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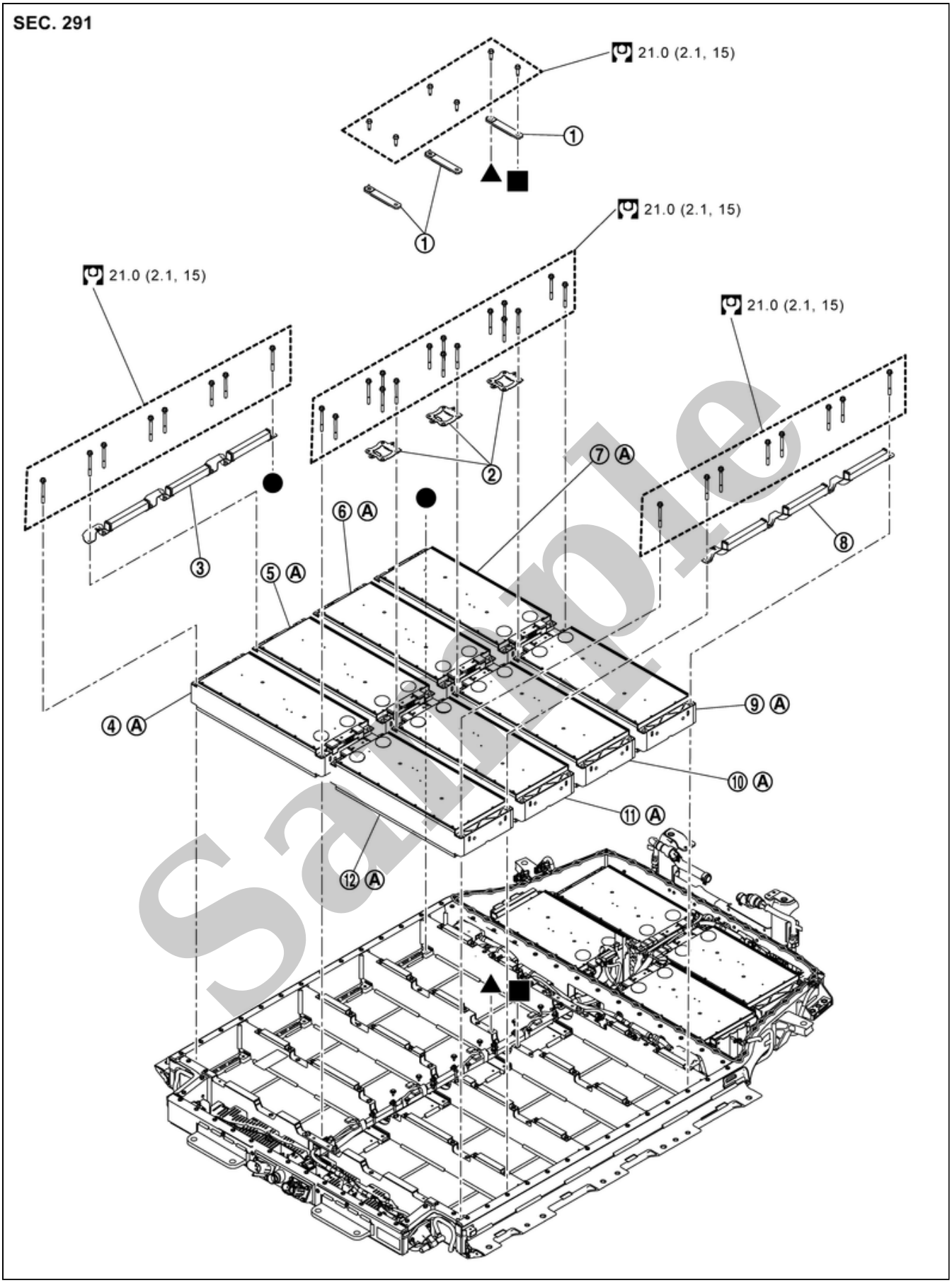
2009 NISSAN NP300 Pickup King Cab OEM Service and Repair Workshop Manual

Go to manual page

Exploded View

RDE-001999651



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①	Bracket	②	Bracket	③	Bracket
④	Module No.16 (MD16)	⑤	Module No.15 (MD15)	⑥	Module No.14 (MD14)
⑦	Module No.13 (MD13)	⑧	Bracket	⑨	Module No.4 (MD4)
⑩	Module No.3 (MD3)	⑪	Module No.2 (MD2)	⑫	Module No.1 (MD1)

Ⓐ	: Comply with the assembly procedure when installing. Disassembly & Assembly				
	: N·m (kg-m, ft-lb)				
●,▲,■: Indicates that the part is connected at points with same symbol in actual vehicle.					

