

Part 573 Safety Recall Report

22V-596

Manufacturer Name : Pierce Manufacturing**Submission Date :** SEP 20, 2022**NHTSA Recall No. :** 22V-596**Manufacturer Recall No. :** 74B320**Manufacturer Information :**

Manufacturer Name : Pierce Manufacturing

Address : 2600 American Drive
P.O. BOX 2017 Appleton WI
54912-2017

Company phone : 920-832-3000

Population :

Number of potentially involved : 8

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2022 Pierce Commercial Chassis M2-106, M2-112, F550

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : This recall is based upon information supplied by Weldon Division of Akron Brass involving VMUX Hercules Node 1.5. Their recall is TSB 22-001 with NHTSA recall No. 22E-037.

Production Dates : APR 04, 2022 - MAY 10, 2022

VIN Range 1 : Begin : NR End : NR

 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 : Based on information supplied by Weldon, 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 and the number of Nodes installed in the vehicle, it may impact the operation of

various electrical loads controlled by the Node, including vehicle lighting, which may increase the risk of a crash. In the Pierce vehicles, while there is only a single Node, the data that is transferred through the Node may impact the performance of rear vehicle lighting, potentially increasing the risk of a crash.

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

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

Address : 3656 Paragon Drive
Columbus Ohio 43288

Country : United States

Chronology :

On May 6, 2022 Pierce received communication from Weldon about recall 22E-037 for VMUX controllers they supplied. Throughout the month of May into late June, Pierce initiated an investigation of the issue described by Weldon and quarantined all impacted vehicles that were within Pierce's facilities. Pierce continued its investigation of the issue to understand whether there were other vehicles built with the subject Weldon controllers and to understand the impact to a Pierce vehicle if the controller should experience a failure. This included a review of the specific wiring and programming of the controller into the Pierce vehicles. On June 2, 2022, NHTSA contacted Pierce about the Weldon recall and Pierce informed the agency that its investigation remained ongoing, but it appeared that Pierce would be submitting a recall. Pierce's review of the programming of the controller continued, and it appeared that due to the programming, should the controller fail, it would not have an impact on the vehicle lighting. Thereafter, based on additional information and review of the controller programming, it was found that even though the controller installed in the Pierce vehicles contain only one Node, there remained a remote possibility that lighting installed at the rear of the

vehicle could be impacted. On August 4, 2022, Pierce decided to conduct a recall of vehicles in the field that have the affected Weldon controllers installed.

Description of Remedy :

Description of Remedy Program : Pierce 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.

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 : Per Weldon's report, 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. Pierce will address the remaining 8 trucks in the field in accordance with the remedy identified above.

Recall Schedule :

Description of Recall Schedule : Notifications to customers will be made via a customer letter. The 577 customer letter will be mailed pending NHTSA approval.

Planned Dealer Notification Date : OCT 04, 2022 - OCT 04, 2022

Planned Owner Notification Date : OCT 04, 2022 - OCT 04, 2022

* NR - Not Reported