



U.S. Department of Transportation
National Highway Traffic Safety Administration

ODI RESUME

Investigation: RQ24011
Prompted By: Recall Remedy Review
Date Opened: 06/26/2024
Investigator: Caroline Woody **Reviewer:** Sharon Yukevich
Approver: Tanya Topka
Subject: Rear-View Camera Failure

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Honda (American Honda Motor Co.)
Products: 2017-2019 MY Honda Ridgeline
Population: 129,266 (Estimated)
Problem Description: Rear-View Camera fails to properly function due to damage to tailgate wire harness caused by normal vehicle usage.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	EWR D&I	Other	Total	EWR Field Reports
All Incidents:	0	0	0	0	0	0
Crashes/Fires:	0	0	0	0	0	0
Injury Incidents:	0	0	0	0	0	0
Fatality Incidents:	0	0	0	0	0	0

ACTION/SUMMARY INFORMATION

Action: Open this Recall Query (RQ)

Summary:

On November 23, 2022, American Honda Motor Co. (Honda), submitted recall 22V-867 to the Office of Defects Investigation (ODI), addressing concerns of a loss of the Rear View Camera (RVC) function in model year (MY) 2017-2019 Honda Ridgeline vehicles. Recall 22V-867 states that the RVC wire harness was manufactured with a protective corrugated tubing which was insufficient to protect against bending wear and zip ties which were insufficiently tightened and would not keep the protective tubing in place. The consequence is that the RVC wire harness may fatigue and break after repeated opening and closing of the tailgate. This ultimately results in the failure of the RVC image to display due to a lack of connectivity. Honda's remedy identified in the recall filing was a replacement harness with longer protective corrugated tubing and sufficiently tightened zip ties.

On May 3, 2024, Honda submitted recall 24V-321 to ODI, addressing concerns of a loss of the RVC function in MY 2020-2024 Honda Ridgeline vehicles. Recall 24V-321 states that the RVC wire harness was manufactured with a material which was susceptible to breakage upon repeated opening and closing of the tailgate, which ultimately leads to a complete loss of RVC function. Honda's remedy identified in the recall filing was a replacement harness manufactured by a new supplier with improved material properties to withstand wear from bending. At this time, ODI has not received any allegations of RVC failure post recall 22V-867 remedy, as the nature of the failure addressed by this recall requires time in service that the remedy parts have not yet seen. Since the remedy parts for this recall and the parts being recalled under 24V-321 use the same supplier and materials for critical components in the RVC wire harness, ODI is opening this Recall Query to assess the long-term suitability of the remedy for recall 22V-867.

Part 573 Safety Recall Report

22V-867

Manufacturer Name : Honda (American Honda Motor Co.)**Submission Date :** NOV 23, 2022**NHTSA Recall No. :** 22V-867**Manufacturer Recall No. :** 6RW**Manufacturer Information :**

Manufacturer Name : Honda (American Honda Motor Co.)

Address : 1919 Torrance Blvd.

Torrance CA 90501

Company phone : 1-888-234-2138

Population :

Number of potentially involved : 117,445

Estimated percentage with defect : 7 %

Vehicle Information :

Vehicle 1 : 2017-2019 Honda Ridgeline

Vehicle Type : LIGHT VEHICLES

Body Style : PICKUP TRUCK

Power Train : GAS

Descriptive Information : The recall population was determined based on supplier and manufacturing records. The production range reflects all possible vehicles that could experience the problem.

Production Dates : OCT 29, 2015 - JUN 01, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The rear-view camera (RVC) tailgate wire harness may fatigue and break after repeated opening and closing of the tailgate.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A broken wire harness may result in a failure to display the RVC image, which may affect the driver's view and increase the risk of a back-up collision or injury.

