

TSN 18484 - Cascadia Intermittent loss of power steering assist, LH Turn ONLY

NOTE: This TSN is only intended for customers wishing to add a power steering oil cooler. For replacement of the gear reference TSN 46-01

SUBJECT:

Intermittent loss of power steering assist, LH Turn ONLY

PRODUCTS:

Cascadia with THP60 steering gear

PROBLEM / SYMPTOMS

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The situation of primary concern is when the vehicle has a loss of assist ONLY in LH turns. This occurs when the vehicle is subjected to an extended heat soak event, such as climbing or descending a long grade, and sometimes even in normal traffic. The high temperature lowers the fluid viscosity, allowing the fluid to leak past the 'pressure to lower cylinder' seal in the gear. This condition does not result in loss of assist in RH turns.

FIELD ACTION - OPTIONAL FIX:

To address a LH loss of assist complaint, first confirm that the complaint is for loss of assist that occurs intermittently and ONLY when turning left. Then follow normal PS troubleshooting procedures to verify and document the performance of the system overall, as well as the pump and gear individually. Refer to Cascadia Workshop manual, section 46.

Upon verifying the LH loss of assist condition, replace the gear by referring to TSN 46-01.

You may install a PS cooler at your discretion. Technical reasons to install a cooler include observed or suspected excessive heat, and multiple complaints and/or failures.

To determine which cooler parts list to use for a particular vehicle, look up the module 535 BOM for that vehicle in PartsPro and select the list below that matches.

Note that for BOM 535-C11901 there are two different lists depending on whether the truck was built with a taper leaf front suspension or an AIRTEK front suspension.

If the BOM list you need is not listed below, contact Paul Labberton.

WARRANTY:

Gear and pump replacement are subject to normal warranty. The addition of a cooler is considered a modification and is non-warrantable at this time.

SMART CODE: S45

FSPR: 23330

FRACAS: 12467

SERVICE SOLUTION: None

IMPORTANT:

This information is NOT authorization for warranty.

Attachments

1. [power steering cooler 535-C10401.txt](#).
2. [power steering cooler 535-C11901_w_AIRTEK.txt](#).
3. [power steering cooler 535-C11901_w_taperleaf.txt](#).
4. [power steering cooler 535-C11913.txt](#).
5. [power steering cooler 535-C11925.txt](#).
6. [power steering cooler 535-C10312.txt](#).