

Date	Expiration	Release	Page
02.2014	02.2016	A	1(5)

OIL PRESSURE SENSOR REPLACEMENT Prevost vehicles

Rev B: Added "VBC campaign #"

DESCRIPTION

On the vehicles affected by this bulletin, the engine oil pressure sensors for the piston cooling jet (PCJ) and the main oil gallery have to be replaced with an updated pressure sensor to avoid erroneous low oil pressure diagnostic codes.

In addition, some Volvo engines may have experienced an oil pressure sensor failure leading to oil contamination into the engine wire harness. If oil contamination is observed in the engine harness, install a jumper harness to protect the new sensor. This jumper harness will stop oil from wicking back down and possibly causing damage to the new sensor or cause later improper diagnostics.

MODEL YEAR(S) AND VEHICLES INVOLVED

NOTICE TO SERVICE CENTERS	
Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.	
Model	VIN
X3-45 Coaches Model year: 2011, 2012, 2013	GLI vehicles From 2PCG33491 <u>BC735050</u> up to 2PCG33498 <u>DC735369</u>
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.	

MATERIAL NEEDED

Order the following parts:

Part No.	Description	Qty
21634021	PRESSURE SENSOR 0-7 BAR	2

Other parts that may be required:




Part No.	Description	Qty
22205127	JUMPER HARNESS	2

NOTE

Material can be obtained through regular channels.

Date	Expiration	Release	Page
02.2014	02.2016	A	2(5)

REQUIRED TOOLS

TORQUE WRENCH 	OPEN END WRENCH SET 
CONTACT CLEANER 	

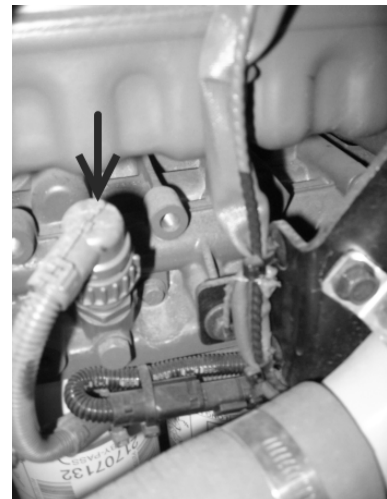
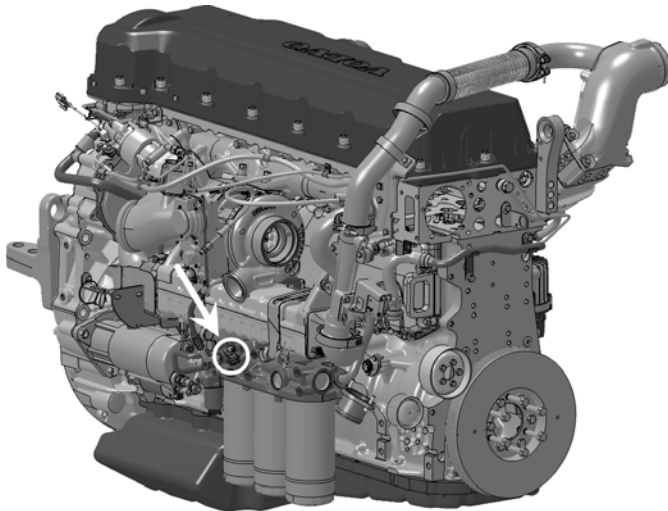
PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. In the battery box, set the battery cut-off switch to the OFF position prior to working on the vehicle.

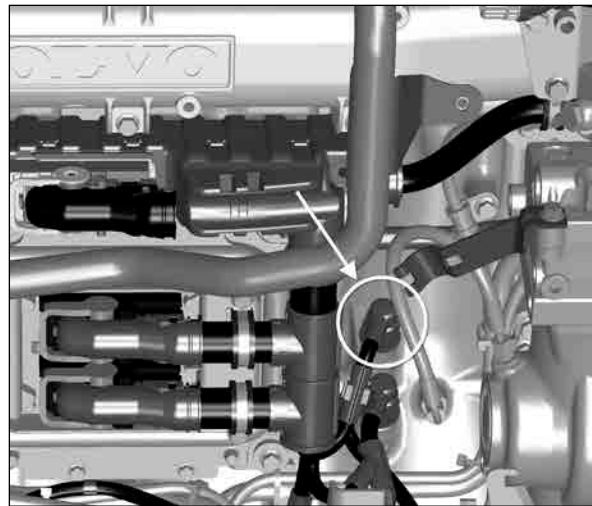
- 1) Disconnect the **PCJ oil pressure sensor** connector rotating the knurled collar counterclockwise. See the images below to locate the sensor.



