

Authorized Field Change



AFC 11929

Date: February 2012

Subject File: CAB

Subject: HVAC Front Inside Module Drain Repair

Model: TranStar®, ProStar®, and LoneStar® equipped with Feature 0016WCT – Heater and Air Conditioner (Blend-Air)

Start Date: 01/19/2011 End Date: 09/13/2011

DESCRIPTION

The HVAC drain valve is being held open. When the blower motor is on, this causes the moisture not to drain. The following are the causes:

1. The HVAC module floor seal interferes with the drain tube and forces it open or closed. Condensate inside the module does not properly drain and instead is pulled into the blower motor.
2. The floor seal is mis-positioned or damaged during HVAC module installation.

PARTS INFORMATION

Table 1 **Parts Information**

Part Number	Description	Quantity
8000934R91	Sealant	1

PROCEDURE



WARNING – To prevent vehicle damage, personal injury or death, park the vehicle on a flat, level surface. Make sure the engine ignition is in the off position, and the transmission is in neutral or in the park position, if the vehicle is equipped with an automatic transmission. Set the parking brake, block the wheels to prevent the vehicle from moving in both directions, and disconnect the batteries at the negative terminal before doing any service procedures on the vehicle.



WARNING – To prevent personal injury or death, remove ground cable from negative terminal of main battery before disconnecting electrical components. Always connect ground cable last.



WARNING – To prevent personal injury or death, always wear safe eye protection when performing vehicle maintenance.



WARNING – To prevent personal injury or death, make sure that the engine has cooled before removing components.



WARNING – To prevent personal injury or death, do not let engine fluids stay on your skin. Clean skin and nails using hand cleaner and wash with soap and water. Wash or discard clothing and rags contaminated with engine fluids.

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR

1. Remove the kick panel and scuff panel on the passenger side of the truck (See Figure 1, page 3).



Figure 1 Removing Kick and Scuff Panels

2. Detach and pull back the center console to expose the floor mat (See Figure 2, page 3).



Figure 2 Detaching Center Console

3. Pull the floor mat away from the drain area (See Figure 3, page 4).

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)



Figure 3 Pulling Floor Mat away from Drain Area

4. Removal of drain seal.

- a. In the engine compartment on the firewall, loosen the lower mounting nuts from the inboard and outboard areas shown (See Figure 4, page 4).



Figure 4 Loosening Mounting Nuts

1. Outboard Nut next to HVAC TXV
 2. Inboard Nut next to HVAC TXV
- b. Back the nuts off the studs until the end of the nut is approximately flush with the end of the stud (do not remove completely).

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)

- c. With the mounting nuts loosened, gently pull the HVAC unit rearward to expose the drain seal for easier removal (See Figure 5, page 5) and (See Figure 6, page 5). Remove the foam seal and not the rubber drain valve (See Figure 7, page 6).



Figure 5 Pulling the HVAC Unit Rearward



Figure 6 Typical Condition of the Foam Seal after Removal

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)

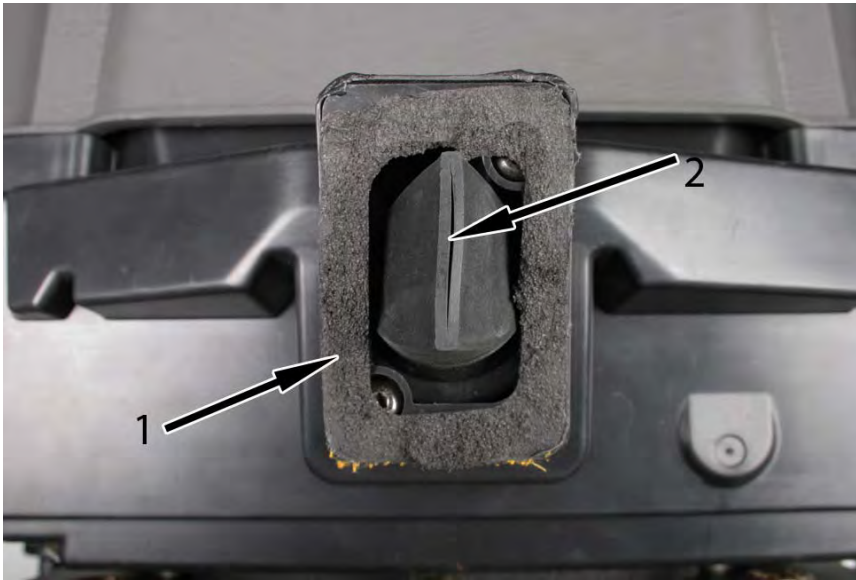


Figure 7 Rubber Drain Valve

1. Foam Seal
2. Rubber Drain Valve

5. Tighten the HVAC module mounting nuts (See Figure 4, page 4).
6. Using a thin piece of cardboard / credit card, place the cardboard between the floor and the HVAC module.
 - a. Push the cardboard halfway under the HVAC module.
 - b. Continue this operation for all sides of the drain. This will make sure the drain valve is not caught.
 - c. Slide the cardboard / credit card from the firewall side completely under the HVAC housing to ensure it is not folded under. You will be able to see the drain valve end as you slide the cardboard / credit card under the module between HVAC module and floor (See Figure 8, page 7).

