

46-003: 579EV and 520EV Battery-Electric Vehicle R5 Software System Operation Impact

10/31/2023

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46-003

579EV and 520EV Battery-Electric Vehicle R5 Software System Operation Impact

Subject

579EV and 520EV Battery-Electric Vehicle R5 Software System Operation Impact

Whats New Abstract

A software fix for model 520EV that are not equipped with ESP (Stability Control) is now available. The currently available software, part number: SCM_1p5_BC_R5p00_003, will address issues caused by software version R5.00_002 that affect Peterbilt Model 520EV. The software update will correct the following issues: 1.) Power gauge displays axle RPM instead of power draw, 2.) Air conditioning compressor is inoperative below 10 mph (16 kph) and over 40 mph (65 kph), 3.) Low air and low coolant audible alarms (buzzers) are inoperative below 10 mph (16 kph), and 4.) **(520EV Only)** Does not charge without ignition in on position,

This fix only applies to model 520EV that are not equipped with ESP (Stability Control).

Software update is not currently available for 520EV that are equipped with ESP.

Revision

10/31/23 – Bulletin updated to inform dealers that software fix is now available for Peterbilt model 520EV that are not equipped with ESP. 520EV specific failure mode added to Introduction section (#4) **(520EV Only)** Does not charge without ignition in on position. Updated warranty section to include quick claim for 520EV software update. Added 520EV chassis population to Chassis Affected section. Campaign expiration date updated from 08/01/24 to 11/01/24

08/01/23 – Bulletin has been updated to inform dealers that a fix is available to correct issues caused by the BEV2 R5.00_002 update related to safety recall 23PBA. Repair procedures and warranty claim instructions have been added. Repairs for model 520EV will be available at a future date.

Condition



NOTE

There is currently a repair procedure available for model 579EV **and** 520EV that will address issues caused by the previous BEV2 R5.00_002 software update shown below.

For 579EV only -This repair involves replacement of the Bendix ABS ECU with an updated version and a software update to R5.00_003.

Bendix ABS control unit replacement is not necessary for 520EV that are not equipped with ESP.

520EV without ESP will only receive a software update to R5.00_003 – (software part number: SCM_1p5_BC_R5p00_003.)

Software update is not currently available for 520EV that are equipped with ESP (Stability Control).

With Battery-Electric vehicle software R5.00_002, the vehicle may experience the following issues:

1. The power gauge displays axle RPM instead of power draw. This is not an accurate representation of power draw and could lead to incorrect

estimations of power usage.

- All other gauges will continue to operate normally.



2. Air conditioning compressor is inoperative below 10 mph (16 kph) and over 40 mph (65 kph)

- The HVAC blower, heater, and defroster will operate normally to keep the windshield clear.

3. Low air and low coolant audible alarms (buzzers) are inoperative below 10 mph (16 kph).

- Visual low air and low coolant warnings will operate normally to warn the driver of low air pressure and low coolant levels.

4. **(520EV Only)** Does not charge without ignition in on position.

Chassis Affected


44 – Model Year 2022 and 2023 **579EV** Battery-Electric Vehicles with Meritor Drive axles and R5.00_002 software.

13 – (13 US and 0 Canada) Model Year 2021 – 2024 **520EV** Battery-Electric Vehicles not equipped with ESP (Stability Control), with Meritor Drive axles, and R5.00_002 software

Action


Campaign

1. Service all chassis affected that enter your dealership, even if the customer has no issue with the chassis. This campaign can be performed at any time convenient for the customer (for example: during next scheduled maintenance interval).
2. Review the attached chassis list for your dealer code and schedule your customer(s) for service if their chassis is on the list. Review SIR for “Complete” next to the **46003** campaign code prior to performing this repair.
3. Follow the repair procedures in the Procedures section below.

 NOTE
<p>You must have EV Meritor Blue Horizon Diagnostic Software to perform necessary updates.</p> <p>If you do not currently have this software, it can be purchased at the following link: https://meritor.snapon.com/Shopping/Catalog.aspx</p>

Warranty

For repairs completed by **11/01/2024**, Peterbilt will pay for parts at dealer net plus applicable mark-up and labor.

 NOTE
An update to the 579EV repair procedures implemented on 08/01/2023 has resulted in changes to standard repair times.

FOR 579EV REPAIRS PERFORMED BEFORE 08/01/2023:

- **0.8 hours** to open TCS 365 case, Meritor OnTrac case, update ECU to R5.3, and remove and replace Bendix ABS ECU per previous procedures. Use quick claim code **46003A**. This claim MUST include a Meritor OnTrac claim number. See [Meritor Warranty Requirements](#) for more information.

FOR 579EV REPAIRS PERFORMED ON OR AFTER 08/01/2023:

- **1.5 hours** to open TCS 365 case, Meritor OnTrac case, update ECU to R5.3, and remove, replace Bendix ABS ECU, calibrate yaw rate, lateral acceleration, and steering angle sensors, and perform test drive to verify repair per attached procedures. Use quick claim code **46003B**. This claim MUST include a Meritor OnTrac claim number. See [Meritor Warranty Requirements](#) for more information.

FOR 520EV REPAIRS PERFORMED ON OR AFTER 10/31/23:

- **0.5 hours** to open TCS 365 case, Meritor OnTrac case, and update SCM to R5.00_003 use quick claim code **46003C**. This claim MUST include a

Meritor OnTrac claim number. See Meritor filing requirements Meritor Warranty Claim Instructions for more information.

