Part 573 Safety Recall Report

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

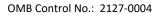
Vehicle Information :

Vehicle 1:	2022-2022 Pierce Commercial	Chassis M2-106, M2-112, F550	
Vehicle Type :	BUSES, MEDIUM & HEAVY VEH	IICLES	
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

Population :

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			
The information contained in this report was submitted pursuant to 49 CFR §573				



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Number of potentially involved :

Estimated percentage with defect : 100 %

	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 1.5Component Description :Multiplex Input / Output Node for Weldon V-Mux Compatible SystemsComponent 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

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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.
	The remedy component will have the additional termination resistor removed from the circuit board.
	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.

-	customer letter will be mailed pending NHTSA approva
Planned Dealer Notification Date :	OCT 04, 2022 - OCT 04, 2022
Planned Owner Notification Date :	OCT 04, 2022 - OCT 04, 2022

* NR - Not Reported

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