Description of the Cause : The RVC wire harness was manufactured with a protective corrugated tubing and harness guide to help protect the wiring from stress when the tailgate was opened and closed; a zip tie was used to keep the corrugated tubing and guide in the proper position. With some RVC wire harnesses, the length of corrugated tubing inserted into the harness guide (i.e., the overlap between the corrugated tubing and the harness guide) was insufficient to provide optimal protection and the zip tie was insufficiently tightened to keep the tubing and guide in the proper position.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : WIRE HARN, TAILGATE

Component Description : TAILGATE WIRE HARNESS

Component Part Number : 32109-T6Z-A000

Supplier Identification :**Component Manufacturer**

Name : APTIV US LCC

Address : 5725 Innovation Drive
Troy Michigan 48098

Country : United States

Chronology :

July 19, 2018

Honda observed a potential trend of, and received a market quality report on, malfunctioning RVCs in affected vehicles from North America.

October 2018 – November 2019

Honda investigated the issue to determine potential causes and prevalence of the issue in the market. Honda's investigation identified that variations in the tightness of the zip tie holding the protective corrugated tubing in place and the depth to which the corrugated tubing was inserted into the associated harness guide could impact RVC performance. During this time, Honda applied production improvements to address these potential variations, with the last being applied on June 3, 2019.

November 2019 – July 2021

Honda continued to monitor the issue.

July 2021 – August 2021

Honda received communication from NHTSA ODI to investigate reports of RVC malfunctions in the affected vehicles. Honda informed NHTSA the concern was currently under study.

February 2022 – April 2022

NHTSA ODI opened a Preliminary Evaluation (PE) defect investigation. Honda informed NHTSA that the issue was considered to be one of quality, unrelated to safety.

October 27, 2022

NHTSA ODI notified Honda that the issue was considered to be related to safety.

November 17, 2022

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

As of November 17, 2022, Honda has received 3,437 warranty claims related to the issue between December 2017 to October 2022, and no reports of injuries or deaths related to this issue.

Description of Remedy :

Description of Remedy Program : Registered owners of all affected vehicles will be contacted by mail and asked to take their vehicle to an authorized Honda dealer. The dealer will replace the rear-view camera tailgate harness with an improved part.

Owners who have paid to have these repairs completed at their own expense will be eligible for reimbursement, in accord with the recall reimbursement plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : Recalled components may contain an insufficiently tightened zip tie and corrugated tubing that is not inserted sufficiently far into the harness guide.

Identify How/When Recall Condition was Corrected in Production : The harness assembly and inspection process have been improved.

Recall Schedule :

Description of Recall Schedule : Dealer notification is scheduled to begin and end on or about 11/23/2022. Owner notification is scheduled to begin on and end on or about 1/16/2023.

Planned Dealer Notification Date : NOV 23, 2022 - NOV 23, 2022

Planned Owner Notification Date : JAN 16, 2023 - JAN 16, 2023

* NR - Not Reported

Part 573 Safety Recall Report

24V-321

Manufacturer Name : Honda (American Honda Motor Co.)

Submission Date : MAY 09, 2024

NHTSA Recall No. : 24V-321

Manufacturer Recall No. : YI7



Manufacturer Information :

Manufacturer Name : Honda (American Honda Motor Co.)

Address : 1919 Torrance Blvd.

Torrance CA 90501

Company phone : 1-888-234-2138

Population :

Number of potentially involved : 187,290

Estimated percentage with defect : 3 %

Vehicle Information :

Vehicle 1 : 2020-2024 Honda Ridgeline

Vehicle Type : LIGHT VEHICLES

Body Style : PICKUP TRUCK

Power Train : GAS

Descriptive Information : The recall population was determined based on supplier and manufacturing records. The production range reflects all possible vehicles that could experience the problem.

Production Dates : NOV 08, 2019 - APR 24, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : In low temperature environments where road salt is present, the electric wiring of the rear-view camera (RVC) tailgate wire harness may fatigue and break in the presence of freezing water and salt with repeated opening and closing of the tailgate.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Broken wiring in the tailgate harness may result in a failure to display the RVC image, which may affect the driver's view and increase the risk of a back-up collision or injury.

