Service Bulletin

Bulletin No.: 17-NA-304
Date: February, 2020

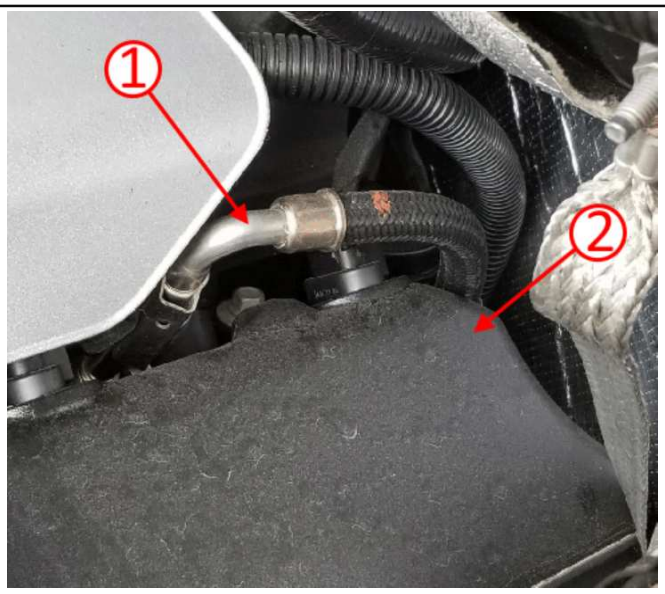
TECHNICAL

Subject: Ticking, Rattle and/or Buzzing Noise Heard from inside Passenger Compartment, Possible Fuel Leak

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	Escalade	2015	2020			L86	
	Escalade ESV					L86	
Chevrolet	Suburban					L83	
	Tahoe					L83	
GMC	Yukon Models					L83, L86	
	Yukon XL Models					L83, L86	

Involved Region or Country	North America, Middle East, Europe, Russia, Chile, Columbia, Ecuador and Peru.
Condition 1	Some customers may comment on the following condition: • A rattling and/or ticking noise that may be louder inside the vehicle than outside. ⇒ The noise may be picked up at the back of the left valve cover, and/or underneath the vehicle near middle of the driver's door. ⇒ This noise will be noticeable at idle, most noticeable in the 700-900 RPM range. ⇒ The noise may also sound like a lifter tick. ⇒ This may also be called a fuel line buzz or ringing noise. • While the rattle is occurring, the S-shape portion of the fuel feed line, right in front of the tank, will be vibrating / rattling.
Condition 2	Some customers may comment on a fuel leak. Diagnosis that the fuel leak is originating from the fuel feed line at the molded-in clip on top of tank.
Cause	The rattling, ticking noise may be caused by the check valve in the low pressure fuel feed jumper line at the engine not fully seating, allowing pressure pulses from the high pressure side back into the low pressure side of the fuel system. These pressure pulses could cause the S-shaped portion of the fuel feed line, in front of the tank, to vibrate and/or rattle If the S-shaped portion of the fuel line rattles over a period of time, the fore-aft motion in the line could result in wear. This wear could result in a fuel leak where the line is secured into the molded-in clip on the tank.

Correction 1



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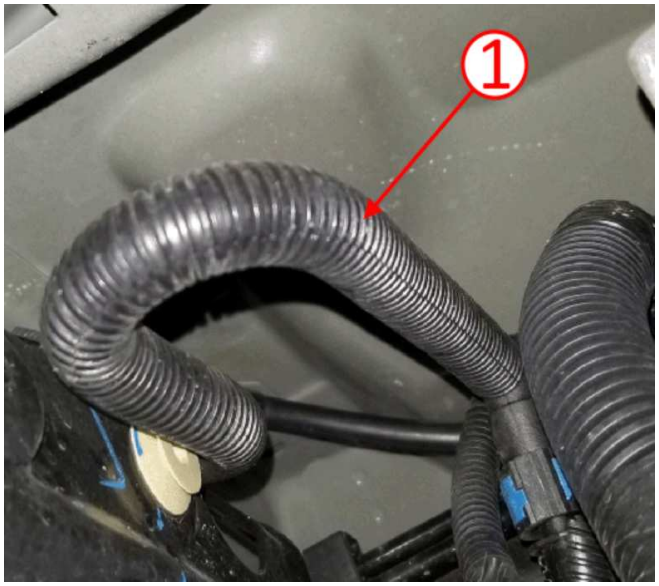
1. Using a stethoscope or equivalent, engine running, listen to the low pressure fuel pipe connection (1) at the left side of the engine (2). (Will be very loud in stethoscope while issue is occurring.)



