

Your Ultimate Source for OEM Repair Manuals

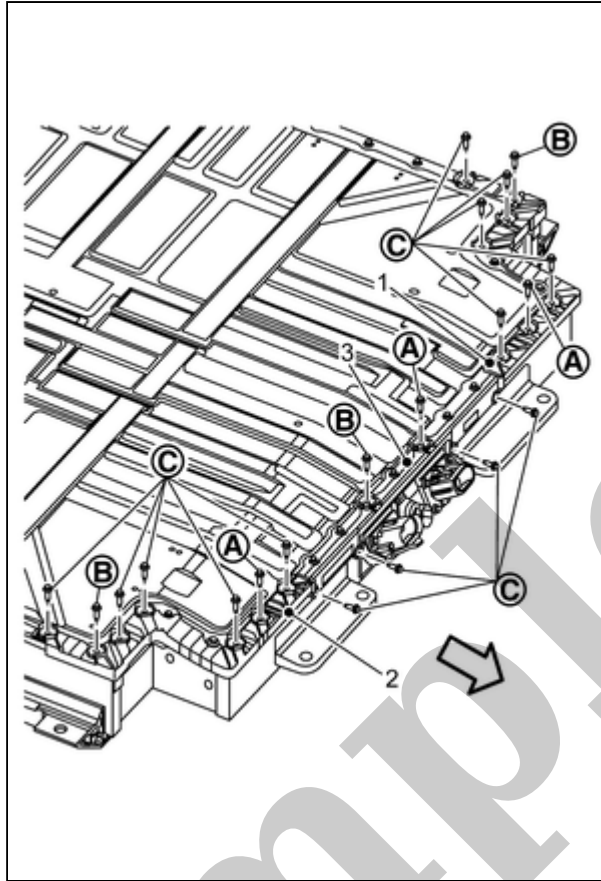
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2009 NISSAN Qashqai OEM Service and Repair Workshop Manual

[Go to manual page](#)



7 Install resin retainers in the order of 1 → 2 → 3.



RPR-001999648-15-000360460

	: Battery front
	: 8.0 N.m (0.82 kg-m, 71 in-lb)



NOTE:

Tighten bolts of each resin retainer in the order of (A) → (B) → (C).

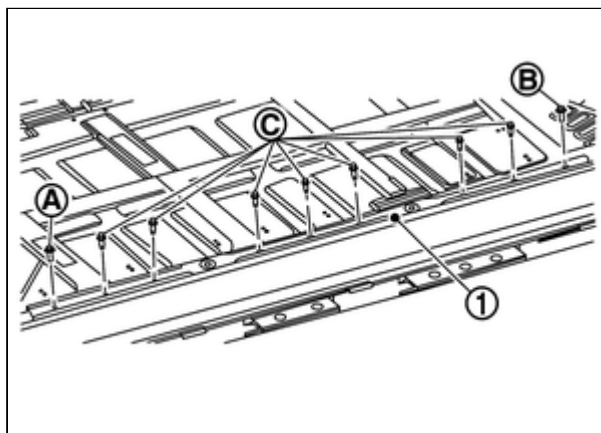
WARNING:



To prevent electric shock, wear insulated protective gear.



8 Install left and right retainers ①.



**NOTE:**

- The figure shows the left side.
- Tighten bolts for each retainer in the order of (A) → (B) → (C).

(A), (B)	: 11.1 N.m (1.1 kg-m, 8 ft-lb)
(C)	: 8.0 N.m (0.82 kg-m, 71 in-lb)

WARNING:

To prevent electric shock, wear insulated protective gear.



9 Install bolt of backward on the battery pack upper case front.



: 8.0 N.m (0.82 kg-m, 71 in-lb)

WARNING:

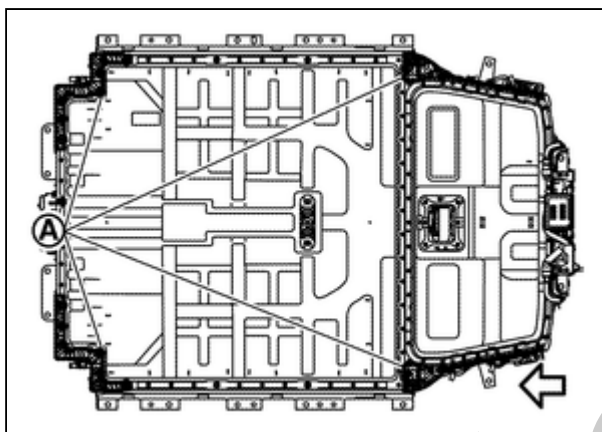
To prevent electric shock, wear insulated protective gear.



