

# Part 573 Safety Recall Report

# 23V-494

**Manufacturer Name :** Nissan North America, Inc.

**Submission Date :** JUL 17, 2023

**NHTSA Recall No. :** 23V-494

**Manufacturer Recall No. :** R23A6



## Manufacturer Information :

**Manufacturer Name :** Nissan North America, Inc.

**Address :** P. O. BOX 685001

Franklin TN 37068-5009

**Company phone :** 800-647-7261

## Population :

**Number of potentially involved :** 66,159

**Estimated percentage with defect :** 100 %

## Vehicle Information :

**Vehicle 1 :** 2018-2023 Nissan LEAF

**Vehicle Type :** LIGHT VEHICLES

**Body Style :** HATCHBACK

**Power Train :** HYBRID ELECTRIC

**Descriptive Information :** Based on NNA-Smyrna production records, the subject programming logic for the Vehicle Control Module (VCM) was used in vehicle production for MY 2018 - 2023 LEAF vehicles, manufactured during the specified time period outlined above. No other Nissan or INFINITI vehicles in the US market are affected.

Nissan is recalling other models outside of the U.S. for a similar issue. However, these are e-POWER equipped models that are not substantially similar to vehicles offered in the U.S. Nissan does not offer e-POWER vehicles in the U.S. market.

**Production Dates :** SEP 29, 2017 - MAR 15, 2023

**VIN Range 1 : Begin :**

NR

**End :** NR

Not sequential

## Description of Defect :

**Description of the Defect :** On LEAF vehicles with affected VCM software, there is a risk of sustained engine torque if a driver takes both of the following actions within 8 seconds after deactivating cruise control, Intelligent Cruise Control or ProPILOT Assist functions: (a) switches driving mode (i.e. from 'D' to 'B' position, or 'ECO' mode, or e-Pedal 'ON'); and (b) then applies and releases the accelerator pedal.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** If this condition occurs, in certain operating conditions the vehicle may continue accelerating unless the brake is applied or may not slow down as expected following release of the accelerator pedal; which may increase the risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : There is no preceding warning to the customer.

## Involved Components :

Component Name 1 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA2A

Component Name 2 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA2B

Component Name 3 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA3A

Component Name 4 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA3B

Component Name 5 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA4A

Component Name 6 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2018

Component Part Number : 237D0-5SA4B

**Component Name 7 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2018

**Component Part Number :** 237D0-5SA5A

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**Component Name 8 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2018

**Component Part Number :** 237D0-5SA5B

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**Component Name 9 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG4A

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**Component Name 10 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG4B

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**Component Name 11 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG4C

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**Component Name 12 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG4D

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**Component Name 13 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG5A

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**Component Name 14 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG5B

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**Component Name 15 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG5C

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**Component Name 16 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG5D

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**Component Name 17 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG6A

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**Component Name 18 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG6B

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**Component Name 19 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG6C

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**Component Name 20 :** CONTROL MODULE – PWR TR

**Component Description :** VCM ROM Data MY 2019 – MY2023

**Component Part Number :** 237D0-5SG6D

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Component Name 21 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG0A

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Component Name 22 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG0B

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Component Name 23 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG0C

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Component Name 24 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG0D

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Component Name 25 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG1A

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Component Name 26 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG1B

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Component Name 27 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG1C

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**Component Name 28 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG1D

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**Component Name 29 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG2A

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**Component Name 30 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG2B

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**Component Name 31 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG2C

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**Component Name 32 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG2D

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**Component Name 33 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG3A

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**Component Name 34 :** CONTROL MODULE – PWR TR  
**Component Description :** VCM ROM Data MY 2019 – MY2023  
**Component Part Number :** 237D0-5SG3B

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Component Name 35 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG3C

Component Name 36 : CONTROL MODULE – PWR TR

Component Description : VCM ROM Data MY 2019 – MY2023

Component Part Number : 237D0-5SG3D

## Supplier Identification :

### Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

## Chronology :

In December 2021, internal testing on a trial vehicle observed a motor torque deceleration delay following deactivation of Intelligent Cruise Control. Nissan investigated but was unable to recreate the condition.

In early 2022, Nissan conducted computer simulations in an effort to replicate the reported condition by analyzing data from the incident test vehicle. After repeated testing of multiple parameters, Nissan identified a specific sequence of actions that it believed could potentially lead to the reported phenomenon. However, Nissan had been unable to recreate the condition on an actual vehicle.

Spring 2022 through Summer 2022 – Nissan continued to attempt to replicate the phenomenon under real-world conditions. After extensive on-track testing, Nissan had limited success in reproducing the incident condition.

Late 2022 through Spring 2023 - After extensive computer simulation and on-track testing, Nissan identified the following sequence of actions are required to be completed in under eight (8) seconds for the phenomenon to occur:

1. Cruise Control, Intelligent Cruise Control or ProPILOT Assist is disengaged; and
2. Immediately:
  - a. Shift drive modes from 'D' to 'B' or 'ECO' or e-Pedal 'ON'; and
  - b. Press accelerator pedal and then release

For Reference, the B mode engages the regenerative braking system more aggressively on downhill slopes, and helps reduce brake use. The mode is selected by manually shifting from 'D' to 'B' using the shift lever.

July 11, 2023 - Nissan assessed that the risk of the issue occurring under real-world conditions is very low. This issue has not occurred outside of controlled track or simulated test environments. However, out of an abundance of caution, Nissan decided to conduct a recall campaign to reprogram the VCM.

Nissan is not aware of any warranty claims, accidents, or injuries attributed to this condition.

### Description of Remedy :

Description of Remedy Program : Dealers will be instructed to reprogram the vehicle control module. All repairs will be performed free of charge for parts and labor and may take up to thirty minutes to complete.

Nissan will include a statement in the Part 577 owner notification concerning reimbursement for the cost of obtaining a pre-notification remedy since the subject vehicles are no longer under warranty.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

### Recall Schedule :

Description of Recall Schedule : Dealers will be notified beginning July 18, 2023. Owners of all potentially affected vehicles will be notified beginning August 30, 2023.

Planned Dealer Notification Date : JUL 18, 2023 - NR

Planned Owner Notification Date : AUG 30, 2023 - NR

\* NR - Not Reported