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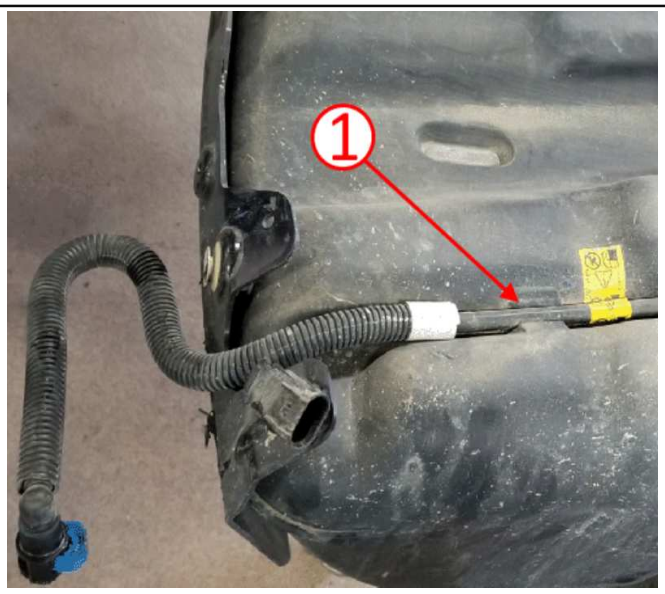
2. Engine running, inspect the low pressure fuel pipe S-shaped portion (1) in front of the fuel tank for vibration / rattle.
   - If the vibration / rattle condition is present, then the low pressure fuel feed jumper pipe at the engine will need to be replaced and the fuel feed pipe at the tank will need to be replaced with the updated design.

Correction 2	 4863689 1. Inspect to determine whether the fuel leak is originating from the fuel feed pipe where it is retained into the molded-in clip (1) on top of the fuel tank. • If the fuel leak is originating from the molded-in clip area of the fuel feed line, then the low pressure fuel feed jumper pipe at the engine will need to be replaced and the fuel feed pipe at the tank will need to be replaced with the updated design.

Service Procedure

Install a new low pressure fuel feed jumper line at the engine, and replace the original design fuel feed line at the tank with the appropriate updated design PN listed in the Parts table, following the procedure below.

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Low pressure fuel feed jumper pipe at engine

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Original design fuel feed line at tank

