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# SERVICE BULLETIN

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Classification: EL19-047	Reference: NTB19-074	Date: September 20, 2019
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## 2011-2012 LEAF; 24 KWH TYPE 1 BATTERY PACK GASKET INSPECTION

**APPLIED VEHICLES:** 2011-2012 LEAF (ZE0)  
**APPLIED SYSTEM:** 24 kWh Type 1 battery pack with replaceable gasket

### SERVICE INFORMATION

When servicing a 24 kWh Type 1 battery pack, the gasket between the upper and lower cases should be reused/reinstalled, unless it is visually damaged and/or fails the air leak inspection.

- Only replace the battery pack case gasket when necessary.
- To confirm that the battery pack case is air tight, follow the 24 kWh Service Procedure Inspection instructions, for air leak inspection, starting on page 2.

**NOTE:** This bulletin does not apply to service replacement battery packs that are sealed with a liquid urethane adhesive.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. **NOTE:** If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

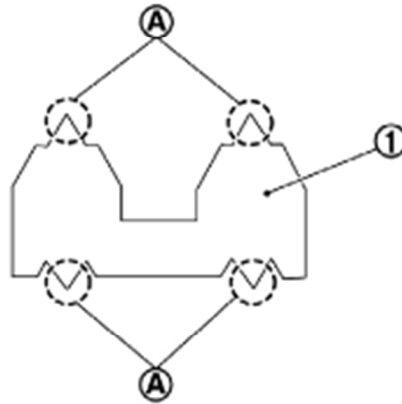
## SERVICE PROCEDURE

### Inspection

## BATTERY PACK SEAL INSPECTION

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- Visually check all lips (A) of seal (1) for damage. (e.g. scratches and cracks)



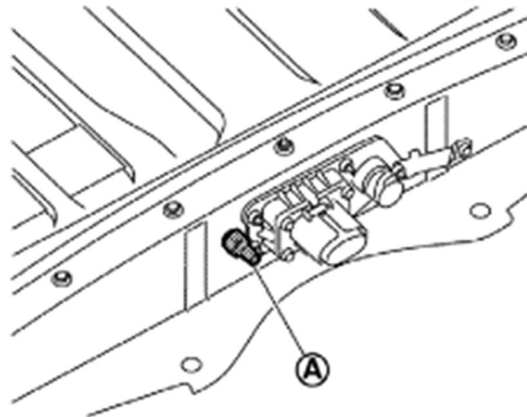
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- Replace seal if its lips are damaged.

## AIR LEAK INSPECTION

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- 1 Remove drain plug and install adapter [SST: KV99111400] (A).



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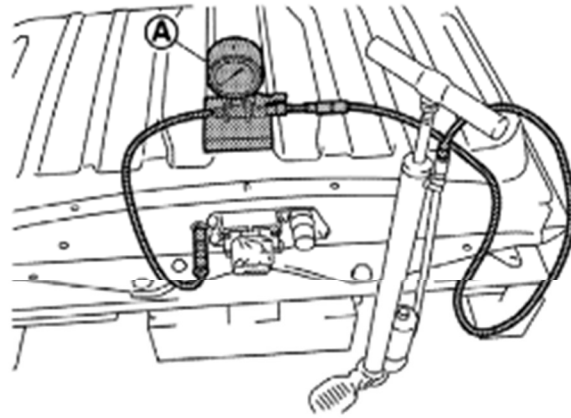
### WARNING:



To prevent electric shock hazards, be sure to wear protective gear.



- 2 Install gauge [SST: KV99111400] (A).



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**WARNING:**

 To prevent electric shock hazards, be sure to wear protective gear.



**CAUTION:**

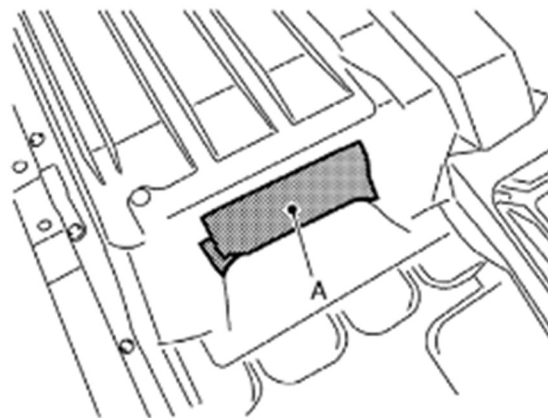
Handle the gauge carefully so that it will not drop.

