Service Bulletin

Bulletin No.: PIE0501
Date: February, 2019

ENGINEERING INFORMATION

Subject: **Engineering Information – Service Engine Soon (SES) Light On, Rough Idle, Running Lean, Engine Air Leak From the Foul PCV Tube and/or Whistle Type Noise, DTCs P0171 and/or P0174 Set**

Attention: **Proceed with this EI ONLY if the customer has commented about this concern AND the PIE number is listed in the Global Warranty Management / Investigate History link (GWM/IVH). If the customer has not commented about this condition or the EI does not show in GWM/IVH, disregard the PI and proceed with diagnostics found in published service information. THIS IS NOT A RECALL — refer to Service Bulletin 04-00-89-053 for more details on the use of Engineering Information bulletins.**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Silverado 1500 (New Model)	2019	2019			Equipped with 5.3L or 6.2L Engine (RPOs L84, L87)	All
GMC	Sierra 1500 (New Model)						

Involved Region or Country	North America
Condition	**Important:** If the customer did not bring their vehicle in for this concern, **DO NOT** proceed with this EI. Some customers may comment one or more of the following condition: • Service engine soon (SES) light on • Rough idle • Running lean • Engine air leak from the foul PCV tube • Whistle type noise Technician may find DTCs P0171 and/or P0174 set or stored in history.
Cause	This condition may be caused by an incorrectly installed foul air PCV tube or tube may be damaged. Engineering has a need to gather information on vehicles **PRIOR** to repair that may exhibit this condition. As a result, this information will be used to "root cause" the customer's concern and develop/validate a field fix.

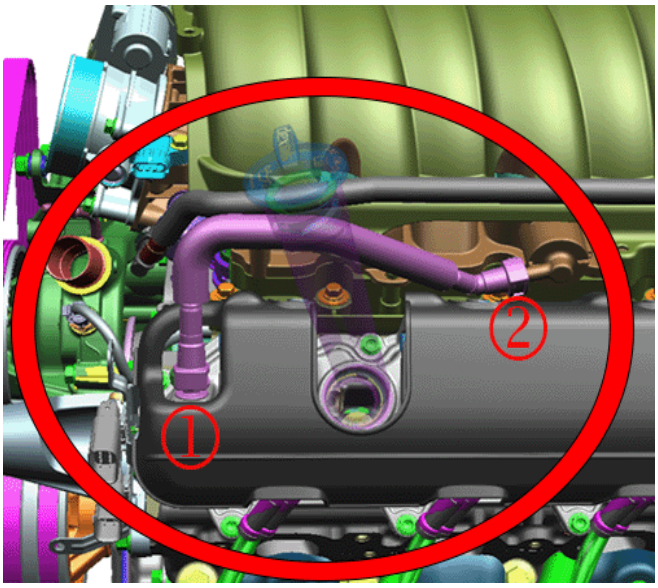
Correction

If you encounter a vehicle with the above concern, follow the Diagnostic Procedure below. After performing the necessary diagnostics and/or replacing the part. Document your findings and please call the engineer listed below for further direction and email any images if applicable.

Before calling it will be necessary to have the following items and indicate on the image below the location of the leak. **DO NOT** proceed until further direction is received.

Items Requested:

- VIN
- Location Number (shown in the illustrations below)
  (RPO L84)