RPR-001999642

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

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).

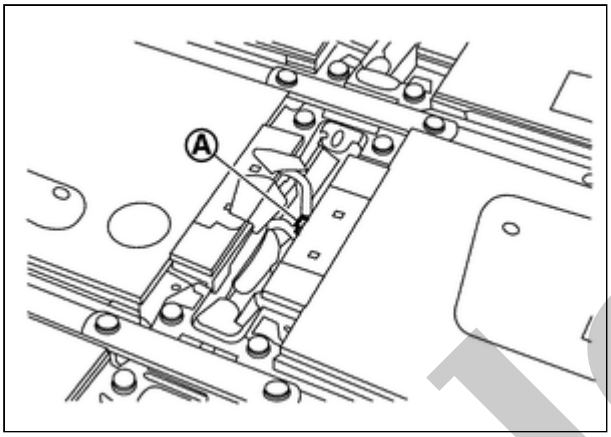
DISASSEMBLY

1 Remove battery upper case rear. [module No. 4 (MD4) and module No. 13 (MD13) only] Refer to Removal & Installation.

2 Remove battery upper floor assembly with module. [module No. 4 (MD4) and module No. 13 (MD13) only] Refer to Disassembly & Assembly.

3 Remove each busbar. Refer to Disassembly & Assembly.

4 Remove harness connector Ⓐ from module.



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WARNING:

To prevent electric shock, wear insulated protective gear.

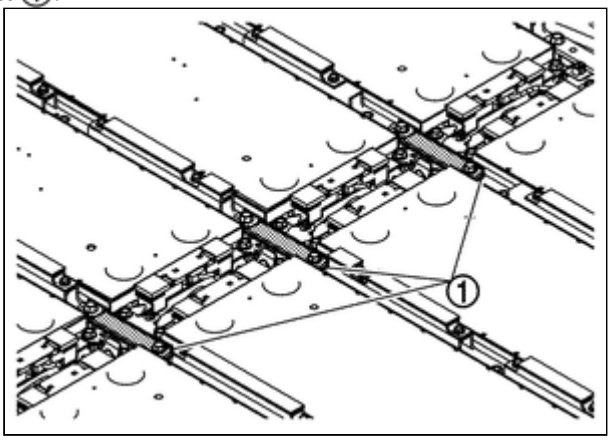
CAUTION:

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 bolt and then remove bracket ①.



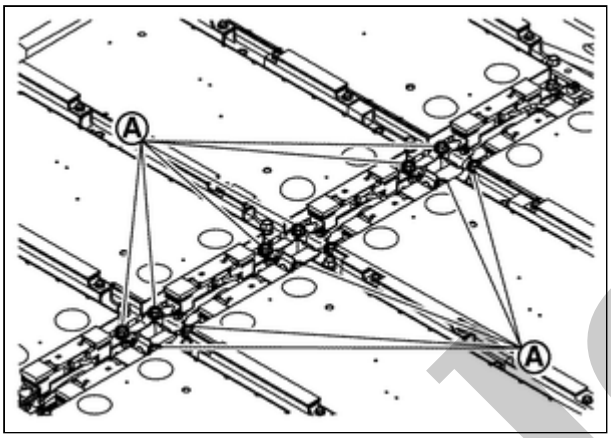
RPR-001999642-14-000365571

WARNING:

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

NOTE:
The bracket is located beside the module.

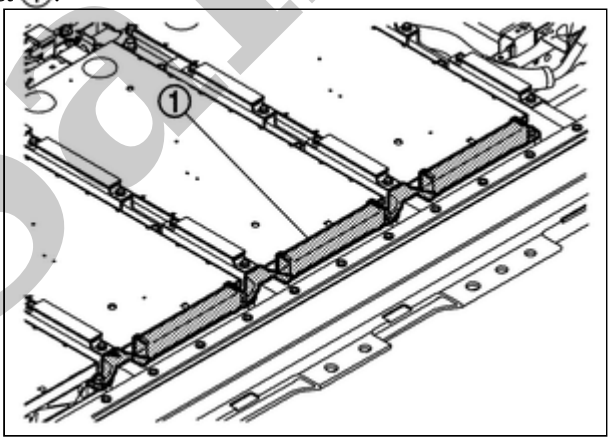
6 Remove bracket bolts Ⓐ that contact to the module to be removed.



