Countries:	CANADA, UNITED STATES, MEXICO, PUERTO RICO	**Document ID**:	IK1600251
Availability:	ISIS, FleetISIS, IsSIR	**Revision**:	1
Major System:	CAB / SLEEPER / HOOD	**Created**:	3/15/2019
Current Language:	English	**Last Modified**:	11/12/2019
Other Languages:	NONE	**Author**:	Steven Bautz
Viewed:	442		

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Title: **Water Leaks Past Plastic Vapor Barrier Sheet in the Inner Cavity of the Cab Entry Door**

Applies To: **Any Cab Entry Door on LT, RH, HV, MV, LoneStar**

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

11/12/2019 - Added options to repair the seal bead in addition to replacing the entire plastic barrier.
04/01/2019 - Initial Article Release.

DESCRIPTION

This document will guide the user through the repair and/or replacement of a plastic vapor barrier sheet seal on the cab entry doors. This article discusses three options to complete the repair.

1. Repair the original seal bead with alcohol and heat gun.
2. Add a 2nd seal bead of Butyl Tape
3. Replace the entire vapor barrier.

SYMPTOM(s)

Water is found on cab floor near or at the threshold and/or floor just below the inside of a cab entry door. (may occur at any door location)

Customer Observations or Concerns: Customer complains of wet flooring or water present at or near the entry threshold. Water may be dripping from between the metal door panel and the interior door trim panel.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s): N/A

There are no DTCs for this condition. FCAP does not apply for this condition.

SPECIAL TOOL(s) / SOFTWARE

Special tools are not needed or required for this service repair.

Tool Description	Tool Number	Comments	Instructions
N/A			

SERVICE PARTS INFORMATION

Replacement plastic vapor barriers are available through the service parts warehouse. Please refer to the parts catalog for the correct P/N needed based on the VIN and door position for the truck you are servicing.

Part Description	Part Number	Quantity Required	Notes
Front Driver Cab Door - Plastic Water Shield	4053425C1	1	All Cabs
Left Rear Cab Door - Plastic Water Shield	3713540C2	1	Crew Cabs
Front Passenger Cab Door - Plastic Water Shield	4053426C1	1	All Cabs
Right Rear Cab Door - Plastic Water Shield	3713541C2	1	Crew Cabs

DIAGNOSTIC STEP(s)

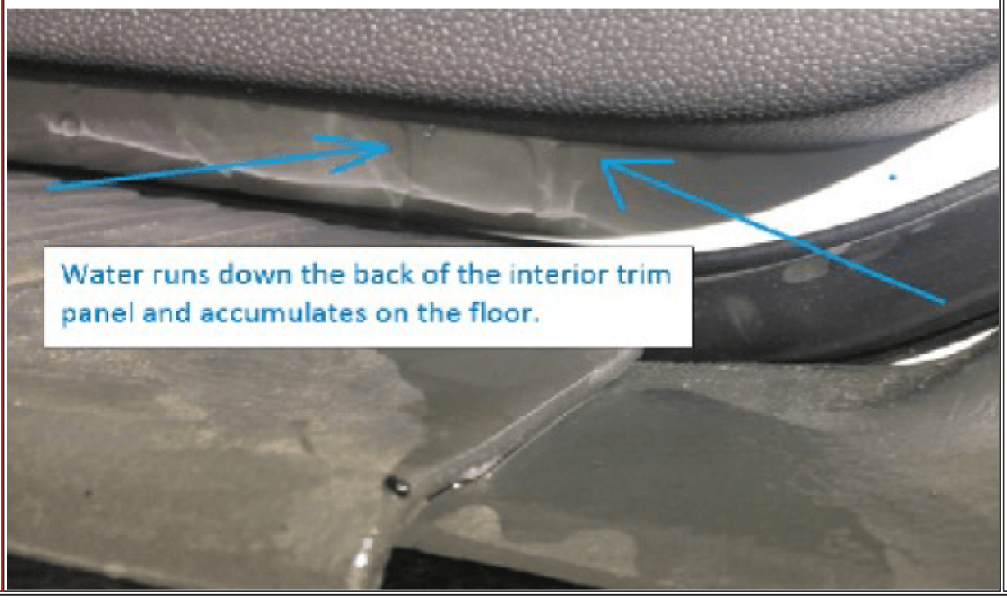
WARNING:

