

Vehicle: All Technical Service Bulletins

Engine Noise

File In Section: 6 - Engine

Bulletin No.: 67-61-14B

Date: September, 1997

Subject:

Engine Noise (Install Valve Stem Oil Seal)

Models:

1994-96 Buick Road master

1994-96 Cadillac Fleetwood

1994-96 Chevrolet Caprice, Impala SS

with 4.3L, 5.7L V8 Engine (VINs W, P - RPOs L99, LT1)

1996-97 Chevrolet and GMC C/K, M/L, S/T; G, P and W4 Trucks

1996-97 Oldsmobile Bravada

with 4.3L V6 and 5.0L, 5.7L V8 Engine (VINs M, R, W, X - RPOS L30, L31, L35, LF6)

This bulletin is revised to include the W4 Truck Model for Chevrolet and GMC Trucks. Please discard Corporate Bulletin Number 67-61-14A (Section 6 - Engine).

Condition

Some owners may comment about a rhythmic engine noise at idle. The noise, which occurs at half engine speed, has been described as a "Whoop-Whoop" (similar to a helicopter idling), an engine rattle noise (not to be confused with PVC rattle), a lifter tick in the lower end, a balance shaft noise, or a rod knock.

When using a stethoscope, the noise will sound as coming from deep within the engine. The noise may be heard in the passenger compartment and in S/T vehicles is audible at the catalytic converter and tail pipe.

Important:

The noise will get louder as the engine warms up at idle.

The noise does NOT diminish with removal of the accessory drive belt, balance shaft gear, or disconnecting the torque converter.

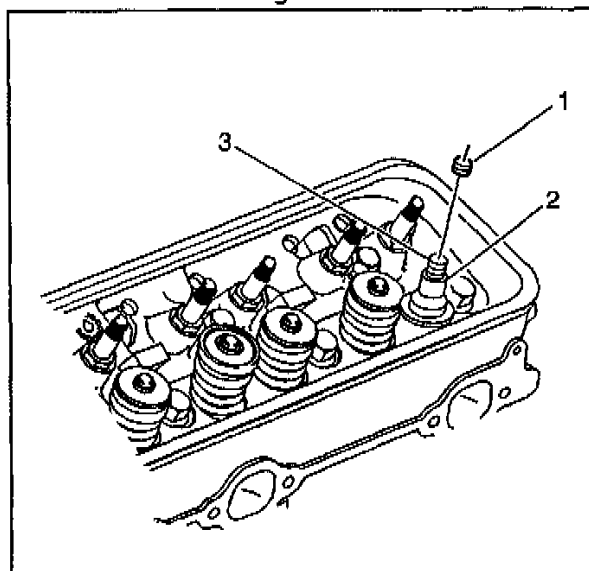
Cause

The noise may be caused by a low level of lubrication on the exhaust valve stem, creating a "slip-stick" condition between the valve stem and valve guide.

Correction

1996 vehicles equipped with a 4.3L V6 engine (RPOs L35, LF6) should be checked to see if Campaign 96-C-17 (excessive oil consumption) applies and has been performed to the vehicle being serviced. Vehicles identified in the campaign should have the campaign performed before they are repaired for a "Whoop Noise" condition.

Install the valve stem oil seal listed below, ON THE EXHAUST VALVE GUIDES ONLY.

Figure 1**Legend**

- 1. Valve Stem Oil Seal
- 2. Valve Guide
- 3. Valve Stem

Lightly lubricate the seal, and with finger pressure only, push it on to the valve stem and down on to the exhaust valve guide. (See Figure 1)

Important:

DO NOT install this seal on intake valve guides. This seal is NOT released for intake valve application in the above identified vehicles.

New rocker cover gaskets may be required.

Engine	Description	Quantity Required	Part No.
V6-1996-97	Oil Seal	6	460483
L35 and LF6	Rocker Cover Seal	2	10201397
V8-1996-97	Oil Seal	8	460483
L30 and L31	Rocker Cover Gasket	2	10046089
1994-96 LT1 (Iron Head) L99			

Parts Information

Parts are currently available from GMSPO.

Warranty Information

Vehicle	Labor Operation	Labor Code	Labor Time
B,D C,K M,L S,T P,G, W4	Seal, Valve-Replace	J-0547	Use published labor operation time

For vehicles repaired under warranty, use the table.