

# HVAC Stops Cooling

## TSB-83-163-FTL

Creation Date: 2025-07-03

### Engine or Vehicle Affected:

► New Cascadia

Warranty applies to this described condition. See the warranty information at the end of this bulletin.

### **Described Condition**

The field received numerous complaints about air conditioning (A/C) systems not cooling. In most cases the fault code 25/522510/3- high side Pressure – Voltage above normal or shorted to the high source or open circuit, is present. After investigation, it has been determined that the terminals (23-13211-440) are loose on the pins of the pressure transducer. Loose terminals at the pressure transducer can affect the A/C functionality, resulting in the A/C not cooling. Vehicles built from June 2022, through December 2024, or any vehicle receiving replacement terminals that do not fit properly on the pressure transducer pins, can be affected.

### **Parts Table**

Starting on November 18, 2024, production started receiving new terminals attached to the harness with A66-14821-000 that addresses the 'loose terminal' issue. Also the aftermarket started receiving updated terminals in Parts Distribution Centers (PDC's) on December 6, 2024. The new terminals may not receive a new part number, however all aftermarket terminals that have been updated, did have the terminals marked with a black marker. See Fig. [1](#).



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➦ **Note:** The terminal markings are only for reference, There can be new terminals which may not have the black markings.

Fig. 1, Terminals with Markings

Table 1, Parts Table

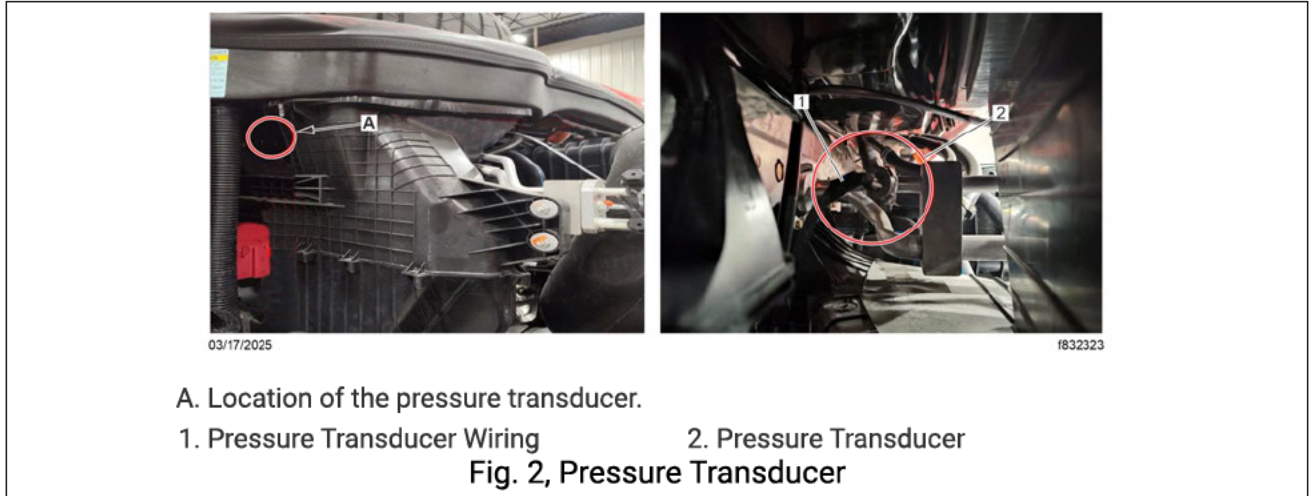
Parts Table		
Part Number	Part Description	Quantity
23-13211-440	Terminal	As required
22-60646-000	Pressure Transducer	As required

