



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Vibration During Active Fuel Management V4 Mode Operation 1200 – 1400 Engine RPM

**Models:** 2014-2015 Chevrolet Silverado  
2014-2015 GMC Sierra  
equipped with 4.3L RPO LV3

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

### Condition/Concern

Some customers may comment about a vibration that is felt between 1200 – 1400 engine RPM when in active fuel management V4 mode.

A drone or resonance may also accompany this vibration.

The vibration may occur at different vehicle speeds but the engine speed will be in the 1200-1400 RPM range. This vibration does not occur in V6 mode.

### Recommendation/Instructions

The technician should evaluate the vehicle under the conditions the customer duplicates the concern. Once the concern is duplicated, use a vibration analysis tool,

J 38792-A Electronic Vibration Analyzer 2 (EVA) or CH 51450-NVH Pico Oscilloscope Diagnostic Kit (w/NVH) to measure the frequency of the vibration.

If the measured vibration is not 23 Hertz (HZ), first order engine, use normal vibration diagnostics to isolate the source of the vibration.

If the measured vibration is 23 Hertz (HZ), first order engine, follow the three-way catalytic converter settling procedure below.

### Three-Way Catalytic Converter Assembly Settling Procedure

**Note:** Do NOT replace the three-way catalytic converter assembly unless it is physically damaged.

Loosen the six nuts that fasten the three-way catalytic converter assembly to the exhaust manifolds.

Remove and replace the exhaust muffler clamp that joins the three-way catalytic converter assembly to the pipe of the muffler assembly

**Note:** Note: This is a special clamp called a Norma clamp and it must be replaced as it is a one time use clamp.

Reinstall the three-way catalytic converter assembly following the specific tightening sequence and fastener torque specifications found in SI.

### Parts Information

Part Number	Description	Qty
20779889	Clamp, Exhaust Pipe	1

### Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
4050272	Exhaust System Alignment	Use Published Labor Operation Time

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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