

# Special Bulletin

# SP16-307A

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Revision A: This revision replaces all previous releases

June 28, 2016 General revision per comments

EGR VENTURI TUBE REPLACEMENT

Prevost vehicles

## DESCRIPTION

On the vehicles affected by this bulletin, replace the EGR venturi tube on the D13 engine by an improved version.

## MODEL YEAR(S) AND VEHICLES INVOLVED

<b>NOTICE TO SERVICE CENTERS</b>		
<i>Verify vehicle eligibility by checking warranty bulletin status with <b>SAP</b> or via <b>ONLINE WARRANTY SYSTEM</b> available on Service / Warranty tab of Prevost website.</i>		
Model	VIN	Fleet Number
X3-45 Commuter Model Year : 2012	From 2PCG33495CC73 <b>5053</b> up to 2PCG33495CC73 <b>5232</b> incl.	From 2400 up to 2489, incl.
<b>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.</b>		

## MATERIAL NEEDED

Order the following parts:

Part No.	Description	Qty
22098113	Venturi tube	1
22090422	Venturi tube wrap	1
967343	O-ring 64.5x 3mm	2
85143714	O-ring, pressure sensor	2

Parts that may be required depending on vehicle condition:

Part No.	Description	Qty
20504408	V-band Clamp	2
946671	Flange screw M8*30	4

<b>NOTE</b>
<i>Material can be obtained through regular channels.</i>

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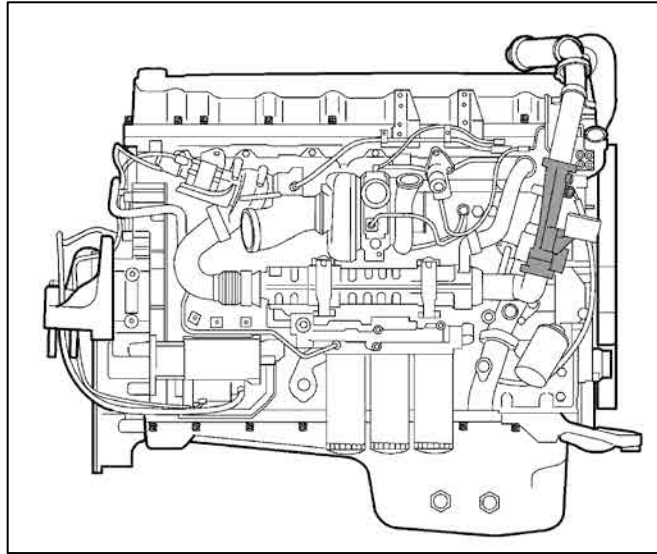
## PROCEDURE



### DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position. In addition, place the starter selector switch to the "OFF" position.

On the hot side of the engine, locate the venturi tube on outlet side of EGR cooler.



*You must read and understand the precautions and guidelines in IMPACT, Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.*

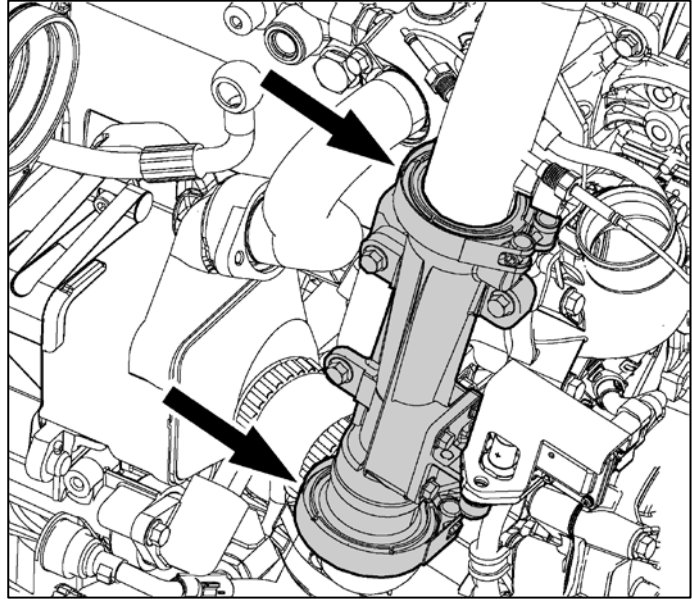
## Removal

1. Disconnect the wiring harness lead from the differential pressure sensor connector.
2. Sensor is located along venturi tube, below thermostat housing piping elbow.
3. Pull on the yellow tab to release the connector.

