

**Document ID# 1663165**  
**2004 Cadillac CTS**

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# **Drive Line Vibration/Moan Noise in Sixth Gear - keywords 6sp axle buzz differential driveline flange high hum M12 propeller propshaft rattle shaft shake #PIP3425 - (May 24, 2005)**

Drive Line Vibration / Moan Noise In Sixth Gear

2004-2005 Cadillac CTS-V

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

## **Condition/Concern:**

Vibration or noise at highway speeds in sixth gear only.

## **Recommendation/Instructions:**

There are two different but similar concerns with these vehicles.

1. The first one is a high speed vibration that will actually be more of a "noise" rather than something you can feel. Driving the vehicle in fifth gear under the same speed conditions may exhibit trace amounts of this same noise or vibration. This concern is also described in TSB 04-04-17-003. If the paint marks are already aligned, a system balance of the propshaft in the vehicle may be required to improve the concern.
2. A similar symptom is a vehicle that has a first order propshaft speed vibration in sixth gear only. There will be no trace of this vibration in fifth gear at the same road speed. A transmission replacement may be required to resolve this concern.

Please follow this diagnosis 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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