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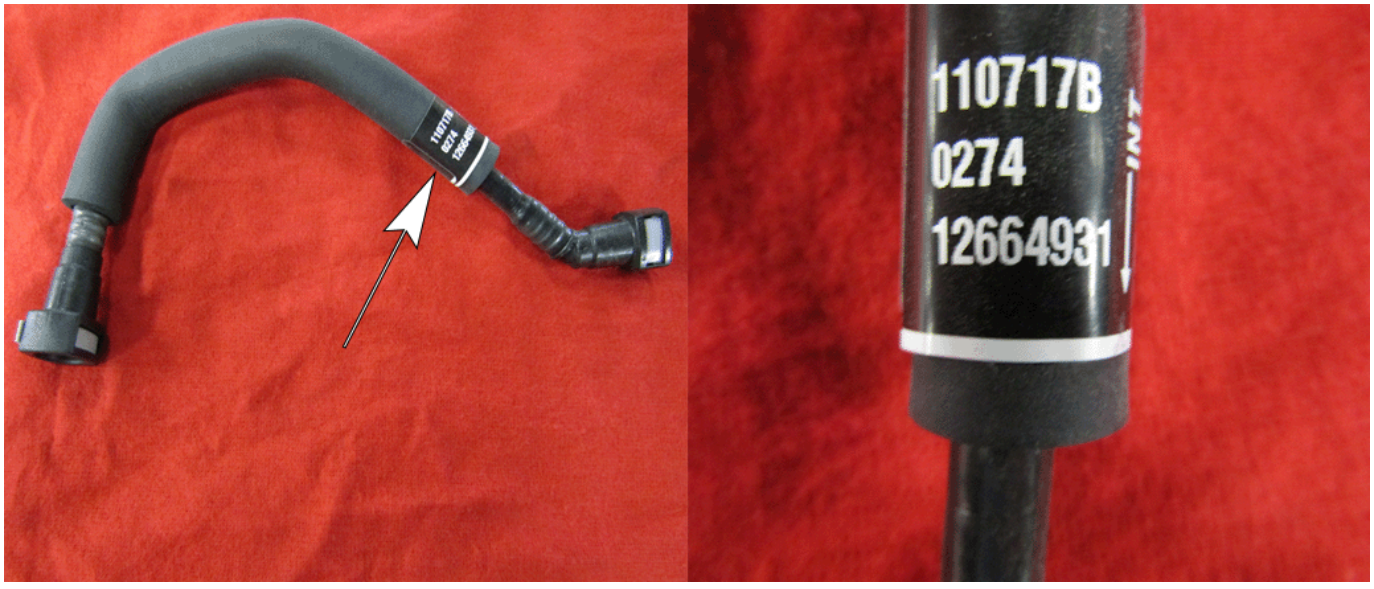

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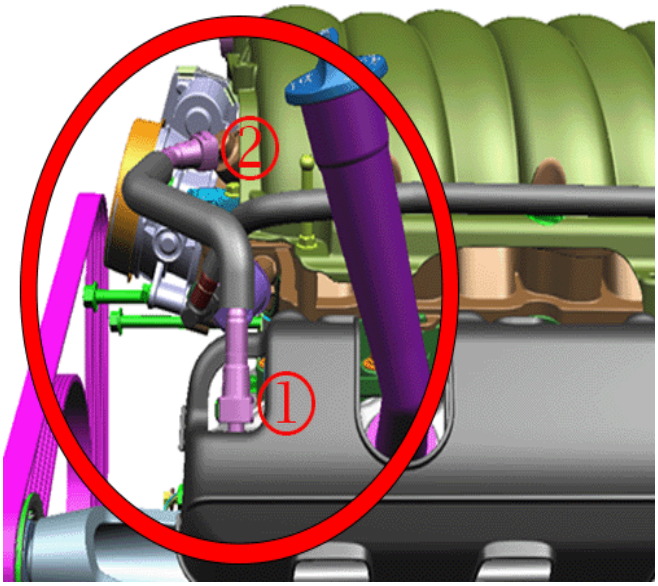
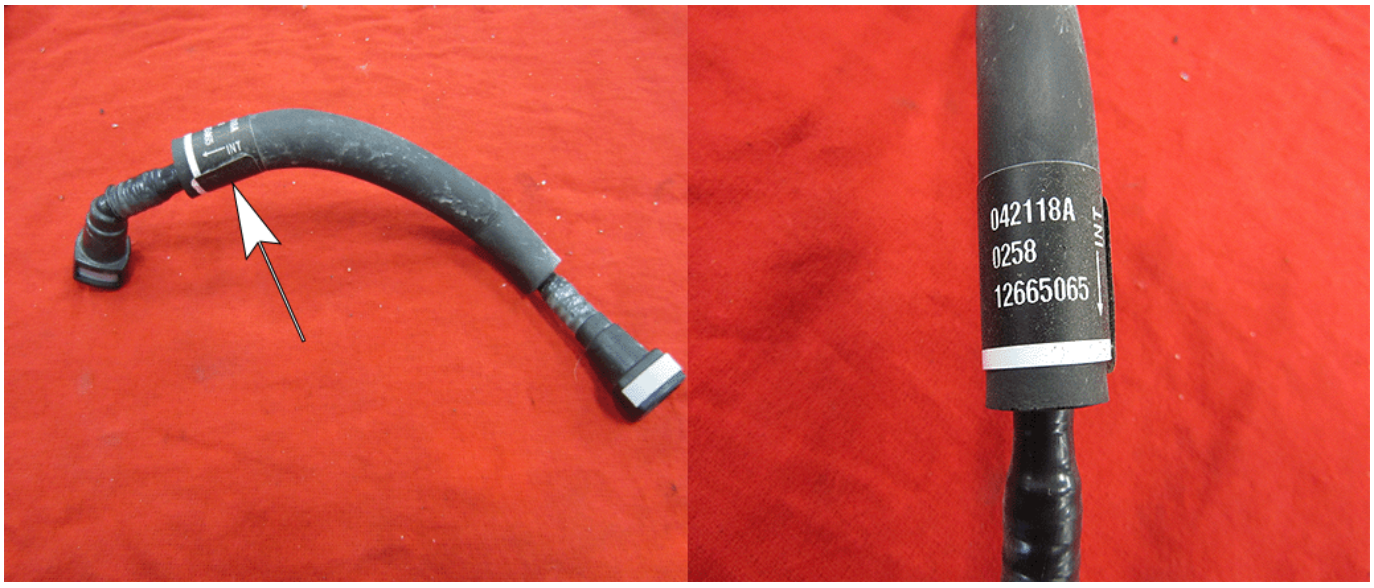
(RPO L87)



