

Safety Recall 24PBL - Bendix EC80 ABS ECU Incorrect Signal Processing

Number

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24PBL / NHTSA # 24V915 / Transport Canada # 2024-744

Supplier

Bendix

Description

Safety Recall 24PBL - Bendix EC80 ABS ECU Incorrect Signal Processing

Date

1/10/2025

What's New

Safety Recall

Updated software and procedures are now available.

Certain Vehicle Model Year 2021-2025 Peterbilt chassis configured for trailer towing require a software update for the Bendix EC80 ABS ECU.

Software update procedures for certain Battery-Electric Vehicles (BEV) and EC80 ABS ECU part numbers are not yet available.

This bulletin will be updated when software update procedures are available for these chassis.

Safety Recall publish date: 1/10/25

Introduction

Certain Model Year 2021-2025 Peterbilt chassis require a software update for the Bendix EC80 ABS ECU.

Electronic noise and/or low signal strength on the Power Line Carrier (PLC) signal from a trailer to the EC80 ABS ECU could cause the ABS system to incorrectly process certain signals. This can lead to the EC80 setting faults, malfunctioning, or not operating. ABS faults could affect the operation of other

ABS-connected systems such as Automatic Traction Control, Electronic Stability Control, Active Cruise Control, and/or Collision Mitigation System. These faults could cause the ABS system to respond incorrectly to a stability or automated braking event, increasing the risk of a crash.

The ABS warning lamp will be illuminated in the event of faults in the ABS system or when the ABS system stops operating.

Safety Recall publish date: 1/10/25

Situation

119,452 (109,082 US and 10,370 CAN) Model Year 2021-2025 337/348/365/367/389/520/536/537/548/567/579/589 chassis built from 04/06/2020 through 12/06/2024 equipped with Bendix EC80 ABS ECU with Power Line Carrier (PLC) trailer communication functionality.

Resolution

Safety Recall

Service all chassis affected that enter your dealership, even if the customer has no issue with the chassis.

1. Review the attached chassis list for your dealer code and schedule your customer(s) for service if their chassis is on the list.
2. In Service Management, select Campaign **24PBL** to add it to the case. If the unit is released back into service without performing the repair, make sure to also release the Campaign in Service Management.
3. If you are not using Service Management to start repair orders, review SIR for "Complete" next to the **24PBL** Campaign code prior to performing this repair.

4. Follow the attached procedures to update the EC80 software.

i NOTE

Software update procedures for certain Battery-Electric Vehicles (BEV) and EC80 ABS ECU part numbers are not yet available. This bulletin will be updated when software update procedures are available for these chassis.

Refer to the chassis list for VINs that have the update available.

Federal Law

It is a violation of Federal law for a dealer to sell or lease new vehicles covered by this recall until the defect or noncompliance has been corrected.

Warranty

Starting on **1/10/2025**, there is no time or mileage limit for this recall. Peterbilt will pay for labor:

- **0.3 hours** labor to update EC80 ECU software. Use Recommended Repair **24PBL**.
- For supplemental repairs, file a long form claim and use **24PBL** in the "Campaign Code" field.

- File the claim within 7 days in accordance with warranty policy.

Take-Off Parts Disposition: N/A

PRWS CLAIM CODING			
Campaign Code:	24PBL	Campaign Type:	Safety Recall
Claim Category:	Truck	Repair Type:	Proactive
Customer Concern Code:	010	Causal Code:	A1
Corrective Action Code:	12	Responsibility Code:	SUP
Failure Location:	013-011-076	Causal Part:	Q27-1040-301
Supplier Code:	01674AA	SRT Code:	B24-55A 0.3 hours Update EC80 ABS ECU Software per bulletin procedure 24PBL.

Procedure

Please follow your dealership's safety procedures and precautions to ensure the vehicle can be safely repaired and maintained.

Read all steps before beginning.

i NOTE

Installation of the EC80 Update Tool is only required *ONCE per computer used* for this software update.

Additional software must be downloaded and installed to the technician laptop to perform this update.

Contact your IT department for instructions on installing software on your computer.

See appropriate repair procedure in Links section.

Parts

Software Only - No parts required.

Links

[24PBL Repair Procedures - Diesel](#)

[24PBL Repair Procedure - BEV2](#)

[EC80 Update Tool - ID 9363](#)

[24PBL Chassis List](#)

FINAL CUSTOMER LETTERS

[24PBL - FINAL US Customer Letter](#)

[24PBL - FINAL Canadian Customer Letter](#)

[24PBL - FINAL Canadian Customer Letter - French](#)

[24PBL - FINAL Puerto Rico Customer Letter - Spanish](#)

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