



Service Bulletin

34-085

Section

34 - Lighting and Wiring

Description

ABS Wheel Speed Sensor Water Intrusion

Release Date

2/28/2020

Introduction

Vehicles built from 9/14/2004 to 8/7/2018 may have the connector seals on the wheel speed sensor incorrectly installed, which may lead to sensor corrosion in some vehicles.

Resolution

Information Only

This bulletin is to inform dealers of possible repair paths for incorrectly installed wheel speed sensor connector seals.

Follow the proper troubleshooting steps for any fault code as usual. If upon visual inspection the connectors are not properly installed, correctly seat the seals if needed and check for corrosion. If the connector is corroded, replace the ABS harness as necessary.

Dealers will file for standard warranty if the vehicle is eligible. If the vehicle is no longer under warranty, the repair path provided will minimize customer downtime and technician diagnostic time.

Warranty

If the customer is experiencing the condition listed above, Peterbilt will pay for parts at dealer net plus applicable mark-up and labor for vehicles within standard warranty:

- 0.8 hours of labor to inspect all wheel speed sensors and connectors, and reseal the connector seals if necessary.
- 0.4 hours to R&R each front wheel speed sensor if corrosion is found.
- 0.7 hours to R&R each rear wheel speed sensor if corrosion is found.
- 5.3 hours of labor, which includes 0.8 hours for inspection, to remove and replace the ABS harness if corrosion is found.
- A clear picture of the corrosion must be provided for a claim to be processed for any harness or sensor replacement. If multiple sensors are to be replaced, a picture for each sensor is required.
- File a long claim form referencing 34-085.

For Field...

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| | |
|------------------|--|
| Failure Location | 013-011-002 |
| Failure Type | 700 |
| Claim Type | N |
| Campaign Number | 34-085 |
| Labor | <p>SRT 013-199 0.8 hours to inspect the seals on the wheel speed sensor connector, and reseal the seals if necessary.</p> <p>SRT 013-200 0.4 hours to R&R each front wheel speed sensor. Includes completing diagnostic checklist, attach to packing tag, and adjustment.</p> <p>SRT 013-203 0.7 hours to R&R each rear wheel speed sensor. Includes adjustment.</p> <p>SRT 013-212 4.5 hours to remove and replace ABS Chassis Harness as needed. Includes wheel speed sensor inspection. For MX-13 add SRT 032-050 for starter R&R. For 6S/6M ABS add 1.9 hours.</p> |

Parts

Parts are available from PACCAR Parts.

| Quantity | Part Number | Description |
|-------------------|---|-----------------------|
| 1 as needed | Varies – Refer to Web Ecat if harness replacement is necessary | ABS Harness |
| Up to 4 as needed | Varies – Refer to Web Ecat if Wheel Speed Sensor replacement is necessary | Wheel Speed Sensor |
| As Needed | Source Locally | Cable Ties |
| As Needed | V46-1003-1750200 | Nylon Abrasion Shield |

Procedure

1. Consult the procedures in the Attachments section to perform the wheel speed sensor inspection.
2. Properly seat any seals that are outside of the connector, as shown in Inspection procedure.
3. As stated in the inspection procedure, if any corrosion is present on the harness or wheel speed sensor, refer the attached Removal and Replacement Procedure to replace the ABS harness. Refer to bulletin [34-066 - Harness Damage and Repair Quick Guide](#) for additional information on how to proceed if a harness is corroded or damaged.
4. If corrosion is found on the Wheel Speed Sensor side of the connection, refer to the Wheel Speed Sensor Service Data attachment for replacement.

Attachments

[Inspection Procedure](#)
[ABS Harness Removal and Replacement Procedure](#)
[Wheel Speed Sensor Service Data](#)

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