

Part 573 Safety Recall Report

23V-041

Manufacturer Name : Toyota Motor Engineering & Manufacturing**Submission Date :** FEB 02, 2023**NHTSA Recall No. :** 23V-041**Manufacturer Recall No. :** 23TA01**Manufacturer Information :**

Manufacturer Name : Toyota Motor Engineering & Manufacturing

Address : 6565 Headquarters Drive

Plano TX 75024

Company phone : 1-800-331-4331

Population :

Number of potentially involved : 16,679

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2021 Toyota RAV4 Prime

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : (1) Although the involved vehicles are within the above production period range, not all vehicles in this range were sold in the U.S. (2) This issue only affects MY 2021 RAV4 Prime (Plug-In Hybrid) vehicles equipped with a HEV ECU that contains the software logic described in this report. Other Toyota or Lexus vehicles sold in the U.S. are not equipped with those HEV ECUs. 100% of the involved plug-in hybrid vehicles contain the software logic described in this report. Whether this will actually lead to a hybrid system shut down after rapid accelerator pedal application while driving at higher speeds depends on the battery parameters and the vehicle operating mode at that time.

Production Dates : NOV 25, 2019 - JUN 24, 2021

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : The subject plug-in hybrid vehicles contain software in the Hybrid Vehicle Control ECU (HEV ECU) to calculate the Hybrid battery (HV battery) output limits (maximum operating output) by monitoring battery voltage, state of charge (SOC), electrical load, and other parameters for battery protection. Due to certain characteristics of the software logic, the HV battery output may not be limited as required to protect the battery. If the accelerator pedal is rapidly pressed to further accelerate the vehicle after it has been continuously driven in "EV mode" in cold temperature and the HV battery voltage decreases, the voltage may drop rapidly below a specified threshold. If this occurs, the vehicle will display a warning message and the hybrid system will shut down, resulting in loss of motive power. If the vehicle loses motive power while being driven at higher speeds, there could be an increased risk of a crash.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If this occurs, the vehicle will display a warning message and the hybrid system will shut down, resulting in loss of motive power. If the vehicle loses motive power while being driven at higher speeds, there could be an increased risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Computer Assembly, Hybrid Vehicle Control

Component Description : Hybrid Vehicle Control ECU (HEV ECU)

Component Part Number : 89980-42250

Supplier Identification :**Component Manufacturer**

Name : DENSO CORPORATION

Address : 1-1, Showa-cho

Kariya-city, Aichi-pref Foreign States 448-8661

Country : Japan

Chronology :

Please see the attached Part 573 Defect Information Report for the full chronology.

Description of Remedy :

Description of Remedy Program : All known owners of the subject vehicles will be notified to take their vehicles to a Toyota dealer. For all involved vehicles, the dealers will update the Hybrid Vehicle Control ECU software at no cost. As the owner notification letters will be mailed out well within the active period of the Toyota New Vehicle Limited Warranty ("Warranty"), all involved vehicle owners for this recall would have been provided a repair at no cost under the 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 : Notifications to owners of the affected vehicles will occur by April 3, 2023. A copy of the draft owner notification will be submitted as soon as it is available. Notifications to distributors/dealers will be sent by February 2, 2023. Copies of dealer communications will be submitted as they are issued.

Planned Dealer Notification Date : FEB 02, 2023 - FEB 02, 2023

Planned Owner Notification Date : FEB 27, 2023 - APR 03, 2023

* NR - Not Reported