



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Crankshaft Balancer Appears To Be Wobbling

**Models:** 2015-2016 Cadillac Escalade  
2014-2016 Chevrolet Silverado 1500 Suburban, Tahoe  
2014-2016 GMC Sierra 1500 Yukon  
With engines 4.3L, 5.3L, 6.2L RPO's LV3, L83, L86

*This PI was superseded to update Model Years. Please discard PIP5199.*

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

### Condition/Concern

Some customers may comment that the crankshaft balancer appears to be out of balance or wobbling while watching it with the engine running. In most cases, the wobble is an optical illusion because the design of the balancer gives the appearance that it is moving more than it actually is.

### Recommendation/Instructions

If the above concern is experienced, follow the steps below:

1. Push the crankshaft all the way to the rear of the engine.
2. Using a magnetic base, attach a dial indicator so the measuring tip is contacting the rear of the drive belt groove

**Notice:** An inaccurate reading may be obtained by measuring the face of the balancer instead of the rear of the drive belt groove

**Notice:** The rubber material in the balancer can cause an illusion of wobble when the engine is operating. The rubber material can protrude up to 2.50 mm from the front surface of the metal. It can also be recessed in to 3.00 mm. These specifications do not include the rubber flash height). The joint/split of the rubber material can have an offset/step change of up to 2.0mm.

1. Rotate the crankshaft 360 degrees and note the total amount of crankshaft balancer run out.
  - 1.1 If the balancer run out is 0.25mm ( 0.0098") or less, do not replace the balancer as the run out is within specifications.
  - 1.2 If the balancer run out is greater than 0.25mm, replace the crankshaft balancer and perform the step again to confirm that the run out of the new balancer is now in specification.
2. If the customer has a concern of a belt squeak, also replace the drive belt.

### Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
4063290	Crankshaft Balancer Replacement	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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