



Service Bulletin

PRELIMINARY INFORMATION

Subject: Information Guidelines — Repair Procedures for Engine Valve Train/Lifter Noise and/or Visible Circular Wear Marks On Top of Valve Lifter(s) Body

Models: 2013 Chevrolet Spark
Equipped with 4 Cylinder 1.2L, MFI, DOHC Engine — RPO LL0

Condition/Concern

Some customers may comment that the engine is noisy or has valve train/lifter noise.

The Technician may hear this valve train/lifter noise or when performing a repair to the cylinder head or valve train components, may observe visible circular wear marks on top of the valve lifter(s) body.

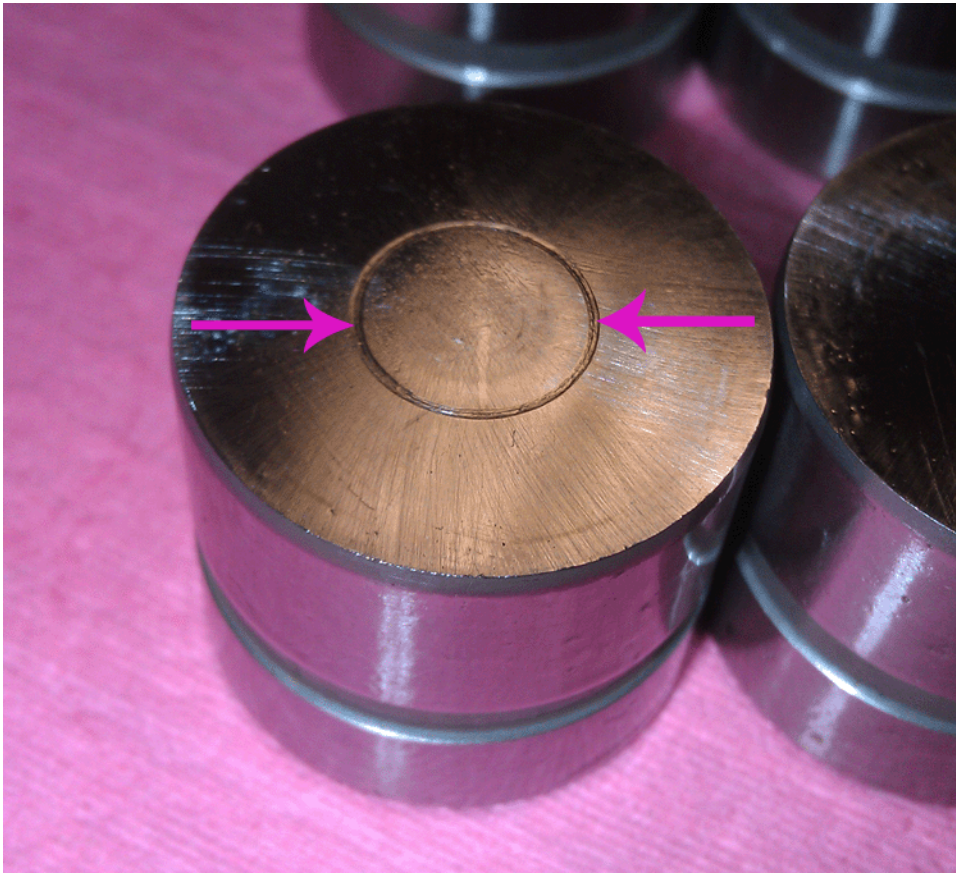
This condition may be caused by the outer edge of the intake or exhaust camshaft lobe not being correctly ground.

Recommendation/Instructions

If the above Condition/Concern is encountered, follow the guidelines in the appropriate following **Section** as outlined below when performing a repair:

- **Repairing the Engine for Valve Train/Lifter Noise**
- **Replacing the Camshaft or Camshafts for Something Other Than Valve Train/Lifter Noise**
- **Replacing a Cylinder Head for Something Other Than Valve Train/Lifter Noise and Circular Wear Marks Are Visible on Top of the Valve Lifter(s) Body**
- **Additional Examples of Repairs**

