

# 2019 - 2020 Corvette: Service Bulletin: #19-NA-218: Ticking Noise from the Engine - (Dec 1, 2020)

## #19-NA-218: Ticking Noise from the Engine - (Dec 1, 2020)

**Subject:** Ticking Noise from the Engine

This bulletin replaces PIP5606E. Please discard PIP5606E.

| Brand:           | Model:         | Model Year: |      | VIN: |    | Engine:                        | Transmission: |
|------------------|----------------|-------------|------|------|----|--------------------------------|---------------|
|                  |                | from        | to   | from | to |                                |               |
| <b>Cadillac</b>  | CTS            | 2019        | 2019 | —    | —  | 6.2L<br>(LT4)                  | —             |
|                  | Escalade       | 2019        | 2020 |      |    | 5.3L,<br>6.2L<br>(L83,<br>L86) |               |
| <b>Chevrolet</b> | Camaro         | 2019        | 2020 |      |    | 6.2L<br>(LT1,<br>LT4)          |               |
|                  | Corvette       | 2019        | 2019 |      |    | 6.2L<br>(LT1,<br>LT4,<br>LT5)  |               |
|                  |                | 2020        | 2020 |      |    | 6.2L<br>(LT2)                  |               |
|                  | Silverado 1500 | 2019        | 2019 |      |    | 4.3L,<br>5.3L,                 |               |

|            |                                      |      |      |                                  |
|------------|--------------------------------------|------|------|----------------------------------|
|            | (New Model 12th Digit VIN = 7) - 4WD |      |      | 6.2L (L84, L87, LV3)             |
|            | Silverado 1500 (New Model)           | 2019 | 2020 | 5.3L, 6.0L, 6.2L (L83, L86, L96) |
|            | Silverado LD                         | 2019 | 2019 | 4.3L, 5.3L, 6.2L (L84, L87, LV3) |
|            | Suburban                             | 2019 | 2020 | 5.3L (L83, L86)                  |
|            | Tahoe                                | 2019 | 2020 | 5.3L, 6.0L, 6.2L (L83, L86, L96) |
| <b>GMC</b> | Sierra Limited                       | 2019 | 2019 | 5.3L, 6.0L, 6.2L (L83,           |

|                                  |      |      |   |
|----------------------------------|------|------|---|
|                                  |      |      | L86,<br>L96)                                    |
| Sierra<br>1500<br>(New<br>Model) | 2019 | 2020 | 4.3L,<br>5.3L,<br>6.2L<br>(L84,<br>L87,<br>LV3) |
| Yukon<br>Models                  | 2019 | 2020 | 5.3L,<br>6.2L<br>(L83,<br>L86)                  |

***Involved Region or Country***

North America, Europe, Russia, Middle East, Iraq, Israel, Palestine, Argentina, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela, Japan, Cadillac Korea (South Korea), GM Korea Company, Thailand

***Condition***

Some customers may comment that they hear a ticking noise coming from the engine when cold.

- This ticking noise will mainly occur during the first initial start in the morning.

***Cause***

This condition may be caused by a lifter not having a sufficient amount of oil during cold start operation (not

pumped up).

### *Correction*

To correct this condition, follow the Service Procedure below.

## **Service Procedure**

Allow the engine to sit overnight.

**Note:** You may need to allow 5-7 minutes to confirm.

1. Start the vehicle and listen for a tick noise.
  - If a tick noise is present, proceed to the next step.
  - If a tick noise is NOT present after running engine for at least 5 to 7 minutes, release the vehicle back to the customer.
- Drive the vehicle through the DFM modes.
- Check for any misfire DTCs and record:
  - If DTCs are found, refer to SI for diagnosis.
  - If no DTCs are found and noise still persists, operate the engine through cylinder Deactivation test to isolate the cylinder with the concern.
- If the noise has been isolated, inspect for a bent pushrod and/or collapsed lifter.
  - If the pushrods are found to be in working condition, replace the lifters on the affected banks. Refer to *Valve Lifter Replacement* in SI.

## **Parts Information**

**Note:** Refer to Service Bulletin 20-NA-038 for additional information on AFM and DFM usage.

| Causal Part | Description | Part Number | Qty |
|-------------|-------------|-------------|-----|
|-------------|-------------|-------------|-----|

|     |  |          |   |
|-----|--|----------|---|
| X   | LIFTER, VLV<br>(Active)                | 12680871 | 2 per bank (6<br>CYL DFM)<br><br>4 per bank (8<br>CYL AFM)<br><br>8 per bank (8<br>CYL DFM) |
| X   | LIFTER, VLV<br>(NON-ACTIVE<br>LIFTERS) | 12648846 | 4 per bank (6<br>CYL)<br><br>4 per bank (8<br>CYL non DFM)                                  |
| N/A | GASKET, CYL<br>HD (L84)                | 12622325 | 1   |
| N/A | GASKET, CYL<br>HD (L87)                | 12688943 | 1   |
| N/A | GASKET, CYL<br>HD (LT1)                | 12659260 | 1   |
| N/A | GASKET, CYL<br>HD (LV3)                | 12632968 | 1   |
| N/A | BOLT, CYL<br>HD<br>(M12x1.75x102<br>)  | 11611976 | Refer to EPC  |
| N/A | BOLT, CYL<br>HD<br>(M12x1.75x134<br>)  | 11546959 | Refer to EPC  |
| N/A | GASKET, VLV<br>RKR ARM<br>CVP          | 12619787 | 1   |

|     |                              |          |                        |
|-----|------------------------------|----------|------------------------|
| N/A | GASKET, EXH<br>MANIF         | 12657093 | 1                      |
| N/A | PIPE, FUEL<br>FEED INTR      | 12677002 | 1                      |
| N/A | PIPE, FUEL<br>FEED INTER     | 12679463 | 1                      |
| N/A | GASKET, INT<br>MANIF         | 12626354 | 6 (6 CYL)<br>8 (8 CYL) |
| N/A | GASKET,<br>W/PMP             | 12682391 | 1                      |
| N/A | SEAL, KIT<br>F/INJR (O-ring) | 12672366 | Refer to EPC           |

## Warranty Information

**Note:** Only select the labor operation that coincides with the repair performed.

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

| Labor Operation | Description                                 | Labor Time                            |
|-----------------|---|---------------------------------------|
| 4062390         | Valve Lifter<br>Replacement - Right<br>Side | Use Published Labor<br>Operation Time |
| 4062391         | Valve Lifter<br>Replacement - Both<br>Sides |                                       |

|         |  |
|---------|--|
| 4062410 | Valve Lifter<br>Replacement - Left<br>Side |
| 4062450 | Valve Lifter<br>Replacement                |

*Version*

3

*Modified*

Released February 14, 2020

May 28, 2020 – Added RPO LT2 to Corvette and Cylinder Head Gasket P/Ns 12632968 (LV3) and 12688943 (L87) to Parts Information.

December 01, 2020 – Updated the Quantity information for P/N 12626354 and 12672366 in the Parts Information section.

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/2019-2020-corvette-service-bulletin-19-na-218-ticking-noise-from-the-engine-dec-1-2020-1475.html>