).

# BATTERY UPPER FLOOR ASSEMBLY (WITH MODULE)

## DISASSEMBLY

- 1 Remove battery pack upper case rear. Refer to [Removal & Installation](#).
- 2 Remove service plug bracket. Refer to [Disassembly & Assembly](#).
- 3 Remove the cell voltage detection harness connector (A) and the interlock detecting switch (service plug ) harness connector (B) .




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: Battery front

### WARNING:

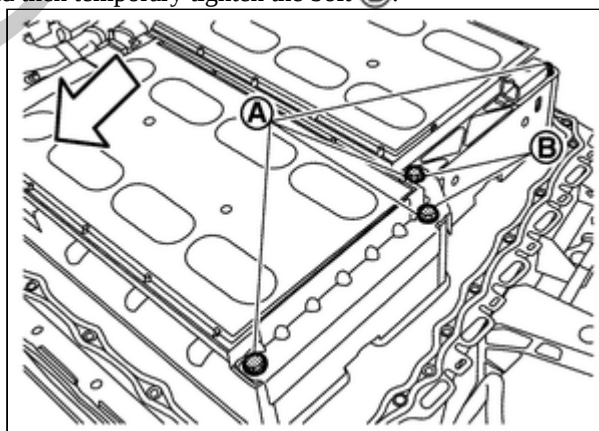
 To prevent electric shock, wear insulated protective gear.



### CAUTION:

Because there is the danger of electric shock, immediately insulate removed connector with insulating tape.

- 4 Remove the bolt (A) and bracket. And then temporary tighten the bolt (B).



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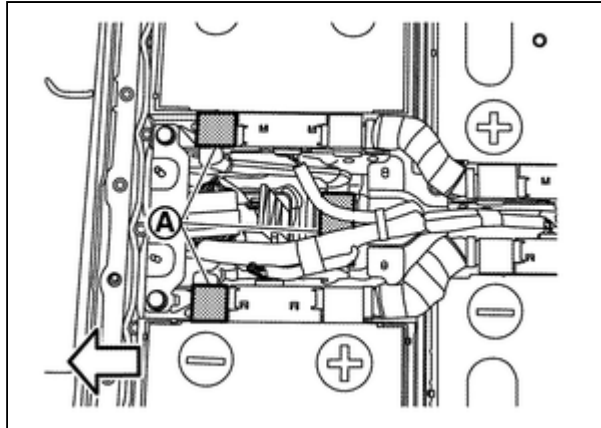
: Battery front

### WARNING:

 To prevent electric shock, wear insulated protective gear and use insulated tools.



5 Open the busbar cover (A). And then remove the bolt and nut.



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: Battery front

**WARNING:**

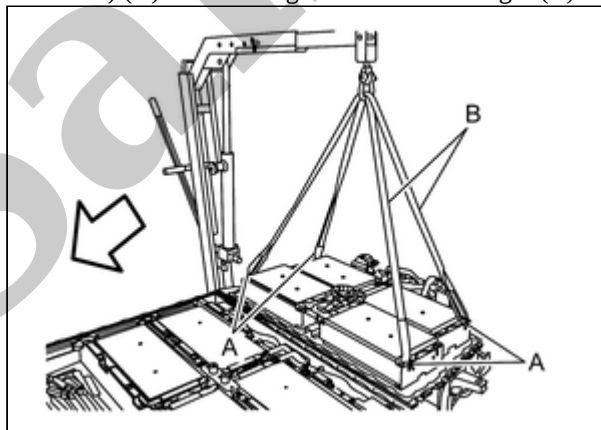


To prevent electric shock, wear insulated protective gear and use insulated tools.



6 Remove busbar 10 and busbar 16.

7 install carabiners (service part: 299A3 5MP0A) (A) in the lifting holes and belt slinger (B) to the lifting holes.



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: Battery front

**WARNING:**



To prevent electric shock, wear insulated protective gear.



**NOTE:**

Carabiners (service part: 299A3 5MP0A) are packed with new module.

8 Remove bolts. And then remove battery upper floor assembly with module using the mobile floor crane (engine crane).

**WARNING:**



To prevent electric shock, wear insulated protective gear and use insulated tools.



**CAUTION:**

Install the battery cooler plug (service setting part) to the Li-ion battery cooler tube mounting hole of the battery upper floor assembly to prevent the coolant from splashing into the battery pack lower case.