Repairing the Engine for Valve Train/Lifter Noise

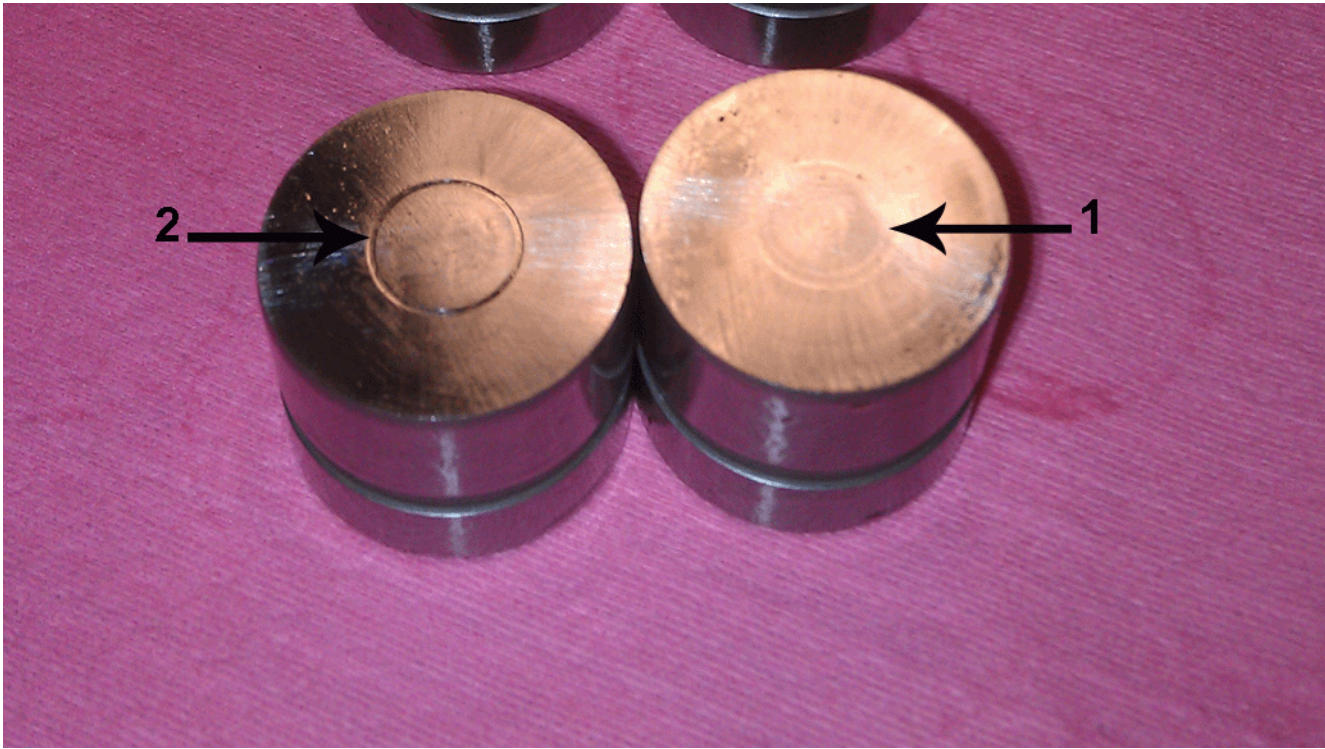


Notice: Refer to this graphic for an example of the circular wear mark on top of the valve lifter body.

When repairing the engine for valve train/lifter noise, perform the repair in the following procedure:

1. When repairing an engine for valve train/lifter noise, the proper procedure is to replace **all** of the valve lifters.
and
2. When circular wear marks **are visible** on the top of any valve lifter body, replace the affected camshaft or camshafts and **all** of the valve lifters.

Replacing the Camshaft or Camshafts for Something Other Than Valve Train/Lifter Noise