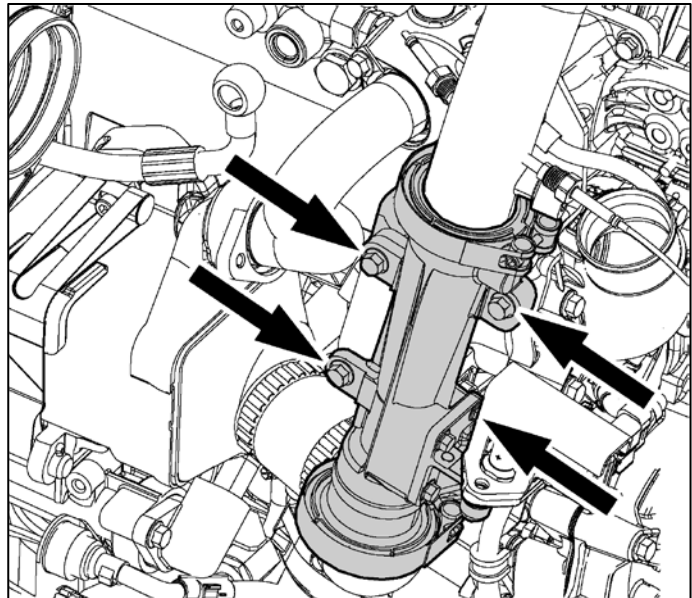


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4. Loosen and remove the V-clamps at the top and bottom ends of the venturi tube. Make sure they are not damaged and reserve for re-use.
5. Only if damaged, replace by **20504408**.



6. Remove the 4 fasteners securing the venturi tube to the mounting bracket. Remove wrap, if necessary. Make sure fasteners are not damaged and reserve for re-use.
7. Only if damaged, replace by **946671**.
8. Remove the venturi tube now that it is loose from the engine.



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9. Remove pressure sensor from removed tube.

10. Install existing pressure sensor on new venturi tube.

Note: Refer to Function Group 293 in IMPACT, *identity 132806267* for removal and installation of sensor. Install new sealing rings **85143714** and torque the fasteners to specification. Apply a torque seal stripe.



## Installation

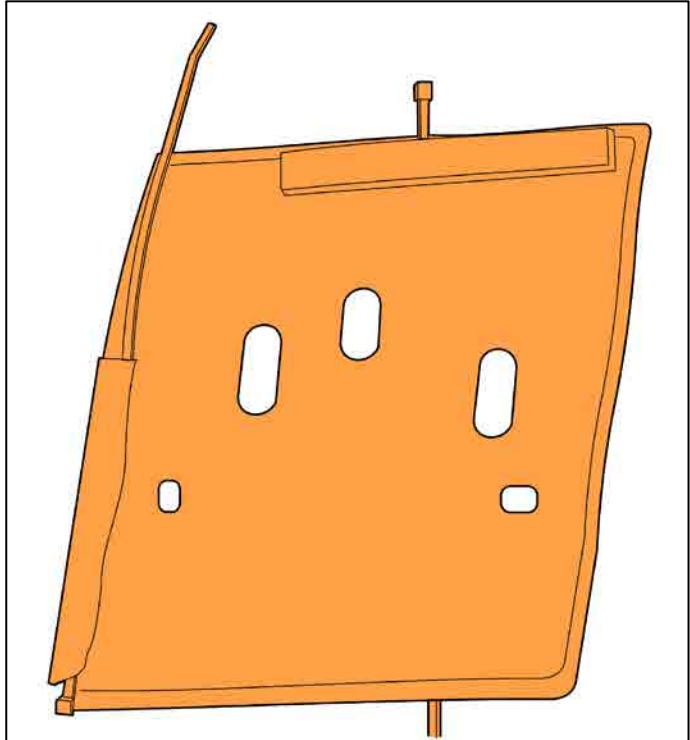
1. Inspect new venturi tube for any damage to the coating.



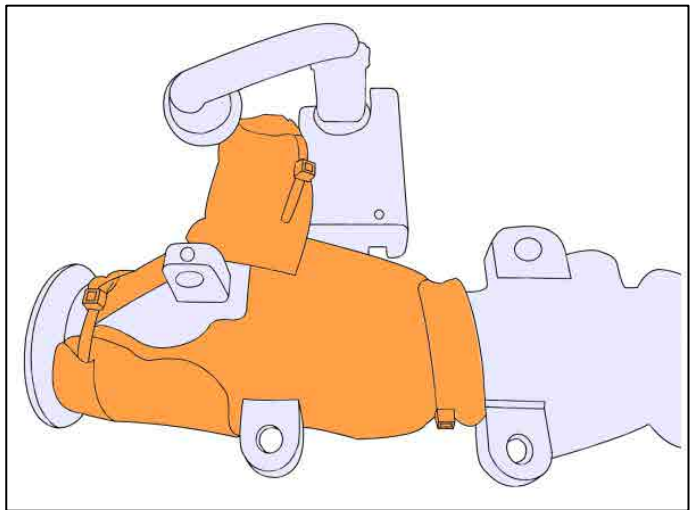
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2. If reusing original wrap, remove old cable ties and install new.

Lay venturi wrap on a flat surface with the middle cable tie facing up. Align the replacement venturi mounting bosses with the appropriate holes in the wrap.



