

Part 573 Safety Recall Report

23V-096

Manufacturer Name : Pierce Manufacturing**Submission Date :** FEB 17, 2023**NHTSA Recall No. :** 23V-096**Manufacturer Recall No. :** 74B326**Manufacturer Information :****Population :****Manufacturer Name :** Pierce Manufacturing**Number of potentially involved :** 64**Address :** 2600 American Drive
P.O. BOX 2017 Appleton WI
54912-2017**Estimated percentage with defect :** 100 %**Company phone :** 920-832-3000**Vehicle Information :****Vehicle 1 :** 2018-2023 Pierce Velocity, Impel, Enforcer, Arrow XT**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES**Body Style :** ALL**Power Train :** DIESEL**Descriptive Information :** Pierce 110 Foot aerial trucks manufactured between the above listed dates. The recall includes all 110 foot aerial trucks that use the same hinge peg and mounting bracket design.**Production Dates :** AUG 14, 2018 - JAN 25, 2023**VIN Range 1 : Begin :** NR**End :** NR☐ Not sequential**Description of Defect :**

Description of the Defect : If the 110 Foot aerial ladder is elevated to its maximum angle of 77 degrees, there is a lack of sufficient clearance between the basket handrail hinge peg and the platform mounting bracket to which it is secured. Insufficient clearance could allow the basket handrail hinge peg to make contact with the mounting bracket. Over time and with repetitive contact, the hinge peg could fracture and eventually fail, increasing the risk of the basket handrail becoming unsecured. When the aerial platform is elevated below the maximum angle, there is sufficient clearance, and the condition does not occur.

FMVSS 1 : NR**FMVSS 2 :** NR

Description of the Safety Risk : If the hinge peg cracks and eventually fails, this could allow the basket handrail to unexpectedly detach from the basket, increasing the risk of injury to first responders using the handrail or to individuals on the ground in the vicinity of the vehicle.

Description of the Cause : An improperly designed platform mounting bracket does not permit the necessary clearance.

Identification of Any Warning that can Occur : There is no known warning.

Involved Components :

Component Name 1 : Platform handrail hinge peg

Component Description : Permits the rotation of the platform handrail around the platform handrail mounting bracket

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

JAN 16, 2023 – Pierce was notified of a failure of the platform handrail hinge peg where the handrail detached and fell to the ground. No injuries were reported. This is the only known report related to this issue. Over the next two weeks Pierce quarantined trucks in its production facilities and quality / engineering / manufacturing resources are involved to begin the assessment of failure mode and root cause. Pierce's investigation determined that when the aerial platform is elevated to its maximum angle, there is insufficient clearance between the basket handrail hinge peg and the platform mounting bracket.

FEB 10, 2023 – Pierce determines to file a 573 with NHTSA.

Description of Remedy :

Description of Remedy Program : Pierce will provide new basket handrail hinge pegs to affected owners at no charge. Pierce dealers will remove the recalled basket handrail hinge peg and install the remedy component.

How Remedy Component Differs from Recalled Component : The remedied basket handrail hinge peg is an improved design. It includes a relief machined into it which provides additional space to allow for the necessary clearance to the basket mounting bracket when the aerial

Identify How/When Recall Condition was Corrected in Production :	platform is extended to its maximum angle. Beginning February 2023 on finished 110 foot aerial trucks at Pierce, the platform handrail hinge plate mounting bracket was ground so there is the necessary clearance between it and the hinge peg when the aerial is at full elevation. All future production 100 foot aerial trucks will incorporate a handrail hinge peg mounting bracket incorporating dimensional changes. These dimensional changes will permit the necessary clearance so that the platform handrail hinge peg will not contact the platform mounting bracket when the aerial is at full elevation.
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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 :	APR 10, 2023 - APR 10, 2023
Planned Owner Notification Date :	APR 10, 2023 - APR 10, 2023

* NR - Not Reported