




**SAFETY
RECALL**

SR16-18A

DATE :	APRIL 2016	SECTION :	05 - Cooling
SUBJECT:	TRANSMISSION OIL COOLER – AIR PURGE LINE REMOVAL		

REVISION A: THIS SAFETY RECALL SUPERSEDES PREVIOUS VERSION.
Expression *coolant vent line* changed for *air purge line*

APPLICATION

NOTICE TO SERVICE CENTERS	
<i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of PrevoSt website.</i>	
Model	VIN
H3-41, H3-45 coaches Model Year: 2012 – 2016 not equipped with a transmission retarder	 From 2PCH33495CC71 <u>1887</u> up to 2PCH33493GC71 <u>3241</u> incl.
H3-45 VIP motorhomes Model Year: 2011 – 2016 not equipped with a transmission retarder	From 2PCVS3493BC71 <u>1889</u> up to 2PCVS3491GC71 <u>3101</u> incl.
X3-45 coaches Model Year: 2011 – 2016 not equipped with a transmission retarder	From 2PCG33496BC73 <u>5075</u> up to 2PCG33492GC73 <u>6053</u> incl.
X3-45 VIP motorhomes Model Year: 2012 – 2016 not equipped with a transmission retarder	From 2PCBS3496CC73 <u>5236</u> up to 2PCBS3497GC73 <u>6045</u> incl.
XLII-45 Entertainer Model Year: 2012 – 2013 not equipped with a transmission retarder	From 2PCYS3494CC73 <u>5133</u> up to 2PCYS3498DC73 <u>5489</u> incl.
X3-45 VIP commercial use Model Year: 2014 – 2016 not equipped with a transmission retarder	From 2PCCS3497EC73 <u>5494</u> up to 2PCCS3499GC73 <u>6052</u> incl.
This Safety Recall 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 recall will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.	

DEFECT DESCRIPTION

On the vehicles involved, an air purge line may have been routed or secured incorrectly, which result in the air can purge line rubbing against a braided fuel hose at the aftertreatment hydrocarbon doser.

CORRECTIVE ACTIONS

The air purge line will be removed as described in the following procedure.

MATERIAL

Order kit #SR16-18 which includes the following parts:

Part No.	Description	Qty
501800	FM PLUG 1/4PM HEX SOCKET	2




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

CONTENTS

PART 1 – AIR PURGE LINE REMOVAL NEAR THE TRANSMISSION OIL COOLER.....	3
PART 2 – AFTERTREATMENT HYDROCARBON DOSER HARD FUEL LINE INSPECTION....	5
PART 3 – HARD FUEL LINE REPLACEMENT (IF DAMAGED).....	6

PROCEDURE

 DANGER
<p>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.</p>

PART 1 – AIR PURGE LINE REMOVAL NEAR THE TRANSMISSION OIL COOLER



CAUTION

DO NOT REMOVE THE SURGE TANK PRESSURE/FILLER CAP WHEN THE COOLANT IS HOT.

1. Allow enough time for the coolant to cool to the point that it will not burn you.
2. The cooling system should be partially drained using a vacuum system if available or simply by gravity drain. To do so,
 - a) Close the two coolant system shut-off valves.

On X3 Series, the valves are located in the engine compartment. One is located under the radiator fan drive mechanism support; another valve is on the L.H. side of the engine compartment in front of the radiator (FIGURE 1).

On H3 Series, one valve is located in the engine compartment near the water pump. Another valve is located behind rear fender, above the L.H. rear wheelhousing near the optional coolant heater (FIGURE 2).
 - b) Place a cloth on the surge tank pressure cap. Unscrew the surge tank pressure cap counterclockwise $\frac{1}{4}$ turn to let air enter the system and release the pressure gradually.
 - c) Connect coolant extractor (FIGURE 3). Use coolant extractor to drain the coolant from the engine. An alternate method is to unscrew the drain plug and drain the coolant into a suitable container using a drain hose.