3. Secure middle cable tie around venturi tube. Cut off excess.
4. Pull wrap around venturi tube and push hose clamp through holes in wrap
5. Lubricate and install a new O-ring 967343 on each side of the venturi tube.
6. Ensure venturi tube mounting bosses are still accessible through the holes in the wrap.
7. Clean the mating flanges before installation.
8. Position the venturi tube on the mounting bracket. Verify O-ring seals are in place and did not fall out during installation.



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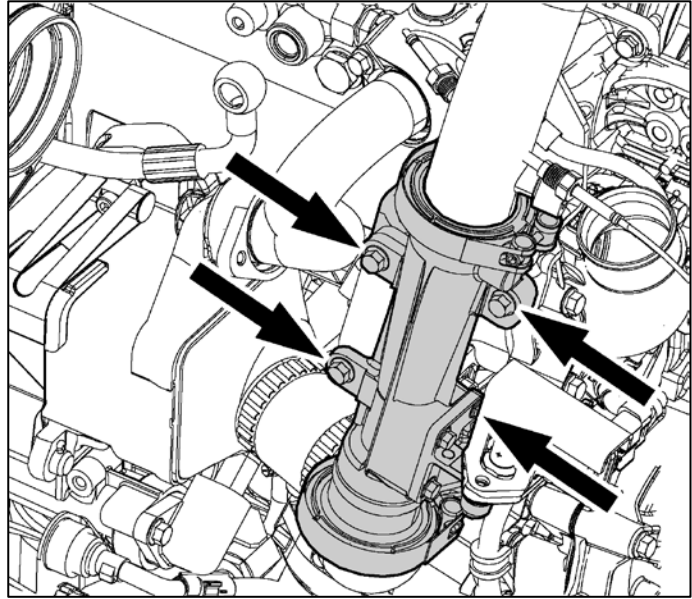
9. Install the 4 fasteners reserved earlier securing the venturi tube to the mounting bracket.

If damaged, replace by **946671**.

Tighten the fasteners to:

**18 ± 3 ft-lb** (24 Nm ± 4 Nm)

Apply a torque seal stripe.



10. Check that the O-ring is properly positioned on the venturi tube.

Ensure both ends of the remaining external cable tie are accessible when the venturi is installed.

Install reserved V clamps connecting the venturi tube to the crossover piping.

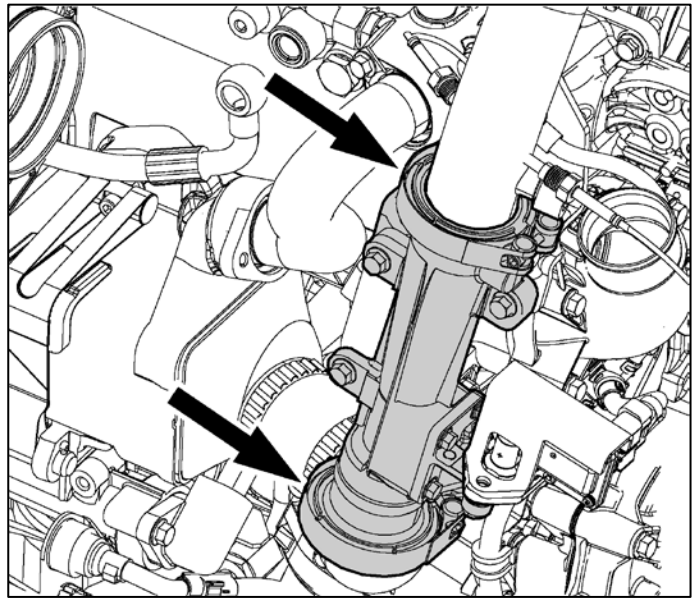
If damaged, replace by **20504408**.

Tighten the clamps to:

**14.75 ± 3 ft-lb** (20 Nm ± 4 Nm).

Apply a torque seal stripe.

Note. After reaching the specified torque, inspect the V-clamp to make sure that no portion of the clamp has "bottomed out".



11. Secure venturi tube wrap remaining external cable tie. Install additional cable tie around venturi tube wrap. Attach venturi wrap velcro.
12. Connect the wiring harness lead to the pressure differential sensor terminal.
13. Set the battery master switch (master cut-out) to the ON position. Also place the starter selector switch to the "ON" position.
14. Due to the engine control module (ECM) self-learning capability, it is necessary to reset learned ECM parameters after servicing some engine related components. This allows the ECM to learn the new components behavior. After servicing is complete, perform the "Learned Data Reset" operation number 1700-08-03-32 using the tech tool.

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## PARTS / WASTE DISPOSAL

Return replaced parts to Prevost with A.F.A. for full reimbursement. Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)
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## ESTIMATED TIME

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

## OTHER

VBC Bulletin	N/A
Fail Code	01.00-2
Defect Code	09
Syst. Cond	B
Causal Part	21751413

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