TECHNICAL SERVICE BULLETIN

Classification:	Reference:	Date:
EL22-015A	NTB23-024A	May 10, 2024

VEHICLE WILL NOT START AND DTCS P31E7 AND P0AA6 STORED IN EV/HEV CONTROL MODULE

This bulletin has been amended. See AMENDMENT HISTORY on the last page.
Please discard previous versions of this bulletin.

APPLIED VEHICLES: 2019-2025 LEAF (ZE1)
APPLIED SYSTEMS: 62 kWh Battery Pack (4th Character of the VIN is B or C)

IF YOU CONFIRM

The vehicle does not start,

AND

DTCs P31E7 for “RESTART INHIBITION” and P0AA6 for “HV BATTERY VOLTAGE SYSTEM ISOLATION” are stored in the EV/HEV Control Module.

ACTION

Follow the **SERVICE PROCEDURE** in this bulletin to:

1. Perform ESM diagnosis for DTCs P31E7 or P0AA6 to determine if a Li-Ion battery module triggered the DTCs.
    - If a Li-Ion battery module did not trigger the DTCs, this bulletin does not apply. Refer to ASIST for further diagnosis.
2. Inspect the Li-Ion battery module for a bent retention plate.
3. Replace the Li-Ion battery module, if applicable.

IMPORTANT: The purpose of **ACTION** (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire **SERVICE PROCEDURE** as it contains information that is essential to successfully completing this repair.

SERVICE PROCEDURE

⚠DANGER

Electric vehicles contain a high voltage battery. There is 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. Touching high voltage components without wearing appropriate Personal Protective Equipment (PPE) will cause electrocution.

⚠WARNING

To avoid the risk of death or severe personal injury, the technician:

- Must follow the assembly procedure as outlined in the ESM.
- Must use the tools specified in the ESM.
- Must not use battery-powered or pneumatic tools for HV procedures.
- Must ensure the correct fasteners are properly applied in the correct locations.
- Must ensure all fasteners are properly tightened to the specific torque provided in the ESM.
- Must conduct work in the proper environment.
- Must wear the appropriate Personal Protective Equipment (PPE) consisting of gloves, shoes, face shield and glasses before beginning work on the high voltage system.
- Must have EV Specialist Training certification.
- Must not allow workers other than the responsible person to touch the vehicle containing high voltage parts.
- Must keep others from touching the high voltage parts; these parts must be covered with an insulating sheet except when using them.
- Must remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- Must always carry the service plug in a pocket of the responsible worker or place in the tool box during the procedure to prevent the plug from being connected by mistake.

These procedures are to be performed ONLY by a technician with current LEAF certification.

Follow all Warning, Caution, and Danger instructions in the ESM.

1. Perform ESM diagnosis for DTCs to determine which Li-Ion battery module has caused the DTC.
   - The affected module will only be in module row A or B (Figure 1).

