

Part 573 Safety Recall Report

22E-020

Manufacturer Name : Custom Wheel House LLC

Submission Date : MAR 23, 2022

NHTSA Recall No. : 22E-020

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Custom Wheel House LLC

Address : 15500 Cornet St

Santa Fe Springs CA 90670

Company phone : 8667798604

Population :

Number of potentially involved : 116

Estimated percentage with defect : 50 %

Equipment Information :

Brand / Trade 1 : Method Race Wheels

Model : MR316

Part No. : MR31678060525

Size : 17x8, +25 Offset, 6x5.5(139.7)

Function : Wheel Rim

Descriptive Information : The recall population includes MR31678060525 wheels received and sold between 11/01/2021 to 02/01/2022 with casting lot markings of "20C" and "13B". The quantity of wheels that may contain those casting lots is 389. The quantity of wheels sold in that time is 116. The recall population was determined based on factory work record and product quality control markings identifying casting date and casting lot number on the wheels.

Production Dates : OCT 14, 2021 - NOV 18, 2021

Description of Defect :

Description of the Defect : Custom Wheel House LLC observed during a routine audit test that subject wheels exhibited cracking in the spokes when subject to the cornering fatigue test, conducted pursuant to SAE J2530. The wheel may experience cracking under extreme loads, i.e. vehicles with axle weights at or near the marked maximum load rating and using the maximum recommended tire diameter of 37 inches.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The safety risk is of the wheel cracking under extreme loads and maximum ratings, as described. While precise safety-related-risk cannot be quantified with certainty there is risk of causing a vehicle crash, Custom Wheel House will conduct a recall out of abundance of caution.

Description of the Cause : Factory labor error and mold cooling issue resulted in inferior material mechanical properties.

Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name : Wheel Rim

Component Description : MR316, 17x8, +25mm offset, 6x5.5(139.7), Matte Black

Component Part Number : MR31678060525

Supplier Identification :

Component Manufacturer

Name : Shandong Jinma Automotive Equipment

Address : 206 National Road, Luozhuang District
Linyi City Foreign States

Country : China

Chronology :

December 2021: pre-production sample part fails laboratory cornering fatigue test, which was informed to manufacturing partner to begin investigation, and the factory identified that a likely cause was the casting process not being optimized on pre-production parts.

January 2022: Production is halted, factory inventory quarantined, no shipments approved to leave factory, and the factory notified that some parts from the first production order failed laboratory cornering fatigue testing.

01/30/2022-02/08/2022: Factory shutdown for Chinese New Year

February 2022: Based on review of US laboratory failures and factory work record, the failures are observed to only occur on wheels with 20C and 13B casting lots. Failures do not occur on wheels with any other casting lot identifications.

March 2022: Custom Wheel House notifies dealers of wheels with possible issue to begin gathering customer information.

Description of Remedy :

Description of Remedy Program : At no cost to the customer, replace subject wheels and service to replace them. If remedy was handled prior to recall owners can mail invoice to Custom Wheel House or call 866-779-8604 for reimbursement.

How Remedy Component Differs from Recalled Component : Remedy components will have manufacture dates and casting lot numbers that do not match the affected product. The replacement wheels will not experience cracking of the spokes under the extreme loads described previously.

Identify How/When Recall Condition was Corrected in Production : This was an isolated incident that involved an issue with a mold cooling system and worker not following work instructions. Internal corrective actions, including quarantining all affected inventory parts, have been made at the manufacturing site to prevent re-occurrence.

Recall Schedule :

Description of Recall Schedule : Owners and dealers will be notified starting March 23, 2022, 5 business days from the submission of this report as required per 577.5. To facilitate the recall process, Custom Wheel House will perform enhanced outreach to affected customers and dealers by direct phone and email communications as follow-up and as necessary.

Planned Dealer Notification Date : MAR 24, 2022 - NR

Planned Owner Notification Date : MAR 24, 2022 - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR

Address : NR

NR

Country : NR

Company Phone : NR

* NR - Not Reported