

Part 573 Safety Recall Report

24E-086

Manufacturer Name : Bendix Commercial Vehicle Systems, LLC

Submission Date : OCT 23, 2024

NHTSA Recall No. : 24E-086

Manufacturer Recall No. : NR



Manufacturer Information :

Population :

Manufacturer Name : Bendix Commercial Vehicle Systems, LLC

Number of potentially involved : 445,208

Address : 35500 Chester Rd

Estimated percentage with defect : 100 %

Avon OH 44011

Company phone : 440-329-9000

Equipment Information :

Brand / Trade 1 : Bendix EC80

Model : Advanced with ESP

Part No. : K168135

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - FEB 01, 2021

Brand / Trade 2 : Bendix

Model : EC80 Premium with ATC

Part No. : K163400

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : SEP 01, 2019 - OCT 11, 2024

Brand / Trade 3 : Bendix

Model : EC80 Premium with ATC

Part No. : K168122

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - OCT 02, 2024

Brand / Trade 4 : Bendix

Model : EC80 Premium with ATC

Part No. : K168123

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - OCT 11, 2024

Brand / Trade 5 : Bendix

Model : EC80 Premium with ATC

Part No. : K168128

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - OCT 11, 2024

Brand / Trade 6 : Bendix

Model : EC80 Premium with ATC

Part No. : K168129

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - OCT 11, 2024

Brand / Trade 7 : Bendix

Model : EC80 Premium with ATC

Part No. : K179860

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : MAY 01, 2019 - OCT 11, 2024

Brand / Trade 8 : Bendix

Model : EC80 Premium with ESP

Part No. : K203871

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2021 - OCT 11, 2024

Brand / Trade 9 : Bendix

Model : EC80 Premium with ATC

Part No. : K220313

Size : NR

Function : ABS

Descriptive Information : EC80 Premium Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JAN 01, 2022 -JUL 01, 2022

Brand / Trade 10 : Bendix

Model : EC80 Advanced with ESP

Part No. : K163402

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JUN 01, 2024 -OCT 11, 2024

Brand / Trade 11 : Bendix

Model : EC80 Advanced with ESP

Part No. : K168124

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 -FEB 01, 2021

Brand / Trade 12 : Bendix

Model : EC80 Advanced with ESP

Part No. : K168136

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : APR 01, 2020 - FEB 01, 2021

Brand / Trade 13 : Bendix

Model : EC80 Advanced with ESP

Part No. : K210927

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : SEP 01, 2020 - MAR 01, 2023

Brand / Trade 14 : Bendix

Model : EC80 Advanced with ESP

Part No. : K210928

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : SEP 01, 2020 - MAR 01, 2023

Brand / Trade 15 : Bendix

Model : EC80 Advanced with ESP

Part No. : K210929

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : SEP 01, 2020 - MAR 01, 2023

Brand / Trade 16 : Bendix

Model : EC80 Advanced with ESP

Part No. : K219871

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JAN 01, 2023 - JUL 01, 2023

Brand / Trade 17 : Bendix

Model : EC80 Advanced with ESP

Part No. : K219872

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JUN 01, 2023 - SEP 01, 2024

Brand / Trade 18 : Bendix

Model : EC80 Advanced with ESP

Part No. : K219874

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : AUG 01, 2023 - AUG 01, 2024

Brand / Trade 19 : Bendix

Model : EC80 Advanced with ESP

Part No. : K219872

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JAN 01, 2023 - NOV 01, 2023

Brand / Trade 20 : Bendix

Model : EC80 Advanced with ESP

Part No. : K219874

Size : NR

Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : JAN 01, 2023 - JUL 07, 2023

Brand / Trade 21 : Bendix
Model : EC80 Advanced with ESP
Part No. : K220316
Size : NR
Function : ABS

Descriptive Information : EC80 Advanced Electronic Control Units (ECU) installed in towing vehicles are included in the recall population. Only tractors or trucks that pull trailers and that communicate over the Power Line Carrier (PLC) network are affected. Vehicle which do not pull trailers that communicate over the PLC network are not affected.

Production Dates : MAR 01, 2023 - JUN 01, 2024

Description of Defect :

Description of the Defect : EC80 is an electronic control unit mounted on a towing vehicle. It is a component of an antilock braking system. Power Line Carrier (PLC) is a trailer to tractor communication system that sends a signal on the electrical connection between the tractor and trailer. PLC purpose is to control the cab mounted trailer-ABS indicator lamp in the towing vehicle.

In the presence of high electrical interference (i.e. noise) on the vehicle power line and low PLC signal strength, the EC80 PLC functionality may incorrectly process certain signals. The EC80 may set a fault or stop operating or malfunction.

The combination of high electrical interference and low PLC signal strength is more likely on vehicles that tow more than one trailer than vehicles that tow only one trailer.

The PLC signal strength may be substantially reduced when other optional devices are connected to the power line. These optional devices include trailer-based tracking systems.

Vehicles with low noise levels and high signal strength may never exhibit the vehicle effects.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The ABS, Automatic Traction Control (ATC), or Electronic Stability Control (ESC) may set an ABS fault or may stop operating. Other functions which strongly interact with ABS such as Active Cruise Control (ACC) and Collision Mitigation System (CMS) may also fault. In extremely rare situations before the system faults or stops operating, if there is a stability event or an automated braking request, the system may respond incorrectly to the event.

Description of the Cause : This can increase the likelihood of a crash
NR

Identification of Any Warning that can Occur : The ABS warning lamp will be illuminated when an ABS fault is detected or when the ABS stops operating.

Involved Components :

Component Name : Bendix EC80 software

Component Description : PLC function

Component Part Number : n/a

Supplier Identification :

Component Manufacturer

Name : Bendix Comercial Vehicle Systems LLC

Address : 35500 Chester Rd
Avon Ohio 44011

Country : United States

Chronology :

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Description of Remedy :

Description of Remedy Program : Bendix will offer a remedy to customers at no cost. The remedy will include reprogramming the EC80 ECU with software that does not include the defect. The reprogramming process will be coordinated with the vehicle manufacturers. Vehicle manufacturers will report on completion of the recall.

How Remedy Component Differs from Recalled Component : The remedy software does not contain the defective PLC functionality. A unique software ID number(s) has been assigned to remedy versions of the software.

Identify How/When Recall Condition was Corrected in Production : Production of EC80 electronic control units with the defective software was stopped in early October 2024. No further shipments were made to vehicle manufacturers. Production of EC80 electronic control units resumed with the remedy software in mid October.

Recall Schedule :

Description of Recall Schedule : Notifications to vehicle manufacturers will be made on or before 12/01/2024 by email and USPS or similar delivery.
Planned Dealer Notification Date : DEC 01, 2024 - DEC 01, 2024
Planned Owner Notification Date : DEC 01, 2024 - DEC 01, 2024

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 : Volvo Trucks North America
Address : 7900 National Service Rd
Greensboro NC 27409-9416
Country : US
Company Phone : 3015735972

Name : Navistar
Address : 2701 Navistar Dr
Lisle IL 60532
Country : US
Company Phone : 3313321590

* NR - Not Reported