

Part 573 Safety Recall Report

23V-808

Manufacturer Name : Spartan Fire, LLC**Submission Date :** DEC 01, 2023**NHTSA Recall No. :** 23V-808**Manufacturer Recall No. :** 23020**Manufacturer Information :****Population :****Manufacturer Name :** Spartan Fire, LLC**Number of potentially involved :** 60**Address :** 1541 Reynolds Road
Charlotte MI 48813**Estimated percentage with defect :** 100 %**Company phone :** 517-588-4700**Vehicle Information :****Vehicle 1 :** 2020-2023 Spartan Fire S-180 Pumper Fire Apparatus, KME Aerial Fire Apparatus, Smeal Aerial Fire Apparatus, KME Pumper Fire Apparatus, and Ladder Tower Aerial Fire Apparatus**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES**Body Style :** OTHER**Power Train :** DIESEL**Descriptive Information :** The recall population was determined based on product specifications associated with a specific firmware version. Recalled products have a different firmware version than those not included in the recall. Firmware version is recorded on a decal on each unit.

This recall is based on information supplied by Weldon. Weldon provided a part number and date range of product affected. Spartan pulled a population by the part number and date range of product issued to determine the affected list. The emergency response apparatus vehicles affected by this recall are equipped with certain 8 x 16 Input-Output nodes supplied by Weldon.

Quantity 1 – Ladder Tower Aerial Fire Apparatus 2020 model year truck affected.

Quantity 1 – S-180 Pumper Fire Apparatus 2020 model year truck affected.

Quantity 4 – KME Aerial Fire Apparatus 2020 model year trucks affected.

Quantity 25 – S-180 Pumper Fire Apparatus 2021 model year trucks affected.

Quantity 9 – KME Aerial Fire Apparatus 2021 model year trucks affected.

Quantity 1 – KME Pumper Fire Apparatus 2021 model year truck affected.

Quantity 10 – S-180 Pumper Fire Apparatus 2022 model year trucks affected.

Quantity 6 – KME Aerial Fire Apparatus 2022 model year trucks affected.

Quantity 1 – Smeal Aerial Fire Apparatus 2022 model year truck affected.

Quantity 2 – Smeal Aerial Fire Apparatus 2023 model year trucks affected.

Production Dates : AUG 31, 2020 - SEP 20, 2023**VIN Range 1 : Begin :**

NR

End : NR☐ Not sequential

Description of Defect :

Description of the Defect : The electrical current sensing calibration was not produced to specification so that the firmware would not shut off the output pin under a short circuit caused by external load or wiring failure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In the event of a short circuit or wiring failure, if the electrical circuit(s) become overloaded, depending on how the input-output node(s) is wired into the vehicle including whether it is located near a flammable fuel source, there is an increased risk of heat related damage or fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : This issue could occur without warning.

Involved Components :

Component Name 1 : 8 x 16 Input Output Node

Component Description : Multiplex Input Output Node

Component Part Number : 6030-2000-00

Supplier Identification :**Component Manufacturer**

Name : Weldon Division of Akron Brass

Address : 3656 Paragon Drive
Columbus Ohio 43228

Country : United States

Chronology :

Refer to NHTSA Recall 23E-084 for Weldon's chronology.

In early October 2023, Weldon was notified that external wiring in a vehicle using the node had melted. The part was returned to Weldon for analysis in mid-October where it was found that when an external short circuit occurred, the electrical output did not shut down as specified. Weldon conducted testing and analysis of the version of the node used in the vehicle as well as prior versions of the node and it was found that for the version of the node installed in the vehicle, the electrical current sensing calibration was outside the specified

limits. Weldon found that the calibration was previously updated in production, but was not considered to pose a broader concern at the time. On October 24, 2023, Weldon decided to conduct a safety recall to address the issue.

On November 15, 2023 – Spartan received information from Weldon regarding recall number 23E-084. A PSR was created, Engineering reviewed potential population, and inventory isolated in production.
November 21, 2023 – Spartan determined the final population.
November 27, 2023 - Escalated the issue to REV Group Management.
November 29, 2023 – REV’s senior leadership approved a voluntary recall for this issue.

Description of Remedy :

Description of Remedy Program :	Weldon will notify affected customers and update the firmware in the 8 x 16 node as installed in affected vehicles and in OEM inventory that are within the identified version range. Weldon will evaluate and provide reimbursement for pre-production remedies on an individual basis.
How Remedy Component Differs from Recalled Component :	Firmware version number on the device determines the range of devices that shall be recalled. Version 1.00 – 1.02 to be recalled.
Identify How/When Recall Condition was Corrected in Production :	June 14, 2023 as part of normal quality work, the current sensing calibration firmware was updated in production. Existing inventory at Spartan was isolated on November 15, 2023. Any affected product in Spartan's inventory will be reworked.

Recall Schedule :

Description of Recall Schedule :	Spartan to begin owner notifications by week of January 15, 2024.
Planned Dealer Notification Date :	JAN 08, 2024 - JAN 12, 2024
Planned Owner Notification Date :	JAN 15, 2024 - JAN 19, 2024

* NR - Not Reported