Description of the Cause : The RVC wire harness was manufactured with a protective woven twisted tube, which has high permeability to water and salt. Due to freezing temperatures and the repeated opening and closing of the tailgate, fine cracks can form in the wire insulation of the tailgate harness. As environmental saltwater penetrates the twisted tube and settles onto the cracks of the wire insulation, the cracks are further expanded with the repeated freezing and thawing of saltwater and the opening and closing of the tailgate, ultimately resulting in fatigue and breakage of the tailgate harness electric wire(s).

Identification of Any Warning that can Occur : The tailgate lock/unlock function and/or alarm system may malfunction.

Involved Components :

Component Name 1 : TAILGATE WIRE HARNESS

Component Description : TAILGATE WIRE HARNESS

Component Part Number : 32109-T6Z-A10

Supplier Identification :

Component Manufacturer

Name : APTIV Services US, LLC

Address : 5725 Innovation Drive
Troy Michigan 48098

Country : United States

Chronology :

May 11, 2020

Honda received the first warranty claim for this issue.

August 25, 2022

Honda received a market quality report on the issue and began to investigate.

September 13, 2022

Honda investigated returned parts from the market and observed cracked electric wire insulation, salt adhesion, and a fatigue fracture of the electric wire(s).

October 31, 2022

Honda began to further investigate the issue by analyzing the environmental conditions where the issue occurred.

March 24, 2023

Honda continued its investigation by initiating a recreation verification study of the issue to determine the potential causes exhibited in the market.

February 13, 2024

NHTSA ODI opened a Preliminary Evaluation (PE) defect investigation (PE24004) from the NHTSA ODI to investigate reports of RVC malfunctions in the affected vehicles.

February 27, 2024

Honda requested the supplier to increase the toughness/durability against wire breakage notwithstanding use in harsh environmental conditions, Honda decided to change the harness wire supplier to obtain more flexible (but robust) wire.

April 3, 2024

Honda completed its recreation verification study and continued to analyze the results.

April 19, 2024

In response to the Preliminary Evaluation (PE24004) from NHTSA ODI, Honda communicated its initial findings thus far, current state of its assessment to motor vehicle safety regarding the issue, and that a conclusion would be reached and communicated to NHTSA in the very near future.

April 25 – May 2, 2024

Honda stopped the shipment of Ridgeline vehicles to prevent the outflow of vehicles with potentially suspect parts.

May 3, 2024

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

As of May 3, 2024, Honda has received 402 warranty claims related to the issue between November 5, 2020, and April 5, 2024, and no reports of injuries or deaths related to this issue.

Description of Remedy :

Description of Remedy Program : Registered owners of all affected vehicles will be contacted by mail and asked to take their vehicle to an authorized Honda dealer. The dealer will replace the rear-view camera tailgate harness with an improved part.

Owners who have paid to have these repairs completed at their own expense may be eligible for reimbursement, in accord with the recall reimbursement plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : Recalled components contain a wiring harness with electric wiring that is susceptible to fatigue and breakage from repeated opening and closing of the tailgate in low temperature environments with road salt.

Identify How/When Recall Condition was Corrected in Production : To increase toughness/durability against wire breakage notwithstanding use in harsh environmental conditions, Honda decided to change the harness wire supplier to obtain a more flexible (but robust) wire. Harnesses with more durable wiring were incorporated into vehicle production as of May 3, 2024. Vehicles produced from April 25 through May 2, 2024, were repaired with improved parts prior to shipment.

Recall Schedule :

Description of Recall Schedule : Dealer notification is scheduled to begin and end on or about 5/10/2024.
Owner notification is scheduled to begin on and end on or about 7/1/2024.

Planned Dealer Notification Date : MAY 10, 2024 - MAY 10, 2024

Planned Owner Notification Date : JUL 01, 2024 - OCT 01, 2024

* NR - Not Reported