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SS 780-WST Tire Pressure Monitoring System (TPMS) Water Intrusion Through Perimeter Seal

Applicable Vehicles

All X-series Western Star vehicles, with J1939 500K Baud Rate Bendix TPMS built 10/1/2021 to 1/28/2025.

Symptoms

Water entering the TPMS module can affect the internal components resulting in the following symptoms:

- TPMS does not communicate.
- TPMS disrupting the J1939 500K communication.

Issue

Vehicles built since October 1st, 2021, have updated TPMS modules that received an improved perimeter seal (orange in color), updated TPMS case with added internal ribbed supports, and a rubber boot cover that was added over the wire connector, to protect the connection from direct water spray.

The updated improvement to the perimeter seal requires more force to fully seat the perimeter seal and latch the front cover of the TPMS to the housing. Failure to fully latch the cover to the housing can result in water intrusion into the TPMS module.

Solution

If encountering either of the symptoms listed above, and it is determined that the TPMS module is the cause, upon replacing the module inspect the TPMS module to see if the front cover latches are fully engaged and inspect the perimeter seal to see if any of the ribs from the seal can be seen, reference figure 1. If either front cover latch is found to not be fully engaged, and or the perimeter seal is showing a single rib or multiple ribs exposed, then if the vehicle is still under warranty, and warranty claim is being submitted, make sure to include this solution number in the claim.

NOTE: TPMS module built since 1/29/2025 should have a certification mark (green dot) on the tag of the TPMS module. This indicates that the module was shipped from the supplier with none of the perimeter seal ribs exposed and both front cover latches fully engaged. If finding a certified mark on a module being replaced and either front cover latch is not fully engaged and or any ribs of the perimeter seal showing, make sure to include this information in the claim.

Last, before installing any new TPMS module, visually inspect both front cover latches ensuring they fully engaged along with making sure none of the perimeter seal ribs are showing. Also note if the certification mark (green dot) is present. If either ribs are showing and or the latches are not fully engaged, do not attempt to alter the module (as an anti-tamper seal is installed), but rather return the module back as a parts warranty including this service solution and noting if the certification mark was present. Do not install any TPMS module that does not pass these inspections.



Figure 1

Labels :

- 47X
- 57X

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