

Part 573 Safety Recall Report

23E-015

Manufacturer Name : Bendix Commercial Vehicle Systems, LLC

Submission Date : MAY 03, 2023

NHTSA Recall No. : 23E-015

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Bendix Commercial Vehicle Systems, LLC

Address : 35500 Chester Rd

Avon OH 44011

Company phone : 440-329-9000

Population :

Number of potentially involved : 861

Estimated percentage with defect : 2 %

Equipment Information :

Brand / Trade 1 : Intellipark PMV

Model : Towing Variant

Part No. : K206667R000

Size : NR

Function : Park Brake

Descriptive Information : The recall population is the entire production of the Intellipark Towing Park Brake Module (PVM). The Towing PVM differs from the Non-towing PVM in that it has two channels to control the tractor and the trailer park brakes. The Non-towing PMV has only one channel to control the park brakes as typical on a truck or bus. The Non-towing PMV does not contain the defect.

Production Dates : FEB 01, 2019 - FEB 06, 2022

Description of Defect :

Description of the Defect : The Intellipark Tractor Park Valve Module (PVM) may intermittently become stuck in the un-parked position and may not transition from un-parked to parked when the Park Switch is pulled on the vehicle dash board.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : An Intellipark PVM that intermittently becomes stuck in the un-parked position does not allow the vehicle spring brakes to exhaust when the driver pulls the Park Switch. The vehicle must be parked by depleting air storage by fanning-down the air brake system with the service brake pedal. If a driver does detect the Intellipark PVM malfunction indications and does not properly fan down the brakes, the vehicle may unintentionally move which increases the likelihood of a crash.

Description of the Cause : Mechanical components in the PVM that are at the upper limit of the design

Identification of Any Warning that can Occur :

specification and other tolerance stack-ups allow for excessive internal air leakage. The internal leakage does not allow pressure to build properly when the pilot solenoid is activated.

Park Indication LEDs on the park switch remain off after the Park Switch is pulled indicating that the spring brake system has not exhausted and the vehicle is not parked. Audible exhaust sounds that typically are hear as an air-braked vehicle is park will not be hear indicating that the vehicle has not parked. The vehicle manufactures have implemented dash displays indications and alerts indicating that the vehicle has not parked in response to pulling the Park Switch.

Involved Components :

Component Name : Bendix Intellipark PVM assembly

Component Description : Interior dimensions not as expected

Component Part Number : Bendix Intellipark assembly

Supplier Identification :

Component Manufacturer

Name : Bendix Comercial Vehicle Systems

Address : 35500 Chester Rd
Avon Ohio 44011

Country : United States

Chronology :

7/28/22 Customer N observation of vehicle intermittently not parking after vehicle dyno testing and other environmental testing. Discussed in joint engineering meetings. Environmental, testing, component and application factors are evaluated.

11/3/22 Customer L reported a vehicle intermittently not parking (approx. 1 - 40 attempts). Data logging traces confirmed observation. PVM and other parts removed from vehicle but engineering not able to recreate in lab environmental tests. Continue to investigate possible application, component or system interactions.

11/30/22 Customer N on-vehicle observation of intermittent non-parking. PVM received and engineering is able to reproduce the issue with this component.

12/13/22-1/25/23 2 additional customer observations. Engineering able to reproduce intermittent malfunction but not able to define manufacturing defect or design issue.

1/13/23 - Bendix Product Integrity Committee (PIC) opens a Risk Assessment to evaluate potential vehicle safty risks including warning, trailer park brake operation, environmental factors.

2/7/23 - Bendix PIC determines that a safety defect exists.

Description of Remedy :

Description of Remedy Program : The defect remedy program includes removing and replacing the Intellipark PVM and replacing it with a PVM without the defect. The PVM assembly is replaced as a whole unit and is not opened or serviced in the field. Bendix will provide the remedy PVM to the vehicle manufacturer. The vehicle manufactures will contact the vehicle owners. The remedy will be provided at no cost to the vehicle owner or vehicle manufacturer. Bendix will reimburse PACCAR for repairs under the general reimbursement plan or a recall specific plan if necessary. Replace time is estimated at two hours though this depends on specific component locations on the vehicle.

How Remedy Component Differs from Recalled Component : The remedy components include improved dimensional controls and O-ring squeeze which eliminates the potential internal leak. The recalled components do not contain these improvements. The remedy component is identified by an updated part label and green marking visible on the exterior of the part to avoid confusion.

Identify How/When Recall Condition was Corrected in Production : Production of the Tractor PVM has stopped once the defect was detected. Production resumed only after the internal components were improved to include improved dimensional controls and O-ring squeeze which eliminates the potential internal leak.

Recall Schedule :

Description of Recall Schedule : All Customers will be notified in writing on or before the notification End Date.

Planned Dealer Notification Date : APR 10, 2023 - APR 10, 2023

Planned Owner Notification Date : APR 27, 2023 - APR 28, 2023

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 : Tesla Motors
Address : 3500 Deer Creek Rd
Palo Alto CA 94394
Country : US
Company Phone : 8777983752

Name : Nikola Corporation
Address : 4141 E Broadway Rd
Pheonix AZ 85040
Country : US
Company Phone : NR

Name : Navistar
Address : 2701 Navistar Dr
Lisle IL 60532
Country : US
Company Phone : 331 322 5684

Name : Paccar
Address : 10630 NE 38th PL
Kirkland WA 98033
Country : US
Company Phone : 4258285201

* NR - Not Reported