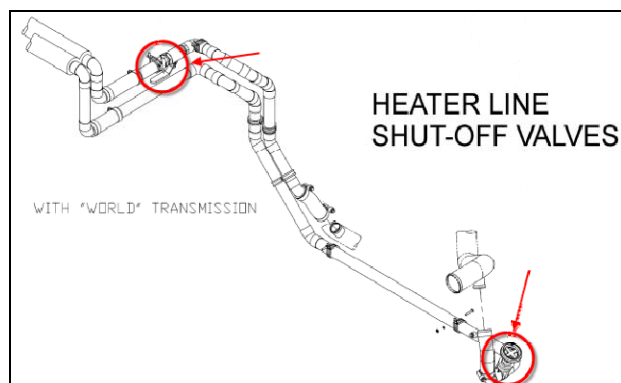


FIGURE 1 : X3 SERIES SHUT-OFF VALVES

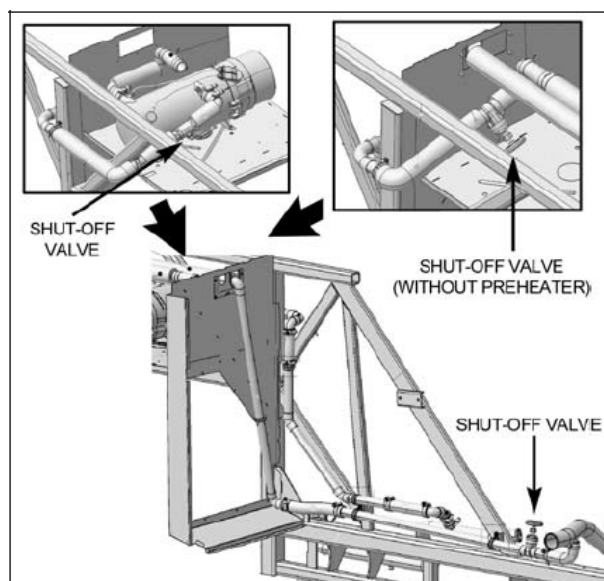


FIGURE 2 : H3 SERIES SHUT-OFF VALVES

3. On system drained, disconnect the air purge line at the surge tank (see FIGURE 4). Put Loctite 567 thread sealant on ¼ hex socket plug (#501800) and then screw the plug to the surge tank.

PLUG TIGHTENING: finger tighten then tighten 2 additional turns

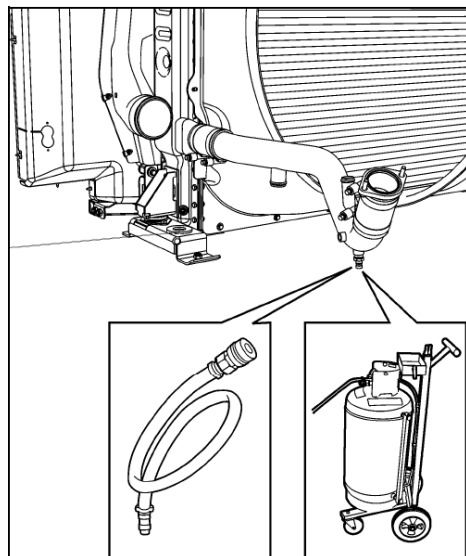


FIGURE 3 : COOLANT DRAIN PLUG

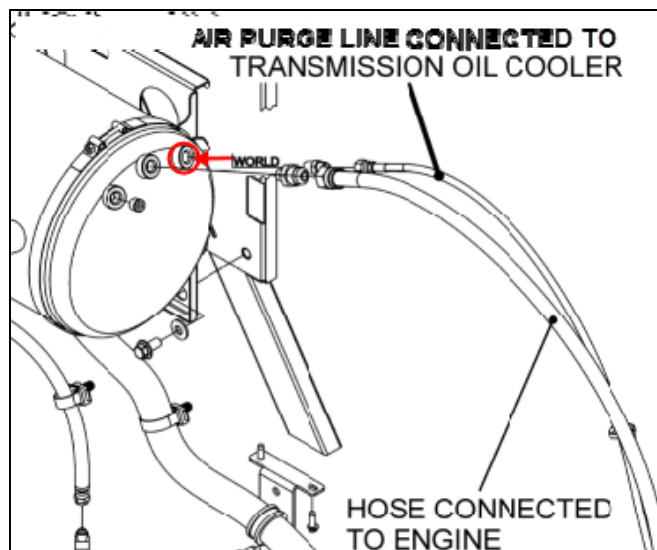


FIGURE 4 : SURGE TANK

4. Disconnect the transmission oil cooler air purge line at the coolant pipe near the oil cooler (see FIGURE 5). Discard the air purge line. Put Loctite 567 thread sealant on ¼ hex socket plug (#501800) and then screw the plug to the coolant pipe fitting.