RPR-001999642-10-000365591

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

7 Remove bolt and then remove bracket ①.



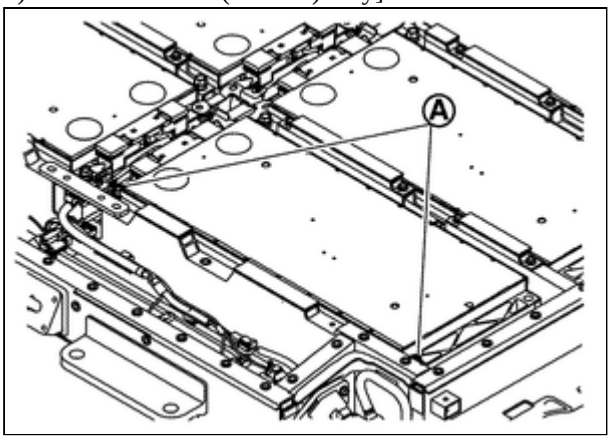
RPR-001999642-01-000365592

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

NOTE:

- **The figure shows left bracket.**
- **When removing module 13 (MD13) from module 16 (MD16), remove right bracket.**

8 Remove bolt Ⓐ. [module No.1 (MD1) or module No.16 (MD116) only]



RPR-001999642-02-000365593

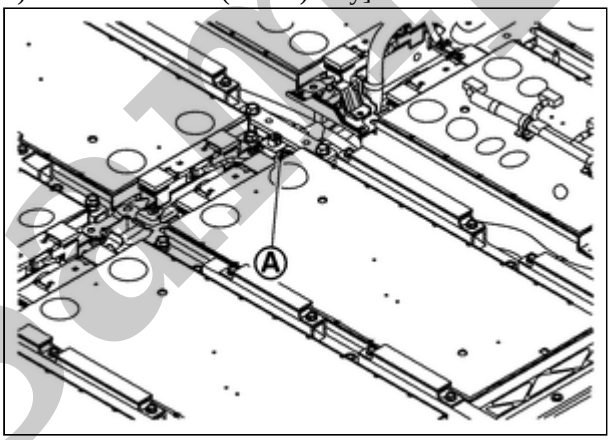
WARNING:

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

NOTE:

The figure shows module No.1 (MD1).

9 Remove bolt Ⓐ. [module No.4 (MD4) or module No.13 (MD13) only]



RPR-001999642-15-000365594

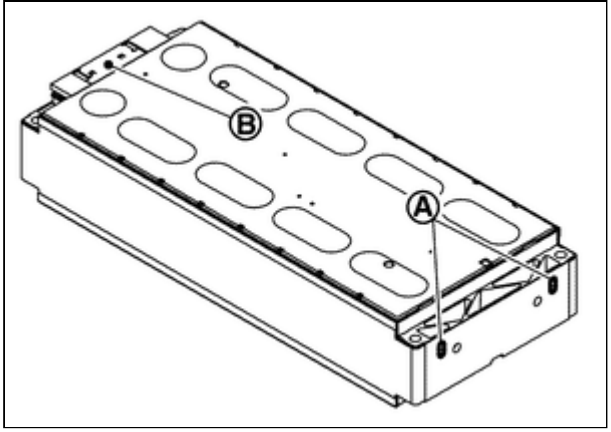
WARNING:

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

NOTE:

The figure shows module No.4 (MD4).

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



RPR-001999642-03-000365595

WARNING:

To prevent electric shock, wear insulated protective gear.

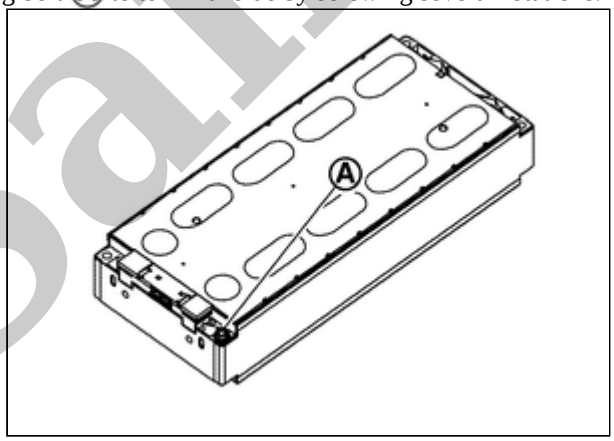
CAUTION:

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

NOTE:

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

11 Install temporarily module mounting bolt Ⓐ to terminal side by screwing several rotations.



RPR-001999642-11-000365596

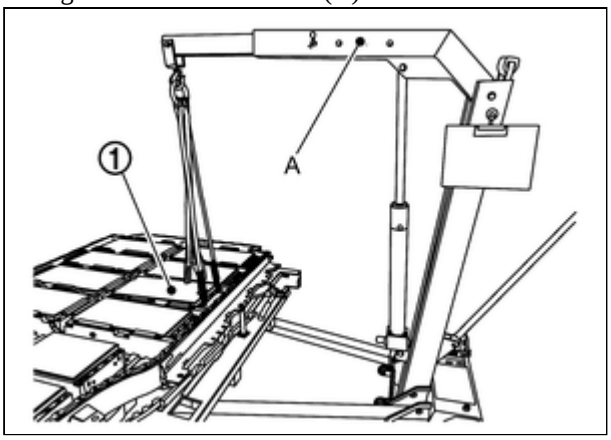
WARNING:

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.**

12 Lifting load is applied to the module using the mobile floor crane (A).



RPR-001999642-16-000365597

WARNING:

To prevent electric shock, wear insulated protective gear.

