



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Engine Vibration - Resonance/Boom Between 40 To 60 MPH

**Models:** 2010 - 2016 Chevrolet Equinox  
2010 - 2016 GMC Terrain  
Equipped With the 2.4 Cylinder Engine (RPO's LAF and LEA )

*This PI was superseded to update Model Years. Please discard PIP5277.*

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

### Condition/Concern

Some customers may comment that a resonance type vibration occurs between 40 to 60 MPH.

In most cases the engine must be under a slight load such as A/C compressor engagement, light throttle, and in 6th gear tcc applied.

It also is described as a 2nd order engine boom or vibration. In most cases this is an inherent condition on 4 cylinder models, however in some cases this condition is much more amplified.

### Recommendation/Instructions

Relax engine and transmission mounts, then the exhaust system by loosening the front pipe studs.

Work down the system disconnecting one exhaust hanger at a time.

Test drive to verify any improvements.

If additional steps are required place two sets of exhaust dampeners (part #10199232 and attach with 2 1/2" exhaust clamps, part #15595206) one set before and one set after the front catalytic converter.

It may be required to move the pair of dampeners along the exhaust system to get the best results (photos attached).

This repair will only improve noise and vibration to a condition comparable to like vehicles with the 4 cylinder powertrain.

Fabricate 2 dampers using the following procedure:

1. Obtain 4 dampeners, Part Number 10199232.
2. Line up 2 dampeners so the dampener pipes are opposite of each other.
3. Line up one mounting hole from each dampener with the holes of an appropriate size exhaust clamp.
4. With all of the holes lined up, weld the flat portion of the dampeners together and to the flat part of the exhaust clamp.
5. Attach the dampeners to the exhaust system using exhaust clamps.



## 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.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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