

Part 573 Safety Recall Report

24V-744

Manufacturer Name : Honda (American Honda Motor Co.)**Submission Date :** OCT 03, 2024**NHTSA Recall No. :** 24V-744**Manufacturer Recall No. :** SJS, MJU, QJT, VJV**Manufacturer Information :****Population :**

Manufacturer Name : Honda (American Honda Motor Co.)

Number of potentially involved : 1,693,199

Address : 1919 Torrance Blvd.

Estimated percentage with defect : 1 %

Torrance CA 90501

Company phone : 1-888-234-2138

Vehicle Information :

Vehicle 1 : 2022-2025 Honda Civic 4D

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

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 : FEB 16, 2021 - SEP 03, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 2 : 2025-2025 Honda Civic 4D Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

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 : MAR 21, 2023 - AUG 30, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 3 : 2022-2025 Honda Civic 5D

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

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 : FEB 09, 2021 - AUG 14, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 4 : 2025-2025 Honda Civic 5D Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

Power Train : HYBRID ELECTRIC

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 : MAY25, 2023 - FEB 06, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 5 : 2023-2025 Honda Civic Type R

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

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 : MAR 01, 2022 - AUG 29, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 6 : 2023-2025 Honda CR-V

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

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 : AUG 05, 2021 - SEP 03, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 7 : 2023-2025 Honda CR-V Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

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 : SEP 21, 2021 - SEP 04, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 8 : 2025-2025 Honda CR-V Fuel Cell Electric Vehicle

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : CNG/LPG

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 : JUN 03, 2024 - SEP 17, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 9 : 2023-2025 Honda HR-V

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

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 : APR 26, 2022 - AUG 23, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 10 : 2023-2025 Acura Integra

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

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 : JUL 26, 2021 - SEP 06, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 11 : 2024-2025 Acura Integra Type S

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

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 : SEP 13, 2022 - SEP 11, 2024

VIN Range 1 : Begin : NR End : NR Not sequential

Description of Defect :

Description of the Defect : Due to an improperly produced steering gearbox worm wheel, the wheel can swell during use, reducing the grease film thickness between the worm wheel and worm gear. In addition, the worm gear spring preload was set improperly high, increasing the sliding force between the components. As a result of the reduced grease film thickness and increased sliding force, friction between the worm wheel and worm gear increases.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Increased friction between the worm gear and worm wheel can increase steering effort and difficulty, increasing the risk of a crash or injury.

Description of the Cause : Due to an insufficient annealing process and high load single unit break-in during production of the worm wheel, environmental heat and moisture may cause the worm wheel teeth to swell during use, resulting in the increase of the worm wheel teeth pressure angle. This leads to higher surface pressure and a reduction of grease film thickness, increasing the friction between the worm wheel and worm gear. In addition, the preload of the worm gear spring was set too high, increasing the gear slide load and resulting in higher friction and increased torque fluctuation when steering.

Identification of Any Warning that can Occur : Abnormal noise and/ or a momentary “sticky” feeling when the vehicle is in operation and the steering wheel is turned.

Involved Components :

Component Name 1 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-3S5 -3050-M1

Component Name 2 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T22 -3050-M1

Component Name 3 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T21 -3060-M1

Component Name 4 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T21 -3050-M1

Component Name 5 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T24 -3060-M1

Component Name 6 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T21 -3060-M1

Component Name 7 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T21 -3050-M1

Component Name 8 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-T60 -3050-M1

Component Name 9 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-3C0 -3060-M1

Component Name 10 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-3V0 -3060-M1

Component Name 11 : GEAR BOX ASSY, STRG

Component Description : GEAR BOX ASSY, STRG

Component Part Number : 53640-3V0 -3050-M1

Supplier Identification :

Component Manufacturer

Name : Hitachi Astemo Americas, Inc.

Address : 960 Cherry Street

Blanchester Ohio 45107

Country : United States

Chronology :

September 9, 2021

Honda received the first confirmed complaint of this issue.

November 23, 2022

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

March 17, 2023

NHTSA ODI opened a Preliminary Evaluation (PE) defect investigation (PE23005) to investigate reports of sticky steering in the affected vehicles.

July 19, 2023

Honda received a market quality report and found deformation of the worm wheel teeth. In response to reports of sticky steering, the worm wheel mold process was revised.

November 29, 2023

NHTSA ODI upgraded the PE to an Engineering Analysis (EA23003) to investigate reports of sticky steering in the affected vehicles.

January 26, 2024

Honda received a market quality report after revisions to the worm wheel mold process.

February 14, 2024

In response to EA (EA23003) from NHTSA ODI, Honda communicated its initial findings thus far and current assessment of motor vehicle safety regarding the issue.

March 9, 2024

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

August 20, 2024

Honda's investigation of more recently returned parts found the condition to be at an increased level compared to that found with parts recovered in the past.

August 30, 2024

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

September 5, 2024

After analyzing recent market reports, Honda considered the potential for a safety concern and further investigated the issue.

September 26, 2024

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

As of September 26, 2024, Honda received 10,328 warranty claims related to the issue between September 9, 2021, and September 19, 2024, and no reports of injuries or deaths in the claims 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 worm gear spring with an improved part and redistribute or add grease.

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 improperly set springs and insufficient grease film thickness between the worm wheel and worm gear.

Identify How/ When Recall Condition was Corrected in Production : To reduce the friction and load between the worm wheel and worm gear, the supplier revised the worm wheel pressure angle (tooth tips) control value, the spring load specification, and the worm gear meshing area grease application process. Steering gearboxes with reduced friction and load were incorporated into vehicle production as of August 30, 2024.

Recall Schedule :

Description of Recall Schedule : Dealer notification is anticipated to begin on or about 10/4/2024 and

end on or about 10/8/2024. Owner notification is scheduled to begin on and end on or about 11/18/2024.

Planned Dealer Notification Date : OCT 04, 2024 - OCT 08, 2024

Planned Owner Notification Date : NOV 18, 2024 - NOV 18, 2024

* NR - Not Reported