

DEFECT INFORMATION REPORT

REVIEWED BY:
JOHN TURLEY
APR-18-2019
John Turley

573.6(c)(1)

Name of manufacturer: Honda Motor Co., Inc.

Manufacturer's agent: John Turley
American Honda Motor Co., Inc.
1919 Torrance Blvd.
Torrance, CA 90501-2746

573.6(c)(2)

Identification of potentially affected vehicles:

<u>Make/Model</u>	<u>Model Year</u>	<u>Dates of Manufacture</u>	<u>Number of Vehicles</u>
Honda Clarity Fuel Cell	2017	11/17/2016 to 12/28/2017	911
Honda Clarity Fuel Cell	2018	12/29/2017 to 02/28/2018	171

Description of the basis for the determination of the recall population:

The recall population was determined based on manufacturing records. The manufacturing range reflects all possible vehicles that could potentially experience the problem.

Description of how the vehicles being recalled differ from similar vehicles not included in the recall:

All model year 2017 and 2018 Clarity Fuel Cell vehicles are included in the recall. The defect pertains to an electric water pump installed in the Clarity Fuel Cell vehicles to circulate water that cools the fuel cell stack. Although the Clarity Battery Electric and Plug-in Hybrid vehicles are similar to the Clarity Fuel Cell and have some common parts, neither include the electric water pump because neither has the fuel cell stack.

Identification of affected component:

Component: Water Pump Assy, Electric
Part No.: 3H300-5WM-A02
Country of Origin: South Korea
Manufacturer: GMB Korea Corp.

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Total number of potentially affected vehicles: 1,082

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Percentage of affected vehicles that contain the defect: 100%

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Defect description:

Affected vehicles have an electric water pump that circulates cooling water to cool the fuel cell stack. The magnets attached to the rotor core inside the electric water pump were not properly surface-treated and may corrode from water exposure. Excessive magnet corrosion can disable the electric water pump, which would illuminate the warning indicator and cause the vehicle to enter EV limp mode or lose motive power and come to a stop, thereby increasing the risk of a crash.

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Chronology:

April 2, 2018

Honda received the first report in which the “Power System” warning light illuminated on the multi-information display and began an investigation.

June 2018

Honda received a second report in which the warning message illuminated. Returned failed parts analysis indicated that the magnets on the rotor core were corroded and cracked.

October 2018 to January 2019

Analysis and testing suspected that the cause of magnet corrosion was manufacturing-related. Durability testing was performed on magnets that were treated with anti-corrosive coating and confirmed the magnets were resistant to corrosion.

February to March 2019

Analysis of healthy parts collected from the field affirmed that the two prior reports were reproducible and that the magnets were susceptible to corrosion.

April 11, 2019

Honda determined that a defect related to motor vehicle safety existed and decided to conduct a safety recall.

As of April 11, 2019, Honda has received two warranty claims, nine field reports, and no reports of injuries or crashes related to this issue.

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Program for remedying the defect:

Registered owners of all affected vehicles will be contacted by mail and asked to take their vehicle to a Honda automobile dealer. The dealer will replace the electric water pump, for free.

Because the new vehicle limited warranty on all affected vehicles would have provided a free repair for the problem addressed by this recall, without any payment by the owner, reimbursement for pre-notification repairs will not be offered.

The estimated date to start notification to dealers: April 19, 2019

The estimated date to start notifications to owners: June 10, 2019

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Representative copies of all notices, bulletins and other communications:

A copy of the dealer service bulletin, the final customer notification letter and other dealer communication will be submitted to your office as soon as possible.

A draft of the owner notification letter will be submitted to your office as soon as possible.

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Manufacturer's campaign number: L4N