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)

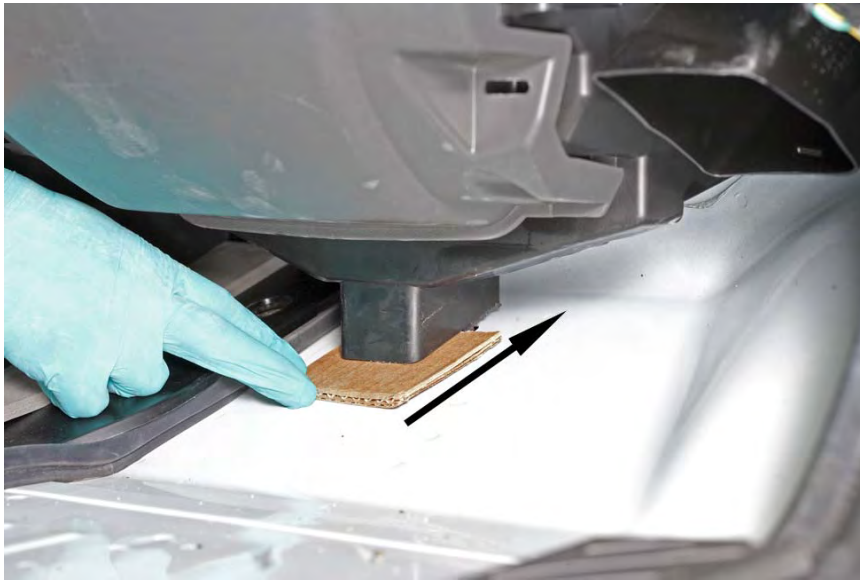


Figure 8 Placing Cardboard Between HVAC Module and Floor

7. Use sealant (p/n 8000934R91) to seal the HVAC unit to the floor. Make sure not to force excessive sealant into the gap (See Figure 9, page 7).



Figure 9 Sealing HVAC Unit to the Floor

8. Reposition the floor mat in place.
9. Do the following to test the blower motor:
 - a. Turn the ignition key to the On position.
 - b. Turn the control to high blower speed.

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)

- c. If the blower turns on, go to each blower speed and verify that the blower is operational. If the blower is operational, go to step 10.
- d. If the blower does not turn on or has limited airflow, locate the Linear Power Module (LPM) behind the passenger-side kick panel and do the following (See Figure 10, page 8):



Figure 10 Locating the LPM

- Black wire on the two-cavity connector.
 - White heavy ground wire on the 6-way connector.
- e. Use a 12-gauge jumper harness to place the jumper across these two wires (See Figure 11, page 9).

SERVICE PROCEDURE FOR HVAC FRONT INSIDE MODULE DRAIN REPAIR (CONT.)

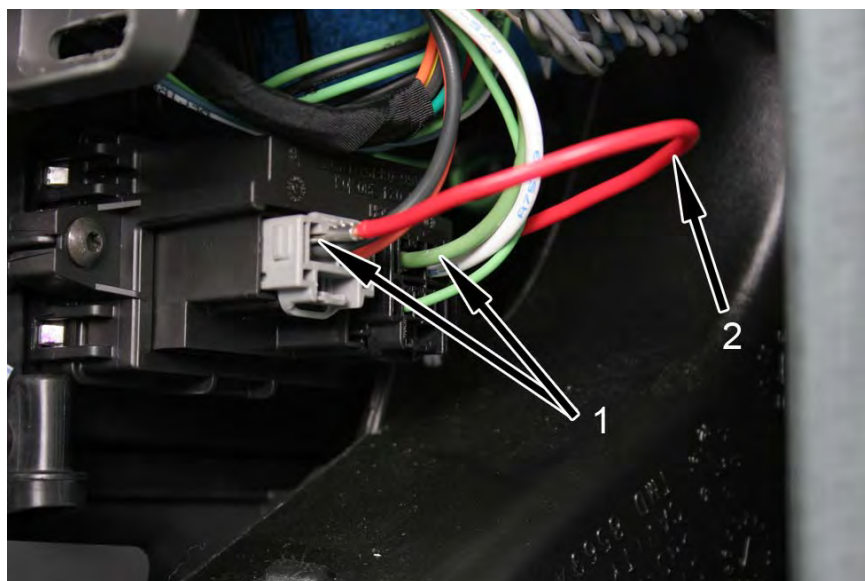


Figure 11 Using 12-gauge Jumper Harness

1. Jumper wire on the two-cavity connector and on the 6-way connector.
 2. 12-gauge jumper harness
- f. The blower motor should operate.
 - g. Remove the jumper wire.
 - h. Turn the ignition key off and then back on to verify the blower motor works.
10. Reassemble the center console.
 11. Reassemble the kick panel and scuff plate.

Table 2 Labor Information

Operation No.	Description	Time
A40-11929-1	HVAC Front Inside Module Drain Repair: ProStar®, TransStar®, and LoneStar®	0.7 hrs.

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-11929.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-11929 activity must be submitted by February 28, 2013 or within the normal warranty period for the vehicle, if after February 28, 2013.

GROUP					NOUN			C	WARR.	TP	PAD
GROUP Enter number G—											
NOUN Leave blank											
C (CAUSE) Enter either 1, 2, 3. (see below)											
1. Inspected (No repair required).											
2. Inspected and repaired.											
3. Defective part from parts stock.											
WARRANTY (Warranty Code) Enter 40.											
TYPE PART Enter P for type part causing failure.											
PAD Enter 100											

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