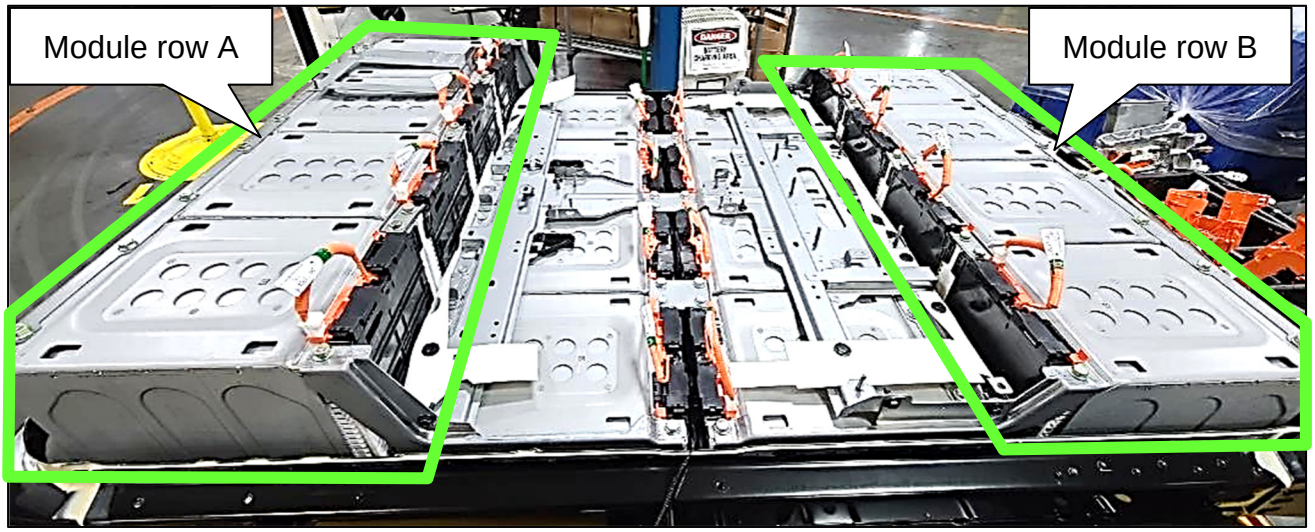

Figure 1

NOTICE

Do not bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Electronic Service Manual (ESM). A malfunction may occur if this is not observed.

2. Remove and inspect the affected Li-Ion battery module for a bent retention plate.

- If a Li-Ion battery module has a bent retention plate (**Error! Reference source not found.**), replace the Li-Ion battery module.
  - Refer to the ESM: **ELECTRIC POWER TRAIN > EV BATTERY SYSTEM > 62kWh LI-ION BATTERY > DISASSEMBLY AND ASSEMBLY > MODULE > MODULE : Disassembly & Assembly**

    IMPORTANT: Make sure to follow all Dangers, Warnings, Cautions, and additional work procedures outlined in the ESM.
- If the Li-Ion battery module does not have a bent retention plate (Figure 3), this bulletin does not apply. Refer to ASIST for further diagnosis.

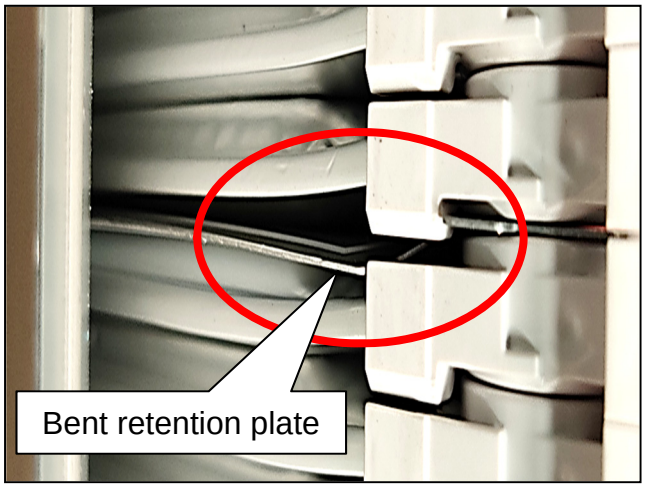

Figure 2

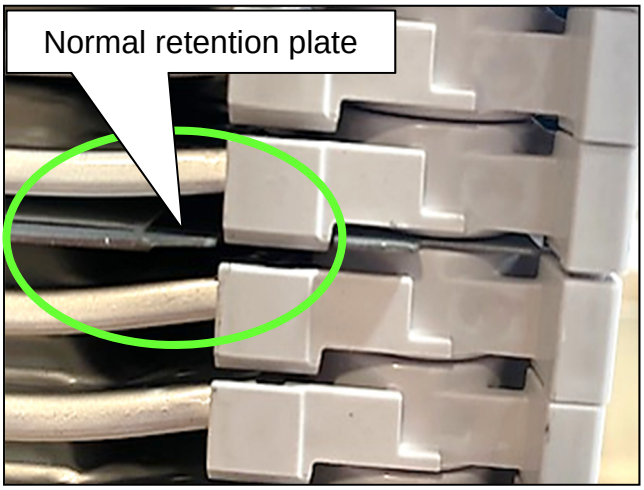

Figure 3

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
BATTERY MODULE – LITHIUM ION	295B9-5SF9D	1 If Needed
	295B9-5SF9E	1 If Needed
SEAL – BATTERY	295G3-3NF0A	1
WASHER – DRAIN PLUG	11026-01M02	1

HINT:

- If the removed Li-Ion battery module's part number is 295B9-5SF9A, replace with new Li-Ion battery module part number 295B9-5SF9D.
- If the removed Li-Ion battery module's part number is 295B9-5SF9B, replace with new Li-Ion battery module part number 295B9-5SF9E.

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

Reference the current Nissan Warranty Flat Rate Manual and use the JR section indicated Flat Rate Time (FRT) for module replacement.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
March 14, 2023	NTB23-024	Original bulletin published
May 10, 2024	NTB23-024A	**APPLIED VEHICLES** updated, page 2 revised, **NOTE** reference changed to **HINT**