

Part 573 Safety Recall Report

19V-204

Manufacturer Name : Hyundai Motor America**Submission Date :** MAR 14, 2019**NHTSA Recall No. :** 19V-204**Manufacturer Recall No. :** 182**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 : 16,487

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2013-2013 Hyundai Veloster

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

Power Train : GAS

Descriptive Information : Certain Model Year 2013 Hyundai Veloster vehicles equipped with 1.6 liter turbo engines produced from 04/26/2012 to 10/16/2013 by Hyundai Motor Company ("HMC") at the Ulsan plant in the Republic of Korea.

Production Dates : APR 26, 2012 - OCT 16, 2013

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The engine management software installed on the engine electronic control units ("ECU's") in the subject vehicles could cause premature ignition of air/fuel mixture in the engine cylinder ("pre-ignition"). Pre-ignition in an engine cylinder could cause excessive cylinder pressure eventually leading to engine damage. A damaged engine could lead to a high-speed stall and, in limited cases, a vehicle fire.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : High-speed stalls could increase the risk of a crash.
A vehicle fire could increase the risk of an injury.

Description of the Cause : The engine ECU management software could cause excess spark advance and premature combustion of the air/fuel mixture in the engine cylinder(s).

Identification of Any Warning that can Occur : Knocking noise from engine
Reduced motive power
Illumination of the MIL light

Engine misfire(s)

Supplier Identification :

Component Manufacturer

Name : Robert Bosch Korea, LLC
Address : 567 Sinsu-ro
Giheung-gu, Yongsi Gyeonggi-do FOREIGN STATES 16923
Country : Korea, Republic of

Chronology :

Since October 2018, Hyundai has been in recurring discussions with the Office of Defects Investigation (“ODI”) regarding complaints of non-crash fires in certain Hyundai vehicles. During this time, Hyundai has been analyzing all of its field information indicating alleged non-crash vehicle fires and regularly reporting its findings to the agency.

On December 4, 2018 ODI expressed concerns to Hyundai regarding claim rates for stall and non-collision fires in certain model years of Hyundai Veloster vehicles. Hyundai reviewed its market data, returned parts analysis and other data sources to identify a trend in high-speed stalls and non-collision fires claims in 2013 Hyundai Veloster vehicles. The claims significantly decreased from model year 2014 onward. Hyundai did not identify any accidents or injuries related to these claims.

In January 2019, Hyundai reviewed the engine manufacturing and design change history, including updates to the engine management software. Hyundai found that an engine ECU software update for model years 2014 Hyundai Veloster vehicles onward revised the ignition logic to reduce piston noise in the engine. Hyundai began investigating the differences between engine management software versions intended for model years 2013 and 2014 vehicles respectively until February 2019. Additionally during this time, Hyundai began investigating returned engines and vehicles for further analysis and confirmation of the alleged condition.

In February 2019, Hyundai concluded that model year 2013 software could be more susceptible to causing pre-ignition than the model year 2014 software, which contained revised ignition logic that improved combustion and inadvertently reduced the onset of pre-ignition. Based on this information, on March 6, HMA convened its Technical Committee and decided to conduct a safety recall in the U.S. market to address the affected vehicles.

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

Description of Remedy :

Description of Remedy Program : Hyundai Motor America plans to notify owners of affected vehicles to return their vehicles to their Hyundai dealers to reprogram the engine ECU with updated software.

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 updated software contains parameters that minimize spark advance and reduce pre-ignition.

Identify How/When Recall Condition was Corrected in Production : The updated software was implemented in production on October 17, 2013.

Recall Schedule :

Description of Recall Schedule : Notifications will tentatively begin on the dates indicated in this report. These dates could change based on parts availability and in accordance with federal regulation.

Planned Dealer Notification Date : MAY 13, 2019 - MAY 13, 2019

Planned Owner Notification Date : MAY 13, 2019 - MAY 13, 2019

* NR - Not Reported