- For extraordinary circumstances please use code **46003**, add from “Recommended Repairs”, and then select the gear icon to edit Parts/Labor/Misc.
- File a claim in PRWS by selecting the appropriate item under 'Recommended Repairs.
- File the claim within 7 days in accordance with Warranty Policy.

Take-Off Parts Disposition: Scrap take-off parts 30 days after claim is paid.

PRWS CLAIM CODING			
Campaign Code:	46003	Campaign Type:	Field Repair
Claim Category:	Truck	Repair Type:	Proactive
Customer Concern Code:	293	Causal Code:	33
Corrective Action Code:	23	Responsibility Code:	SUPPLIER
Failure Location:	048-001-001	Causal Part:	Q43-6094-001
Supplier Code:	17114EV – Meritor (Software Update Only)	SRT Code:	B46-33B 1.0 hours 579EV ONLY - Remove and replace Bendix ABS ECU, relearn sensors, and test

drive.
*Repairs
 performed
 on or
 after
 08/01/23*

B46-03A
0.5 hours
 Open TCS
 365 case,
 Meritor
 OnTrac
 case, and
 program
 the ECU.

B46-33C
0.3 hours
 579EV
*Only -
 Remove
 and
 replace
 Bendix
 ABS ECU.
 Repairs
 performed
 before
 08/01/23*

Parts

ABS Control Module is only for 579EV. 520EV not equipped with ESP (Stability Control) do not require replacement of this module.

Before ordering from PACCAR Parts, please have the following:

- **Year/Make/Model,**

- **Full VIN**
 - ECU requires programmed PAR file from PACCAR Parts ordered through truck down and it is not returnable.

Quantity	Part Number	Part Description
1	K271852SC000BXW	ABS Control Module (579EV)

Background

There is currently a repair procedure available for models 579EV **AND 520EV** not equipped with ESP (Stability Control) that will address issues caused by the previous BEV2 R5.00_002 software update.

For 579EV ONLY - The repair involves replacement of the Bendix ABS control unit with an updated version and a software update to R5.00_003.

Bendix ABS control unit replacement is not necessary for 520EV not equipped with ESP (Stability Control). 520EV without ESP will only receive a software update to R5.00_003 – (software part number: SCM_1p5_BC_R5p00_003.)

Software update is not currently available for 520EV equipped with ESP (Stability Control).

Procedure

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

There is currently a repair procedure available for models 579EV AND 520EV not equipped with ESP (Stability Control) that will address issues caused by the previous BEV2 R5.00_002 software update shown below.

For 579EV ONLY - The repair involves replacement of the Bendix ABS control unit with an updated version and a software update to R5.00_003.

Bendix ABS control unit replacement is not necessary for 520EV not equipped with ESP (Stability Control). 520EV without ESP will only receive a software update to R5.00_003 – (software part number: SCM_1p5_BC_R5p00_003.)

Software update is not currently available for 520EV equipped with ESP (Stability Control).

See the appropriate Repair Procedures in Links section.

Attachments

[46-003 579EV Repair Procedures](#)

[46-003 520EV Repair Procedures](#)

[46-003 579EV Chassis List](#)

[46-003 520EV Chassis List](#)

[46-003 520EV US Customer Letter](#)

CAMPAIGN LETTER

This notice applies to your vehicle(s): {VIN} {VINs listed on the back of this page}

Subject: Field Repair Notice – 46-003 – Battery-Electric Vehicle R5.3 Software Update
EXPIRATION DATE: **11/01/2024**

Dear Peterbilt Customer,

Peterbilt Motors Company is pleased to inform you that a software update is now available to improve the operation of the BEV power gauge, air conditioner, charging with key in off position, and low air and low coolant audible alarms that were caused by the BEV2 R5.2 software update that was part of Safety Recall 23PBA.

<i>The problem is...</i>	The BEV2 R5.2 software update related to Safety Recall 23PBA caused incorrect operation of the BEV power gauge, air conditioner, inability to charge without key in on position, and low air and low coolant audible alarms.
<i>What your dealer will do...</i>	Perform a software update to correct all issues listed above.
<i>What you must do ...</i>	Please contact your dealer as soon as possible to schedule an appointment.

Peterbilt Motors Company has initiated this notice to remedy these issues at no charge to you. Please contact a Peterbilt dealership to schedule an appointment for this improvement. To find your Peterbilt dealer, please visit the Dealer Locator at www.Peterbilt.com or scan the QR code. When contacting your Peterbilt dealer, refer to campaign **46-003** and the VIN(s) listed in this letter. The work for this improvement will take approximately 1 hour of labor depending on vehicle configuration and dealer scheduling.

If you require further information about this recall or experience any difficulty in making arrangements for this repair, please contact the Peterbilt Customer Experience Department at PB.Tech.Pubs.Dept@paccar.com

If you no longer own this vehicle, we would appreciate your advising us of the new owner if you know their name. Please send all known ownership and address changes to PBDiv.Warranty.Docs@paccar.com.

We apologize for any inconvenience this campaign may cause and thank you for your participation in helping Peterbilt provide the highest levels of customer satisfaction and service expertise. We value your business and appreciate your ongoing loyalty to Peterbilt and its dealer network. Industry-leading quality, performance and reliability are hallmarks of Peterbilt products, and we thank you for making Peterbilt your truck of choice.

Sincerely,



Michelle Ponsonby
Director of Customer Experience
Peterbilt Motors Company

Scan this QR code to open the
Peterbilt Dealer Locator.

