

Part 573 Safety Recall Report

18V-704

Manufacturer Name : Hyundai Motor America**Submission Date :** OCT 05, 2018**NHTSA Recall No. :** 18V-704**Manufacturer Recall No. :** 178**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 : 10,575

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2017-2018 Hyundai Ioniq Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The subject vehicles include certain model year 2017–2018 Hyundai Ioniq Hybrid vehicles produced between November 16, 2016 and August 16, 2017 by Hyundai Motor Company (“HMC”) in the Republic of Korea. This population was determined based on a review of vehicle production historical records.

Production Dates : NOV 16, 2016 - AUG 16, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2018-2018 Hyundai Ioniq Plug-In Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The subject vehicles include certain model year 2018 Hyundai Ioniq Plug-In Hybrid vehicles produced between August 10, 2017 and August 11, 2017 by Hyundai Motor Company (“HMC”) in the Republic of Korea. This population was determined based on a review of vehicle production historical records.

Production Dates : AUG 10, 2017 - AUG 11, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Description of Defect :

Description of the Defect : The subject vehicles contain a Power Relay Assembly ("PRA") located underneath the rear seat. The PRA is equipped with a main relay which may have been loosely installed during assembly. If the PRA continues to operate in this condition, a loose connection between the main power relay contacts could increase electrical resistance thereby generating heat and increasing the risk of a fire.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Increased electrical resistance between the main relay contacts can increase the risk of a thermal event, including the potential for a fire.

Description of the Cause : Loose connection between the main relay contacts.

Identification of Any Warning that can Occur : Illumination of the HEV warning light while driving and/or an inability to start the vehicle.

Supplier Identification :**Component Manufacturer**

Name : LS IS CO., Ltd

Address : 95, Beakbong-ro, Heungdeok-gu
Chungju-si, Chungcheongbuk-do FOREIGN STATES

Country : Korea, Republic of

Chronology :

On March 7, 2018, HMC received a report indicating heat damage on the rear seat of model year 2017 Kia Niro sold in the Korean market. HMC immediately began testing to determine the cause of the damage under various driving conditions and maneuvers. As of June 2018, HMC was unable to replicate the phenomenon. HMC began focusing its investigation on component testing with the supplier. This testing concluded in August 2018 and the phenomenon could not be replicated by component bench testing alone.

HMC conducted additional testing and on September 18, 2018, HMC was able to replicate the phenomenon. An inspection of the damaged rear seat revealed that the damage was caused by increased heat generated by the PRA. Further inspection of the PRA revealed that the main relay was loosely connected, indicating that the heat was likely caused by increased electrical resistance as a result of loose contact between the main relay terminals. In addition, HMC noted that the main relay originated from a previous supplier that used lower manufacturing specifications for terminal tightening torque and contact pressure. Main relays provided by the current supplier were produced with higher specifications for terminal tightening torque and contact pressure.

HMC notified all regional distributors of the affected vehicles and informed them of their findings. After conducting its own search of related field information, HMA convened its Technical Committee on October 2,

2018 and decided to conduct a voluntary safety recall to address the condition in the subject vehicles.

To date, Hyundai is unaware of any incidents, crashes, or injuries related to this condition.

Description of Remedy :

Description of Remedy Program : All owners of the affected vehicles will be notified by first class mail with instructions to bring their vehicles to a Hyundai dealer to have the PRA inspected for heat damage. If no heat damage is found, the main relay will be replaced with a new one. If signs of heat damage are found, the PRA will be replaced with a new one.

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 new main relay is produced by a different supplier and ensures a proper connection between the main relay contacts.

Identify How/When Recall Condition was Corrected in Production : The new main relays were used in all of production starting from August 16, 2017.

Recall Schedule :

Description of Recall Schedule : Dealer and owner notifications will begin in late November 2018.

Planned Dealer Notification Date : NOV 30, 2018 - NOV 30, 2018

Planned Owner Notification Date : NOV 30, 2018 - NOV 30, 2018

* NR - Not Reported