

Part 573 Safety Recall Report

18V-161

Manufacturer Name : Kia Motors America**Submission Date :** MAR 08, 2018**NHTSA Recall No. :** 18V-161**Manufacturer Recall No. :** SC162**Manufacturer Information :**

Manufacturer Name : Kia Motors America

Address : 111 Peters Canyon Road
Irvine CA 92606

Company phone : 800-333-4542

Population :

Number of potentially involved : 1,710

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2017-2018 Kia Optima

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : 2017-2018 MY Optima Plug-In Hybrid vehicles produced from August 25, 2016 thru September 11, 2017. The recall population was determined based on a review of vehicle production records. The recalled vehicles contain a Voltage Protection Device (VPD) switch that can inadvertently be activated. The vehicles subject to this recall were not produced in VIN order. Customers seeking information about their specific vehicle will be referred to Kia's Consumer Assistance Center or their Kia dealer.

Production Dates : AUG 25, 2016 - SEP 11, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The vehicle's battery Voltage Protection Device (VPD) is designed to protect the high voltage battery module by detecting the swelling of the battery module. In certain circumstances, the VPD switch can be inadvertently activated. If the VPD switch is activated, electricity to the vehicle's electric motor may be disconnected. If this occurs while the vehicle is driven under Electric Vehicle (EV) Mode, the vehicle may experience a loss of motive power.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Loss of motive power at high speed can increase the risk of a crash.**Description of the Cause :** Inadvertent activation of the VPD switch.**Identification of Any Warning that can Occur :** Illumination of the Check Hybrid System Light On

Supplier Identification :**Component Manufacturer**

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

Chronology :

See attached document titled "2017-2018 Optima Plug-In Hybrid Battery Management System Chronology"

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 Kia dealer. Dealers will be instructed to remove the current VPD switch and install two newly designed Battery Management Systems (BMSs) containing new Overvoltage Protection Devices (OPDs). The corresponding wiring harnesses will also be installed. Kia will reimburse owners for repair expenses already incurred pursuant to Kia's General Reimbursement Plan filed March 21, 2016.

How Remedy Component Differs from Recalled Component : The remedy components are newly designed BMSs containing OPDs. The recalled component is the VPD switch which is mounted to the main and sub battery packs. The VPD switch does not have its own part number.

Identify How/When Recall Condition was Corrected in Production : The new BMSs containing OPDs were implemented into production on September 12, 2017.

Recall Schedule :

Description of Recall Schedule : Dealer notification is planned for April 27, 2018 and owner notification is planned for May 3, 2018.

Planned Dealer Notification Date : APR 27, 2018 - APR 27, 2018

Planned Owner Notification Date : MAY 03, 2018 - MAY 03, 2018

* NR - Not Reported