9 Remove the seal from battery pack lower case.

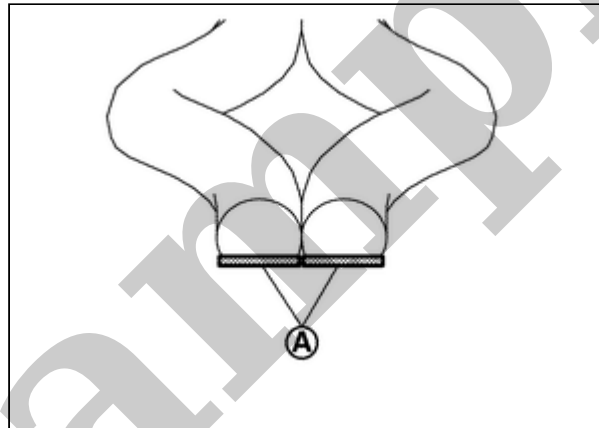
## DISASSEMBLY

1 Check that heat shield sheet is still stuck back of battery upper floor assembly.

2 Install seal to battery upper floor assembly.

**CAUTION:**

The flat side (A) of seal faces battery pack lower case.



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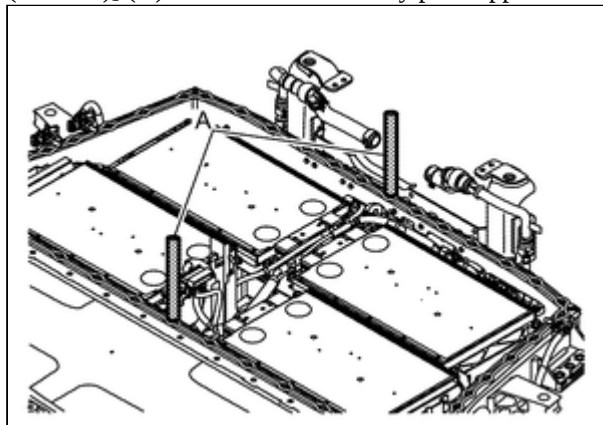
**WARNING:**



To prevent electric shock, wear insulated protective gear.



3 Install guide pin [SST: KV99119600 (J-53348)] (A) to the center of battery pack upper floor assembly.



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**WARNING:**



To prevent electric shock, wear insulated protective gear.



4 Install battery pack upper floor assembly with module to battery pack lower case using the mobile floor crane.

5 Install bolts.

6 Remove guide pin [SST: KV99119600 (J-53348)] (A).

7 Assemble in the reverse order of disassembly.

## MODULE (2ND FLOOR)

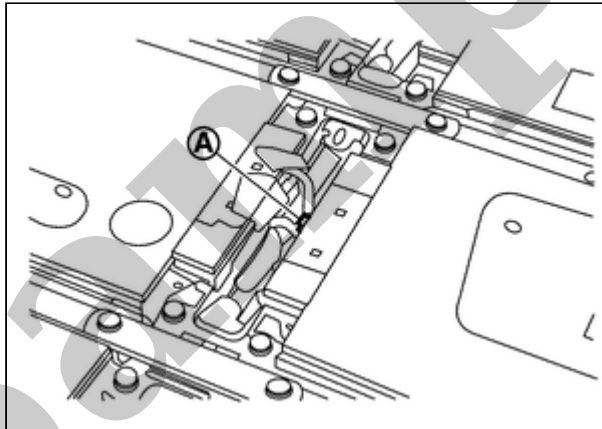
### DISASSEMBLY

1 Remove battery pack upper case rear. Refer to [Removal & Installation](#).

2 Remove service plug bracket. Refer to [Disassembly & Assembly](#).

3 Remove each busbar. Refer to [Disassembly & Assembly](#).

4 Remove harness connector (A) from module.



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**WARNING:**



To prevent electric shock, wear insulated protective gear.



**CAUTION:**

Because there is the danger of electric shock, immediately insulate removed connector with insulating tape.

