

46-003: T680E and T880E Battery Electric Vehicle - R5 Software Power Gauge Incorrect

8/1/2023

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Subject

T680E and T880E Battery Electric Vehicle - R5 Software Power Gauge Incorrect

Whats New Abstract

There is currently a repair procedure available for T680E and T880E chassis that will address issues caused by the previous BEV2 R5.00_002 software update. This repair involves replacement of the Bendix ABS control module with an updated version and a software update to R5.00_003.

Revision

08/01/2023: 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 23KWA and may include other trucks. Repair procedures and warranty claim instructions have been added.

Condition

There is currently a repair procedure available for T680E and T880E chassis that will address issues caused by the previous BEV2 R5.00_002 software update. This repair involves replacement of the Bendix ABS control module with an updated version and a software update to R5.00_003.

With Battery Electric Vehicle software R5, 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 and over 40 mph. HVAC blower, heater, and defroster will operate normally to keep the windshield clear.
3. Low Air buzzer is inoperative below 10 mph. Visual low air warning will operate normally to warn the driver of low air pressures.

Chassis Affected

38 US - Model Year 2021 - 2024 T680E and T880E chassis built from 10/28/2020 through 02/02/2023 Battery Electric Vehicles with Meritor Drive axles and R5 software.

Action

Campaign

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 **46003** 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

46003 Campaign code prior to performing this repair.

4. Follow the procedures below to update Meritor software and replace the ABS controller.



NOTE

You must have EV Meritor Blue Horizon Diagnostic Software to perform necessary updates.

If you do not currently have this software, it can be purchased at the following link:

<https://meritor.snaon.com/Shopping/Catalog.aspx>

Warranty

For repairs completed by 09/01/2024, Kenworth will pay for parts at dealer net plus applicable mark-up and labor:

FOR REPAIRS PERFORMED BEFORE 08/01/2023:

- **0.8 hours** to replace ABS controller and to open a TCS365 case, Meritor OnTrac case, and program the ECU. This claim MUST include a Meritor OnTrac claim number. See Meritor filing requirements ([CC019](#)) and attached procedures for more information and filing requirements. Use Quick Claim **46003A**.

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

- **1.5 hours** to replace ABS controller, calibrate yaw rate sensor, lateral acceleration sensor, steering angle sensor, perform test drive to verify repair, and to open a TCS 365 case, Meritor OnTrac case, and program the ECU. This claim MUST include a Meritor OnTrac claim number. See Meritor filing

requirements ([CC019](#)) and attached procedures for more information and filing requirements. Use Quick Claim **46003B**.

**NOTE**

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

- File an additional claim for extraordinary circumstances. A quick claim for standard labor must be filed first.
- File the claim within 14 days in accordance with Warranty Policy [CA009](#).

PRWS CLAIM CODING

Campaign Code:	46003	Campaign Type	Field Repair
Claim Category:	Truck	Repair Type	Proactive
Customer Concern Code	225	Causal Code	33
Corrective Action Code	23	Responsibility Code:	CampSupp
Failure Location	013-011-076	Causal Part	K209617SC000BXW
Supplier Code	17114EV	SRT Code	B23-12C 1.0 hrs Remove and replace Bendix ABS Module, relearn sensors, and test drive. B23-12A 0.5 hrs

			Open TCS 365 case, Meritor OnTrac case, and program the ECU. B23-12B 0.3 hrs Remove and replace Bendix ABS Module.
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Parts

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).

See [attached procedures](#) for Special Order information.

Quantity	Part Number	Description
1	K271852SC000BXW	MODULE - ELECTRIC, BENDIX ABS

Background

The current Battery-Electric Vehicle software is expecting an "engine speed/RPM" signal that does not exist on an electric drivetrain. The air conditioner compressor shutoff and low air buzzer disable parameters were originally in place as protection against damage to components from operation while the primary combustion

engine is stopped. Electric drivetrains do not require these protections. Software is being updated to account for differences between electric and combustion drivetrains.

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.

Read all steps before beginning.

Follow steps in [attached procedures](#).

Attachments

[Chassis List](#)

[Repair Procedures](#)

Authored by: JK