

#09-06-01-014: Oil Leak by High Pressure Fuel Pump (Reseal Camshaft Cap) - (Dec 3, 2009)

Subject: Oil Leak by High Pressure Fuel Pump (Reseal Camshaft Cap)

Models: 2007-2009 Chevrolet Cobalt SS, HHR SS
2007-2009 Pontiac Solstice GXP
2007-2009 Saturn SKY Redline
2008-2009 Opel GT
2008 Daewoo G2X
Equipped with a RPO LNF Engine
Please Refer to GMVIS



Condition

Some customers may comment on an oil leak.

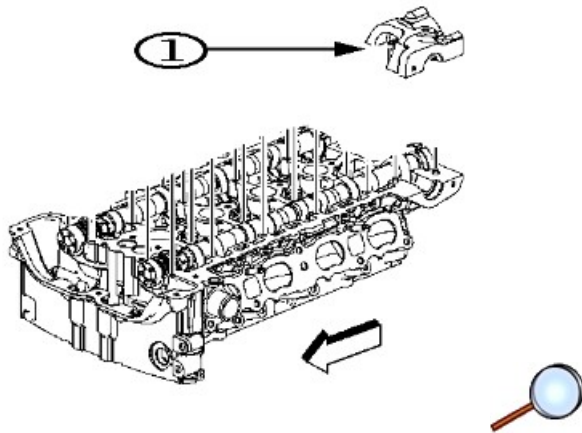
Upon further investigation, a technician may find oil leaking from the high pressure fuel pump area.

Cause

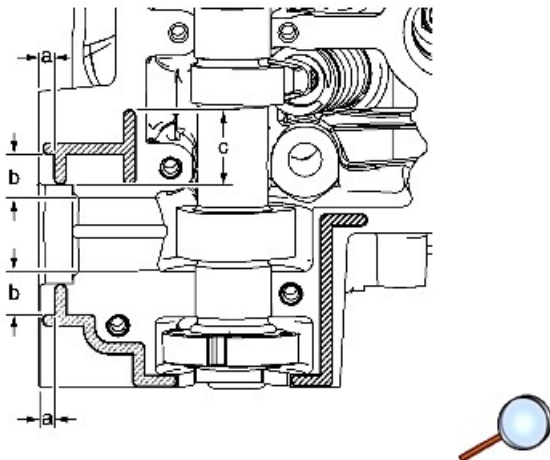
This condition may be caused by a camshaft cap that is not sealed correctly to the cylinder head, causing oil to leak out.

Correction

1. Verify the customer's concern.
2. Remove the fuel pump. Refer to Fuel Pump Removal in SI.
3. Remove the camshaft cover. Refer to Camshaft Cover Removal in SI.



4. Remove the camshaft cap (1). Remove all excess sealing material from both surfaces.



Note: It is critical during installation to ensure the bearing rear cap and cylinder head alignment is correct and the mating surfaces are flush. © 2020 General Motors. All rights reserved.

- Ensure that all sealing material has been removed from the components and the sealing surfaces are clean and free of contamination prior to applying the sealer.
 - Install and align the rear cap within 20 minutes of applying the sealer.
5. Apply a 2.5 mm (0.1 in) bead of sealer, GM P/N 12378521 (in Canada, use P/N 88901148) to the cylinder head at the number 6 intake camshaft rear cap mating surface.
- Note:** Apply the sealer to all locations centrally locating the bead on the rail.
- Run the bead to 5 mm (0.2 in), dimension "a", as shown.
 - Where the cap ends on the perimeter rail, extend bead approximately 4 mm (0.2 in) beyond edge of cap.
 - Run bead, dimension "c", 32 mm (1.3 in) from the edge of the cylinder head as shown.
 - Run bead, dimension "b", 20 mm (0.8 in) from edge of cylinder head as shown.
6. Install the number 6 intake camshaft rear cap.
- 6.1. Tighten the cap bolts evenly to 5 N•m(44 lb in).
 - 6.2. Tighten the cap bolts evenly to 10 N•m(89 lb in).
 - 6.3. Back the cap bolts out 120 degrees.
 - 6.4. Tighten the cap bolts evenly a final pass to 10 N•m(89 lb in).
7. Install the camshaft cover and gasket, GM P/N 12609291. Refer to Camshaft Cover Installation in SI.
8. Install the fuel pump. Refer to Fuel Pump Installation in SI.
- Important:** When installing the fuel pump, install a NEW high pressure fuel pump O-ring (GM P/N 12600313), high pressure fuel pump gasket-to-cylinder head (GM P/N12595951) and high pressure fuel pipe (GM P/N12615401).

Parts Information

Part Number	Description
12609291	Camshaft Cover Gasket
12595951	Gasket, High Pressure Fuel Pump Gasket
12600313	High Pressure Fuel Pump O-Ring
12615401	High Pressure Fuel Pipe
12378521 (U.S.) 88901148 (Canada)	Silicone

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J7549*	Reseal Camshaft Cap	2.6 hrs
*This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide		

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