3 Install service plug to seal the battery pack.

 To prevent electric shock hazards, be sure to wear protective gear.



4 Use vinyl tape (A) or similar means to seal the breather so that air does not enter it.



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- Use the wide vinyl tape which can cover up breather at once.

- Stick it so that tape is not wrinkled.

**WARNING:**



To prevent electric shock hazards, be sure to wear protective gear.



5 Perform air leak inspection by applying 1.6 kPa (0.0163 kg/cm<sup>2</sup>, 0.23 psi) of pressure inside the battery pack for approximately 1 minute.

**CAUTION:**

- When applying pressure, operate the air pump slowly.
- Do not apply any pressure exceeding 2.0 kPa (0.0204 kg/cm<sup>2</sup>, 0.29 psi).

Repair limit

: 1.4 kPa (0.0143 kg/cm<sup>2</sup>, 0.20 psi)

6 If the pressure drops below the limit value, use soapy water and check for leakage points.

**WARNING:**



To prevent electric shock hazards, be sure to wear protective gear.



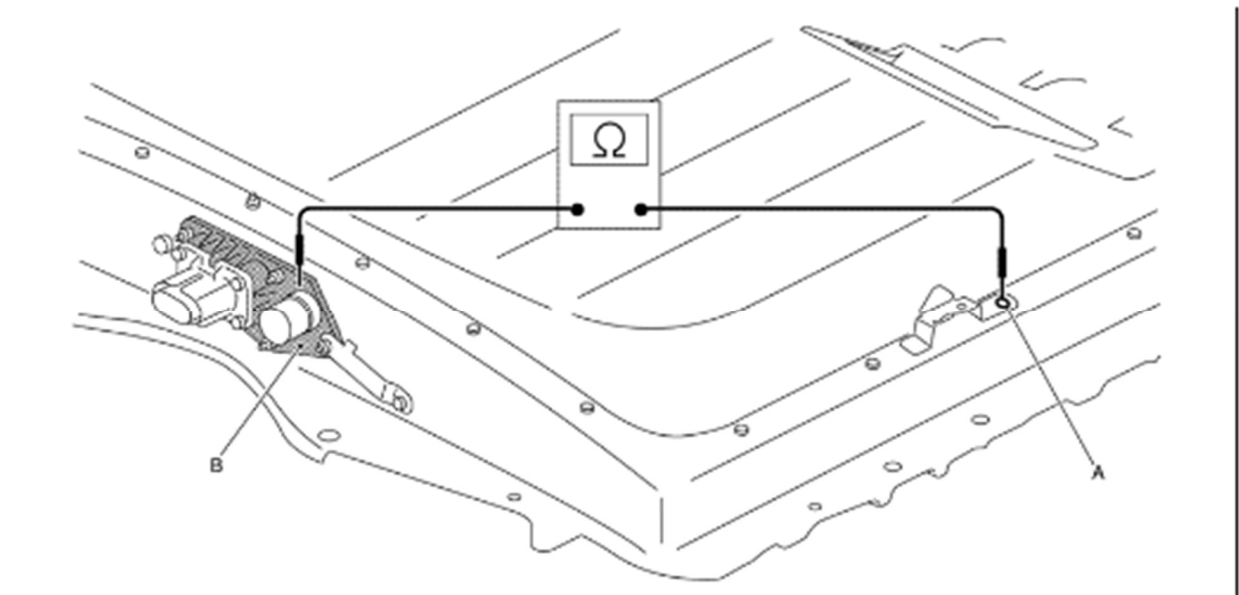
**CAUTION:**

Never allow soapy water to contact the service plug and each connector terminals.

## Electric Equipotential Test

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After installing the battery pack, measure the resistance between the ground bolt mating surface (A) and the high voltage harness connector flange (B).



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**WARNING:**



To prevent electric shock hazards, be sure to wear protective gear.



Standard

: Less than 0.1 Ω

If the result deviates from the standard value, check the following items and repair malfunctioning parts

- Connection condition of ground bolts
- Rust on the mounting surface of ground bolts
- Paint, oil, and dust on the mounting surface of ground bolts

**AMENDMENT HISTORY**

PUBLISHED DATE	REFERENCE	DESCRIPTION
September 20, 2019	NTB19-074	Original bulletin published