Be sure to wear proper safety gear whenever servicing a vehicle

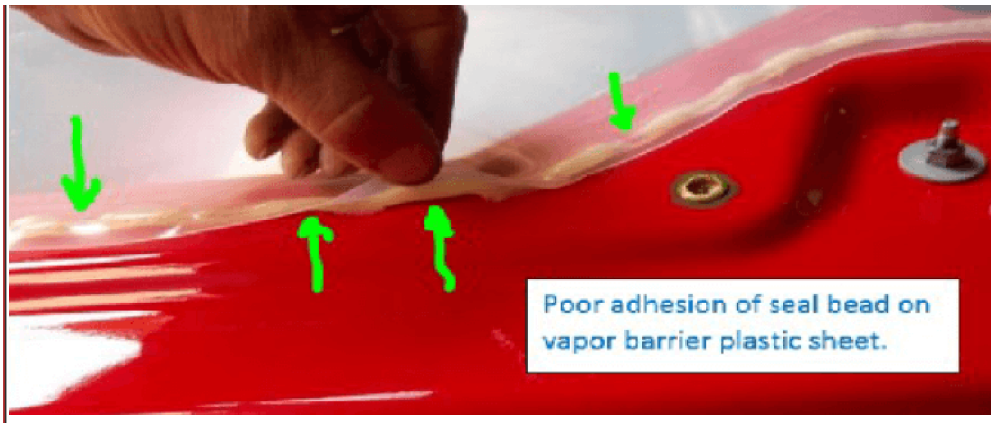
CAUTION:

When working with running water to conduct leak testing; floors and other surfaces may become slippery when wet. Use caution when working on or near wet surfaces.

Step	Action	Decision
1	**DIAGNOSTIC:** • **Is water dripping or present at or near cab threshold?** • **Is the Cab floor wet near the door?**	**Yes**. Remove interior trim door panel and inspect the seal bead holding the plastic vapor barrier to the door panel at each opening for proper adhesion to metal door panel. Water can be poured at base of the outer door window to observe if water leaks past seal bead at any given location. (See photos) Note: The seal bead not adhered to the metal panel may be hard to see so using water at time of evaluation is preferred to confirm seal integrity.
		No. The vapor barrier is properly sealed. No further action is required.



Step	Inspection for seal bead adhesion to metal door panel	Procedure
2		**1.** Check for adhesion by water leaking or dripping **2.** Slightly lift plastic vapor barrier all around each sealed location to check for adhesion to metal door panel. Note: If the areas of the bead that are not adhering are minor the seal bead can be cleaned and resealed or an additional bead of Butyl seal tape can be added.



REPAIR STEP(s)

Once it has been determined the vapor barrier seal is bad; there are three option to complete the repair:

1. Clean the area where the current seal bead is not making contact and water passes through with isopropyl alcohol. Slightly heat the current seal bead to aprroximately 80 degrees F and roll it tight to the door with a wooden roller by appling aprroximately 15PSI of pressure while rolling the seal bead. (Note: if the plastic vapor barrier is damaged, ripped, torn, or has a hole use option 3 to replace the entire plastic sheet)
to replace the entire plastic sheet
2. Apply a bead of Butyl sealant similar in size to the current seal bead just along the outer edge of the current seal bead. (making a double bead) Roll the Butyl sealant bead with a wooden roller to compress the seal so it bonds to both the plastic barrier and the inner door panel. (Note: if the plastic vapor barrier is damaged, ripped, torn, or has a hole use option 3 to replace the entire plastic sheet)

Sample image of Butyl Sealing Tape

3. Replace the entire plastic vapor barrier with a new plastic vapor barrier from service parts. (If this option is used; follow the procedure below)

The new barrier will come from the PDC with the sealant bead already adhered to the plastic sheet. Reference Fig 1.