5225233



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- Picture(s) of the leak before disassembled and of smoke test results

Diagnostic Procedure

1. Verify proper foul PCV tube is installed by looking at the part number on the label and confirming below.

   Part Number for L84: 12664931

   Part Number for L87: 12665065

   If correct part number is installed ensure that the tube is oriented properly. PCV tube has a label attached that indicates the direction to the intake manifold labeled “INT”. If the tube is installed backwards the tube has most likely been bent to fit the wrong profile. Install tube properly if tube does not seem damaged.
2. If proper tube is installed and oriented correctly then it will be necessary to smoke test to see if there is a leak. If a leak is discovered please take a picture of the leak location.
   2.1. If no smoke is detected, then tug on PCV tube ends (Location 1 or 2) to ensure the tube is seated. If tube was not fully seated then properly secure connection by pressing tube in until it clicks and the tube does not come off by pulling on it. Proceed to step 4.
   2.2. If smoke is detected, at either at the cover or manifold (Location 1 or 2) Remove and reinstall the same PCV tube to ensure both latches click. Proceed to Step 3.
   2.3. If the tube is cracked or damaged in any other location besides (1 or 2) then it will be necessary to remove and replace with a new tube. Proceed to step 4.

3. Repeat smoke test to verify condition is still present. If leak is still present at (Location 1 or 2) remove tube and inspect O-ring seals inside, look for damage or missing O-rings. Take images of findings. Replace with new tube if damage is found. Proceed to step 4.
4. Clear the ECU codes.
5. Start vehicle up, idle for 5 minutes in park, shut engine off, repeat (Total needs to be 2 times).
6. Verify if code/s return:
   - If Yes - Proceed to step 7.
   - If No - PCV tube was not correctly seated during assembly and no further repairs are necessary. Return vehicle to customer and document findings on repair order.
7. Replace PCV tube with a new PCV tube and repeat steps 4-6 to verify new tube has fixed the concern.
   - If condition is repaired document findings and return vehicle to customer.
   - IF condition is still present or DTC returns then it will be necessary to follow SI diagnostics in the service manual for that DTC or condition.
8. Upon completion of procedure please contact engineer to document findings.

Contact Information

Engineer Name	Phone Number
Angel Cecena	(248) 392-5292

Please include the following information if leaving a message:

– Technician name

– Dealer name and phone number

– Complete VIN and repair order (R.O) number

On the repair order, document the date and time the call was placed (even if the engineer was not reached).

If engineering is unable to return the call within one hour, proceed with diagnosis and repair based on information found in SI.

Warranty Information

If engineer was contacted or required information was provided, use:

Labor Operation	Description	Labor Time
4086738*	Engineering Information – Engine Air Leak From the Foul PCV Tube and/or Whistle Type Noise	0.4 hr
* This is a unique labor operation for bulletin use only.		

Version	1
Modified	Released February 01, 2019