Sample

APPEARANCE CHECK

Check resin retainer (A) for damage.



RPR-001999666-01-000402176

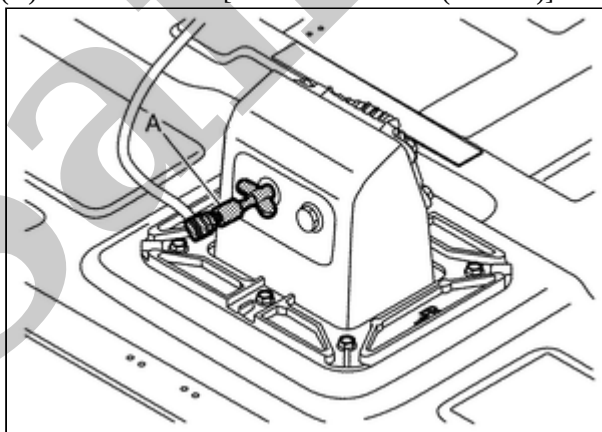


CAUTION:

When resin retainer is damaged, remove battery upper case and check that no water is entering in the case.


AIR LEAK INSPECTION

1 Remove breather and install adapter (A) of air leak tester [SST: KV99112400 (J-53357)].



RPR-001999666-15-000370999

WARNING:

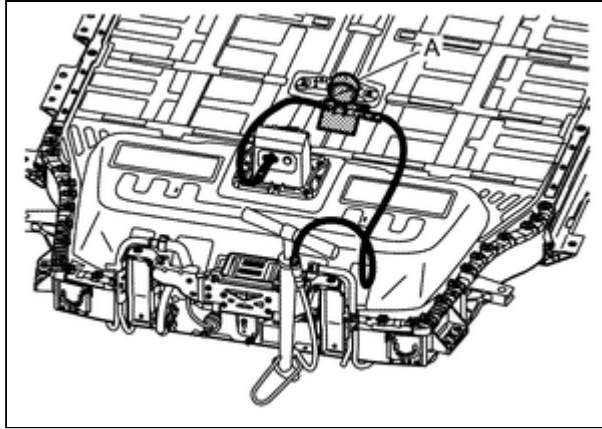
 To prevent electric shock, wear insulated protective gear.



NOTE:


Tighten wing nut by turning 6 to 8 times.

2 Install gauge (A) of air leak tester [SST: KV99111400 (-)].



RPR-001999666-02-000360468

WARNING:

 To prevent electric shock, wear insulated protective gear.



CAUTION:

The gauge is a precision instrument. Be careful not to drop it when handling it.

3 Install service plug. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions.](#)

DANGER:

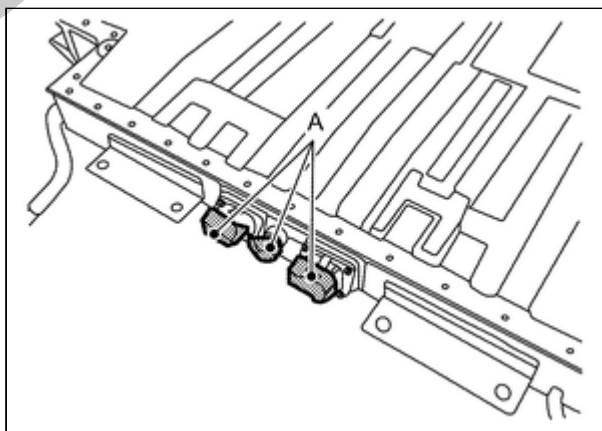
 To prevent electric shock, wear insulated protective gear.



 **NOTE:**

Because the service plug location is open, install the service plug for sealing the case.


4 Blocks high power connector and vehicle communications harness connector with vinyl tape or equivalent for preventing air leakage from connection area.



