

Part 573 Safety Recall Report

22E-008

Manufacturer Name : Intermotive**Submission Date :** FEB 14, 2022**NHTSA Recall No. :** 22E-008**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Intermotive

Address : 12840 Earhart Ave

Auburn CA 95602

Company phone : 8231048

Population :

Number of potentially involved : 502

Estimated percentage with defect : NR

Equipment Information :

Brand / Trade 1 : Intermotive

Model : PRPC

Part No. : S-M1521-xx

Size : NR

Function : Power Managemen

Descriptive Information : The time frame of the four failures reported by Forest River were modules that were installed from 6/14/2021 - 8/30/2021. After analysis by Intermotive Engineering, it was determined that if two specific conditions occur (mask mis-registration and contamination are present) dendritic growth could occur and short the power and ground plains. Both Forest River and Intermotive removed all assemblies with the suspect date code (0919) by 12/31/2021. The four defects were found prior to any busses being put in service and are considered infant mortality. Forest River Identified 1762 buses built in the time frame from 06/01/2021-01/18/2022 . While zero defects have occurred from PRPC's shipped to other customers, it was decided that we recall the PRPC's shipped in this time frame and provide the solution to prevent the defect from occurring. Intermotive has identified 453 units shipped within this time frame and could potentially have the suspect PCB date code

Production Dates : JUN 01, 2021 - JAN 18, 2022

Description of Defect :

Description of the Defect : Intermotive has determined that a small percentage of date code 0919 pcbs used for the PRPC had mask mis-registration causing exposed copper. Lab analysis showed the evidence of dendritic growth which caused the short between the power and ground planes. The failure happened after installation and prior to the busses being put into service. All four were infant mortality.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The power to ground short causes excessive heating and the potential for combustion. All components are appropriately spec'd to UL 94v0 flammability rating so the chance for combustion prior to the short opening up is extremely small.

Description of the Cause : Dendritic growth occurred between the power and ground planes causing thermal destruction of the module.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name : PRPC

Component Description : Programable Relay Power Center

Component Part Number : S-M1521-xx

Supplier Identification :

Component Manufacturer

Name : Intermotive

Address : 12840 Earhart Ave
Auburn California 95602

Country : United States

Chronology :

Forest River notified Intermotive of the first failures on 10/27/2021, 11/23/2021, 11/30/221 and 127/2021.

Description of Remedy :

Description of Remedy Program : Intermotive will provide all parts and labor free of charge to customers who identify assemblies with date code 0919. Customers can contact Intermotive Warranty at 530-823-1048 xt 103. Warranty will immediately send out a replacement harness for the repair and offer the necessary technical support during installation

How Remedy Component Differs from Recalled Component : The remedy is adding a fused data link harness that will prevent the thermal event from occurring.

Identify How/When Recall Condition was Corrected in Production : All remaining assemblies with date code 0919 have been removed from the supply chain. Additional high magnification inspection requirements are now in place for pcb's to identify any exposed copper from the PCB vendors

Recall Schedule :

Description of Recall Schedule : Intermotive has the utmost urgency to resolve this recall quickly and efficiently. Intermotive will send a suspected serial number list to our customers once a formal NHTSA id is provided.

Planned Dealer Notification Date : MAR 07, 2022 - MAR 07, 2022

Planned Owner Notification Date : MAR 07, 2022 - MAR 07, 2022

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR

Address : NR

NR

Country : NR

Company Phone : NR

* NR - Not Reported