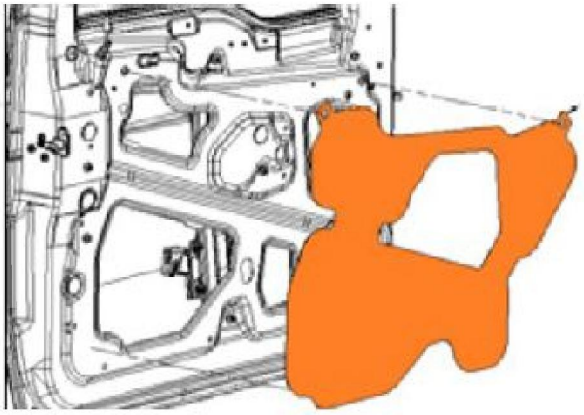


Figure 1: Placement of New Vapor Barrier

REMOVAL PROCEDURE:

STEP 1: Remove the old barrier and all sealant residue. Using a heat gun to heat the vapor barrier sealant to ~80°F will aid in removal.

STEP 2: Clean door panel with alcohol to promote proper adhesion of new seal bead. See Fig 2.

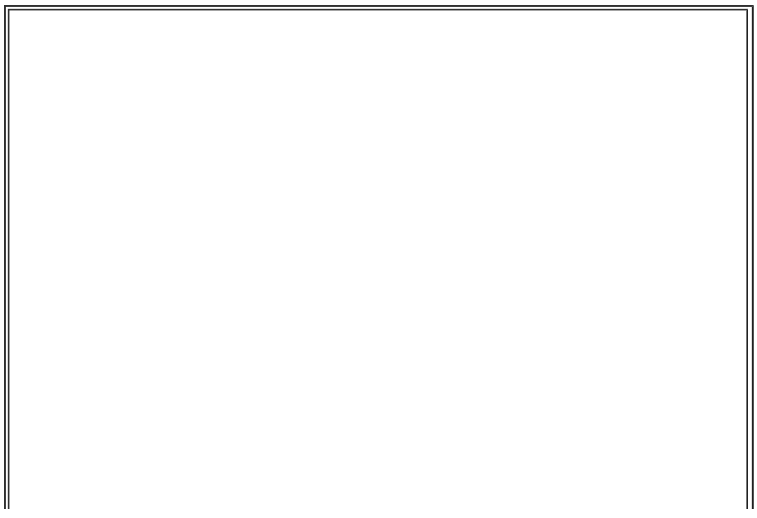


Figure 2: Cleaning the Door Panel of Old Residue

INSTALLATION PROCEDURE:

STEP 1: Align the position of new plastic vapor barrier onto the door using the circular alignment features on the door panel. (See Figures 3 & 4.)

Figure 3: Door Alignment Features for Placing Barrier Sheet in proper location.

Figure 4: Plastic Vapor Barrier aligned and in place.

STEP 2: Installing new service part (Vapor Barrier Plastic Sheet) onto the door. The new part needs to be fully wetted to the metal door panel by applying heat & pressure on the sealant bead with a roller while it is still heated. Heat to ~80°F. (See Figure 5.)

Figure 5: Rolling new sealant to door panel for proper adhesion

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the Warranty Coding Manual for Group and Noun Codes.

STANDARD REPAIR TIME(S)

Standard Repair Time(s):

Refer to the SRT Manual for Repair Times

Note: At the time of publication, there was not a specific SRT for this repair. Refer to LT-16-5345A, Steps 1 thru 14 and steps 24 thru 32 for disassembly & reassembly.

OTHER RESOURCES

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