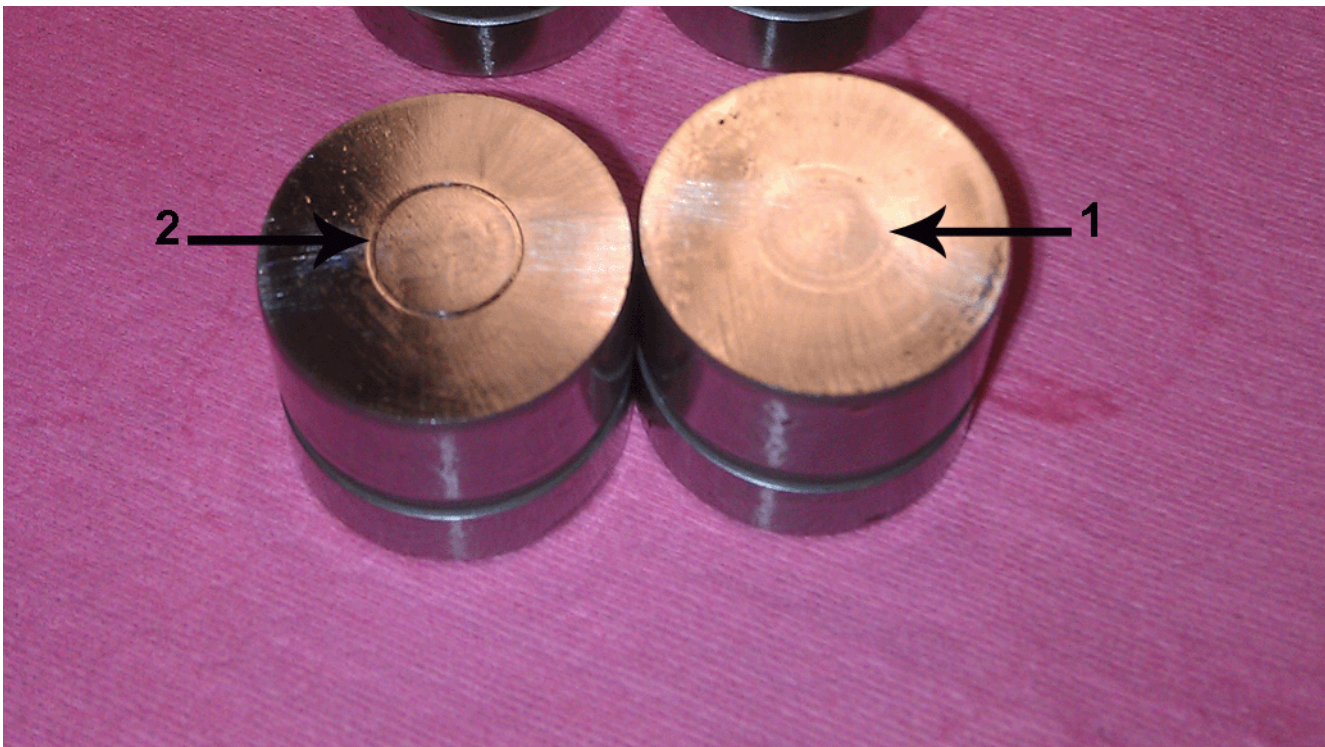


Notice: Refer to this graphic for an example of a normal wear pattern (1) and a circular wear mark (2) on top of the valve lifter body.

When replacing a camshaft or camshafts for something other than valve train/lifter noise, perform the repair in the following procedure:

1. Replace the camshaft or camshafts as needed for the repair.
and
2. Replace **only** the valve lifters with the circular wear mark (2) on top of the valve lifter body and the corresponding camshaft.

Replacing a Cylinder Head for Something Other Than Valve Train/Lifter Noise, and Circular Wear Marks Are Visible on Top of the Valve Lifter(s) Body



Notice: Refer to this graphic for an example of a normal wear pattern (1) and a circular wear mark (2) on top of the valve lifter body.

When replacing a cylinder head for something other than valve train/lifter noise, and a circular wear mark (2) is visible on top of the valve lifter(s) body, perform

the repair in the following procedure:

1. Replace the affected camshaft and **only** the valve lifters with the circular wear mark (2) on top of the valve lifter body.
2. Replace the cylinder head.

Additional Examples of Repairs

First Example

1. When replacing an intake camshaft, cylinder 1A intake valve lifter body has a visible circular wear mark.
Go to Step 2.
2. Replace only that one valve lifter with the circular wear mark, along with the camshaft.

Second Example

1. When replacing an intake camshaft, cylinder 1A exhaust has one valve lifter body with a visible circular wear mark.
Go to Step 2.
2. Replace the intake camshaft for the original failure
and
Replace the exhaust camshaft and the one valve lifter body with the visible circular wear mark.

Warranty Information

For vehicles repaired under warranty, use the applicable labor operation for the repair that was 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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