RPR-001999666-11-000360469

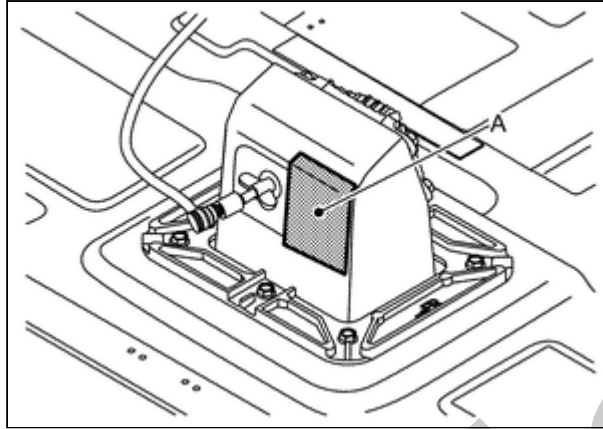
- Use wide vinyl tape that is capable of covering all of the high power connector and vehicle communications harness connector with one strip.
- Apply carefully so that no wrinkles in the tape occur.

WARNING:

 To prevent electric shock, wear insulated protective gear.




5 Block breather with vinyl tape prevent air from leaking.



RPR-001999666-13-000360467

- Apply carefully so that no wrinkles in the tape occur.


WARNING:

 To prevent electric shock, wear insulated protective gear.




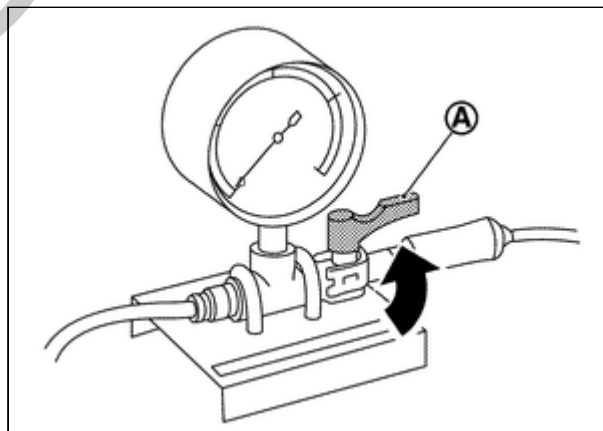
6 Perform battery case pressure test according to the following procedure.

WARNING:

 To prevent electric shock, wear insulated protective gear.



a Open cock  of air leak tester.



RPR-001999666-14-SCIA0638ZZ

CAUTION:

Do not operate the pump before opening the cock of air leak tester. Doing so may damage the gauge. If the pump is operated before the cock is opened, first disconnect the air pump hose to release the pressure.

b Operate the air pump slowly and apply the specified test pressure in the battery pack. If the gauge pressure does not rise, or if the gauge reading fluctuates, check for the location air leakage.

Specified test pressure

: 1.6 kPa (0.016 bar, 0.0163 kg/cm², 0.232 psi)

CAUTION:

- Operate the air pump carefully when applying pressure. If pressure is applied suddenly to the gauge, the gauge may be damaged.
- Do not apply pressure of 2.0 kPa (0.02 bar, 0.0204 kg/cm², 0.29 psi) or more to the battery case or air leak tester.

c Close the cock and wait for 1 minute.

d Check that the air leak tester reading remains at or above the limit value.

Repair limit

: 1.4 kPa (0.014 bar, 0.0142 kg/cm², 0.203 psi)

e If the pressure is below the limit value, check for the locations of air leakage.