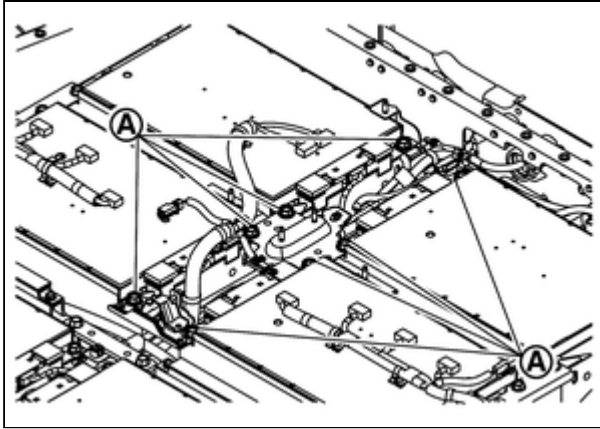


**NOTE:**

Lock of harness connector is located lower side.

5 Remove bracket bolts (A) that contact to the module to be removed.





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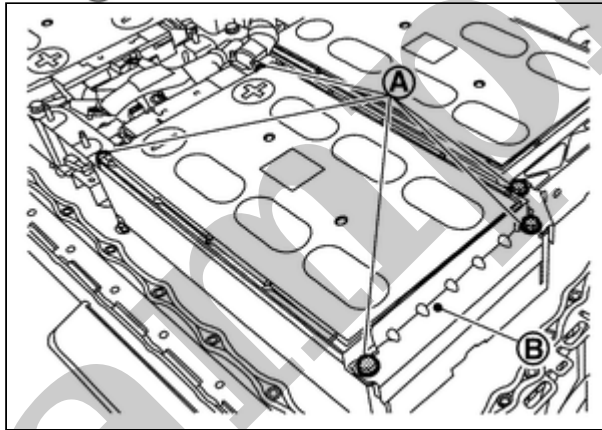
**WARNING:**



To prevent electric shock, wear insulated protective gear and use insulated tools.



6 Remove bolt (A) . And then remove bracket (B).



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**NOTE:**

- The figure shows module No.7 (MD7).

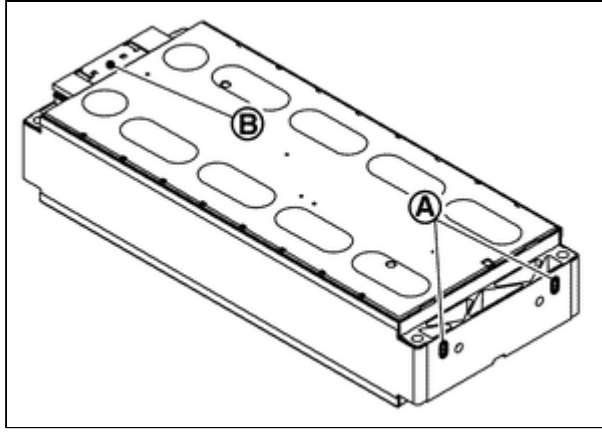
**WARNING:**



To prevent electric shock, wear insulated protective gear and use insulated tools.




7 Hang carabiners (service part: 299A3 5MP0A) in the lifting holes (A) and install belt slinger.



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**WARNING:**

 To prevent electric shock, wear insulated protective gear.



**CAUTION:**

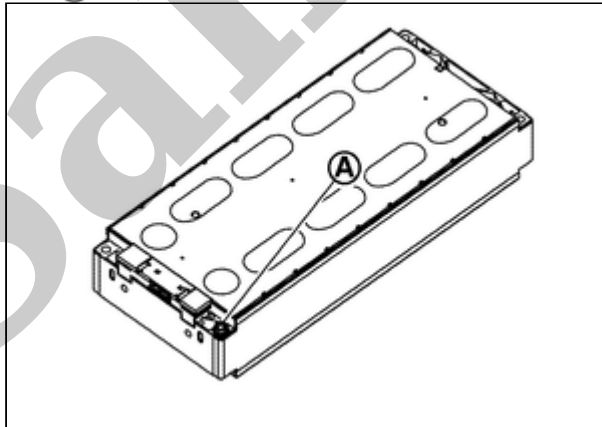
Install carabiners in the lifting holes on the opposite side **(B)** part of the terminal.



**NOTE:**


Carabiners (service part: 299A3 5MP0A) are packed with new module.

8 Install temporarily module mounting bolt **(A)** to terminal side by screwing several rotations.



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**WARNING:**

 To prevent electric shock, wear insulated protective gear.



**NOTE:**

- To prevent movement when removing the module.
- Leave a gap between the bolt head and the module.