

Part 573 Safety Recall Report

22V-871

Manufacturer Name : Marion Body Works Inc.**Submission Date :** APR 04, 2023**NHTSA Recall No. :** 22V-871**Manufacturer Recall No. :** 22V-778**Manufacturer Information :**

Manufacturer Name : Marion Body Works Inc.

Address : 211 West Ramsdell St.

Marion WI 54950

Company phone : 715-754-5261

Population :

Number of potentially involved : 6

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2023 Spartan Fire Gladiator, MetroStar, FC-94 and KME Panther

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The emergency response cab chassis affected by this recall are equipped with a Meritor axle using suspect tie rod clamps supplied to Meritor between December 16, 2021 and May 16, 2022. Refer to Meritor recall 22E-085. Meritor supplied axle Serial Numbers that were traced to the affected cab chassis.

Production Dates : JAN 27, 2022 - SEP 26, 2022

VIN Range 1 : Begin : 4S9AV2D94MC560706 End : 4S9CU2D95NC560128 Not sequential**Description of Defect :**

Description of the Defect : Based upon information provided by Meritor's supplier, due to a heat treat issue, Meritor has determined that a population of tie rod clamps used in the manufacture of the subject axle population may be susceptible to cracking. Over time, a crack may lead to a complete fracture of the clamp, thereby reducing clamp load to the tie rod end. If both clamps on the tie rod were to fail, the cross tube could start to unscrew, vehicle alignment issues would evolve, and there is a potential for the tie rod end to separate from the cross tube. Separation is more likely to occur when tie rod loads are highest, which is at slow vehicle speeds over rough terrain or turning maneuvers.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : : Separation of the tie rod end from the cross tube could result in partial loss of vehicle steering capability, increasing the risk of a crash

Description of the Cause : Excessive carbon caused by a damaged control board on one of four furnaces at the supplier.

Identification of Any Warning that can Occur : The initial effect would be a vehicle out of alignment. If both clamps on the tie rod cracked, the tube could rotate and result in a partial loss of steering capability.

Involved Components :

Component Name 1 : Tie Rod Assembly

Component Description : Tie Rod Clamp

Component Part Number : Unknown

Supplier Identification :

Component Manufacturer

Name : Meritor

Address : 22021 Skyway Church Rd
Maxton North Carolina 28364

Country : United States

Chronology :

No update to chronology received from Meritor and Spartan.

Refer to NHTSA Recall 22E-085 for the Meritor chronology.

On September 15, 2022 - Spartan Fire received communication from Meritor of a steering arm clamp issue. An investigation was started and a potential population identified.

October 3 - 14, 2022 - Spartan Fire received communication from Meritor about recall 22E-085. A final population is still being identified with Meritor. Stop ship issued within Spartan Fire. Escalated the issue to REV Group Management.

October 14, 2022 - REV's senior leadership approved a voluntary recall for this issue.

October 19, 2022 - Meritor provided Spartan a final serial number list affected. Spartan determined final population.

November 22, 2022 - Marion Body Works was notified of the affected population.

Description of Remedy :

Description of Remedy Program :	Meritor will work with affected vehicle manufacturers to replace suspect tie rod clamps on the subject axles. The vehicles that have been remedied would have been covered through the normal warranty process.
How Remedy Component Differs from Recalled Component :	Replacement tie rod clamps will meet Meritor's specifications for heat treatment.
Identify How/When Recall Condition was Corrected in Production :	The sub-supplier to Meritor's tier 1 supplier introduced metallurgical evaluation for excessive carburization for all heat treatment batches and an alarm was installed to alert operator if any deviating conditions occur. The correction was completed 5/11/2022.

Recall Schedule :

Description of Recall Schedule :	Marion to begin dealer and customer notification by week of November 28, 2022.
Planned Dealer Notification Date :	NOV 28, 2022 - NOV 28, 2022
Planned Owner Notification Date :	NOV 28, 2022 - NOV 30, 2022

* NR - Not Reported