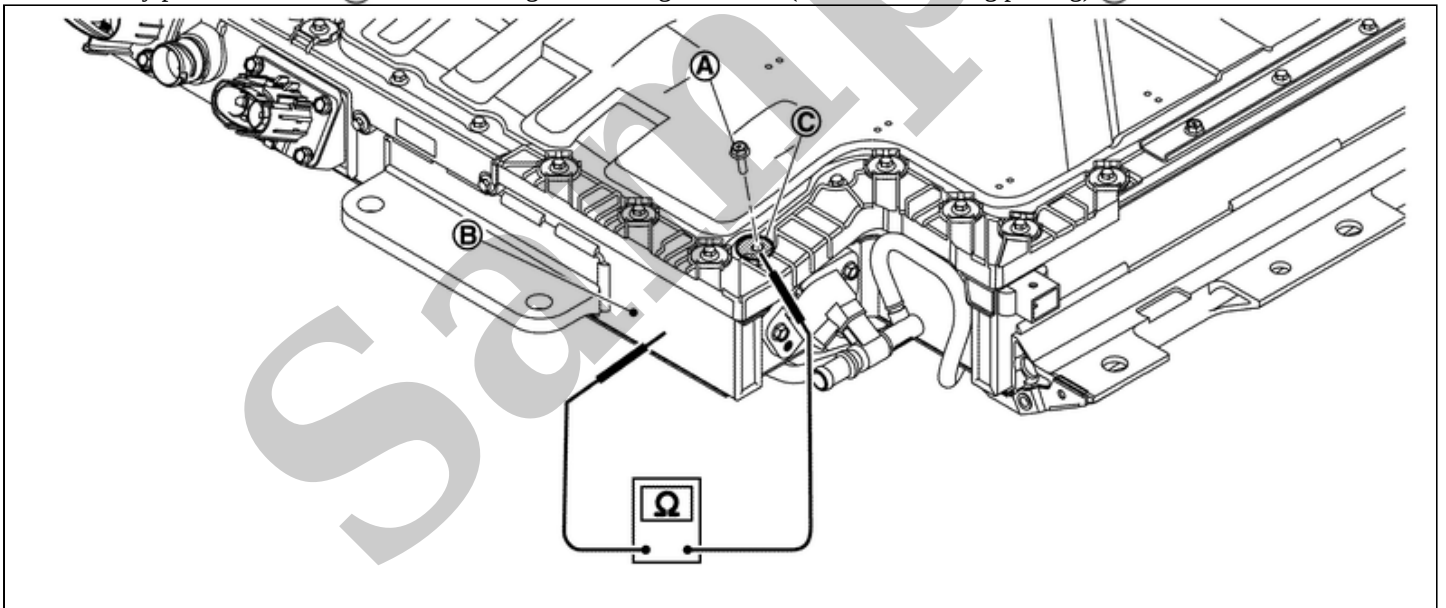


NOTE:

Check for air leakage from the sound of air escaping when pressure is applied.

ELECTRIC EQUIPOTENTIAL TEST

1 After assembling Li-ion battery pack, remove the battery pack upper case ground bolt (A), then measure the resistance between the side of battery pack lower case (B) and the seating surface of ground bolt (location of coating peeling) (C).



RPR-001999666-07-000370995

WARNING:



To prevent electric shock, wear insulated protective gear.



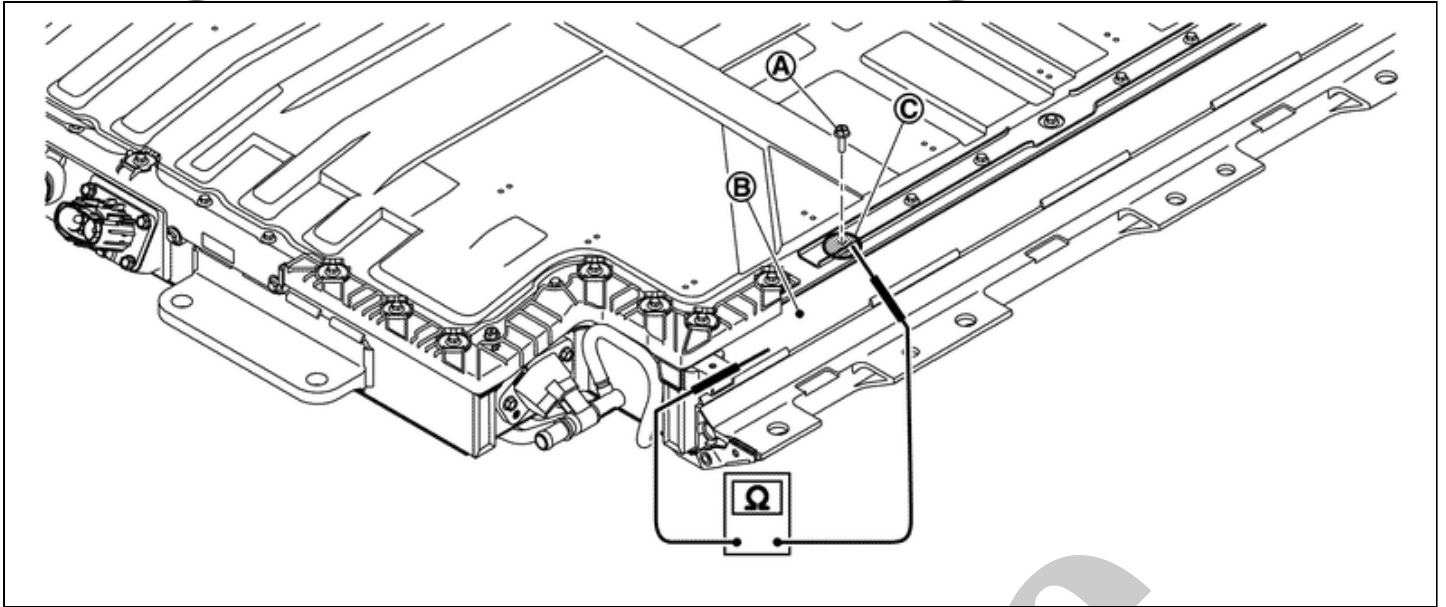
Specified value

: Less than 0.1 Ω

If the result deviates from the specified value, check the following and repair the malfunction parts.


