

Part 573 Safety Recall Report

17V-532

Manufacturer Name : Hyundai Motor America**Submission Date :** AUG 28, 2017**NHTSA Recall No. :** 17V-532**Manufacturer Recall No. :** 166**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 : 218

Estimated percentage with defect : 2 %

Vehicle Information :

Vehicle 1 : 2017-2017 Hyundai Ioniq Electric

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Model Year 2017 Hyundai Ionic Electric Vehicles produced at Hyundai Motor Company beginning on November 17, 2016 through March 30, 2017.

Production Dates : NOV 17, 2016 - MAR 30, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The Hyundai Ioniq Electric utilizes an Electronic Power Control Unit (EPCU) to supply power to the vehicle's AC motor and transform AC to DC power to charge the vehicle's high-voltage battery system. The aluminum housing for the EPCU may contain small voids, allowing coolant to contact the control unit's circuit board, potentially causing the vehicle to stall.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A loss of motive power at higher speeds can increase the risk of a crash.

Description of the Cause : The mold used for the EPCU casting manufacturing may have caused small voids in the unit's casting.

Identification of Any Warning that can Occur : None

Supplier Identification :

Component Manufacturer

Name : Hyundai Mobis
Address : 47, Giupdosi 1-ro, Daesowon-myeon
Chungju-si, Chungcheongbuk-do Chungju FOREIGN STATES 27465
Country : Korea, Republic of

Chronology :

Hyundai Motor America received a Field Report in June 2017 regarding a 2017 Ioniq Electric which was towed to a dealer after the customer reported illumination of the "Check electric vehicle system" indicator light and the vehicle motor turned off. A second Field Report with similar symptoms was subsequently received in late June 2017. Incident parts were collected and a Quality Information Report was sent to Hyundai Motor Company in July 2017. A review of the supplier's records identified an EPCU housing casting manufacturing process revision in April 2017. After a review of the available information, on August 17, 2017 Hyundai decided to conduct a safety recall for the affected 2017 Model Year Ioniq Electric vehicles. Ioniq Hybrid and plug-in Hybrid models are not affected by this safety recall.

Hyundai is not aware of any accidents or injuries related to this condition.

Description of Remedy :

Description of Remedy Program : Hyundai will notify all owners of affected vehicles by first class mail to return to their Hyundai dealer to inspect the Electronic Power Control Unit and replace if necessary. Ioniq Electric is currently only available to California residents.

The Electronic Power Control Unit in the vehicles affected by this recall is covered for 15 years or 150,000 miles under Hyundai's new vehicle limited warranty. As owners of these vehicles would not have incurred expenses for the warranted repair as a result of this condition, no notification regarding reimbursement under section 577.11 is necessary.

How Remedy Component Differs from Recalled Component : Electronic Power Control Unit manufactured with a revised casting process to reduce the potential for small voids.

Identify How/When Recall Condition was Corrected in Production : The EPCU housing casting manufacturing process was revised on April 01, 2017 to reduce the potential for small voids resulting in coolant contact with the control unit's circuit board.

Recall Schedule :

Description of Recall Schedule : Hyundai Motor America plans to notify dealers about this recall on September 1, 2017. Owner notification is expected to begin September 29, 2017

Planned Dealer Notification Date : SEP 01, 2017 - SEP 01, 2017

Planned Owner Notification Date : SEP 29, 2017 - SEP 29, 2017

* NR - Not Reported