

Part 573 Safety Recall Report

24V-453

Manufacturer Name : Spartan Fire, LLC**Submission Date :** JUN 25, 2024**NHTSA Recall No. :** 24V-453**Manufacturer Recall No. :** 24009**Manufacturer Information :**

Manufacturer Name : Spartan Fire, LLC

Address : 1541 Reynolds Road
Charlotte MI 48813

Company phone : 517-588-4700

Population :

Number of potentially involved : 17

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2017-2017 Spartan Fire Gladiator

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Vehicles affected by this non-compliance filing are equipped with wire braid hoses.

Quantity 3 – Gladiator 2017 model year trucks affected.

Production Dates : NOV 17, 2016 - NOV 18, 2016

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 2 : 2018-2019 Spartan Fire Gladiator and Metro Star

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Vehicles subject to this portion of the non-compliance are equipped with an Independent Front Suspension and an incorrectly sized air line between a quick release valve and the ABS valves for the front air brakes.

Quantity 4 – Metro Star 2018 model year trucks affected.

Quantity 6 – Gladiator 2018 model year trucks affected.

Quantity 2 – Metro Star 2019 model year trucks affected.

Quantity 2 – Gladiator 2019 model year trucks affected.

Production Dates : MAR 22, 2018 - OCT 30, 2018

VIN Range 1 : Begin : NR End : NR

 Not sequential

Description of Noncompliance :

Description of the Noncompliance : The service brake application timing exceeds the 0.45 timing requirement identified in S5.3.3.1 (a) of FMVSS 121 which states, with an initial service reservoir system air pressure of 100 psi, the air pressure in each brake chamber shall, when measured from the first movement of the service brake control, reach 60 psi in not more than 0.45 seconds in the case of trucks and buses.

As such, these vehicles may fail to comply with the requirements of Federal Motor Vehicle Safety Standard (FMVSS) number 121, "Air Brake Systems".

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : Delayed service brake application may result in increased stopping distance, which could increase the risk of a crash.

Description of the Cause : Specific designs were not verified.

Identification of Any Warning that can Occur : The application timing occurs without warning.

Involved Components :

Component Name 1 : Quick Release Valve

Component Description : Quick Release Valve

Component Part Number : 0832-MM5-005

Component Name 2 : Nylon Air Line

Component Description : Nylon tube 3/8 red

Component Part Number : 2517-MM5-013

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

Reference 18V-720. October 12, 2018 – Spartan Motors filed a non-compliance report. July 31 – November 2018 – Spartan found issue during testing, investigated brake timing issue, created a PSR team, and stop ships issued.

November 12, 2018 – Spartan petitioned 18V-720.

July 31, 2019 – Spartan amended petition for 18V-720.

June 3, 2024 – Spartan became aware of the May 31, 2024 NHTSA published denial of the petition.

June 3 - 11, 2024 – Spartan Engineering and Compliance team reviewed the previous investigation, PSR, population and remedy.

June 12, 2024 - Escalated the issue to REV Group Management.

June 17, 2024 – REV's senior leadership approved a voluntary recall for this issue.

Description of Remedy :

Description of Remedy Program : The affected vehicles under the wire braid hose population will have the quick release valve replaced. The affected vehicles under the IFS and incorrect sized air line population will replace fittings and correct plumbing on the vehicle. Spartan will reimburse the customer if the remedy has already been completed.

How Remedy Component Differs from Recalled Component : This configuration of the air brake system is no longer in production. More specifically, the wire braid air lines. The plumbing of brake valves was updated.

Identify How/When Recall Condition was Corrected in Production : Installation drawings were updated and implemented into production on December 24, 2018.

Recall Schedule :

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

Planned Dealer Notification Date : JUL 29, 2024 - AUG 02, 2024

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

* NR - Not Reported