PLUG TIGHTENING: finger tighten then tighten 2 additional turns

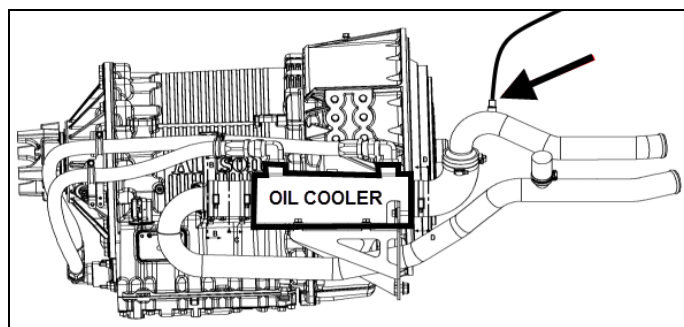


FIGURE 5: AIR PURGE LINE

PART 2 –AFTERTREATMENT HYDROCARBON DOSER HARD FUEL LINE INSPECTION

It was determined that rubbing between the air purge line (removed in Part 1) and the aftertreatment hydrocarbon doser hard fuel line may seriously damage the hard fuel line.

Perforation of the hard fuel line could result in spraying fuel onto hot exhaust components potentially resulting in an engine fire.

The aftertreatment hydrocarbon doser hard fuel line must be inspected in order to make sure it is not damaged. It must be replaced if damage is found.

1. Locate the braided section of the aftertreatment hydrocarbon doser hard fuel line (FIGURE 6)

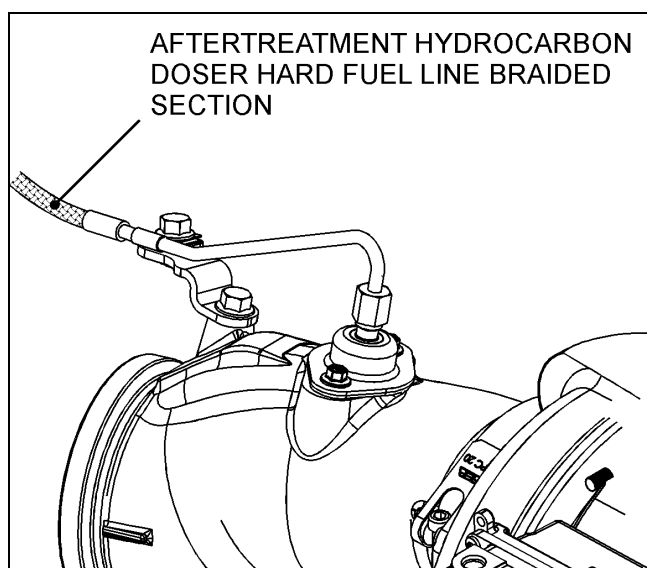


FIGURE 6: HARD FUEL LINE BRAIDED SECTION



FIGURE 7: EXAMPLE OF DAMAGE ON THE HARD FUEL LINE BRAIDED SECTION CAUSED BY THE AIR PURGE LINE

2. If the hard fuel line braided section shows evidence of rubbing and is damaged (FIGURE 7), it must be replaced. In this case, refer to PART 3 of this Safety Recall.

If the hard fuel line braided section is in good condition, disregard PART 3, no replacement is needed.



IMPORTANT

Please, indicate on the work order if the hard fuel line braided section is in good condition or if it must be replaced.

PART 3 – HARD FUEL LINE REPLACEMENT (IF DAMAGED)

Given the risks associated with the replacement and installation of fuel line located close to hot components such as turbocharger, you must make an appointment in a PrevoSt Service Center or PrevoSt Certified Service Provider to have the hard fuel line replaced free of charge, if the inspection performed in PART 2 revealed that the hard fuel line is damaged.

Ref. Special Bulletin SP16-24.

PARTS DISPOSITION

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

PART 1 AND PART 2

PART 1 & PART 2 are covered by PrevoSt's normal warranty. We will reimburse you the parts and 1 ½ hours (1.5) of labor upon receipt of a completed A.F.A. Please submit claim via our Online Warranty System, available at www.prevoStcar.com (under service \ warranty section). Use Claim Type: "Bulletin/Recall" and select "Safety Recall SR16-18".

Please, indicate on the claim if the hard fuel line braided section is in good condition or if it must be replaced.

Should you only wish to close the safety recall (without reimbursement), fill-in the "Safety Recall Certification Sheet" provided with this bulletin and return it to our warranty department by Email at prevoSt.onlinewarranty@volvo.com or by fax at 418-831-9301.

OTHER

VBC Bulletin	N/A
Fail Code	05.05
Defect Code	09
Syst.Cond	R
Causal Part	053592P

Access all our Service Bulletins by typing the following URL in your browser address bar:

<http://techpub.prevoStcar.com/en/>

E-mail us at technicalpublications_prev@volvo.com and type "ADD" in the subject to receive our warranty bulletins by e-mail.