Part 573 Safety Recall Report 24V-915

Manufacturer Name : PACCAR Incorporated
Submission Date : DEC 09, 2024
NHTSA Recall No. : 24V-915
Manufacturer Recall No. : 24KWL 24PBL

Manufacturer Information :

Manufacturer Name : PACCAR Incorporated
Address : 777 106TH AVENUE NORTHEAST
BELLEVUE WA 98004
Company phone : 940 591 4220

Population :

Number of potentially involved : 220,972
Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2023-2025 Kenworth T280
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates : APR 22, 2022 - AUG 14, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2021-2025 Kenworth T380
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates : JUL 02, 2020 - NOV 22, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 : 2022-2025 Kenworth T480
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates : APR 12, 2021 - NOV 28, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 4 : 2024-2025 Kenworth C500B
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.

Production Dates : OCT 05, 2022 - SEP 09, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 5 : 2022-2023 Kenworth T370
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.

Production Dates : JAN 18, 2021 - MAY 27, 2022
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 6 : 2021-2023 Kenworth T4 Series
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.

Production Dates : NOV 24, 2020 - MAY 12, 2022
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 7 : 2021-2025 Kenworth T680
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL
Descriptive Information : Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.

Production Dates : MAY 22, 2020 - DEC 03, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 8 :	2021-2025 Kenworth T800B
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	SEP 02, 2020 - DEC 03, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 9 :	2021-2025 Kenworth T880
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	MAY 22, 2020 - DEC 04, 2023
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 10 :	2021-2025 Kenworth W900B
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	SEP 08, 2020 - DEC 03, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 11 :	2021-2025 Kenworth W990
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	MAY 22, 2020 - DEC 03, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 12 :	2021-2023 Peterbilt 337
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	OCT 26, 2020 - MAY 03, 2022
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 13 :	2021-2023 Peterbilt 348
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	SEP 09, 2020 - MAY 11, 2022
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 14 :	2022-2025 Peterbilt 365
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	FEB 23, 2021 - DEC 11, 2023
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 15 :	2022-2025 Peterbilt 367
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	JAN 18, 2021 - DEC 18, 2023
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 16 :	2021-2025 Peterbilt 389
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	APR 07, 2020 - DEC 19, 2023
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 17 :	2022-2025 Peterbilt 520
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	NOV 09, 2021 - DEC 03, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 18 :	2024-2025 Peterbilt 536
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	AUG 11, 2023 - NOV 13, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 19 :	2023-2025 Peterbilt 537
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	JAN 04, 2022 - NOV 25, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 20 :	2021-2025 Peterbilt 548
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	AUG 19, 2020 - NOV 26, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 21 :	2021-2025 Peterbilt 567
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	APR 06, 2020 - DEC 04, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 22 :	2021-2025 Peterbilt 579
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	APR 06, 2020 - DEC 04, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 23 :	2024-2025 Peterbilt 589
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	OTHER
Power Train :	DIESEL
Descriptive Information :	Vehicles built with EC-80 part numbers as provided by Bendix, and configured to pull a trailer.
Production Dates :	APR 19, 2023 - DEC 04, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	According to Bendix in its recall 24E-086, 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 :	According to Bendix in its recall 24E-086, 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 Cruse 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. This may increase the likelihood of a crash.
Description of the Cause :	Incorrect processing of PLC messages that lead to ECU offline and memory overwrite effects; incorrect message string length that causes overflow of memory buffers set up to receive messages.
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 1 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1032-301

Component Name 2 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1033-301

Component Name 3 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1032-302

Component Name 4 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1033-303

Component Name 5 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1040-301

Component Name 6 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-1041-301

Component Name 7 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-6101-301

Component Name 8 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-6102-301

Component Name 9 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-6106-301

Component Name 10 :	Bendix EC80
Component Description :	MODULE - ELECTRIC, BENDIX, ABS
Component Part Number :	Q27-6107-301

Supplier Identification :

Component Manufacturer

Name :	Bendix Commercial Vehicle Systems LLC
Address :	35500 Chester Rd Avon Ohio 44011
Country :	United States

Chronology :

10-28-24: Safety and compliance notified by Bendix. Investigation opened.

11-12-24: Bendix comments that CAN analysis does not support conclusion that PACCAR impacted by same EC-80 software defect as found in other truck manufacturers

11-15-24: Vehicles in field identified for potential Bendix testing to document CAN behavior relevant to EC-80.

11-21-24: PACCAR Safety and Compliance informed that Bendix is amending its 573 to include PACCAR vehicles.

12-02-24: Safety committee meeting held. Concurrence that a safety defect exists.

As of 12-02-24, PACCAR received 2505 warranty claims and 0 reports about 0 trucks in the field that may be related between March 2021 and December 2024. 0 reports of deaths or injuries have been received.

Description of Remedy :

Description of Remedy Program :	Affected vehicle owners will be notified and dealers will reprogram the EC80 ECU with software that does not include the defect free of charge. Owners who incurred costs to obtain a remedy for the problem addressed by the recall in advance of receiving notification may seek reimbursement through the process outlined in the general reimbursement plan on file.
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 :	E80 ECUs were reprogrammed with software that does not include the defect beginning 12/2/2024. Future ECUs will be provided by Bendix with software that does not include the defect for trucks schedule 12/4/2024.

Recall Schedule :

Description of Recall Schedule :	Customers and dealers will be notified within 60 days.
Planned Dealer Notification Date :	FEB 07, 2025 - FEB 07, 2025
Planned Owner Notification Date :	FEB 07, 2025 - FEB 07, 2025

* NR - Not Reported