

Part 573 Safety Recall Report

24V-507

Manufacturer Name : Spartan Fire, LLC**Submission Date :** AUG 01, 2024**NHTSA Recall No. :** 24V-507**Manufacturer Recall No. :** 24010**Manufacturer Information :**

Manufacturer Name : Spartan Fire, LLC

Address : 1541 Reynolds Road

Charlotte MI 48813

Company phone : 517-588-4700

Population :

Number of potentially involved : 48

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2025 Spartan Fire Gladiator, Metro Star, and KME Panther

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : This recall is for bolts used in an independent front suspension (IFS) assembly supplied by Reyco Granning (Supplier). The recall is based on information provided by the Supplier. The Supplier provided part numbers, serial numbers and date range of product affected. Spartan pulled a population by the part numbers, date range and serial numbers of product issued to determine the affected list. The chassis cab and emergency response vehicles affected by this recall are equipped with 20K, 22K and 24K IFS.

Quantity 7 – Spartan Gladiator 2023 model year trucks affected.

Quantity 15 – Spartan Gladiator 2024 model year trucks affected.

Quantity 21 – Spartan Metro Star 2024 model year trucks affected.

Quantity 1 – Spartan KME Panther 2024 model year trucks affected.

Quantity 4 – Spartan Metro Star 2025 model year trucks affected.

Production Dates : AUG 15, 2023 - MAY 21, 2024

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The independent front suspension (IFS) assembly was built with four bolts that may exhibit hydrogen embrittlement. There is a resulting potential for the heads of these bolts to pop off after alignment or retorquing procedures. This may result in separation of the fastener head at a high velocity which could cause injury to any persons in the vicinity when the separation occurs.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In the event where the defect results in a failure of the bolt and separation of

Description of the Safety Risk : the fastener head from the main bolt body occurs, there is an increased risk of personal injury.

Description of the Cause : Bolts were stripped of their original coating and re-plated with zinc, resulting in hydrogen embrittlement of the bolts.

Identification of Any Warning that can Occur : None.

Involved Components :

Component Name 1 : IFS, 22K and 24K

Component Description : Independent Front Suspension

Component Part Number : 1170-DD1-XXXXXX

Component Name 2 : IFS, 20K

Component Description : Independent Front Suspension

Component Part Number : 1180-DD1-XXXXXX

Supplier Identification :

Component Manufacturer

Name : Reyco Granning

Address : 1205 Industrial Park Drive
Mt Vernon Missouri 65712

Country : United States

Chronology :

March 5, 2024 – Spartan OEM found a broken eccentric bolt on campus.

March 25, 2024 – Spartan Chassis production heard bolt failure in final production.

April 22, 2024 – Spartan found a 2nd broken eccentric bolt in final chassis production and started an investigation with the supplier.

April 25, 2024 – Spartan created a PSR team.

March 26 – June 7, 2024 – Supplier reviewed and repaired chassis cab on Spartan campus. Supplier investigated the issue, completed 3rd party analysis, risk assessment, root cause analysis and Supplier contained their production.

June 5, 2024 – Supplier provided Spartan with serial number list and date range of affected product.

June 6, 2024 – Spartan determined the potential population. Stop ship issued at Spartan.
June 11, 2024 – Spartan completed risk assessment.
June 19-20, 2024 – Spartan reviewed risk assessment with Supplier to review potential field action.
June 24, 2024 - Escalated the issue to REV Group Management.
June 28, 2024 – REV's senior leadership approved a voluntary recall for this issue.

Description of Remedy :

Description of Remedy Program : The affected vehicles will have the eccentric bolt replaced with a Grade 9 Lawson bolt. This will be covered under the normal warranty process.

How Remedy Component Differs from Recalled Component : Remedy component will be a kit provided by the supplier that includes a Grade 9 Lawson bolt with an L marked on the head.

Identify How/When Recall Condition was Corrected in Production : The Supplier quarantined suspect bolts in production on April 23, 2024. The Supplier provided serial number list of suspect products on June 5, 2024 and Spartan issued stop ship in production as of June 6, 2024.

Recall Schedule :

Description of Recall Schedule : Spartan to begin owner notifications by week of August 5, 2024.

Planned Dealer Notification Date : AUG 01, 2024 - AUG 02, 2024

Planned Owner Notification Date : AUG 05, 2024 - AUG 09, 2024

* NR - Not Reported