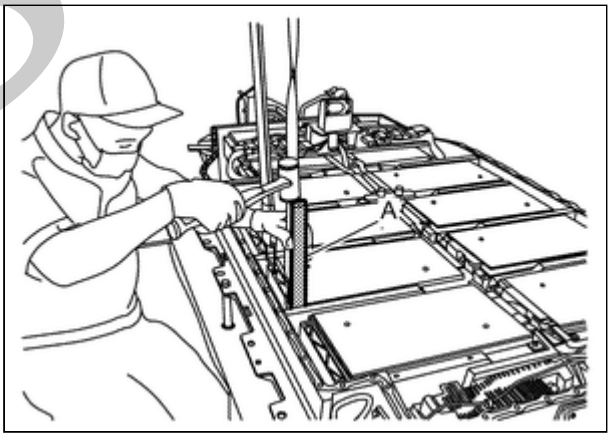
CAUTION:

- **If too much load is applied, the shock when it comes off is large. so carefully apply the load.**
- **Battery pack is not lifted up by the load.**

NOTE:

- **lifting load must be within 100 kgf approximately.**
- **The figure shows module No. 14 (MD14).**

13 Drive resin scraper (service parts: 299A3 5MP0A) (A) in gap filler with a resin hammer and pry left and right to peel the adhesion of gap filler.



RPR-001999642-12-000365598

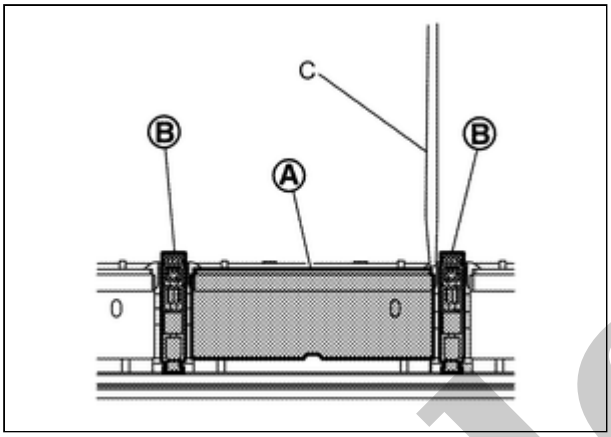
WARNING:

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

- **Do not use metal bar, etc., it may cause electric shock, damage to floor surface due to battery pack, damage to module, and liquid leakage.**

CAUTION:

- **Insert one with the thinner tip of resin scraper (service part: 299A3 5MP0A) (C) between the module end plate Ⓐ and the cross member Ⓑ of battery pack lower case.**



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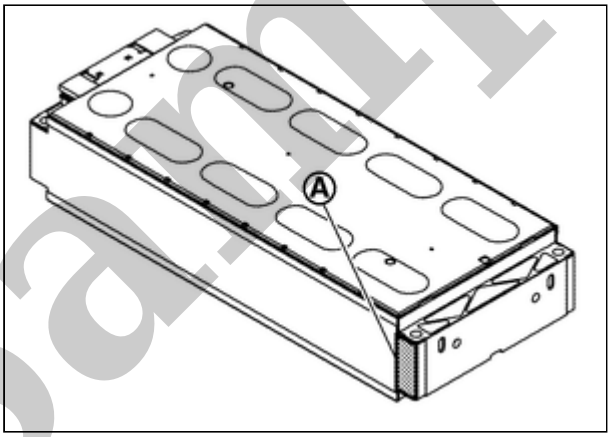
- **Never pry except module end plate Ⓐ to prevent module from damaging, deforming and leaking liquid.**
- **Never remove 2 modules or more to prevent battery pack from weight unbalance except replacement work of battery pack lower case.**



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NOTE:

- **Modules are in close contact with gap filler applied to battery pack lower case.**
- **It can be peeled off from gap filler by sliding module sideways.**
- **Since adhesive strength of gap filler is weakened, the part that was peeled off once is not re-bonded.**

14 Remove module that was temporarily installed to terminal side.