- Ground bolt connection condition
- Corrosion on ground bolt mounting surface
- Adhesion of paint, oil, dirt, or other substance on ground bolt mounting surface

2 After assembling Li-ion battery pack, remove the retainer ground bolt (A), then measure the resistance between the side of battery pack lower case (B) and the seating surface of ground bolt (location of coating peeling) (C).



RPR-001999666-08-000370996

WARNING:

 To prevent electric shock, wear insulated protective gear.



Specified value

: Less than 0.1 Ω

If the result deviates from the specified value, check the following and repair the malfunction parts.

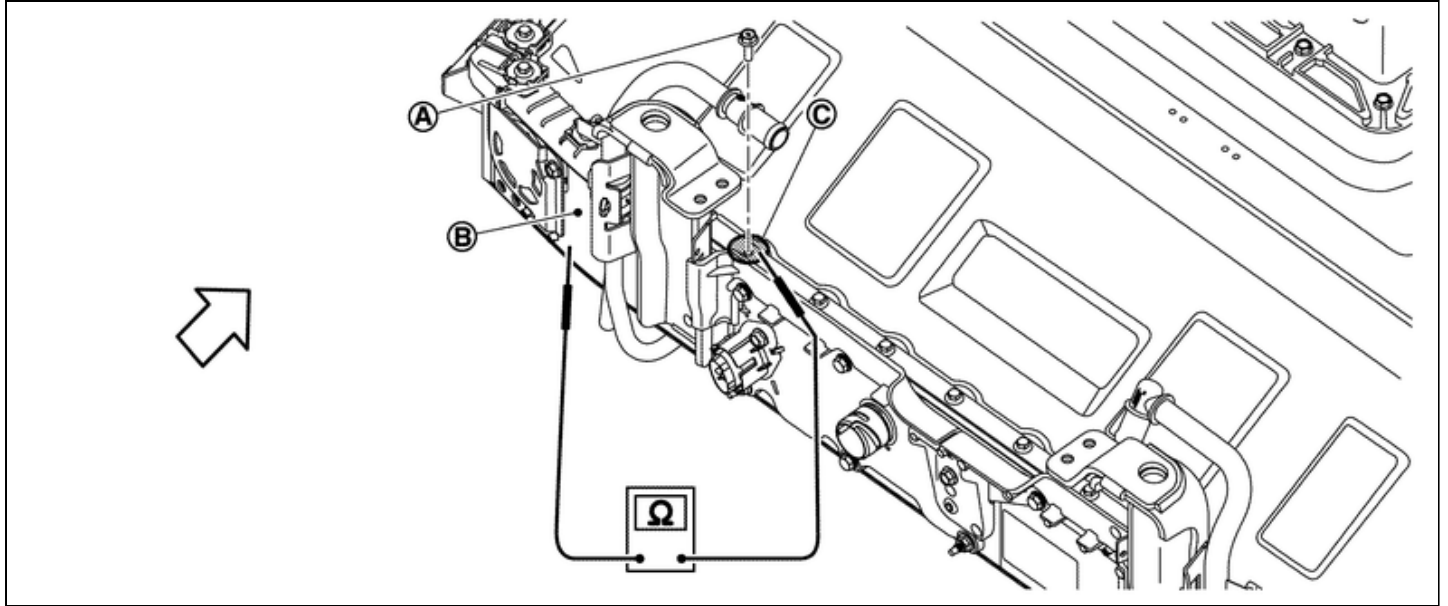
- Ground bolt connection condition
- Corrosion on ground bolt mounting surface
- Adhesion of paint, oil, dirt, or other substance on ground bolt mounting surface.



NOTE:

- The figure shows retainer of left side.
- Since retainers are symmetrical parts, do the same for the right retainer.


3 After assembling Li-ion battery pack, remove the rear retainer ground bolt (A), then measure the resistance between the side of battery pack lower case (B) and the seating surface of ground bolt (location of coating peeling) (C).



RPR-001999666-09-000370998



WARNING:

 To prevent electric shock, wear insulated protective gear.