Parts Table		
23-13153-408	Cavity 4 Connector	As required

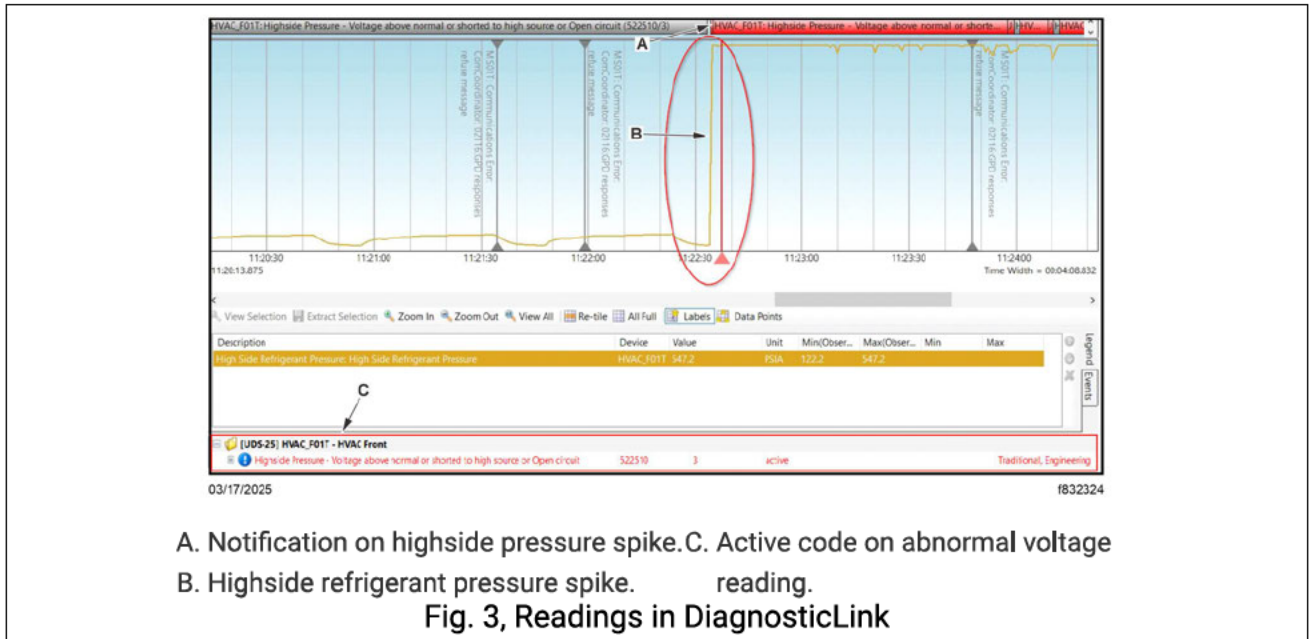
Table 1, Parts Table

**Procedure**

1. While monitoring the A/C pressure in DiagnosticLink®, inspect if wiggling the wires connected to the A/C pressure transducer results in a spike in the pressure transducer high pressure reading, or if the fault code 25/522510/3 is triggered as active. See Fig. 2 for pressure transducer location and the wiring to wiggle.



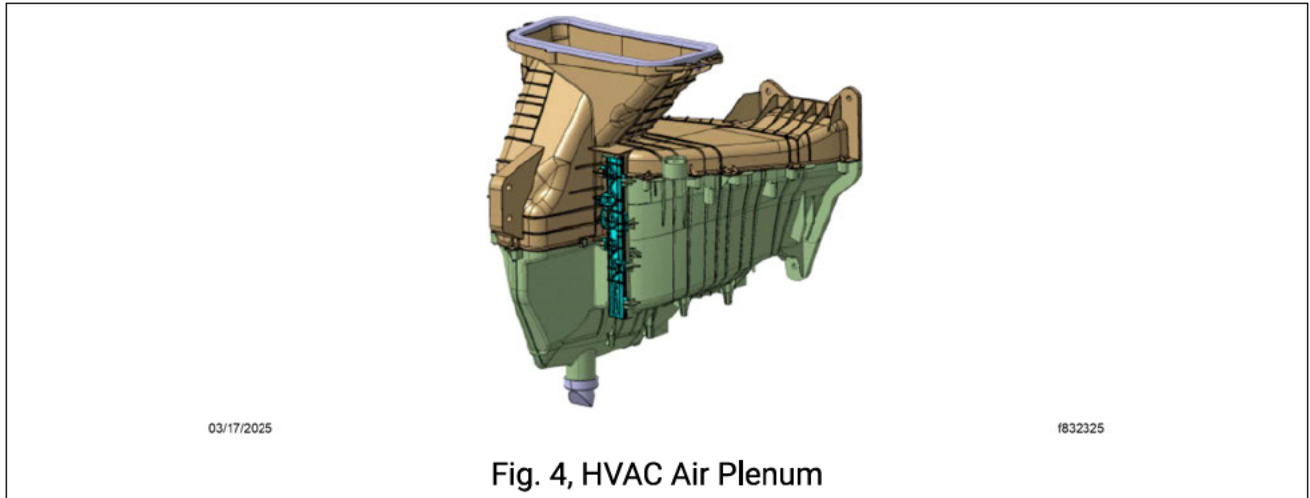
2. If a spike is observed in DiagnosticLink, it indicates that one or more of the terminals connected to the pressure transducer may be loose and should be inspected and replaced. See Fig. 3.



3. If wiggling the wires to the pressure transducer causes irregular high-pressure readings, examine the terminals leading to the pressure transducer. With the terminals removed from the pressure transducer connector, there should be some force (drag) required to push/pull the terminal on to the pressure transducer pin.