- 2) Unscrew the sensor from the oil filter housing.
- 3) Inspect the engine harness for oil contamination. If a sensor is being replaced for electrical faults and oil has NOT wicked into the harness, **REPLACE THE SENSOR ONLY.** (p/n 21634021)
 - a. Install the new pressure sensor (p/n 21634021). Torque: 18.5 ± 2 ft-lb.
 - b. Reinstall the connector and rotate clockwise to lock.
- 4) If a sensor has failed **AND** is wicking oil into the engine harness, **REPLACE THE SENSOR AND INSTALL THE JUMPER HARNESS** p/n 22205127.

Date	Expiration	Release	Page
02.2014	02.2016	A	3(5)

- a. Clip applicable cable ties and remove P-clamps securing the oil pressure sensor harness.
 - b. Disconnect the oil pressure sensor harness from the sensor.
 - c. Install the new pressure sensor (p/n 21634021). Torque: 18.5 ± 2 ft-lb.
 - d. Reverse the back shells on the jumper harness connectors before installing the jumper harness.
 - e. Clean out the electrical connector pins and sensor mounting surface with contact cleaner. Connect the 90 degree end of the jumper harness to the oil pressure sensor and the straight end to the harness. Install cable ties and P-clamps as necessary.
 - f. If oil has wicked to the engine control module connectors, clean the connectors thoroughly with electronic cleaner and dry with compressed air.
- 5) On the other side of the engine (curb side), locate the **Engine oil pressure sensor** (Main gallery)
- 6) Disconnect the oil pressure sensor connector rotating the knurled collar counterclockwise. Refer to images below to locate the sensor.



- 7) Unscrew the sensor from the engine block.
- 8) Inspect the engine harness for oil contamination. If a sensor is being replaced for electrical faults and oil has NOT wicked into the harness, **REPLACE THE SENSOR ONLY.** (p/n 21634021)
- a. Install the new pressure sensor (p/n 21634021). Torque: 18.5 ± 2 ft-lb.
 - b. Reinstall the connector and rotate clockwise to lock.
- 9) If a sensor has failed AND is wicking oil into the engine harness, **REPLACE THE SENSOR AND INSTALL THE JUMPER HARNESS** p/n 22205127.
- a. Clip applicable cable ties and remove P-clamps securing the oil pressure sensor harness.

- b. Disconnect the oil pressure sensor harness from the sensor.
 - c. Install the new pressure sensor (p/n 21634021). Torque: 18.5 ± 2 ft-lb.
 - d. Reverse the back shells on the jumper harness connectors before installing the jumper harness.
 - e. Clean out the electrical connector pins and sensor mounting surface with contact cleaner. Connect the 90 degree end of the jumper harness to the oil pressure sensor and the straight end to the harness. Install cable ties and P-clamps as necessary.
 - f. If oil has wicked to the engine control module connectors, clean the connectors thoroughly with electronic cleaner and dry with compressed air.
- 10) Run the engine and check for leaks.
- 11) Use Tech tool to clear any diagnostic trouble codes (DTC).



PARTS / WASTE DISPOSAL

Return replaced parts to PrevoSt with A.F.A. for full reimbursement.

ESTIMATED TIME

The time required to perform this special bulletin is approximately one hour.

OTHER

VBC Bulletin	S6305
Fail Code	01.00-2
Defect Code	09
System Condition	B
Causal Part	21302639

Special Bulletin

SP14-300B

Date	Expiration	Release	Page
02.2014	02.2016	A	5(5)

Prevost engages in a continuous program of testing and evaluating to provide the best possible product. Prevost, however, is not committed to, or liable for updating existing products.