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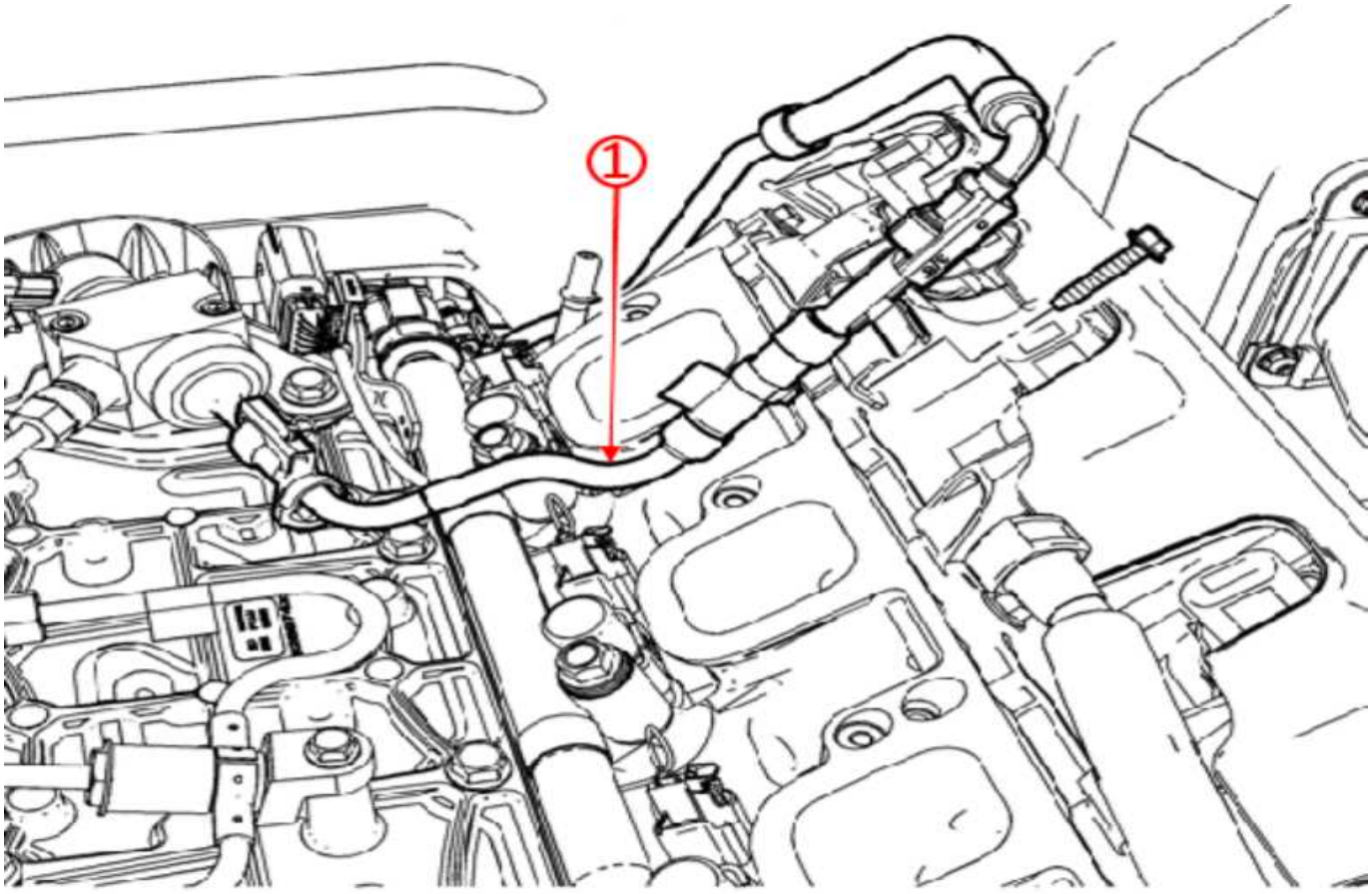
Updated design fuel feed line at tank

Note: Summarized below are key notes for both the low pressure fuel feed jumper pipe at the engine and the low pressure chassis fuel feed pipe at the tank. Refer to Fuel Feed Pipe Replacement (At Engine) and Fuel Feed Pipe Replacement (At Tank) for complete procedures.



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1. Replace the low pressure fuel feed jumper pipe (1) at the engine.
2. Lower the fuel tank assembly and remove from the vehicle.
3. Remove the low pressure chassis fuel feed pipe from the fuel tank.

Note: Provide protection for the fuel feed port on the fuel pump module.

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4. Using shop air, clean the fuel feed pipe run channel on the tank to remove dirt and debris.

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5. Position the updated design fuel feed pipe to the fuel tank and make connection to the fuel pump module.

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6. Install the fuel line into the tank molded-in clip and ensure the line is fully seated.
7. Install the fuel tank to the vehicle.
8. Validate the vibration / rattle in the fuel line has been eliminated.

Parts Information

Causal Part	Description	Part Number	Qty
x	Pipe Asm-Fuel Feed (Jumper at Engine)	12618338	1
x	Hose Asm-Fuel Feed (at Tank) (Updated Design, SWB)	84200271	1
x	Hose Asm-Fuel Feed (at Tank) (Updated Design, LWB)	84200274	1

Warranty Information

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4081878*	Fuel Feed Pipe Replacement at Engine and Tank	2.7 hrs
*This is a unique Labor Operation for Bulletin use only.		

Version	3
Modified	Released September 22, 2017 Revised August 08, 2018 - Added 2018 and 2019 Model Year and removed cutoff dates. Revised February 03, 2020 - Added 2020 to Model Year.