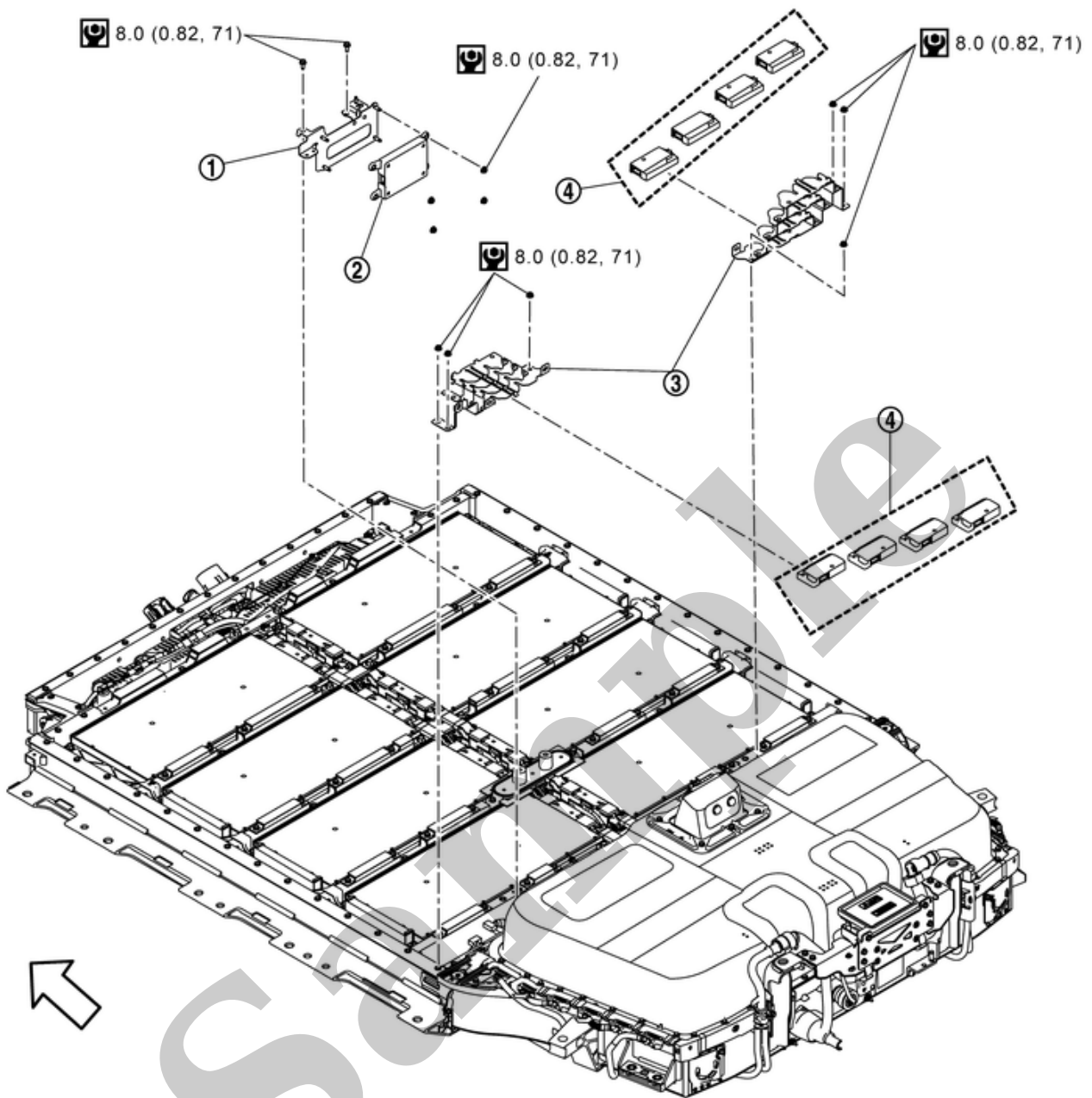
Specified value

: Less than 0.1 Ω

If the result deviates from the specified value, check the following and repair the malfunction parts.

- Ground bolt connection condition
- Corrosion on ground bolt mounting surface
- Adhesion of paint, oil, dirt, or other substance on ground bolt mounting surface.

SEC. 291



RDE-001999669-01-000402140

①	Bracket	②	Li-ion battery controller	③	Bracket
④	Cell controller				
←	: Vehicle front				
🔩	: N·m (kg-m, in-lb)				