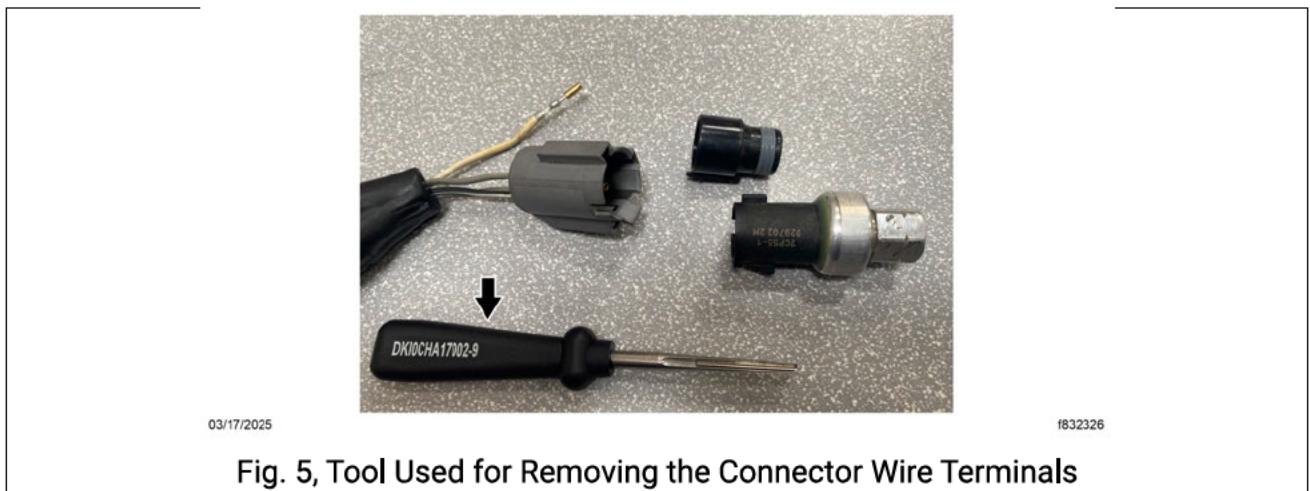
✦ **Note:** The wire and terminal cavity locations within the transducer connector should be marked for reference, or alternatively remove one wire at a time to ensure correct assembly.

4.  To replace the pressure transducer terminal, the HVAC intake air plenum must be removed. See Fig. [4](#).



✦ **Note:** The white wire in cavity 4 of the transducer connector is used as a water seal/plug for the connector, it does not have a corresponding pin on the transducer and therefore does not require testing or replacement. If the cavity 4 connector is damaged and needs replacement, place an order for the cavity 4 connector (23-13153-408).

5.  To remove the connection wire terminals, press the little tab on the wire insertion end of the connector to remove the black internal secondary lock. Then remove the terminals from the connector using the tool DK10CHA17002-9 or equivalent pick to release the terminals from the connector. See Fig. [5](#).



✦ **Note:** A terminal that has become loose on the pressure transducer pin, might cause wear on the pin, resulting in replacement of both the pressure transducer and terminals.

6.  Using the pressure transducer pin, perform a drag test on the terminal, ensuring that it does not fall or come off with a gentle shake. If it does, then the terminal is too loose and should be replaced. See Fig. [6](#).



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Fig. 6, Pressure Transducer Terminal

7.  Before installing the new terminals, perform a drag test on each terminal using the transducer pins to ensure they are in good condition. If the terminal does not have identifying marks, as shown in Fig. 1, then ensure the new terminal has resistance when installed on the transducer pin.

8.  Insert the wires/terminals carefully into the corresponding connector cavities. See Fig. 7.

HVAC_D_VLV_PRESS_XDCR_1A		HVAC_DASH_O_XDCR_PRESS_1.	
22-60646-000		23-13153-408	
HVAC PRESSURE TRANSDUCER- Do Not Use			
REF MOD 700			
SUPPLY	2	2	440 # 1512 (GY) 18/.8 TXL-
RETURN	1	1	440G # 1206 (BK-W) 18/.8 T
FEEDBACK	3	3	440Y # 1512 (GY) 18/.8 TXL-
UNUSED	4	4	-NC-
		4	

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Fig. 7, Pressure Transducer Connector Pin Circuit

9.  If the pressure transducer was removed, replace the O-ring seal on the A/C line connector before installing the transducer. See Fig. 8.



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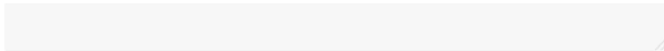
Fig. 8, O-Ring, Pressure Transducer

10.  Once all terminal repairs are made, and the harness is installed back on the pressure transducer, monitor the pressure transducer readings in DiagnosticLink to verify that when wiggling the wires going to the transducer, pressure spikes are no longer observed. Also do the wiggling check for all terminals irrespective of the black markings.

11.  Disconnect the vehicle from DiagnosticLink.

12.  Install the HVAC intake air plenum, if removed for pressure transducer and terminal replacement.

13.  Close the hood.



**Warranty**

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

See below table for OWL VMRS codes and labor hours information. Enter this service bulletin number in the Service Bulletin # field.

Table 2, OWL VMRS Codes and Labor Allowance

Damage Code and Time Guide Information						
Primary Failed Part	Component Code	Cause Code	Correction Code	SRT Code	Description	Hours
23-13211-440	034-004-107	23	03	700-5039A	TERMINALS, WIRING, HVAC PRESSURE TRANSDUCER, INSPECT & REPLACE	1.0

Table 2, OWL VMRS Codes and Labor Allowance

**Note:**

- 001-001-402
- 034-004-107
- REMOVE
- INSTALL
- REPLACE
- INSPECT
- ASSEMBLE
- DISASSEMBLE

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