

Part 573 Safety Recall Report

21V-944

Manufacturer Name : Hyundai Motor America**Submission Date :** DEC 07, 2021**NHTSA Recall No. :** 21V-944**Manufacturer Recall No. :** 215**Manufacturer Information :**

Manufacturer Name : Hyundai Motor America

Address : 10550 Talbert Avenue

Fountain Valley CA 92708

Company phone : 800-633-5151

Population :

Number of potentially involved : 2,679

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2017-2019 Hyundai Ioniq Electric

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The subject vehicles include 2,679 model year 2017-2019 Hyundai Ioniq EV vehicles produced on January 21, 2016 through June 24, 2019 by Hyundai Motor Company ("HMC") in Korea for sale in the U.S. market.

Production Dates : JAN 21, 2016 - JUN 24, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : During operation, the subject vehicles may enter a "fail-safe" mode causing the EV Ready lamp to flash, accompanied with reduced acceleration and overall power output. In rare instances, while in this "fail-safe" mode, a slow, unintended acceleration event can occur following full accelerator pedal release, if, a specific set of sequences are met. The sequence steps being (1) the accelerator pedal is rapidly cycled at the moment the "fail-safe" mode is initially engaged, (2) followed by a sustained period of 100% accelerator pedal application and lastly (3) an abrupt release of the accelerator pedal. The braking and steering systems are fully functional during the "fail-safe" mode.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The unexpected continuation of acceleration following accelerator pedal release may increase the risk of a crash.

Description of the Cause : Electrical noise is generated due to deterioration of the electrical ground which can create a communication error within the vehicle's Controller Area Network ("CAN") bus.

Identification of Any Warning that can Occur : The EV "READY" lamp flashes as the vehicle enters Fail-Safe mode

Involved Components :

Component Name 1 : Power Electric ("PE") Module

Component Description : Power module containing the OBC, EPCU, Drive Motor and Reduction Gear

Component Part Number : G7GPE-U300050, G7GPE-U300053, G7GPE-U300055, G7GPE-U300043

Supplier Identification :

Component Manufacturer

Name : MOBIS

Address : 37, Cheoldobangmulgwan-ro
Uiwang-si Gyeonggi-do Foreign States 16082

Country : Korea, Republic of

Chronology :

June – October 2021

On June 8, 2021, HMC became aware of a Korean media report regarding an incident alleging unintended acceleration on a vehicle in the Korean domestic market. HMC conducted a joint investigation with MOLIT and KATRI and collected data from the incident vehicle. Analysis of the vehicle data indicated that an unstable electrical ground may have caused instantaneous electrical noise to flow abnormally triggering a "fail-safe" mode designed to prevent impact during driving by restricting vehicle speed. The onset of the "fail-safe" mode could result in operators experiencing an acceleration delay when operating the accelerator pedal and, in limited instances, slow vehicle acceleration after full release of accelerator pedal. Noting difficulty in replicating the subject condition under normal driving conditions, HMC focused its investigation on duplicating the condition while providing regular updates to MOLIT and KATRI on its findings.

November

On November 11, 2021, HMC shared its investigation findings and discussion with MOLIT with HMA NASO. HMA NASO conducted their own review through field claim analysis and vehicle testing.

On November 25, 2021, HMC decided to conduct a safety recall in the Korean domestic market noting the possibility of slow vehicle acceleration when the accelerator pedal is released. HMC informed NASO of its decision on the same day.

Based on the information received, NASO convened its North America Safety Decision Authority on November 30, 2021 and decided to file a safety recall notice for the affected vehicles in the U.S. market.

Regarding field claim counts from all available data sources at the time of the filing, Hyundai is not aware of any confirmed cases. Hyundai is not aware of any crashes, fires, or injuries related to the defect condition.

Description of Remedy :

Description of Remedy Program : All owners of the subject vehicles will be notified by first class mail with instructions to bring their vehicles to a Hyundai dealer to have the remedy applied and the EPCU(Electric Power Control Unit) software updated. This remedy will be offered at no cost for all affected customers. Hyundai will provide reimbursement to owners for repairs according to the plan submitted on May 16, 2018.

How Remedy Component Differs from Recalled Component : The remedy includes additional ground wiring between the vehicle's Drive Motor & Reduction Gear assembly and frame.

Identify How/When Recall Condition was Corrected in Production : The additional ground wiring was implemented as a running production change in May 2019.

Recall Schedule :

Description of Recall Schedule : Dealers and owners will be notified in early February 2022.

Planned Dealer Notification Date : FEB 04, 2022 - FEB 04, 2022

Planned Owner Notification Date : FEB 04, 2022 - FEB 04, 2022

* NR - Not Reported