

# Part 573 Safety Recall Report

# 22V-373

**Manufacturer Name :** Spartan Fire, LLC**Submission Date :** MAY 24, 2022**NHTSA Recall No. :** 22V-373**Manufacturer Recall No. :** 22001**Manufacturer Information :**

Manufacturer Name : Spartan Fire, LLC

Address : 1541 Reynolds Road

Charlotte MI 48813

Company phone : 517-588-4700

**Population :**

Number of potentially involved : 27

Estimated percentage with defect : 100 %

**Vehicle Information :**

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

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

**Descriptive Information :** All units under this part number are part of the recall as they share the same build issue. Similar units with a different part number were built to specification and are not part of the recall population. There are approximately 72 units delivered under a private label to a single OEM customer and approximately 788 units delivered to other affected OEMs.

This recall is based on information supplied by Weldon. Weldon provided a list of V-mux serial numbers and Spartan part numbers that may be affected. Spartan pulled a population by the Spartan part number to determine the affected list. The emergency response chassis cabs affected by this recall are equipped with V-mux Hercules HC Node 1.5 supplied by Weldon.

Quantity 1 - Gladiator 2021 trucks affected.  
 Quantity 4 - Gladiator 2022 trucks affected.  
 Quantity 1 - MetroStar 2021 trucks affected.  
 Quantity 9 - MetroStar 2022 trucks affected.  
 Quantity 11 - FC-94 2022 trucks affected.  
 Quantity 1 - FC-94 2023 trucks affected.

**Production Dates :** MAR 29, 2022 - MAY 10, 2022**VIN Range 1 : Begin :** 4S9DU2D95NC560988 **End :** 4S9DT2D92NC560966 **Not sequential**

**Description of Defect :**

Description of the Defect : Weldon, a division of Akron Brass Company, produces Node, an electrical multiplex module, under both a private label to a single customer as well as to multiple OEMs for installation in emergency vehicles. In the affected products, the Node contains a termination resistor installed on the node circuit board instead of the termination resistor being installed only within the electrical harness. If the vehicle network design has not accounted for this additional resistor, it may reduce the bus resistance below the defined tolerance levels and may lead to a loss of data on the CAN network. Installations with multiple nodes are more likely to experience the condition.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the bus resistance is reduced, the CAN network connection could fail which may interrupt the transfer of data on this connection. If the CAN network connection is interrupted or fails and depending on how the vehicle's electrical systems are designed, it may impact the operation of various electrical loads controlled by the Node, including vehicle lighting, which may increase the risk of a crash.

Description of the Cause : Due to a bill of material error, a resistor was installed in error on the printed circuit board.

Identification of Any Warning that can Occur : None.

**Involved Components :**

Component Name 1 : V-mux Hercules HC Node 1.5

Component Description : Multiplex Input / Output Node for Weldon V-mux compatible systems

Component Part Number : 6060-1000-00

**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 22E-037 for Weldon's chronology.

On April 29, 2022, Weldon was contacted by an OEM that described an issue with the CAN connection when installing the Node. Weldon was able to isolate the issue to the inclusion of the additional termination resistor on the circuit board. Weldon stopped the shipment of additional units. On May 2, 2022, Weldon reviewed the technical details affecting the Node to confirm the issue, considered whether the same issue impacts any similar products and decided to conduct a safety recall. On May 3, 2022, Weldon determined a recent shipment of a variation of the Node sold under a private label and to a single customer was also impacted. Weldon confirmed with the customer these units had never been installed in a vehicle and remained in the customer's inventory. Weldon secured all of the affected products from the customer's inventory and on May 4, 2022 reworked those units to remove the additional resistor.

On May 16, 2022, Spartan Fire received communication from Weldon about recall 22E-037 for their V-mux Hercules HC Node 1.5. Determined the potential population. Escalated the issue to REV Group Management. May 20, 2022 – REV's senior leadership approved a voluntary recall for this issue.

## Description of Remedy :

**Description of Remedy Program :** Weldon will notify affected customers and ask them to return any affected product that remains in their inventory to Weldon to be reworked. Spartan will notify vehicle purchasers and Weldon will provide replacement units and reimburse for labor costs. The affected product sold under the private label have already been remedied. If any vehicles were already remedied it would be covered under the normal warranty process.

**How Remedy Component Differs from Recalled Component :** The remedy component will have the additional termination resistor removed from the circuit board.

**Identify How/When Recall Condition was Corrected in Production :** Existing inventory at Weldon was isolated and shipments placed on hold on 4/29/2022, the same day the potential issue was first reported to Weldon. Any affected product in Weldon's inventory will be reworked and a new part number issued.

## Recall Schedule :

**Description of Recall Schedule :** Spartan to begin dealer notifications by week of June 20, 2022 and owner notifications a week later.

**Planned Dealer Notification Date :** JUN 20, 2022 - JUN 24, 2022

**Planned Owner Notification Date :** JUN 27, 2022 - JUL 01, 2022

\* NR - Not Reported